APPENDIX 5.3 BIG-1

AIR QUALITY TECHNICAL REPORT

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AIR QUALITY TECHNICAL REPORT

*PART 1

Barstow International Gateway
Air Quality Technical Report

November 2025

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APPENDICES

Appendix A: Air Quality Modeling Data
Appendix B: BNSF Barstow International Gateway Corridor Emissions Analysis

ACRONYMS AND ABBREVIATIONS

AAQS	Ambient Air Quality Standards
AB	Assembly Bill
ACC	Advanced Clean Cars
ACT	Advanced Clean Trucks
AERMOD	American Meteorological Society/U.S. EPA Regulatory Model
AESS	Automatic Engine Start Stop
APCD	Air Pollution Control Districts
AQMD	Air Quality Management Districts
AQMP	Air Quality Management Plan
ASF	Age sensitivity factor
BEL	Battery Electric Locomotives
BIG	Barstow International Gateway
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CALGreen	California Green Building Standards
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulation
CO_2	Carbon dioxide
CO	Carbon monoxide
CWP	Countywide Plan
CalEEMod	California Emissions Estimator Model
Connect SoCal 2024	2024-2050 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)
DPM	Diesel particle matter
EIR	Environmental Impact Report
EMFAC	EMission FACtors
ESA	Environmental Site Assessments
EV	Electric Vehicle
FAH	Fraction of time at home
FCAA	Federal Clean Air Act
GHG	Greenhouse gas
HAPs	Hazardous Air Pollutants
HI	Hazards Index
HRA	Health risk assessment
LORs	Laws, Ordinances, and Regulations
Pb	Lead
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MM	Mitigation Measure
MOU	Memorandum of Mutual Understanding

MSATs	Mobile source air toxics
MWh	Megawatt hours
MY	Model Year
NAAQS	National Ambient Air Quality Standard
NHTSA	National Highway Traffic and Safety Administration
NOA	Naturally occurring asbestos
NO_2	Nitrogen dioxide
NO_x	Nitrogen oxides
OEHHA	Office of Environmental Health Hazard Assessment
O_3	Ozone
PM_{10}	Particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$	Particulate matter equal to or less than 2.5 microns in diameter
PM	Particulate matter
ppm	Parts per million
RELs	Reference Exposure Levels
ROG	Reactive organic gases
RTG	Rubber Tired Gantry
RTP	Regional transportation plan
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCE	Southern California Edison
SIP	State Implementation Plan
SO_2	Sulfur dioxide
South Coast AQMD	South Coast Air Quality Management District
TAC	Toxic air contaminant
TMT	Truck Miles Traveled
TRUs	Transport refrigeration units
USC	United States Code
U.S.	United States
U.S. EPA	United States Environmental Protection Agency
VMT	Vehicle Miles Traveled
VOC	Volatile organic compound
ZE	Zero-emission

1.0 BARSTOW INTERNATIONAL GATEWAY SUMMARY

This Report has been prepared to analyze the proposed Barstow International Gateway ("BIG") and associated off-site improvements. BIG is located in the City of Barstow ("City") and in unincorporated territory in the County of San Bernardino ("County"), California (see **Figure 1: Regional Vicinity Map** and **Figure 2: Local Vicinity Map**

). BIG consists of a rail yard with an intermodal facility[1] and "block swap" facility[2], a transload warehouse center[3], and a solar farm.

Additionally, to serve the proposed rail yard and transload warehouse center, BNSF Railway Company (BNSF) proposes off-site rail improvements (including lead track extensions), and off-site non-rail improvements (including drainage, utilities, and roadways).

BIG's proposed components are depicted on **Figure 3: Barstow International Gateway Concept Diagram**,

Figure 4: Barstow International Gateway Conceptual Site Plan, and off-site improvements are depicted on

Figure 5: BIG Off-Site Improvements.

1.1 Project Location and Setting

BIG totals approximately 5,000 acres[4], and includes approximately 680 acres which would remain ungraded/undisturbed ("Mojave River buffer area"). BIG's Specific Plan area totals approximately 4,300 acres and is generally bounded by the Mojave River to the north, Main Street (also referred to as National Trails Highway or Route 66) to the south, Lenwood Road to the east, and Hinkley Road to the west.

Most of the BIG footprint is within unincorporated County lands, while the remainder is within Barstow City limits. The BIG footprint is generally flat and gradually slopes north to the Mojave River. Offsite improvements are generally within existing BNSF rail and City/County street rights-of-way. The BIG footprint is primarily vacant undeveloped land, which is traversed by an existing BNSF railroad, and which contains scattered residential, commercial, and industrial land uses. This area is mostly devoid of tall vegetation and trees, with structures and other elements of the built environment scattered throughout. Existing land uses within BIG's footprint are listed in **Table 1: Existing Land Uses**. There are approximately 108 dwelling units and approximately 94,000 square feet of non-residential land uses (i.e., commercial

[1] "Intermodal facility" refers to a rail yard where containerized goods are transferred between trains and trucks. Trucks arrive to either pick up containers from arriving trains or deliver containers for departing trains. However, unlike traditional intermodal facilities, at BIG the majority of containers would arrive by train and be transferred to and from electric hostlers.

[2] "Block Swap" refers to transferring a block of intermodal train cars between trains. In effect, the entire block of cars remains coupled together and is moved en masse to another train.

[3] "Transload" refers to the transfer of goods from one container to another. In this document, it specifically refers to the transfer of goods from 40-foot international containers to 53-foot domestic containers. The transload warehouse center at the BIG is designed to serve goods transported to and from the intermodal facility by rail.

[4] Although the BIG Specific Plan acreage is 4,335 acres, throughout this technical report, the BIG Specific Plan acreage is referred to as 4,300 acres. Note: all acreages in this report are preliminary and based on GIS data. Acreages will be refined with site survey.

and industrial) within the BIG footprint. Additionally, a private airstrip ("Depue Airport") is within BIG's proposed solar farm footprint. Under BIG, this private airstrip would be demolished and replaced with the proposed solar farm.

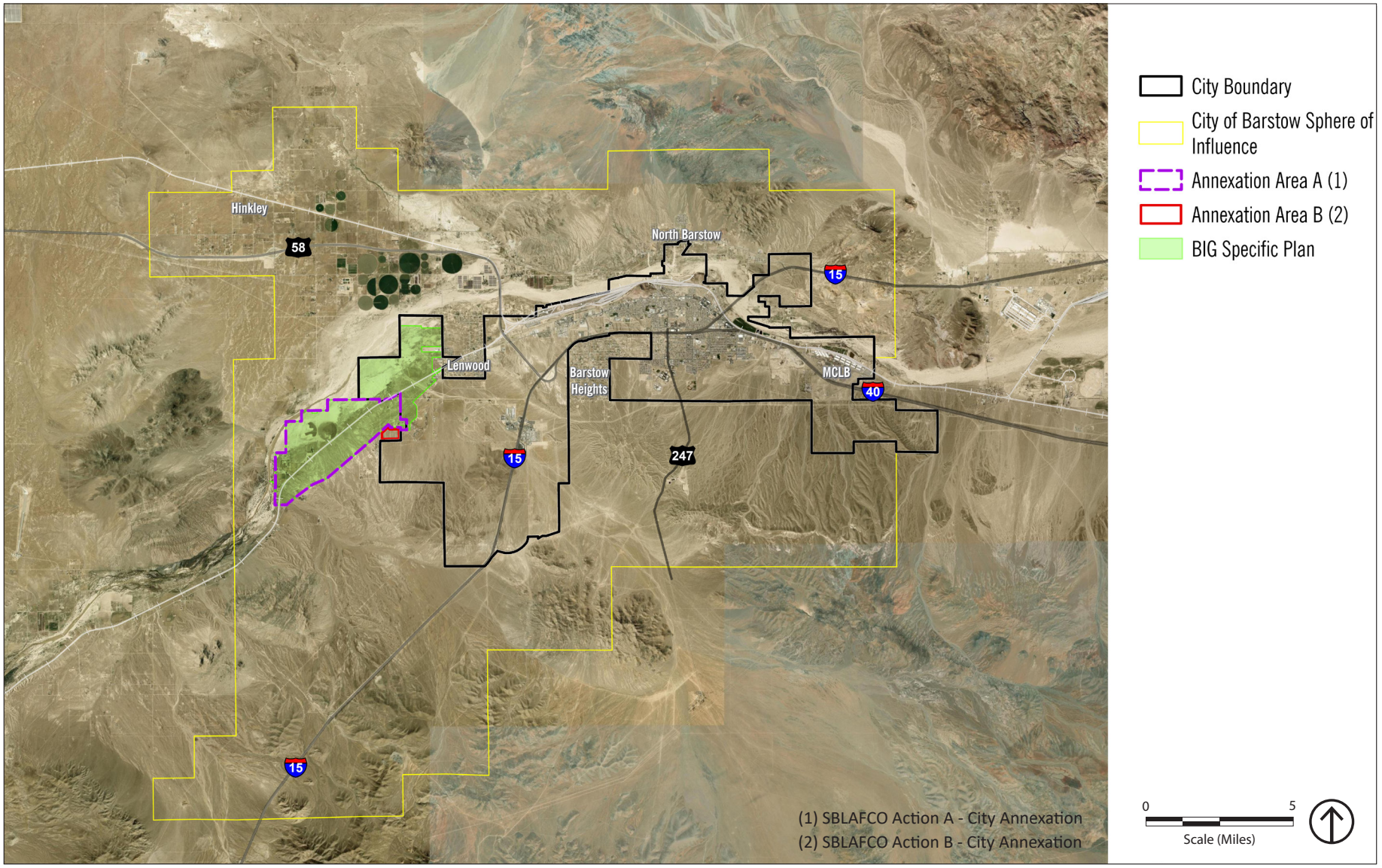
Table 1: Existing Land Uses					
Description	**Residential (DU)**	**Commercial (SF)**	**Industrial (SF)**	**TOTAL (DU)**	**TOTAL (SF)**
Existing Land Use	108	85,887	7,837	108	93,724

Regional vehicular access to BIG is provided by Main Street from the south, I-15 from the southeast, and SR-58 from the east. Local access to BIG is primarily provided by Lenwood Road and Hinkley Road from the east and west, respectively, in addition to various unpaved roads along Main Street. Regional rail access is provided from the north by BNSF's Mojave subdivision, from the west by BNSF's Cajon subdivision, and from the east by BNSF's Needles subdivision.



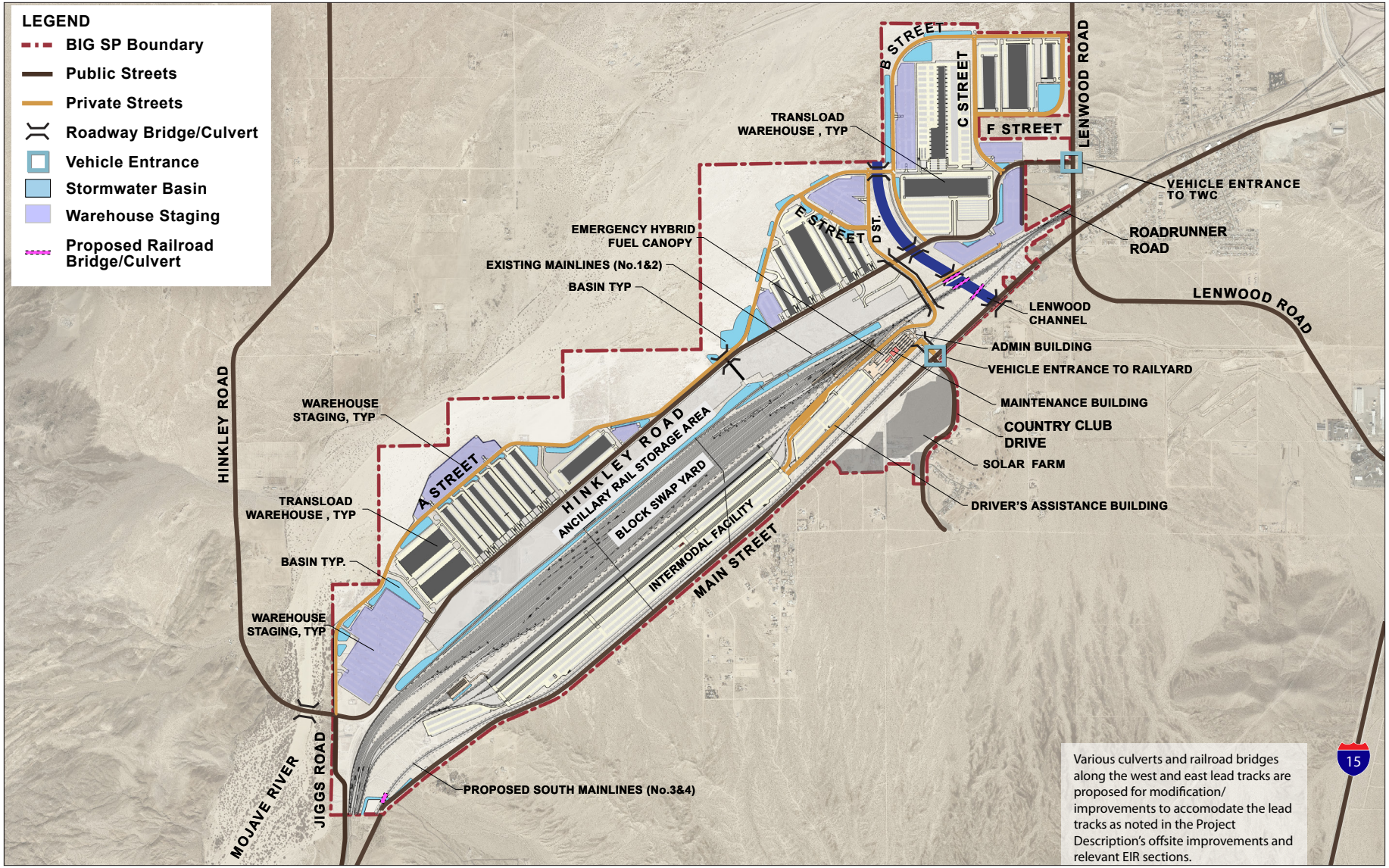
Sources:
City of Barstow , City Boundaries, 2024.

Figure 1
Regional Vicinity Map



Sources:
County of San Bernardino, 2023; City of Barstow, 2024.

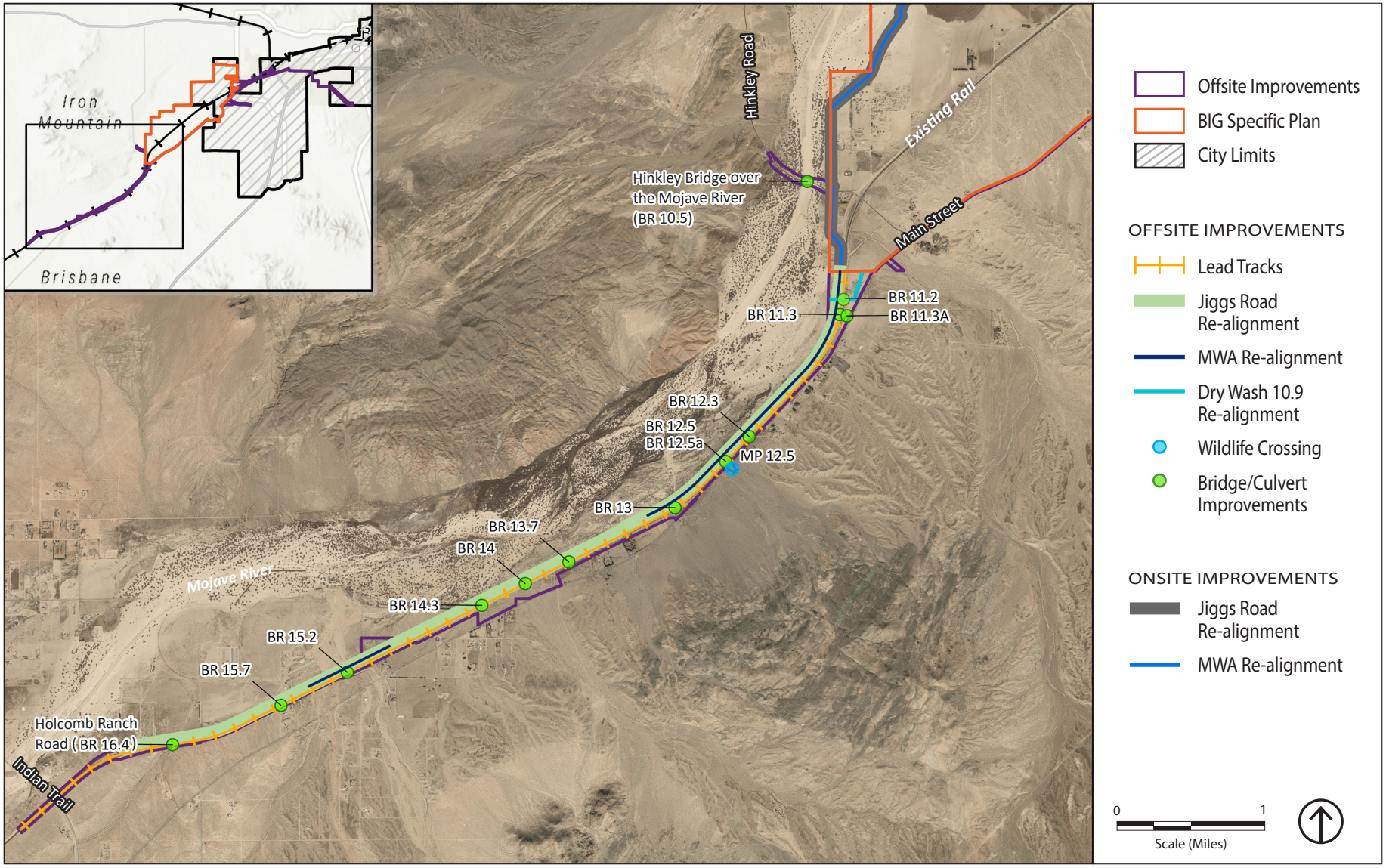
Figure 2
Local Vicinity Map



Sources:
Transystems, 2025.

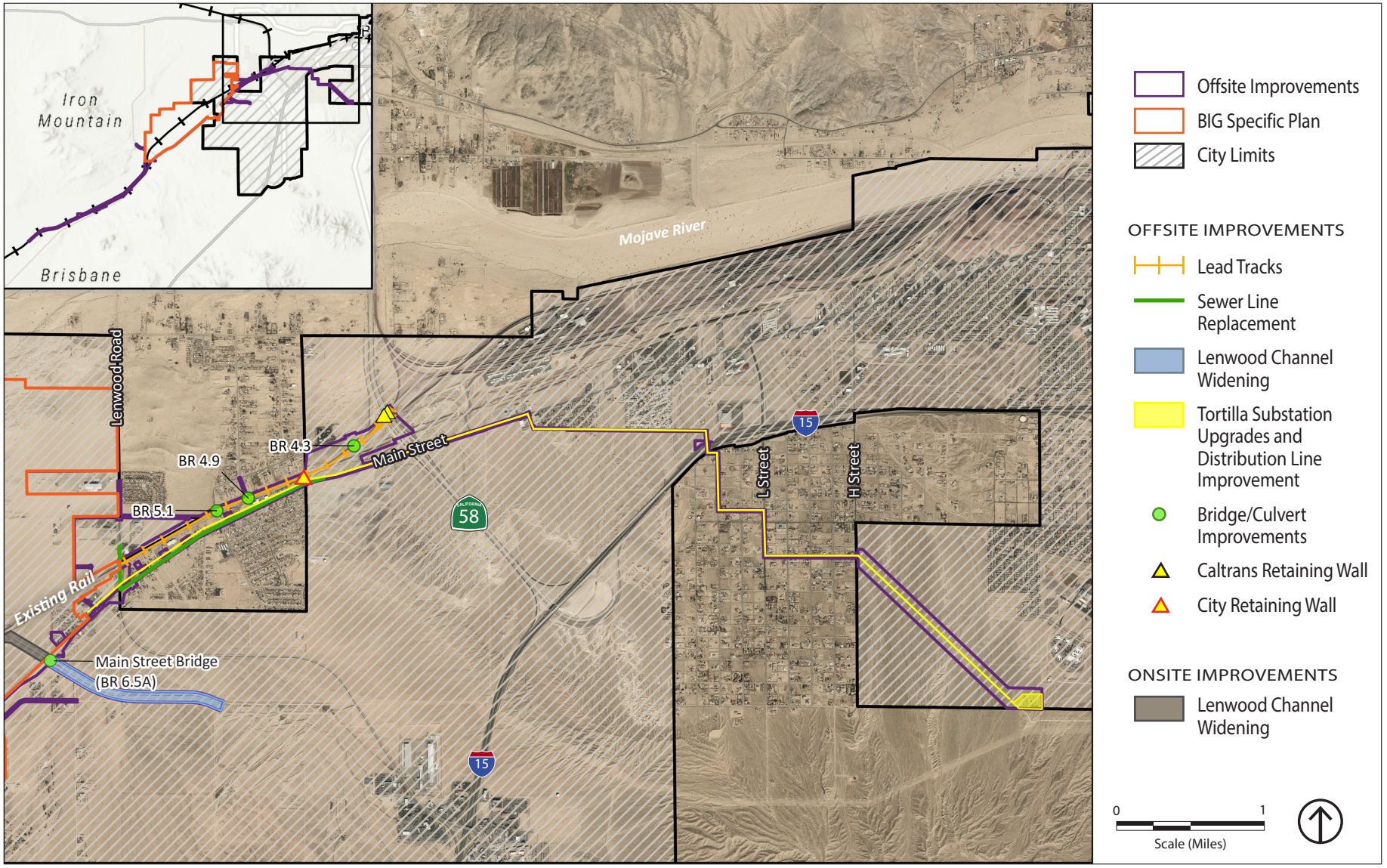
Note: Specific details set forth in the Specific Plan pertaining to the rail yard are considered difinitive. The conceptual site plan for the transload warehouse center is for illustrative purposes only. The final site plan presented for entitlement approval may differ based on final design with building square footages not to exceed 9 MSF.

Figure 3
Barstow International Gateway Conceptual Site Plan



Sources:
TransSystems, 2025.

Figure 4
BIG Offsite Improvements, West



Sources:
TransSystems, 2025.

Figure 5
BIG Offsite Improvements, East

1.2 Project Components

Rail Yard

Overview

The rail yard would be generally bound by the existing mainline to the north, Main Street to the south, Lenwood Road to the east, and Hinkley Road to the west. The rail yard would consist of an intermodal facility (i.e., where cross-dock intermodal operations and other intermodal facility operations would occur and where support intermodal facility uses would be located), a block swap yard, and ancillary rail areas (i.e., container yard, chassis storage, and ancillary rail storage area), as described below.

BIG's proposed rail yard would operate 24 hours per day, 365 days per year. The rail yard would have approximately 860 employees during Opening Year (2028), 1,010 employees in Interim Year (2033), and 1,125 employees during Horizon Year (2048)[5], which would accommodate both the block swap yard and intermodal facility operations. Employees would be split evenly between three shifts.

While the block swap yard would change the number of trains that would arrive or depart BIG by optimizing for end destinations, it would not increase the number of containers. BIG's intermodal facility would, through the cross-dock intermodal operation, add a new volume to the BNSF network, totaling approximately 3.2 trains per day on average in 2028, approximately 4.3 trains per day on average in 2033, and approximately 4.9 trains per day on average in 2048. These train counts include eastbound and westbound trains, and as described elsewhere, trains between the Ports and the BIG intermodal facility would be comprised of dedicated Tier 4 locomotives.

Intermodal Facility

BIG's intermodal facility is proposed at the southern extent of the BIG Specific Plan area and its operations would consist of two types: cross-dock intermodal and "other" operations. BIG's intermodal facility would operate differently than typical intermodal facilities in that most of the containers processed at BIG intermodal facility would not arrive or leave externally by heavy-duty trucks. Instead, almost all of the containers would arrive or leave by train and be processed via BIG's unique "cross-dock intermodal" operation. The intermodal facility's primary purpose would be to transfer containers between railcars and electric hostlers[6] for cross-dock movements at the onsite proposed transload warehouse center, and vice versa, though a small portion would arrive by heavy-duty truck. The electric hostlers would be used to transport containers within the rail yard, and between the rail yard and transload warehouse center. The electric hostlers would be zero-emission and would not leave BIG. This differs from the operations at a traditional intermodal facility where the primary purpose is to transfer containers from heavy-duty trucks[7]

[5] A "Horizon Year" is the last year of analysis. BIG's Horizon Year is 20 years after opening.
[6] Electric hostlers are trucks used for moving trailers and containers short distances within freight terminals, rail yards, and warehouses. Electric holsters would not use public roadways outside of BIG footprint.
[7] "Heavy-duty" trucks are conventional highway trucks that travel on public roads and carry containers intra- and inter-state.

to railcars, and vice versa (defined as "other" operations). BIG also includes a dedicated fleet of Tier 4 linehaul locomotives[8] to move containers between the Ports and the BIG intermodal facility.

BIG's intermodal facility would be composed of various components including railroad tracks, cargo handling equipment, an automated gate system, circulation roadways, yard equipment parking, container parking, stormwater detention ponds, electric vehicle charging stations, and buildings and ancillary rail facilities. Containers would be stored in parking spaces and low stacks at the intermodal facility, along with the ancillary rail area, and transload warehouse center (each described further below). Although electric lift equipment would be utilized to the extent commercially feasible within BIG's intermodal facility, a small 5,000-square-foot fuel canopy would be constructed in the electric hostler maintenance area to accommodate fueling of hybrid equipment. Hybrid and diesel equipment would include rubber-tired gantry cranes (RTGs), seven air compressors, welders, railcar wheel change machines, and heavy-duty truck transport refrigeration units (TRUs). The fuel canopy would be served by a 10,000-gallon unleaded fuel aboveground storage tank and a 20,000-gallon diesel fuel aboveground storage tank, with both controlled by an electronic fuel control system. In addition, starting in BIG opening year 2028, BNSF would increase the renewable diesel composition within their existing southern California fueling sites, including the existing fueling sites at the Ports and Barstow classification yard from 1 percent to 10 percent, a 900 percentage point increase in renewable diesel. This would improve the emissions of all BNSF trains fueling at the Ports, including those BNSF trains that would not stop at BIG.

BIG's intermodal facility proposes approximately 134,000 square feet of support buildings and structures, as detailed in **Table 2: BIG Intermodal Facility Structures**. As described below, final building sizes may vary slightly, this EIR conservatively analyzes up to 150,000 SF of support buildings and structures.

Table 2: BIG Intermodal Facility Structures

Building/Canopy	Square Footage
Administration Building	23,000
Electric Hostler Employee and Maintenance Building	39,000
Drivers Assist Building	5,000
Crane Maintenance Employee and Storage Building	5,000
Crane Maintenance Canopies	22,500
Container Safe Haven Canopies	2,500
Quick Repair Canopy	10,000
AGS Kiosk Canopies	20,000
AGS Portals	2,000
Emergency Fuel Station Canopy for Hybrid Vehicles	5,000
Total	*134,000*
Assumed Building Total for Final Design	*150,000*

Note:
The square footage described is an estimate and may vary up to 10% depending on the final engineering, therefore, the total square footage for planning purposes is estimated at approximately 150,000 sf.

[8] "Tier" refers to emissions standards set by regulatory agencies for engine emissions, with Tier 0 referring to the oldest and having the highest emissions, while Tier 4 is the latest, more stringent standard with the fewest emissions.

Block Swap Yard

The block swap yard is proposed within the middle portion of the BIG Specific Plan area, on approximately 410 acres of the rail yard's total approximately 1,950 acres. The proposed block swap yard would allow for the transfer of multiple railcars, or "blocks" of intermodal rail cars between trains via Tier 4 switcher locomotives. A block is defined as rail cars of a similar type moving to a similar destination that are already connected and can be combined with other blocks intended for similar destinations to produce more efficient train movements. The entire block of rail cars would remain coupled together and be moved en masse, permitting the synchronizing of blocks to their destinations, so that each train would be compiled of rail car blocks travelling to similar destinations. Blocks could be assembled from inbound trains or trains processed at the intermodal facility carrying containers processed at the transload warehouse center. Certain train blocks may stage at the block swap yard until another train arrives with similar destination. The block swap yard would facilitate switching and transfer of lengthy rail car blocks between tracks for assembling departing trains. Thus, by synchronizing trains to their destinations, the block swap yard would improve train efficiency eastbound and westbound. The rail car blocks within the block swap yard would include containers from BIG's intermodal facility and containers processed at the transload warehouse center, combining as needed based on their destination.

The block swap yard's function is unique compared to a typical classification yard, such as the existing Barstow classification yard. Classification yards are where trains being processed are made up of non-intermodal railcars (i.e., individual boxcars, gondolas, open and closed hopper cars, automobile railcars, and tank cars), rather than intermodal railcars. BNSF designates these types of trains with a different train identification than those that would be processed at BIG. Further, BNSF uses different equipment to process these trains than would be used at BIG. While there is a small intermodal facility component adjacent to the existing Barstow classification yard, that intermodal facility is only used to process overflow from other BNSF intermodal facilities. By contrast, BIG's block swap yard would disassemble and assemble lengthy blocks of railcars with intermodal containers to similar destinations utilizing Tier 4 switcher locomotives. The existing Barstow classification yard also utilizes switcher locomotives as part of its operations, although they are currently Tier 0/0+/1+ switchers. Starting in BIG opening year 2028, BNSF will voluntarily retire all existing Tier 0/0+/1+ switcher locomotives at the unrelated existing Barstow classification yard, and in their place add six Tier 4 switcher locomotives.

Ancillary Rail Area

The ancillary rail storage area is an approximately 400-acre area north of the existing mainline and would be graded and covered with aggregate to be used for numerous purposes, including a container yard, truck chassis storage, and storage of maintenance equipment. A container yard would support the storage of empty containers awaiting loading while chassis storage would be used to provide parking for empty chassis awaiting use for loading, unloading, or draying of containers. The ancillary rail storage area would also be used for storage of spare parts and equipment for track maintenance, including rail, ties, turnouts, and other track material.

Mainline Improvements

BIG would retain the existing two rail mainlines ("north mainlines") within their current alignments, except at bridge crossings, which would be upgraded. BIG also proposes to construct two new mainlines ("south mainlines"), which would traverse the proposed rail yard in an east-west orientation, extending from Lenwood Road on the east to Hinkley Road on the west. During the construction phase, the south mainlines would be used to divert train traffic from the existing mainlines while they are upgraded. During BIG operations, half of the trains which would bypass BIG would use the north mainlines and half would use the south mainlines to balance train counts between the mainlines. BIG would also upgrade various bridge crossings including replacement of the crossing at Lenwood Channel to accommodate the proposed Lenwood Channel widening; removal of existing culverts[9] to accommodate proposed culverts for the overall rail yard; and replacement of two structures to meet BNSF standards regarding 50- and 100-year flood conditions.

Transload Warehouse Center

The transload warehouse center is proposed at the northern extent of the BIG Specific Plan area, on approximately 1,330 acres of BIG SP's total approximately 4,300 acres. The transload warehouses would be designed to process the contents of containers from cross-dock intermodal operations, with a small percentage dedicated to processing the contents of containers that have a portion destined for the Inland Empire (the remainder of the container's contents would be placed on trains destined eastward). A small percentage of containers processed at the transload warehouse center would arrive/leave by heavy-duty trucks, primarily from/to the Inland Empire. The transload warehouse center would process most of the containers within an on-site "closed loop" operation between BIG's intermodal facility and the transload warehouse center. The transload warehouse center would include approximately 9.0 million square feet of transload warehouses. The transload warehouse center would be fully built during construction, but operations would gradually increase as customers relocate to BIG. Transload warehouse center operations would include approximately 2,767 employees in Opening Year, approximately 3,660 employees in Interim Year, and 4,248 employees in Horizon Year.

The transload warehouse center would be composed of multiple buildings of various configurations and sizes, depending on tenant needs. As such,

Figure 4: Barstow International Gateway Conceptual Site **Plan**

Figure 4 provides a conceptual site plan for illustrative purposes showing potential transload warehouse buildings, locations, and sizes. Final transload warehouse buildings, locations, and sizes may differ from those proposed and would be processed with the City, as development occurs. Each transload warehouse would include container parking/storage areas, employee parking, stormwater/hydrology improvements, and landscaping. Finally, emergency generators are proposed throughout the transload warehouse center to provide electric power in the event of a power outage.

There would also be several areas distributed around the transload warehouse center, adding up to approximately 275 acres, for staging/overflow parking of containers accessing the transload warehouse

[9] Culverts are drainage features, typically a pipe or arch, used to convey water under a road or rail tracks.

center. These warehouse staging areas would be for truck containers only; truck "hoteling"[10] would not occur, as electric hostlers would transfer containers to/from these areas, thus, heavy-duty truck trailers would not enter or exit these areas.

Hydrology/Stormwater Drainage Improvements

BIG would construct various infiltration basins and drainage outlets to the Mojave River that would be designed for 100-year flood events. Preliminarily, BIG proposes detention ponds of various sizes throughout BIG footprint totaling approximately 165 acre-feet of storage volume, which would accommodate the 100-year flood conditions.

In addition to various ephemeral washes throughout BIG footprint, three other primary hydrologic features traverse BIG footprint, as detailed below.

Unnamed Stream (Milepost 10.9): This feature is a dry wash from Main Street to the Mojave River that includes a sharp western bend. This feature would be realigned to accommodate track mains, sidings, and support tracks and improved with a combination of bridges and box culverts spanning the channel (Bridge 10.9a and Bridge 11.2, respectively).

Hinkley Road Bridge at Mojave River (Milepost 10.5): The existing Hinkley Road Bridge, which the County owns and maintains, is at a narrowed section of the Mojave River and crosses via a concrete pier structure. Based on discussions with the County, the existing Hinkley Road Bridge over the Mojave River is experiencing structural issues and is at risk of being over-topped from seasonal flooding. Hydrology and hydraulic analyses have indicated the existing bridge is undersized. To maintain a roadway connection to Hinkley Road from the transload warehouse center, BIG proposes to replace the existing bridge with a longer structure to better match the channel width of the Mojave River at that location. The channel beneath, and immediately adjacent to, the existing bridge would be excavated and widened to match the natural channel width more closely. Portions of Hinkley Road immediately east and west of the bridge would be raised to reduce exposure to Mojave River flood events. These proposed improvements at Hinkley Road Bridge would reduce flooding compared to existing conditions. As part of the improvements, the existing at-grade crossing would be abandoned, and vehicles would instead utilize the proposed Hinkley Road extension through the transload warehouse center.

Lenwood Channel (Milepost 6.5): A portion of the BIG footprint along Lenwood Channel is currently within the FEMA 100-year flood zone due to existing flooding concerns. Lenwood Channel is a north-south earthen channel used to convey water from the southeast to the Mojave River and maintained by the San Bernardino County Flood District. Lenwood Channel would be widened by approximately 60 to 100 feet throughout the Specific Plan area for a length of 1.1 miles, continuing offsite south of Main Street, for an additional 1 mile. The widened channel would improve flooding compared to existing conditions. Preliminary BIG design requires the Lenwood Channel to be spanned at three locations for additional track east leads, mains, and sidings, as well as three roadway crossings: Main Street, Hinkley Road, and the private road between the intermodal facility and transload warehouse center.

[10] Truck "hoteling" refers to when a heavy-duty truck parks for the driver to rest within the cab.

Utility Improvements

To accommodate the proposed rail yard and transload warehouse center, BIG would require both relocations of existing facilities and construction of new/expanded facilities (i.e., water, wastewater, electric power, natural gas, and telecommunications). The utility improvements proposed within BIG's footprint are discussed below.

Water

BIG's construction phase water demand includes non-potable water for construction activities and potable water for on-site construction workers. To provide non-potable water during the construction phase, up to eight new private onsite temporary groundwater wells would be constructed within BIG's transload warehouse center portion.

Temporary aboveground connections from Golden State Water Company existing mains within Main Street to BIG would be constructed to supply potable water to the construction sites. Additionally, Mojave Water Agency owns and operates a 48-inch recharge water line that crosses the BIG Specific Plan area. BIG proposes to relocate this existing line to the north to avoid conflict with rail yard and transload warehouse center improvements.

Operational potable water and fire flow water would be provided by directly connecting to facilities owned and operated by the Golden State Water Company. Fire flow would be supplemented by on-site water tanks and fire pumps if necessary to meet the fire flow requirements. Power to water tanks and fire pumps would be supported by the transload warehouse diesel backup generators in the case of an emergency. Water tanks would be placed entirely within the BIG footprint. The transload warehouse center would connect to an existing water main in Jasper Road on the east end of the BIG Specific Plan area. The rail yard would connect to an existing water main on the east end of the BIG Specific Plan area near Lenwood Road on the south side of Main Street. A new public 12- to 16-inch looped water main would be constructed from the existing connection in Main Street, extending west to the edge of rail yard, north to Hinkley Rd, and then continue east in Hinkley Road to the existing connection point near Lenwood Road. A second connection from the looped water main would be provided at the northeast corner of the Specific Plan at Lenwood Road. The new on-site public water mains total approximately 10 miles in length.

Wastewater

BIG's construction-related wastewater generation would be from construction workers. Temporary portable facilities (i.e., portable restrooms and portable handwash stations) would be utilized during the construction phase.

BIG's operational wastewater generation would be from transload warehouse center and rail yard employees, and the rail yard wash bays and track pans. Wastewater generated by BIG would discharge to the City's existing wastewater system at three connection points. The transload warehouse center would discharge to the proposed new sewer main in Hinkley Road. A new 8-inch wastewater line is proposed within the Hinkley Road extension from the west end of the transload warehouse center to the northeast end of the transload warehouse center and would connect to the existing sewer main in Lenwood Road. Within the transload warehouse center, west of the Lenwood Channel, 8-inch lines would extend north

into C Street to serve the transload warehouses connecting to Lenwood Road via B Street. The rail yard would include new wastewater lines and force mains at the southern portion of the rail yard, conveying wastewater to the east and connecting to the existing sanitary sewer main in Main Street near Country Club Drive. BIG's wastewater would be conveyed by gravity flow to and treated at the Barstow Regional Wastewater Treatment Facility, which is owned and operated by the City. Wastewater conveyance and treatment would be coordinated with the City.

Electrical Power

BIG construction activities would generate temporary electric power demand from construction equipment, tools, lighting, and other necessary facilities (e.g., temporary offices). The electric power for construction activities would be supplied through connections to existing Southern California Edison (SCE) facilities.

BIG operations would generate permanent electric power demand from the transload warehouse center (lighting, electric vehicle charging for material handling, and forklifts) and rail yard (lighting, buildings, cranes, and electric hostlers (used to move containers between the rail yard and the transload warehouse center). BIG operational electric power demand would be met through connecting to the SCE Tortilla Substation and supplemented with onsite electrical generation (i.e., an approximately 140-acre, approximately 21 megawatts (MW) solar power generation facility (i.e., solar farm), which is described further below. BIG proposes to construct the following onsite electric power facilities to serve BIG:

- Three substations: two substations at the eastern and western extents of the rail yard; and one substation within the solar farm.
- Additional 33kV distribution lines connecting via underground duct banks in a loop around the west end of the intermodal facility and north end of the transload warehouse center. These proposed 33KV distribution lines would total 23 miles of ductbank within the BIG Specific Plan area.
- An approximately 140-acre solar farm is proposed south of BIG rail yard, at the southwest corner of the Main Street at Country Club Drive intersection. The solar farm is estimated to generate approximately 21 MW to serve BIG. The solar farm would include a battery electric storage system and a new substation at the northwest corner to route power from the solar farm to BIG rail yard. The solar farm would be fenced to prevent trespass and would include internal roadways for maintenance vehicles. The solar farm would require minimal grading to level the site as existing topography is utilized wherever possible and excavation limited primarily to stormwater detention to capture runoff. Additionally, BIG would comply with CalGreen regulations requiring that rooftop solar generation be installed on the industrial warehouse rooftops (Title 24, Section 140.10). Based on 9.0 MSF of transload warehouse, BIG would include approximately 6.4 MW of rooftop solar generation for Title 24 compliance.
- Emergency diesel generators are proposed at various locations across the rail yard and transload warehouse center to provide backup power in the event of Tortilla Substation service interruptions. Rail yard generators would only be used if a power outage were to occur at nighttime, as the proposed solar farm would provide sufficient power during daytime in the event of a power outage. The rail yard would include up to 10 generators at the far western extent, while the transload warehouse center would include up to 29 generators dispersed throughout. Generators would require up to 50 hours of testing and maintenance operations per year.

Solar farm maintenance would consist of cleaning, inspecting, and replacing solar panels, equipment, and other system components. Maintenance trips associated with these activities would be limited to trucks transporting materials, equipment, and supplies to and from the farm. To maintain uninterrupted power generation for BIG, maintenance activities would occur incrementally. The solar farm would also require vegetative maintenance (e.g., mowing and weeding, and other grass control measures). No grading would occur during solar farm maintenance.

Natural Gas

BIG construction activities would not require construction of new natural gas facilities, although protection in place or relocation of existing natural gas facilities would be required to accommodate BIG.

Stormwater

To collect stormwater runoff, BIG proposes stormwater basins that would detain any stormwater in excess of predevelopment flows then discharge to existing drainageways through stormwater best management practices. BIG would include various outlets to the Mojave River. Exact sizing and locations of transload warehouse center basins would be dependent on final transload warehouse location, layout, and sizing. In addition, Lenwood Channel would be modified as discussed above.

Solid Waste

BIG would result in solid waste generation from construction (demolition debris, broken or excess materials, packaging, and other construction waste), as well as during operations from the rail yard and transload warehouse center. BIG's solid waste would be collected within onsite trash bins and be disposed of at the Barstow Sanitary Landfill, with 65 percent being recycled (for instance, demolished concrete foundations can be crushed and re-used onsite as aggregate).

Telecommunications

Telecommunication lines cross BIG footprint along Lenwood Road and along the southern edge of the existing tracks. Underground utilities may also be present. All underground communication facilities are assumed to have shallow depths except those crossing under existing features such as underpasses and creeks. Lines within BIG footprint may be relocated adjacent to/within existing and proposed rights-of-way or abandoned. In addition, BNSF Telecommunications would install approximately 12 communication towers with heights generally between 100 - 120 feet, though two communication towers would be 160 feet tall. Additionally, various existing telecommunications lines owned by Frontier Communications and Lumen would be removed from within BIG footprint, and, in their place, new communications line would be run beginning at the Jasper Road at Lenwood Road intersection, running to the western extent of the BIG Specific Plan area, and then running eastward back to Lenwood Road in a "loop."

On-Site Circulation Improvements

BIG would include various on-site circulation improvements as discussed below.

Hinkley Road Realignment: BIG would vacate Hinkley Road between the south side of the Mojave River bridge crossing and Main Street, closing the existing at-grade rail crossing. Hinkley Road would be realigned beginning at the north side of the Mojave River bridge crossing to connect through the transload

warehouse center to the Jasper Road/Lenwood Road intersection. Transload warehouse center employees and heavy-duty trucks destined for the transload warehouse center would enter from the Lenwood Road/Hinkley Road/Jasper Road intersection.

Internal private roadways: In addition to the realigned public Hinkley Road (discussed above), BIG would include four dedicated internal private roadways for electric hostlers (private streets A, B, D, and E), and two internal private roadways for employee, visitor, and truck access (private streets C and F).

Country Club Drive: Country Club Drive would be widened along the solar farm frontage for approximately 400 feet to the proposed realignment of Sweeten Lane. A new stop-controlled intersection is proposed at the Country Club Drive at Sweeten Lane intersection.

Main Street: Rail yard employees and heavy-duty trucks destined for the intermodal facility would enter BIG's rail yard from a new driveway on Main Street across from Country Club Road. Main Street would be widened from two lanes to four lanes for approximately 0.5 miles east of Country Club, resulting in a consistent four-lane roadway width through Barstow. Additionally, the existing two-lane Main Street over Lenwood Channel low water crossing would be replaced with a new four-lane bridge that accommodates the 100-year flood condition, substantially reducing the existing flood conditions. Main Street would be raised over Lenwood channel, modifying the vertical alignment of Main Street for approximately 0.8 mile. The intent of this design is to keep flood waters contained in Lenwood Channel and convey the flow to the Mojave River under the bridge at MP 6.5, avoiding the overflow of the bank that can occur under existing conditions.

To accommodate BIG, various on-site public rights-of-way within the City and unincorporated San Bernardino County would also need to be vacated.

Off-Site Improvements

In addition to the on-site improvements described above, BIG also proposes off-site rail and non-rail improvements, as discussed below:

Off-Site Rail Improvements

BIG proposes lead track extensions to the east of approximately two miles and lead track extensions to the west of approximately seven miles ("east lead track" and "west lead track"). These off-site rail improvements would be primarily within existing BNSF right-of-way. These improvements would enable trains to safely enter and exit the mainline at mainline speeds, rather than slower "yard" speeds and risk fouling the track.[11] BIG east and west lead tracks would require modifications to existing culverts within the footprint; see also *Stormwater Drainage* discussion below.

[11] "Fouling the track" means the placement of an individual or an item of equipment in such proximity to a track that the individual or equipment could be struck by a moving train or on-track equipment, or in any case is within four feet of the field side of the near running rail (49 CFR Part 214). When a rail network becomes congested, trains can foul the track by moving slower than a train behind them.

Off-Site Non-Rail Improvements

BIG proposes ancillary and related stormwater drainage, utility (i.e., water, sewer, electric power, natural gas, and telecommunications), and circulation/roadway improvements and modifications, described below.

Water. North of transload warehouse center, an existing Mojave Water Agency 48-inch recharge line would be relocated. The relocated line would stretch along the north side of the transload warehouse center to the west end of the BIG Specific Plan area, then continue along the north side of the mainline and lead tracks for a total of 8.3 miles.

Wastewater. An existing approximately 27-inch sanitary sewer line is within existing BNSF ROW for approximately 1.6 miles between Lenwood Road and Pettit Road. This line includes multiple north/south lateral connections to serve the land uses between Main Street and the existing BNSF tracks. BIG would relocate this line at Phillips Street south to within Main Street. Additionally, the transload warehouse center will connect to City sewer via a new 27-inch sewer line within Jasper Road extending to north of Paris Avenue.

Electric Power. Electrical demand would be handled through connecting to the SCE Tortilla Substation, located approximately 0.4 miles south of the Veterans Parkway at Diamond Avenue intersection. Three underground duct banks with electrical conductors would connect BIG to the Tortilla Substation utilizing existing franchise agreements with the City and County on a route following Main Street, Sunrise Road, N Street, and Bonanza Road before utilizing existing easements between Bonanza Road and the substation. This proposed 33KV distribution route would extend approximately 7.1 miles underground from the Tortilla Substation to the intermodal facility's eastern extent at Country Club drive, then continue overhead approximately 3.5 miles from Country Club Drive to approximately Hinkley Road. For the 33kv line segment from Tortilla Substation to BIG, the 33kv circuits would be in underground utility lines resulting in an approximately 30-foot-wide disturbance to account for construction access and temporary spoils. From Tortilla substation to H Street (approximately 1.2 miles), the 33kv conduit could occur within a 450-foot-wide corridor, inclusive of the existing 150-foot wide SCE easement along Bonanza Road. However, the exact alignment is presently unknown and is being coordinated with SCE. Therefore, this EIR analyzes an approximately 30-foot wide disturbance within the 450-feet wide corridor ("33kv distribution corridor"). This EIR analyzes the "worst-case" environmental impacts within the 33kv distribution corridor. SCE would make modifications, which include constructing new feeders and new power distribution lines. Within the Tortilla Substation's existing fence line, SCE would also make modifications to supply the new feeders from their existing 115kV-33kV transformers. Various offsite existing electric power lines could be relocated, modified, or extended to accommodate BIG improvements.

Natural Gas. Various off-site existing natural gas lines could be relocated to accommodate BIG improvements.

Telecommunications. No off-site telecommunications improvements are proposed. Various minor existing telecommunications lines would be relocated toward the eastern end of the lead track improvements. Existing telecommunications lines passing through the intermodal facility and block swap yard would be relocated to the north side of the Main Street ROW.

Stormwater Drainage. As described above, the Lenwood Channel widening would continue offsite, south of Main Street. It would be widened by approximately 60 to 100 feet for a total of approximately 2.1 miles (of which 1 mile would be offsite) to improve flooding compared to existing conditions. At the Main Street crossing at Lenwood Channel, BIG would replace 0.8-mile of the existing Main Street low water crossing of Lenwood Channel with a bridge and raise and widen the road through this stretch west to the new intermodal facility entrance. These improvements accommodate the City/County master plan and improve flooding compared to existing conditions.

Other. To accommodate wildlife crossings from south of Main Street to the Mojave River without potential conflict with vehicular or train traffic, BIG proposes an underground wildlife crossing under Main Street west of the existing Hinkley Road.

Circulation/Roadway. Jiggs Road would be realigned generally from just east of Indian Trail to Hinkley Road to maintain emergency access from Indian Trails to Hinkley Road. In addition, a maintenance road would be constructed alongside the mainline to provide maintenance access to the tracks, generally from just east of Indian Trail to Hinkley Road. Various circulation and roadway improvements and modifications are proposed outside the BIG Specific Plan area. All circulation improvements would be permanent, except a temporary Main Street bypass. The temporary bypass would be constructed to maintain access along Main Street during Lenwood Channel Bridge reconstruction. To maintain access for adjacent residents, the temporary Main Street bypass would include private driveways for adjacent residential uses and would be open for the approximately 18-month bridge reconstruction period. Once the Lenwood Channel Bridge reconstruction is complete, the bypass would be removed and the site restored to its original condition. Additionally, construction of additional lead tracks over Pettit Road (approximately 1,100 feet west of SR-58) would require the road to be lowered by approximately 2.0 feet. BIG would also vacate various ROW within the City and County. Finally, Sweeten Lane would be vacated and realigned to eliminate the existing unimproved intersection with Main Street. A new paved access would extend from Country Club east approximately 1,000 feet and connect to the unimproved Sweeten Lane.

Maintenance Activities

While "light maintenance activities" [12] could occur at BIG, major maintenance activities[13] would still occur at the existing Barstow classification yard, thus, requiring short-distance trips via BNSF's existing mainline to and from the existing Barstow classification yard for heavy maintenance. Locomotive trips associated with maintenance activities would be based on the number of linehaul locomotives needed to move trains between the Ports and BIG intermodal facility, and the number of switcher locomotives needed to haul rail cars within BIG intermodal facility and block swap yard. All switcher locomotives at BIG would be Tier 4 locomotives, and BNSF would also retire all existing Tier 0/0+/1+ locomotives at the unrelated existing Barstow yard and, in their stead, add six Tier 4 switcher locomotives.

[12] "Light maintenance activities" means routine locomotive servicing (e.g., window washing, fueling, inspecting fluid levels and topping off fluids, stocking cabins with crew equipment such as water and trash bags, toilet servicing) and minor railcar servicing (e.g., wheel changes, brake and friction shoes, and loose or missing bolts).

[13] "Major maintenance activities" means repair of railing and platform, railcar suspension, hitches, engine, etc.

1.3 Project Construction Activities and Phasing

For analysis purposes, construction is assumed to occur over approximately 34 months beginning in the third quarter of 2025 and ending in the third quarter of 2028. The entirety of BIG's construction activities, including offsite improvements, are analyzed in this report and described below. The anticipated construction phase timing is shown in **Table 3: BIG Construction Schedule**. However, the current construction schedule anticipates that BIG construction would begin approximately August 2026, and end approximately July 2029, for an approximate 13-month shift from the schedule shown in **Table 3: BIG Construction Schedule** and analyzed in this technical report. However, construction duration (34 months) would remain unchanged. Further, given fleet turnover and compliance with increased regulatory requirements, construction and operational air quality emissions would improve over time as is reflected in CalEEMod, the California Air Resource Board's air quality emissions modeling platform.

During peak construction periods, work would be under way at several locations within BIG footprint simultaneously, with overlapping construction of various elements. Construction working hours and the number of workers present at any time would vary depending on the activities being performed. BIG construction would require approximately 8,177 construction workers per year.[14]

Table 3: BIG Construction Schedule

Phase	Start Date	End Date
South Mainlines	8/7/2025	10/2/2026
Intermodal Facility	8/7/2025	1/4/2027
Block Swap Yard	1/22/2026	6/8/2028
North Mainlines	5/27/2027	6/8/2028
Transload Warehouse	2/5/2026	12/6/2027
33 kV Distribution Undergrounding	9/13/2025	5/7/2027
Solar Site	3/20/2026	2/27/2027

Nighttime construction could occur throughout the BIG footprint except where within 300 feet of sensitive receptors (along the 33kv distribution line). To avoid potential noise and vibration impacts from pile driving, BIG proposes to establish a buffer of 1,800 feet for nighttime pile driving and 500 feet for daytime pile driving from sensitive receptors. Additionally, nighttime construction would be necessary for track work adjacent to the existing mainline where lead tracks would tie into the mainline. All construction activities would occur within BIG footprint.

BIG components would involve the following construction activities:

Demolition and Grading

The BIG footprint is primarily vacant, undeveloped land traversed by an existing BNSF railroad and containing scattered residential, commercial, and industrial land uses. Existing land uses within BIG's footprint are listed in **Table 1**: **Existing Land Uses**. All existing land uses not demolished during acquisition to avoid trespassing and safety concerns would be demolished prior to, or during, mass grading. In

[14] Based on 23,200 construction worker "job years"

addition, existing utilities (underground and aboveground) within BIG footprint would be removed or temporarily relocated as needed.

Six culverts/bridges would need to be demolished within the existing BIG footprint. Demolition would involve excavators to break apart bridge abutments and foundations.

Mass grading would occur in one phase across the BIG footprint and require approximately 26 million cubic yards of cut and fill. Mass grading would be typified by large construction equipment establishing the area's general grading contours. For locations supporting future buildings, roadways, or track, mass grading would include watering and compaction of soil to provide a stable subgrade. Earthwork onsite would be balanced, with excess cut from the rail yard being used as fill within the transload warehouse center.

Fine grading would include site-specific grading for the transload warehouse center, as well as finish grading around buildings, parking areas, curb and gutter, etc.

1.4 Construction of Rail Yard (Intermodal Facility and Block Swap Yard)

The likely sequence for BIG rail yard construction (intermodal facility and block swap yard) would include mass grading; compacting the rail bed and internal roadways/parking areas; installing underground improvements/utilities; fine grading; installing crushed rock subballast; laying track and ballast; and installing train signals and communications systems. To reduce construction trucking, BIG would bring rail ties, welded rail, and rail ballast in via train.

Rail yard construction elements would include surface and elevated track work where the track would cross a water feature, a grade-separated roadway crossing for electric hostlers to access (and return from) the transload warehouse center, and installation of an intermodal facility. Major construction activities would include grading and excavation support, underground utility installation, systems construction, bridge construction, and railway systems construction (including trackwork, signaling, and communications). High-mast lights (up to 120 feet in height) would be constructed throughout the rail yard, including foundation work, conduits, and security camera positions. Rail yard construction would also include foundations and tracks for gantry cranes.

Furthermore, the proposed rail yard area would be excavated to result in a nearly-level grade between the east and west ends. With the proposed grading, most of the rail yard would be approximately 30-45 feet below Main Street. Various key BIG elements are also shown below.

Rail materials such as rail ties, welded rails, and ballast would be delivered by train. As noted above, the two existing north mainlines would be protected in place except at the bridge crossings, and two new south mainlines constructed. The south mainlines would be constructed first, and, during the first year of construction, existing rail traffic would use the new south mainlines so that the existing mainlines can be rebuilt and their bridge crossings upgraded. Mainline, rail yard, and lead track construction would utilize a Track-Laying Machine for approximately 20 months to lay track.

Intermodal facility construction would include various administrative and support buildings and substantial paving for the container parking and storage.

1.5 Solar Farm Construction

Solar farm construction, which would occur in a single phase, would require minimal grading to level the site as existing topography is utilized wherever possible and excavation limited primarily to stormwater detention to capture runoff. Fencing would be installed around the solar farm's perimeter of the solar farm, internal drive-aisles would be graded and paved, and the proposed substation would be constructed per SCE standards.

1.6 Construction of Transload Warehouse Center

Construction elements for the transload warehouse center would include grading, over-excavation,[15] footing and foundation excavation and pouring, tilt-up panel concrete construction, parking lot grading and paving, utility installation and undergrounding, and hydrology/drainage improvements.

1.7 Construction of On-Site Bridges and Roadway Improvements

Railroad bridge and roadway construction may use various methods including segmented pre-cast, cast-in-place, box girder or pre-cast, and span-by-span techniques.

Pre-construction activities would occur during final design and would include geotechnical investigations, identification of staging areas, initiation of site preparation and demolition, relocation of utilities, and implementation of temporary, long-term, and permanent road closures. Two bridges would be constructed over Lenwood Channel (BR 6.5D, 6.5E, and BR 6.5F) to enable traffic to flow from either side of Lenwood Channel.

1.8 Construction of Off-Site Rail Improvements

Offsite rail improvements would include clearing and grubbing, bridge crossing construction, ballast placement, track laying, and connection to the mainline. Off-site rail improvements would parallel the existing mainline and primarily be within existing BNSF right-of-way. BIG's rail deliveries of rail ties and ballast would include materials for construction of off-site rail improvement.

1.9 Construction of Off-Site Non-Rail Improvements

Off-site non-rail improvements would include construction of drainage, utility, and roadway improvements.

Drainage. Lenwood Channel improvements would consist of scouring and widening the channel. Construction equipment would be within Lenwood Channel in order to accomplish the widening.

Utilities. Additionally, offsite construction would include utility improvements including the 33kv distribution/Tortilla Substation improvements. Construction processes are anticipated to include clearing and grubbing, saw cuts and demolition of existing pavement, excavation to approximately 10 feet below ground surface, installation of temporary shoring, placement of circuits and distribution lines, fill placement and removal of temporary shoring, and roadway repair.

[15] "Over-excavation" refers to removal and re-compaction of soil.

Roadways/Intersections. A bridge over Lenwood Channel for Main Street would be constructed to replace the existing low water crossing and accommodate widening of Main Street in that immediate area. Additionally, BIG proposes roadway/intersection improvements/modifications, including the installation of traffic signals at various intersections.

Typical construction processes for these offsite non-rail improvements would include clearing and grubbing, over-excavation, bridge construction, traffic signals with associated underground conduits and cabling, and restriping and asphalt or concrete pavement placement, where needed.

2.0 LAWS, REGULATIONS, ORDERS

2.1 Federal

United States Environmental Protection Agency

The United States Environmental Protection Agency (U.S. EPA) is responsible for establishing the National Ambient Air Quality Standards (NAAQS), enforcing the Federal Clean Air Act (FCAA, 42 United States Code [USC] § 7401), and regulating transportation-related emission sources under the exclusive authority of the federal government, such as aircraft, ships, and certain types of locomotives. The U.S. EPA also establishes vehicular emission standards, including those for vehicles sold in states other than California. Automobiles sold in California must meet stricter emission standards established by the California Air Resources Board (CARB).

Federal Clean Air Act

The FCAA, codified in Title 42, Chapter 85 of the USC, was initially established by the United States (U.S.) Congress in 1970 and substantially revised in 1977 and 1990 (U.S. EPA, 2025f). The FCAA requires the U.S. EPA to establish and periodically update the primary and secondary NAAQS for the following criteria air pollutants: ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter (PM) with diameters of 10 and 2.5 micrometers or less (PM_{10}, $PM_{2.5}$, respectively), and lead (Pb). Primary standards are designed to protect public health, including sensitive individuals, such as children and the elderly, whereas secondary standards are designed to protect public welfare, such as visibility and crop or material damage. Applicable NAAQS and California Ambient Air Quality Standards (CAAQS) (discussed further in **Section 2.2: State** below) are summarized in **Table 4: CAAQS and NAAQS .**

Table 4: CAAQS and NAAQS

Pollutant	Averaging Time	State Standards[1, 2]	National Standards[3, 4, 5]
Ozone (O_3) [6]	1 Hour	0.09 ppm (180 µg/m^3)	NA
	8 Hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)
Particulate Matter (PM_{10}) [7]	24-Hour	50 µg/m^3	150 µg/m^3
	Annual Arithmetic Mean	20 µg/m^3	NA
Fine Particulate Matter ($PM_{2.5}$) [7]	24-Hour	NA	35 µg/m^3
	Annual Arithmetic Mean	12 µg/m^3	9.0 µg/m^3
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)
Nitrogen Dioxide (NO_2) [8]	1 Hour	0.18 ppm (339 µg/m^3)	0.100 ppm[10]
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)
Sulfur Dioxide (SO_2) [9]	1 Hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)
	24 Hour	0.04 ppm (105 µg/m^3)	0.14 ppm (365 µg/m^3)
	Annual Arithmetic Mean	NA	0.03 ppm (80 µg/m^3)
Lead (Pb) [10, 11]	30-Day Average	1.5 µg/m^3	NA
	Calendar Quarter	NA	1.5 µg/m^3
	Rolling 3-Month Average	NA	0.15 µg/m^3
Sulfate (SO_4^{-2})	24 Hour	25 µg/m^3	NA
Hydrogen Sulfide (H_2S)	1 Hour	0.03 ppm (42 µg/m^3)	NA

Table 4: CAAQS and NAAQS			
Pollutant	**Averaging Time**	**State Standards[1, 2]**	**National Standards[3, 4, 5]**
Vinyl Chloride (C_2H_3Cl) [10]	24 Hour	0.01 ppm (26 µg/m^3)	NA

ppm = parts per million; µg/m^3 = micrograms per cubic meter; mg/m^3 = milligrams per cubic meter; NA = not applicable

Notes:

1 California standards for O_3, carbon monoxide (except Lake Tahoe), sulfur dioxide (1-hour and 24-hour), nitrogen dioxide, suspended particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2 Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25° C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25° C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

3 National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

4 Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5 National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6 On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

7 On February 7, 2024, the national annual $PM_{2.5}$ primary standard was lowered from 12.0 µg/m^3 to 9.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15.0 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

8 To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

9 On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. Note that the 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

10 The ARB has identified lead and vinyl chloride as "toxic air contaminants" with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

11 The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m^3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Sources: California Air Resources Board. 2024 (July). *Table of Ambient Air Quality Standards.*

Based on monitoring of ambient concentrations, areas where concentrations of regulated pollutants exceed the applicable NAAQS are designated as "nonattainment areas". The severity of nonattainment is classified as (ranging from least to worst air quality) "marginal", "moderate", "serious", "severe", or "extreme". Nonattainment areas that are classified as "serious" or worse are required to develop air quality management plans (AQMPs) which include specific emission reduction strategies to meet interim milestones in implementing emission controls and improving air quality. The U.S. EPA can withhold certain transportation funds from states that fail to comply with the planning requirements of the act.

Mobile Source Air Toxics

In addition to the criteria pollutants for which there are NAAQS, the U.S. EPA regulates mobile source air toxics. In February 2007, the U.S. EPA finalized a rule (Control of Hazardous Air Pollutants (HAPs) from Mobile Sources, February 9, 2007 [40 Code of Federal Regulations [CFR] Parts 59, 80, 85, and 86]) to

reduce HAPs from mobile sources (U.S. EPA, 2007, p. 4). The rule limits the benzene content of gasoline and reduces toxic emissions from passenger vehicles and gas cans. The U.S. EPA estimates that in 2030 this rule would reduce total emissions of mobile source air toxics by 330,000 tons and volatile organic compound (VOC) emissions (precursors to O_3 and $PM_{2.5}$) by more than 1 million tons. The latest revision to this rule occurred in October 2008. This revision added specific benzene control technologies that the previous rule did not include. There are no NAAQS or CAAQS for mobile source air toxics. Specifically, U.S. EPA has not established NAAQS for HAPs.

National Emission Standards for Hazardous Air Pollutants

Pursuant to the FCAA, the U.S. EPA established the National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61), technology-based source-specific regulations limiting allowable emissions of HAPs (U.S. EPA, 2025d). Among these sources include asbestos-containing building materials. National Emission Standards for HAPs include requirements pertaining to the inspection, notification, handling, and disposal of asbestos-containing building materials associated with demolition and renovation of structures.

Emission Standards for Off-Road Diesel Engines

To reduce emissions from off-road diesel equipment, the U.S. EPA established a series of cleaner emission standards for new off-road diesel engines (40 CFR Part 89). Tier 1 standards were phased in from 1996 to 2000 (year of manufacture), depending on the engine horsepower category. Tier 2 standards were phased in from 2001 to 2006. Tier 3 standards were phased in from 2006 to 2008. Tier 4 standards, which generally require add-on emission control equipment to attain them, were phased in from 2008 to 2015. These standards apply to construction and cargo-handling equipment, but not locomotives (U.S. EPA, 2008a).

Emission Standards for Locomotives

To reduce emissions from switcher and line-haul locomotives, the U.S. EPA established a series of increasingly stricter emission standards for new or remanufactured locomotive engines (40 CFR Parts 85, 89, and 92). The standards have been adopted by the U.S. EPA in two regulatory actions. On December 17, 1997, the U.S. EPA adopted the first emissions regulation for railroad locomotives, requiring locomotive engines manufactured or remanufactured from 1973 to 2001 to meet Tier 0 standards, 2002 to 2004 to meet Tier 1 standards, and 2005 and later to meet Tier 2 standards (U.S. EPA, 1998). Subsequently, on March 14, 2008, the U.S. EPA adopted more stringent emissions regulation for railroad locomotives (U.S. EPA, 2008b). The regulation sets new emissions standards for newly-built and remanufactured locomotive engines. The standards for newly-built locomotive engines are implemented in two tiers: Tier 3 standards took effect in 2011 and 2012, and Tier 4 standards took effect in 2015. The regulation also sets new emissions standards for remanufactured Tier 0, 1, and 2 locomotive engines, which was fully implemented by 2010.

Emission Standards for Heavy-Duty Trucks

To reduce emissions from heavy-duty diesel trucks, U.S. EPA established a series of increasingly stricter emission standards for new engines, starting in 1988 (40 CFR § 86.1811-04). The U.S. EPA promulgated

the final standards with the 2007 Heavy-Duty Highway Rule (U.S. EPA, 2001). Beginning with model year (MY) 2007, the PM emission standard of 0.01 gram per horsepower-hour is required for all new on-road, heavy-duty diesel engines. Since 2010, the nitrogen oxides (NO_X) and nonmethane hydrocarbon standards of 0.20 gram per horsepower-hour and 0.14 gram per horsepower-hour, respectively, have been fully applicable to new on-road, heavy-duty diesel engines. The U.S. EPA released the Greenhouse Gas (GHG) Emissions Standards for Heavy-Duty Vehicles – Phase 3 in March 2024. The final rule is effective as of June 21, 2024. The final rule promulgates new GHG emissions standards for MY 2032 and later heavy-duty highway vehicles, phasing in starting with MY 2027 for heavy-duty vehicles (40 CFR §§ 86, 1036, 1037, 1039, 1054, and 1065) (U.S. EPA, 2025c).

In response to President Trump's "Unleashing American Energy" Executive Order, published on January 20, 2025, the U.S. EPA announced its intention to reconsider regulations and actions that rely on the 2009 GHG Endangerment Finding (Endangerment Finding) on March 12, 2025, including the GHG Emissions Standards for Heavy-Duty Vehicles – Phase 3.

Non-road Diesel Fuel Rule

The U.S. EPA's Non-road Diesel Fuel Rule (40 CFR Title Part 89) sets sulfur limitations for non-road diesel fuel, including fuel used in locomotives and marine vessels (though not for the marine residual fuel used by very large engines on oceangoing vessels). This rule applies to line-haul locomotives; the California Diesel Fuel Regulations (described below) generally preempt this rule for other sources such as switcher locomotives, construction equipment, and cargo-handling equipment. Under this rule, the diesel fuel used by line-haul locomotives was limited to 500 ppm starting June 1, 2007; and was further limited to 15 ppm starting January 1, 2012 (U.S. EPA, 2004b).

Highway Diesel Fuel Rule

With this rule (40 CFR 80 Subpart 1), U.S. EPA set sulfur limitations for on-road diesel fuel to 15 ppm starting June 1, 2006 (U.S. EPA, 2001).

Corporate Average Fuel Economy Standards

The National Highway Traffic and Safety Administration (NHTSA) is responsible for establishing vehicle standards and for revising existing standards. Compliance with federal fuel economy standards is not determined by individual vehicle model. Rather, compliance is determined based on each manufacturer's average fuel economy for the portion of their vehicles produced for sale in the U.S. On June 7, 2024, the NHTSA finalized their Corporate Average Fuel Economy Standards (CAFE) standards for model years 2030 to 2035 (49 USC § 32902). The final rule requires an industry-wide fuel average of approximately 50.4 miles per gallon (mpg) for passenger cars and light-duty trucks and an industry fleet-wide average for heavy-duty pickup trucks and vans of roughly 2.851 gallons per 100 miles in model year 2035 (NHTSA, 2024).

In response to President Trump's "Unleashing American Energy" Executive Order, published on January 20, 2025, the U.S. EPA announced on March 12, 2025, of its intention to reconsider regulations and actions that rely on the 2009 Endangerment Finding. This includes the CAFE standards. On June 6, 2025, the

NHTSA published an interpretive rule that establishes the NHTSA's authority to revise the CAFE standards without consideration of EVs. Implementation of these standards remains uncertain.

2.2 State

CARB and California Clean Air Act

Approved in 1967, the Mulford-Carrell Air Resources Act[16] established CARB and the CAAQS; these standards are shown numerically in **Table 4** above. Like the U.S. EPA, CARB also designates areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the California Clean Air Act (CCAA), areas are designated as nonattainment for a pollutant if air quality data shows that a CAAQS for the pollutant was violated at least once during the previous three calendar years. Exceedances that are affected by highly irregular or infrequent events such as wildfires, volcanoes, etc. are not considered violations of a CAAQS, and are not used as a basis for designating areas as nonattainment. The CAAQS, included with the NAAQS in **Table 4**, are generally more stringent and apply to more pollutants than the NAAQS. In addition to the criteria pollutants, CAAQS have been established for visibility reducing particulates, hydrogen sulfide, and sulfates.

California is divided into 15 air basins. Responsibility for the management and control of air pollutant standards, emissions, and plans is delegated to thirty-five Air Pollution Control Districts (ZE) or Air Quality Management Districts (AQMD). The General Plan Area and BIG footprint are located in the Mojave Desert Air Basin (MDAB) under the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD).

The CCAA requires APCDs and AQMDs in the State to aim to achieve and maintain CAAQS by the earliest practical date and to develop AQMPs and regulations specifying how the districts will meet this goal. California law does not require that CAAQS be met by specified dates as is the case with NAAQS. Rather, according to CARB, it requires incremental progress toward attainment (CARB, NDb). California law continues to mandate CAAQS, although attainment of the NAAQS has precedence over attainment of the CAAQS due to federal penalties for failure to meet federal attainment deadlines (CARB, NDb). The AQMPs also serve as the basis for preparation of the State Implementation Plan (SIP) for meeting NAAQS.

The CAAQS are generally stricter than NAAQS for the same pollutants, refer to **Table 4** above. Similar to the federal process, the CAAQS are adopted after review by CARB staff of the scientific literature produced by agencies such as the Office of Environmental Health Hazard Assessment (OEHHA), the air monitoring methods, and atmospheric sciences appointed by the Office of the President of the University of California, and public review and comment. The CAAQS are set at levels determined to be protective of human health.

CARB is responsible for meeting requirements of the FCAA, administering the CCAA, and maintaining the CAAQS. CARB is also responsible for setting emission standards for vehicles sold in California and for other

[16] The Mulford-Carrell Air Resources Act was approved in 1967 and created the CARB, committing California to a unified, statewide approach to aggressively address the serious issue of air pollution in the State.

emission sources, such as consumer products and certain off-road equipment. CARB also establishes passenger vehicle fuel specifications.

State Implementation Plan

The FCAA requires all states to submit a SIP to the U.S. EPA. This Statewide SIP is often referred to as an "infrastructure" SIP. Infrastructure SIPs are administrative in nature and describe the authorities, resources, and programs a state has in place to implement, maintain, and enforce the federal standards. It does not contain any proposals for emission control measures.

In addition to infrastructure SIPs, the CCAA requires submissions of SIPs for areas that are out of compliance with the NAAQS. These area attainment SIPs are comprehensive plans that describe how an out-of-compliance area will attain and maintain the particular NAAQS standard(s) it does not conform to. Once an out-of-compliance area has attained the standard in question, a maintenance SIP is required for a period of time to ensure the area will continue to meet the standard.

SIPs are not single documents. They are a compilation of new and previously submitted plans, programs (such as monitoring, modeling, permitting, etc.), district rules, State regulations, and federal controls. Many of California's SIPs rely on the same core set of control strategies, including emission standards for cars and heavy trucks, fuel regulations, and limits on emissions from consumer products. State law makes CARB the lead agency for all purposes related to SIPs. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB forwards those revisions to the U.S. EPA for approval and publication in the Federal Register. The latest SIPs for the MDAB are described below.

Toxic Air Contaminants

The California Air Toxics Program, administered by CARB, is an established two-step process of risk identification and risk management to address potential health effects from exposure to toxic substances in the air. In the risk identification step, CARB and OEHHA determine if a substance should be formally identified, or "listed" as a toxic air contaminant (TAC) in California. In the risk management step, CARB reviews emission sources of an identified TAC to determine whether regulatory action is needed to reduce risk. Based on results of that review, CARB has promulgated a number of Airborne Toxic Control Measures, both for stationary and mobile sources, including On-Road and Off-Road Vehicle Rules. These Airborne Toxic Control Measures include measures such as limits on heavy-duty diesel motor vehicle idling and emission standards for off-road diesel construction equipment to reduce public exposure to diesel particulate matter (DPM) and other TACs. These actions are also supplemented by the Assembly Bill (AB) 2588 Air Toxics "Hot Spots" program and Senate Bill (SB) 1731, which require facilities to report their air toxics emissions, assess health risks, notify nearby residents and workers of significant risks if present, and reduce their risk through implementation of a risk management plan.

Tanner Air Toxics Act and Air Toxics Hot Spot Information and Assessment Act

Public exposure to TACs is a significant environmental health issue in California. In 1983, the California legislature enacted a program to identify the health effects of TACs and reduce exposure to them. The California Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an

increase in mortality or in serious illness, or which may pose a present or potential hazard to human health" (17 California Code of Regulations [CCR] § 93000). A substance that is listed as a HAP pursuant to section 112(b) of the FCAA (42 USC § 7412[b]) is a TAC. Under State law, the California Environmental Protection Agency, acting through CARB, is authorized to identify a substance as a TAC if it is an air pollutant that may cause or contribute to an increase in mortality or serious illness, or may pose a present or potential hazard to human health.

California regulates TACs primarily through Assembly Bill (AB) B 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics "Hot Spot" Information and Assessment Act of 1987). AB 1807 set up a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an "airborne toxics control measure" for sources that emit that TAC. If there is a safe threshold for a substance (i.e., a point below which there is no toxic effect), the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate "toxics best available control technology" to minimize emissions. To date, CARB has established formal control measures for 11 TACs that are identified as having no safe threshold.

Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the AQMD or APCD. High-priority facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, are required to communicate the results to the public through notices and public meetings.

CARB has promulgated the following specific rules to limit TAC emissions:

- **13 CCR Chapter 10 § 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling.** Regulation generally restricting on-road diesel-powered commercial motor vehicles with a gross vehicle weight rating of greater than 10,000 pounds from idling more than five minutes.
- **13 CCR Chapter 10 § 2480: Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools.** Generally, restricts a school bus or transit bus from idling for more than five minutes when within 100 feet of a school.
- **13 CCR § 2477 and Article 8: Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets and Facilities Where TRUs Operate.** Regulations established to control emissions associated with diesel-powered TRUs.

1998 Fleet Average Emissions Memorandum of Mutual Understanding

California adopted the 1994 California State Implementation Plan (1994 SIP) to attain the federal O_3 air quality standard in the South Coast Nonattainment Area and certain other areas of California. The 1994 SIP control measure M14 assumes that cleaner locomotives will operate in California and the Ports of Los Angeles and Long Beach. CARB, Class I freight railroads operating in the South Coast Air Basin (SCAB) (BNSF Railway [BNSF] and Union Pacific Railroad), and the U.S. EPA signed a Memorandum of Mutual Understanding (MOMU) in July 1998 (CARB, 1998). The goal of the MOMU was a fleet average in the SCAB equivalent to U.S. EPA's Tier 2 locomotive standard for NO_X by 2010. The railroads demonstrated that they have not exceeded Fleet Average Target for the preceding year by operating locomotive fleets that on average meet a Tier 2 NO_X emissions standard by 2010 and through 2030. Under the MOMU, early

reductions were bankable, and the two railroads made use of this feature by building up emissions credits toward the 2010 fleet-wide average. BNSF is meeting fleet average agreement as of 2021 (CARB, 2022).

2005 CARB/Railroad Statewide Agreement

On June 30, 2005, CARB entered into a pollution reduction agreement with Union Pacific Railroad and BNSF (CARB, 2005b). The Agreement's key elements include a Statewide idling-reduction program, health risk assessments (HRAs) for all major rail yards, and community and air district involvement in the preparation of risk assessments, enforcement of Agreement provisions, and evaluation and development of measures to further reduce impacts on local communities. The Agreement is also intended to maximize the use of low sulfur diesel in locomotives fueled in California, establish a Statewide visible emissions reduction and repair program, provide a detailed evaluation of advanced control measures, and include an assessment of remote sensing technology to identify high-emitting locomotives. Railroads committed to implementing numerous actions to reduce pollutant emissions from rail operations throughout the state. In addition, the railroads prepared designated rail yard emissions inventories that CARB used for CARB rail yard-specific HRAs of exposure to DPM. When fully implemented, the agreement is expected to achieve a 20 percent reduction in locomotive DPM emissions near rail yards. To do this, BNSF has:

- Phased-out non-essential idling and installed idling reduction devices on California-based locomotives, resulting in a reduction in idling earlier than what is required by regulation.
- Maximized the use of ultra-low sulfur (15 ppm) diesel fuel by January 1, 2007, for locomotives fueled in California, six years before such fuel was required by regulation.
- Implemented a system-wide Opacity Management Plan which identifies black smoke from locomotives and schedules these locomotives for repairs.
- Identified and expeditiously repaired locomotives with excessive smoke and ensured that at least 99 percent of the locomotives operating in California passed smoke inspections.

The Southern California Major Class I rail yards covered in the agreement include BNSF's Hobart, Watson, San Bernardino, Commerce Eastern, and Sheila Street yards. As required by the Railroad Statewide Agreement, BNSF has submitted an *Idling, Visible Emission Reduction Plan, Review of Impacts of Air Emissions,* and *Assessment of TACs*, among other elements, for the designated yards. CARB inspects the rail yards yearly for compliance.

California Diesel Fuel Regulations

CARB's California Diesel Fuel Regulations (13 CCR §§ 2281 – 2285, 2299-2299.5) set sulfur limitations for diesel fuel sold in California for use in on-road and off-road motor vehicles. Although originally excluded from the rule, harbor craft and intrastate locomotives were later included by a 2004 rule amendment. Under this rule, diesel fuel used in motor vehicles was originally limited to 500 ppm sulfur and ultimately to 15 ppm beginning September 1, 2006. A federal diesel rule similarly limited sulfur content nationwide for on-road vehicles to 15 ppm beginning October 15, 2006. Diesel fuel used in intrastate locomotives (switch locomotives) was limited to 15 ppm sulfur starting January 1, 2007 (CARB, 2014).

Heavy Duty Diesel Truck Idling Regulation

This CARB rule (13 CCR § 2485) requires that heavy-duty trucks idle for no longer than five minutes at a time. However, truck idling for longer than five minutes while queuing is allowed if the queue is beyond 100 feet from any homes or schools (CARB, NDh).

Measures to Reduce Emissions from Goods Movement Activities

In April 2006, the CARB approved the *Emissions Reduction Plan for Ports and Goods Movement in California* (CARB, 2006). The *Emissions Reduction Plan for Ports and Goods Movement in California* proposes measures that would reduce emissions from the main sources associated with port cargo handling activities, including ships, harbor craft, terminal equipment, trucks, and locomotives. The *Goods Movement Plan* includes discussion of Hobart and intermodal container transfer facilities. In December 2006, CARB approved the *Regulation for Mobile Cargo Handling Equipment at Ports and Intermodal Rail Yards* (Title 13, CCR § 2479) as amended in 2009, which is designed to use best available control technology to reduce diesel PM and NO_X emissions from mobile cargo-handling equipment at ports and intermodal rail yards. Since January 1, 2007, the regulation has imposed emission standards on new and in-use terminal equipment that vary by equipment type. The regulation also includes recordkeeping and reporting requirements.

CARB Portable Diesel-Fueled Engines Air Toxic Control Measure

Effective September 12, 2007, all portable engines having a maximum rated horsepower of 50 brake horsepower and greater and fueled with diesel shall comply with this regulation and meet weighted fleet average PM emission standards (17 CCR § 93116.1). The first fleet standard compliance date was in 2013 with incremental compliance dates set through 2020.

Requirements for Intrastate Locomotive Fuel Use

CARB approved new requirements for intrastate locomotive fuel use on November 18, 2004 (17 CCR § 2299). Effective January 1, 2007, diesel fuel sold for diesel-electric locomotives operating in California is subject to all of the requirements of Title 13 CCR §§ 2281 (sulfur content), 2282 (aromatic hydrocarbons content), and 2284 (lubricity) applicable to vehicular diesel fuel and is treated under those sections as if it were vehicular diesel fuel. Intrastate locomotives are defined as locomotives that spend at least 90 percent of their time on an annual basis operating and refueling within California boundaries (CARB, 2004).

In-Use Off-Road Diesel Vehicle Regulation

On July 26, 2007, CARB adopted a regulation to reduce diesel PM and NO_X emissions from in-use (existing) off-road heavy-duty diesel vehicles in California (13 CCR § 2449). The regulation applies to self-propelled diesel-fueled vehicles that cannot be registered and licensed to drive on-road, as well as two-engine vehicles that drive on the road, with the limited exception of two-engine sweepers. Examples include loaders, crawler tractors, skid steers, backhoes, forklifts, airport ground support equipment, water well drilling rigs, and two-engine cranes. Such vehicles are used in construction, mining, and industrial operations. The regulation does not apply to stationary equipment or portable equipment such as

generators. The off-road vehicle regulation establishes emissions performance requirements, establishes reporting, disclosure, and labeling requirements for off-road vehicles, and limits unnecessary idling.

In-Use Locomotive Regulation

CARB adopted the In-Use Locomotive Regulation on April 27, 2023 (13 CCR § 2478). Implementation of the regulation would reduce emissions from locomotives operating in California by requiring locomotive operators to fund a spending account based on the public health costs to Californians from locomotive emissions and activity levels. Locomotive operators may use funds held in the spending account to purchase cleaner locomotive technologies. The regulation prohibits locomotives with engine build dates 23 years and older from operating in California starting in 2030. The In-Use Locomotive Regulation, starting in 2030, also requires that switch, industrial and passenger locomotives with original engine build dates of 2030 or later operate in a zero-emission (ZE) configuration in California. Additionally, in 2035, line haul locomotives with original engine build dates of 2035 or later must operate in a ZE configuration in California. The regulation will achieve emission reductions that will minimize health risk associated with exposure to toxic and criteria pollutants, help meet federal air quality standards, and support California's GHG reduction goals. The regulation also increases the use of ZE technology in the off-road sector and support the goals of Executive Order N-79-20 (Executive Department State of California, 2020).

As the In-Use Locomotive Regulation would be more stringent than federal standards, CARB needed to obtain approval from the U.S. EPA. On January 13, 2025, CARB withdrew their requests for FCAA waivers from the U.S. EPA needed to support four recently adopted vehicle emissions regulations: (1) the Advanced Clean Fleets (ACF) Regulations; (2) the In-Use Locomotive Regulations; (3) part of the Commercial Harbor Craft and Ocean-Going Vessels At-Berth Regulations; and (4) part of the TRU Engine Standards Regulations. Therefore, these regulations will not be implemented.

CARB Statewide Truck and Bus Regulation

In December 2008, CARB adopted the Statewide Truck and Bus Regulation that requires installation of PM retrofits on all on-road heavy-duty trucks and buses beginning January 1, 2012, and replacement of older trucks starting January 1, 2015 (13 CCR § 2025). By January 1, 2023, all vehicles need to have model year 2010 engines or equivalent.

California Drayage Truck Regulation

CARB adopted a drayage truck regulation (13 CCR § 2027) effective December 2009 to reduce emissions of diesel PM, NO_X, and other air contaminants from all on-road class 7 and class 8 diesel-fueled trucks that transport cargo to and from California's ports and intermodal rail yards. The regulation requires owners to register their trucks in the Drayage Truck Registry and to comply with emissions standards by a phase-in schedule. As of January 1, 2023, this regulation ended and all affected vehicles need to comply with the CARB Statewide Truck and Bus Rule, which requires all drayage trucks and other regulated vehicles in this category to have model year 2010 engines or equivalent (CARB, 2011).

CARB Advanced Clean Truck Regulation

CARB adopted the Advanced Clean Trucks (ACT) Regulation (13 CCR § 1963) in June 2020 requiring manufacturers to transition from diesel trucks and vans to ZE trucks beginning in 2024. By 2045, every new truck sold in California is required to be ZE. The goal of the ACT regulation is to achieve NO_X and GHG emission reductions through advanced clean technology, and to increase the penetration of the first wave of ZE heavy-duty technology. The ACT Regulation accelerates the transition of ZE medium-and heavy-duty vehicles from Class 2b to Class 8. The regulation has two components including a manufacturer sales requirement, and a reporting requirement:

- ZE Truck Sales: Manufacturers who certify Class 2b through 8 chassis or complete vehicles with combustion engines are required to sell ZE trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, ZE truck/chassis sales need to be 55 percent of Class 2b – 3 truck sales, 75 percent of Class 4 – 8 straight truck sales, and 40 percent of truck tractor sales.
- Company and Fleet Reporting: Large employers including retailers, manufacturers, brokers, and others would be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, would be required to report about their existing fleet operations. This information would help identify future strategies to ensure that fleets purchase available ZE trucks and place them in service where suitable to meet their needs.

The ACT regulation was granted a separate waiver in 2023 by the Biden administration. On May 22, 2025, the U.S. Senate voted to revoke the waiver granted by the Biden administration for California's ACT rule (as well as the ACC II program and Heavy-Duty Omnibus regulation). On June 12, 2025, President Trump formally nullified California's ACT rule and ACC II program (Congressional Resolutions H.J. Res 87 and H.J. Res 88, respectively). California currently has no authority to implement ACT.

CARB Advanced Clean Fleets Regulation

CARB adopted the ACF Regulation (13 CCR § 2013, 2014, & 2015) in April 2023, requiring the use of ZEVs for targeted fleets and that manufacturers only produce ZEV trucks starting in 2036. The ACF regulation was adopted to complement the recently adopted ACT regulation to help advance the introduction of ZE technology into California's trucks and bus fleets. By 2050, the ACF regulation is expected to introduce 1,690,000 ZEVs into the California fleet and result in $26.5 billion in statewide health benefits from improved air quality. This regulation will help contribute to the goals set by Executive Order N-79-20 (described further below) and will help achieve emission reductions outlined in the State Implementation Plan, SB 350, AB 32, SB 32, and AB 32. The regulation has four components including a manufacturer sales mandate, drayage fleets requirements, high priority and federal fleets phase-in, and state and local agency procurement requirement.

On January 13, 2025, CARB withdrew their requests for FCAA waivers from the U.S. EPA needed to support four recently adopted vehicle emissions regulations: (1) the ACF Regulations; (2) the In-Use Locomotive Regulations; (3) part of the Commercial Harbor Craft and Ocean-Going Vessels At-Berth Regulations; and (4) part of the Transport Refrigeration Unit Engine Standards Regulations. In addition, on September 25, 2025, CARB repealed the ACF drayage truck requirements (13 CCR § 2014) and the high priority and

federal fleet requirements (13 CCR § 2015 through 2015.6). California currently has no authority to implement ACF.

California Surplus Off-Road Opt-In for NO_X

The Surplus Off-Road Opt-In for NO_X Program was originally adopted with the Statewide regulation for In-Use Off-Road Diesel Vehicles (Off-Road Rule) in 2008 and applies to any AQMD or APCD whose governing board elected to opt into the provision of the program. The Surplus Off-Road Opt-In for NO_X Program requires applicable fleets to meet a more stringent fleet average NO_X target than the statewide Off-Road Rule on a compliance schedule (CARB, NDf).

SB 535

SB 535 directs 25 percent of the proceeds from the GHG Reduction Fund (i.e., funds from the AB 32 cap-and-trade program) to go to projects that provide a benefit to disadvantaged communities (as identified by the OEHHA mapping). These funds must be used for programs that further reduce GHG emissions. Funding programs that reduce GHG emissions would also potentially reduce exposure to other emissions including criteria pollutants and TACs.

OEHHA has developed CalEnviroScreen 4.0, which is a mapping tool that helps identify California communities that are most affected by many sources of pollution, and where people are often especially vulnerable to pollution's effects. CalEnviroScreen uses environmental, health, and socioeconomic information to produce scores for every census tract in the state. The scores are mapped so that different communities can be compared. An area with a high score is one that experiences a much higher pollution burden than areas with low scores. It should be noted that the CalEnviroScreen scores are not an expression of health risk, and do not provide quantitative information on increases in cumulative impacts for specific sites or projects. Further, as a comparative screening tool, the results do not provide a basis for determining when differences between scores are significant in relation to public health or the environment.

California Asbestos Control Measures

CARB has adopted two Airborne Toxic Control Measures for controlling naturally occurring asbestos (NOA)—the Asbestos Airborne Toxic Control Measure for Surfacing Applications (CCR, Title 17, § 93106) and the Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations (CCR, Title 17, § 93105). U.S. EPA is also responsible for enforcing regulations relating to asbestos renovations and demolitions; however, U.S. EPA can delegate this authority to state and local agencies. CARB and local air districts have been delegated authority to enforce the Federal National Emission Standards for HAPs regulations for asbestos.

2.3 Regional

The State is divided into APCDs/AQMDs. These agencies are county or regional governing authorities that have primary responsibility for controlling air pollution from stationary sources. CARB and local air districts are also responsible for developing clean air plans to demonstrate how and when California will attain AAQS established under both the FCAA and CCAA. For the areas within California that have not attained

air quality standards, CARB works with air districts to develop and implement State and local attainment plans. In general, attainment plans contain a discussion of ambient air quality data and trends; a baseline emissions inventory; future year projections of emissions, which account for growth projections and already adopted control measures; a comprehensive control strategy of additional measures needed to reach attainment; an attainment demonstration, which generally involves complex modeling; and contingency measures. Plans may also include interim milestones for progress toward attainment. The MDAB is managed by the MDAQMD. The MDAQMD is geographically the second largest of the State's 35 air districts. MDAQMD operates and maintains six monitoring stations (Barstow, Hesperia, Phelan, Trona, Twentynine Palms, and Victorville) in the District's 20,000-square-mile jurisdiction. In general, MDAQMD is the agency responsible for ensuring that the NAAQS and CAAQS are attained and maintained in the MDAB and is responsible for:

- Adopting and enforcing rules and regulations concerning air pollutant sources.
- Issuing permits for stationary sources of air pollutants.
- Inspecting stationary sources of air pollutants.
- Responding to citizen complaints.
- Monitoring ambient air quality and meteorological conditions.
- Awarding grants to reduce motor vehicle emissions.
- Conducting public education campaigns.

Mojave Desert Air Quality Management District

The MDAQMD has jurisdiction over the air quality in the vicinity of the BIG footprint. MDAQMD is the air pollution control agency for San Bernardino County's (County) High Desert and Riverside County's Palo Verde Valley. MDAQMD implements air quality programs required by federal and state mandates, enforces rules and regulations based on air pollution laws and educates businesses and residents about their role in protecting air quality and the risks of air pollution.

Table 5: Federal and State Ambient Air Quality Attainment Status of the MDAB lists the attainment status for various criteria air pollutants in the MDAB. Areas that meet the AAQS are classified as attainment areas, while areas that do not meet these standards are classified as nonattainment areas. Areas for which there are insufficient data available are designated unclassified. As shown in **Table 5**, the BIG footprint is a federal nonattainment area for O_3 and PM_{10} and a state nonattainment area for O_3, PM_{10}, and $PM_{2.5}$. The BIG footprint is classified as attainment or unclassified for lead, visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride.

Table 5: Federal and State Ambient Air Quality Attainment Status of the MDAB		
Pollutant	**State**	**Federal**
Ozone (O_3) (1 Hour Standard)	Nonattainment	No Federal Standard
Ozone (O_3) (8 Hour Standard)	Nonattainment	Severe Nonattainment
Particulate Matter ($PM_{2.5}$) (24 Hour Standard)	–	Unclassified/Attainment
Particulate Matter ($PM_{2.5}$) (Annual Standard)	Nonattainment	Unclassified/Attainment
Particulate Matter (PM_{10}) (24 Hour Standard)	Nonattainment	Nonattainment
Particulate Matter (PM_{10}) (Annual Standard)	Nonattainment	Nonattainment
Carbon Monoxide (CO) (1 Hour Standard)	Attainment	Unclassified/Attainment
Carbon Monoxide (CO) (8 Hour Standard)	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO_2) (1 Hour Standard)	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO_2) (Annual Standard)	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO_2) (1 Hour Standard)	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO_2) (24 Hour Standard)	Attainment	Unclassified/Attainment
Lead (Pb) (30 Day Standard)	Attainment	Unclassified/Attainment
Lead (Pb) (3 Month Standard)	Attainment	Unclassified/Attainment
Sulfates (SO_{4-2}) (24 Hour Standard)	Attainment	No Federal Standards
Hydrogen Sulfide (H_2S) (1 Hour Standard)	Nonattainment	No Federal Standards
Sources: Mojave Desert Air Quality Management District. ND. *Mojave Desert AQMD Attainment Status*. https://www.mdaqmd.ca.gov/home/showpublisheddocument/1267/636337468837000000.		

MDAQMD Rules

The MDAQMD has adopted rules to limit air emissions. Many of these rules were put in place as required measures specified in the various SIPs and air quality plans. This evaluation considered seven MDAQMD rules for regulation of fugitive dust and emissions from fossil fuel combustion. Excerpts of these rules are presented below:

Rule 201: Permit to Construct, and Rule 203, Permit to Operate. This rule requires that new or replacement equipment (stationary sources) that generate air pollutant emissions obtain a permit from the MDAQMD prior to their installation (Rule 201) and operation (Rule 203).

Rule 401: Visible Emissions. A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

- As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the U.S. Bureau of Mines, or
- Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection (a) of this rule.

Rule 402: Nuisance. A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, which cause, or have a natural tendency to cause, injury or damage to business or property.

Rule 403: Fugitive Dust Control.

- Any person shall not cause or allow the emissions of fugitive dust from any transport, handling, construction, or storage activity so that the presence of such dust remains visible in the atmosphere beyond the property line of the emission source. (Does not apply to emissions emanating from unpaved roadways open to public travel or farm roads. This exclusion shall not apply to industrial or commercial facilities).
- A person shall take every reasonable precaution to minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.
- A person shall not cause or allow PM to exceed 100 micrograms per cubic meter when determined as the difference between upwind and downwind samples collected on high volume samplers at the property line for a minimum of five hours.
- A person shall take every reasonable precaution to prevent visible PM from being deposited upon public roadways as a direct result of their operations. Reasonable precautions shall include, but are not limited to, the removal of PM from equipment prior to movement on paved streets or the prompt removal of any material from paved streets onto which such material has been deposited.
- Subsections (a) and (c) shall not be applicable when the wind speed instantaneously exceeds 40 kilometers (25 miles) per hour, or when the average wind speed is greater than 24 kilometers (15 miles) per hour. The average wind speed determination shall be on a 15-minute average at the nearest official air-monitoring station or by wind instrument located at the site being checked.
- The provisions of this rule shall not apply to agricultural operations.

Rule 404: PM Concentration.

- A person shall not discharge into the atmosphere from any source, PM except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.
- The provisions of this rule shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.

- For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

Rule 405: Solid PM Weight.

- A person shall not discharge into the atmosphere from any source, solid PM including Pb and Pb compounds, in excess of the rate shown in Table 405(a). Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
- For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

Rule 409: Combustion Contaminants. A person shall not discharge into the atmosphere from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO_2) at standard conditions averaged over a minimum of 25 consecutive minutes.

Rule 431: Sulfur Content of Liquid Fuels. This rule limits the sulfur content in diesel and other liquid fuels for the purpose of reducing the formation of sulfur oxides and particulates during combustion and of enabling the use of add-on control devices for diesel-fueled internal combustion engines. The rule applies to all refiners, importers, and other fuel suppliers such as distributors, marketers, and retailers, as well as to users of diesel, low-sulfur diesel, and other liquid fuels for stationary-source applications in the MDAQMD. The rule also affects diesel fuel supplied for mobile sources.

Rule 1113: Architectural Coatings. Rule 1113 limits the quantity of VOCs in architectural coatings. This rule is applicable to any person who supplies, sells, offers for sale, manufactures, blends or repackages any Architectural Coating for use within the MDAQMD as well as any person who applies or solicits the application of any architectural coating within the MDAQMD. The rule designates a maximum of 50 grams of VOC per liter for flat coatings.

Mojave Desert Air Quality Attainment Plans

O_3 Attainment Plans

- 2023: Federal 70 Parts Per Billion O_3 Attainment Plan (Western Mojave Desert (MD) Nonattainment Area MDAQMD Federal 70 PPB O_3 Attainment Plan (Western Mojave Desert Nonattainment Area). The MDAQMD Federal 70 PPB O_3 Attainment Plan for the 2008 8-hour O_3 NAAQS was adopted on January 23, 2023, and covers the BIG footprint, parts of the County and Antelope Valley within the Western Mojave Desert. The MDAQMD Federal 70 PPB O_3 Attainment Plan includes enforceable emission limits, a monitoring program, a permitting program, and contingency measures to attain the federal 2008 8-hour O_3 standard. The MDAQMD Federal 70 PPB O_3 Attainment Plan addresses several state and federal planning requirements and incorporates new scientific information, primarily in the form of updated emissions inventories, ambient measurements, and meteorological air quality models. The document also demonstrated conformity with the Southern California Association of Governments' (SCAG) 2024 - 2050 Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) activity data, discussed further below. The document demonstrates that the MDAQMD will meet the 70 ppb 8-hour O_3 NAAQS by August 2033 (MDAQMD, 2023).

- 2018: Federal Negative Declaration (8-Hour O_3 Standard) for One Control Techniques Guideline Categories
- 2018: Federal Negative Declaration (8-Hour O_3 Standard) for Two Control Techniques Guidelines Categories
- 2015: 8-Hour O_3 Reasonably Available Control Technology SIP Analysis: MDAQMD
- 2015: Federal Negative Declaration (8-Hour O_3 Standard) for Nineteen Control Techniques Guidelines Categories
- 2008: Federal 8-Hour O_3 Attainment Plan (Western MD Nonattainment Area)
- 2006: MDAQMD 2006 8-hr O_3 Reasonably Available Control Technology SIP Analysis
- 2004: 2004 O_3 Attainment Plan (State and Federal)
- 1996: Triennial Revision to the 1991 Air Quality Attainment Plan
- 1994: Reasonable Further Progress Rate-of-Progress Plan
- 1994: Post 1996 Attainment Demonstration and Reasonable Further Progress Plan
- 1991: 1991 Air Quality Attainment Plan

PM Attainment Plans

- 2023: MDAQMD Federal 70 PPB O_3 Attainment Plan (Western Mojave Desert Nonattainment Area). The MDAQMD Federal 70 PPB O_3 Attainment Plan for the 2008 8-hour O_3 NAAQS was adopted on January 23, 2023, and covers the BIG footprint, parts of the County and Antelope Valley within the Western Mojave Desert. The MDAQMD Federal 70 PPB O_3 Attainment Plan includes enforceable emission limits, a monitoring program, a permitting program, and contingency measures to attain the federal 2008 8-hour O_3 standard. The MDAQMD Federal 70 PPB O_3 Attainment Plan addresses several state and federal planning requirements and incorporates new scientific information, primarily in the form of updated emissions inventories, ambient measurements, and meteorological air quality models. The document also demonstrated conformity with the Southern California Association of Governments' (SCAG) 2024 - 2050 Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) activity data, discussed further below. The document demonstrates that the MDAQMD will meet the 70 ppb 8-hour O_3 NAAQS by August 2033 (MDAQMD, 2023).
- 2005: MDAQMD Schedule for District Measures to Reduce PM Pursuant to H&S Code 39614(d)1995: MD Planning Area Federal PM Attainment Plan.
- 1994: Final Mojave Desert Planning Area Federal Particulate Matter 10 (PM_{10}) Attainment Plan. On January 20, 1994, the U.S. EPA re-designated a portion of the Mojave Desert[17] as a nonattainment area with respect to the NAAQS for PM_{10} (MDAQMD, 1995, p. 6). This nonattainment area covers a vast geographical region, including the urban areas of Victor Valley and Barstow, the Morongo Basin, along with the rural desert environs reaching to the Nevada and Arizona state lines. The PM_{10} Attainment Plan was prepared in July 1995 to provide a complete description and submittal to U.S. EPA of the PM_{10} attainment planning elements which the MDAQMD will implement to bring the nonattainment area into compliance with federal law. Most

[17] The nonattainment area covers a vast geographical region, including areas of Victor Valley and Barstow, the Morongo Basin, along with the rural desert environs reaching to the Nevada and Arizona state lines.

importantly, the PM_{10} Attainment Plan serves as a planning tool for reducing PM_{10} pollution. The PM_{10} Attainment Plan sets forth an air quality improvement program for the region which will be implemented by both the public and private sector of the community (MDAQMD, 1995, p. 3).

Southern California Association of Governments

On April 4, 2024, SCAG's Regional Council adopted Connect SoCal 2024 (2024 – 2050 RTP/SCS). Connect SoCal 2024 charts a course for closely integrating land use and transportation so that the region can grow smartly and sustainably. The strategy was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. The overarching accessibility vision of the SCAG RTP, Connect SoCal, includes innovative technologies and Intelligent Transportation Systems aimed at expanding accessibility, relieving congestion, and reducing emissions (SCAG, 2024b, p.8). Connect SoCal 2024 is a long-range vision plan that balances future mobility and housing needs with economic, environmental, and public health goals. Connect SoCal 2024 subgoals relevant to BIG include supporting investments that result in improved safety and air quality and minimized GHG emissions (Mobility); integrating the region's development pattern and transportation network to improve air quality, reduce GHG emissions, and enable more sustainable use of energy and water (Environment); conserving the region's resources (Environment); improve access to jobs (Economy); and advancing a resilient and efficient goods movement system that supports the economic vitality of the region, attainment of clean air, and quality of life for our communities (Economy) (SCAG, 2024b, p. 85). The SCAG region strives to implement sustainable planning through integrated land use and transportation planning.

South Coast Air Quality Management District

Although BIG is within the MDAQMD's jurisdiction, it would affect truck and train movements that also occur within the South Coast Air Quality Management District's (South Coast AQMD) jurisdiction. The South Coast AQMD is the air pollution control agency for Orange County and the non-desert/urban portions of Los Angeles, Riverside, and San Bernardino Counties. The agency's primary responsibility is ensuring that state and federal AAQS are attained and maintained in the SCAB. The South Coast AQMD developed the 2022 AQMP for the SCAB, with input from SCAG and CARB. The AQMP is a comprehensive plan that includes control strategies for stationary and area sources, as well as for on-road and off-road mobile sources. SCAG has the primary responsibility for providing future growth projections and the development and implementation of Transportation Control Measures[18].

CARB, in coordination with federal agencies, provides the control element for mobile sources. The 2022 AQMP, adopted by the South Coast AQMD Governing Board on December 2, 2022, was developed to address the requirements for meeting the 2015 8-hour O_3 standard. The 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., ZEs technologies, when cost-effective and feasible, and low NO_X technologies in other applications), best management practices, co-

[18] A TCM is any measure that is specifically identified and committed to in the applicable implementation plan for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use, changing traffic flow, or congestion conditions.

benefits from existing programs (e.g., climate and energy efficiency), incentives, and other FCAA measures to achieve the 2015 8-hour O_3 standard. The 2022 AQMP incorporates the latest scientific and technological information and planning assumptions, including Connect SoCal 2024 and updated emission inventory methodologies for various source categories.

The South Coast AQMD 2022 AQMP includes the following Transportation Control Measures and Reasonably Available Control Measures[19] that are relevant to BIG:

Measure 7.19, Programs to Encourage Goods Movement by Rail. This measure involves programs to encourage goods movement by rail and indicates that this is being implemented by CARB.

Measure 7.20, Divert Trucks from Nonattainment Areas. This measure aims to divert trucks from nonattainment areas by requiring pass-through trucks to choose routes away from the SCAG region.

2.4 Local

County of San Bernardino Countywide Plan

The County adopted the Countywide Plan (CWP) in October 2020. The CWP Policy Plan addresses the physical, social and economic issues facing the County's unincorporated portions. The CWP includes the following goals and policies relevant to air quality as shown in **Table 6: CWP Policy Plan Relevant Goals and Policies.**

Table 6: CWP Policy Plan Relevant Goals and Policies

Number	Goal or Policy
LAND USE ELEMENT	
Goal LU-2	**Land Use Mix and Compatibility**. An arrangement of land uses that balances the lifestyle of existing residents, the needs of future generations, opportunities for commercial and industrial development, and the value of the natural environment.
Policy LU-2.7	**Countywide jobs-housing balance**. We prioritize growth that furthers a countywide balance of jobs and housing to reduce vehicle miles traveled, increase job opportunities and household income, and improve quality of life. We also strive for growth that furthers a balance of jobs and housing in the North Desert region and the Valley region.
Policy LU-2.10	**Unincorporated commercial development**. We intend that new commercial development in the unincorporated areas serve unincorporated residential areas, tourists, and/or freeway travelers. We encourage new commercial development to be concentrated to enhance pedestrian circulation and reduce vehicular congestion and vehicle miles traveled, with new development directed into existing centralized areas when possible.
Policy LU-2.12	**Office and industrial development in the region**. We encourage office and industrial uses in the unincorporated Valley region in order to promote a countywide jobs-housing balance.
NATURAL RESOURCES ELEMENT	
Goal NR-1	**Air quality that promotes health and wellness of residents in San Bernardino County through improvements in locally-generated emissions.**
Policy NR-1.1	**Land use.** We promote compact and transit-oriented development countywide and regulate the types and locations of development in unincorporated areas to minimize vehicle miles traveled and greenhouse gas emissions.

[19] Reasonably Available Control Measures (RACMs) are measures which may be applicable to a wide range of sources including stationary sources and mobile sources.

Table 6: CWP Policy Plan Relevant Goals and Policies	
Number	**Goal or Policy**
Policy NR-1.2	**Indoor air quality.** We promote the improvement of indoor air quality through the California Building and Energy Codes and through the provision of public health programs and services.
Policy NR-1.3	**Coordination on air pollution.** We collaborate with air quality management districts and other local agencies to monitor and reduce major pollutants affecting the county at the emission source.
Policy NR-1.4	**Military coordination on air quality.** We collaborate with the military to avoid or minimize impacts on military training and operations from air pollution and haze.
Policy NR-1.5	**Sensitive land uses.** We consider recommendations from the California Air Resources Board on the siting of new sensitive land uses and exposure to specific source categories.
Policy NR-1.6	**Fugitive dust emissions.** We coordinate with air quality management districts on requirements for dust control plans, revegetation, and soil compaction to prevent fugitive dust emissions.
Policy NR-1.7	**Greenhouse gas reduction targets.** We strive to meet the 2040 and 2050 greenhouse gas emission reduction targets in accordance with state law.
Policy NR-1.8	**Construction and operations.** We invest in County facilities and fleet vehicles to improve energy efficiency and reduce emissions. We encourage County contractors and other builders and developers to use low-emission construction vehicles and equipment to improve air quality and reduce emissions.
Policy NR-1.9	**Building design and upgrades.** We use the CALGreen Code to meet energy efficiency standards for new buildings and encourage the upgrading of existing buildings to incorporate design elements, building materials, and fixtures that improve environmental sustainability and reduce emissions.
RENEWABLE ENERGY & CONSERVATION ELEMENT	
Goal RE-1	**Energy Conservation and Efficiency.** The County will pursue energy efficiency tools and conservation practices that optimize the benefits of renewable energy.
Policy RE-1.1	Continue implementing the energy conservation and efficiency measures identified in the County of San Bernardino Greenhouse Gas Emissions Reduction Plan.
Policy RE-1.2	Optimize energy efficiency in the built environment. RE 1.2.1: Support low- to no-cost retrofits to improve energy efficiency of existing homes through grant and loan programs. RE 1.1.2: Encourage property owners to participate in a PACE program for access to energy efficiency retrofit financing. RE 1.2.3: Encourage utilities to expand free to low-cost audit and retrofit programs in the built environments. RE 1.2.4: Work with utilities (Southern California Edison (SCE), Southern California Gas Company (SCG), etc.) to identify retrofit opportunities with short payback periods, such as variable-speed pool pumps, building air sealing, and attic insulation, for County use in conducting focused energy efficiency outreach. RE 1.2.5: Collaborate with community partners to promote the benefits of energy efficiency to County residents, businesses, and industries. RE 1.2.6: Encourage new development to comply with the optional energy efficiency measures of the CALGreen Code. RE 1.2.6: Encourage new development to comply with the optional energy efficiency measures of the CALGreen Code.
Policy RE-1.3	Promote the local economic benefits of energy efficiency retrofits. RE 1.3.1: Support workforce development and certification for green trades.

Table 6: CWP Policy Plan Relevant Goals and Policies	
Number	**Goal or Policy**
	RE 1.3.2: Provide networking opportunities to connect local contractors with energy efficiency retrofit programs such as the PACE program and Energy Upgrade California. RE 1.3.3: Encourage energy efficiency retrofit projects as components of adaptive re-use of historic structures.
Policy RE-1.4	Encourage residents and businesses to conserve energy. RE 1.4.1: Collaborate with utilities to support and learn from annual energy benchmarking reports that large energy users are conducting pursuant to AB 1103. RE 1.4.2: Collaborate with the CEC, utilities, and local partners to launch online energy tracking competitions.
Goal RE-2	**Renewable Energy Systems.** The County will be home to diverse and innovative renewable energy systems that provide reliable and affordable energy to our unique Valley, Mountain, and Desert regions.
Policy RE-2.1	Support solar energy generation, solar water heating, wind energy and bioenergy systems that are consistent with the orientation, siting and environmental compatibility policies of the General Plan. RE 2.1.1: Utilize renewable energy development standards in the Development Code to minimize impacts on surrounding properties.
Policy RE-2.2	Promote use of energy storage technologies that are appropriate for the character of the proposed location. RE 2.2.1: Encourage onsite energy storage with RE generation facilities, consistent with County Development Code requirements. RE 2.2.2: Encourage and allow energy storage facilities as an accessory component of RE generation facilities. RE 2.2.3: Establish thresholds for conditions under which energy storage facilities are a primary use and subject to separate permit processes. RE 2.2.4: Periodically review and encourage appropriate technology types for energy storage facilities. RE 2.2.5: Support state policies and efforts by utility companies to plan for and develop energy storage technologies through legislative advocacy and coordination with utility companies.
Policy RE-2.3	Encourage the use of feasible emerging and experimental renewable energy technologies that are compatible with County regulatory standards. RE 2.3.1: Monitor emerging renewable energy technologies and amend County development standards as needed to accommodate suitable new technology types. RE 2.3.2: Monitor improvements in existing renewable energy technologies, and consider allowing additional types of renewable energy facilities as they become compatible with County regulatory standards.
Policy RE-2.4	Identify and prioritize programs that support cost-effective and universal access to renewable energy. RE 2.4.1: Expand outreach and education efforts through the County's online Community Development Toolkit on programs such as the availability of federal and state tax credits, participation in the PACE program, and other mechanisms to reduce the cost of renewable energy facilities for onsite use on new and existing buildings. RE 2.4.2: Educate developers about the County's RE goals and policies, and encourage the inclusion of renewable energy facilities for onsite use in new developments. RE 2.4.3: Engage with residential developers to discuss and identify opportunities and incentives to expand onsite renewable energy facilities consistent with the goals and policies of this Element. RE 2.4.4: Encourage installation of renewable energy systems on rental properties, multi-family

Table 6: CWP Policy Plan Relevant Goals and Policies	
Number	**Goal or Policy**
	buildings, and buildings with multiple commercial tenants by working with property developers and owners, using tools such as green leases, split incentive programs, and the California Solar Initiative's MASH program. RE 2.4.5: Encourage the pursuit of community choice aggregation programs in collaboration with other interested jurisdictions in the region. RE 2.4.6: Proactively coordinate RE programs with other jurisdictions in the County to promote countywide collaboration and consistency.
Policy RE-2.5	Support renewable energy systems that accelerate zero net energy (ZNE) through innovative design, construction, and operations of residences, businesses, and institutions that are grid-neutral and independent of centralized energy infrastructure. RE 2.5.1: Allow and encourage construction of new buildings designed to ZNE standards consistent with state programs. RE 2.5.2: Incorporate ZNE into outreach and educational strategies about renewable energy and energy efficiency. RE 2.5.3: Allow and encourage construction of new buildings or developments in remote locations with stand-alone energy systems not connected to the grid. RE 2.5.4: Encourage energy independence and resiliency, including zero net energy and stand-alone systems not connected to the grid, in County economic development presentations and outreach efforts. RE 2.5.5: Collaborate with incorporated cities and other jurisdictions to create region-specific ZNE programs and Community Development toolkit tools tailored to the climates and characteristics of each region to provide consistency and leverage resources.
Policy RE-2.6	Encourage energy efficiency through appropriate renewable energy systems. RE 2.6.1: Pursue and consider development incentives such as density bonuses and streamlined permitting for projects that install accessory renewable energy facilities. RE 2.6.2: Allow developers of nonresidential properties to reduce required on-site parking spaces below minimum standards when space equivalent to the parking space reduction is devoted to renewable energy generation and storage facilities designed to serve onsite energy needs. RE 2.6.3: Encourage solar energy generation on rooftops and on covered parking as the first priority for on-site energy generation.
Goal RE-3.1	Community-Oriented Renewable Energy. Community-oriented renewable energy facilities will be prioritized to complement local values and support a high quality of life in unincorporated communities.
Policy RE-3.1	Prioritize, facilitate, and encourage onsite accessory RE generation to serve the unincorporated county, with a primary focus on rooftop and parking lot solar energy generation. RE 3.1.1: Permit rooftop, parking lot, and similar accessory RE generation facilities that primarily serve on-site energy needs in all zoning districts, including micro-grid systems, with minimal regulation and permitting requirements.
Policy RE-3.2	Encourage community-oriented renewable energy (CORE) generation that primarily serves local uses in the county. RE 3.2.1: Specific standards shall be established and maintained for community-oriented RE generation facilities appropriate to the Valley, Desert, and Mountain regions. RE 3.2.2: Encourage through the regulatory system the establishment of local and regional organizations to pursue community-oriented RE production and storage. RE 3.2.3: CORE facilities shall be designed primarily to meet the needs of the local users, with an adequate overage margin to meet peak demands and defray the cost of the systems.

Table 6: CWP Policy Plan Relevant Goals and Policies	
Number	**Goal or Policy**
	RE 3.2.3: Encourage utilities and developers to establish community-shared solar programs that allow residents and businesses to purchase shares of the output of RE generation facilities to offset their electricity bills. RE 3.2.4: Provide information and educational opportunities in the Countywide Plan Community Development Tool Kit for local organizations pursuing the acquisition of Community-Oriented Renewable Energy (CORE). RE 3.2.5: Encourage utilization of micro-grid technologies to support the principle of "local production primarily for local consumption," to enhance local energy security and to improve local costs of living and commerce. RE 3.2.6: Apply minimal discretion in the permit approval process for CORE facilities. RE 3.2.7: Encourage infrastructure, net metering and regulatory systems that support CORE facilities.
Policy RE-3.3	Promote an adaptive distributed energy infrastructure that sustains local communities and improves resiliency to grid failures and increasing energy prices. RE 3.3.1: Support research, planning and investment in accessory and community-oriented energy generation, distribution, and storage infrastructure by adapting regulatory tools to respond to rapidly evolving RE technologies. RE 3.3.2: Encourage new institutional campuses and large residential/commercial developments to include micro-grids with onsite renewable energy generation and energy storage systems.
Policy RE-3.4	Require renewable energy facilities developed in spheres of influence of incorporated cities to be compatible and consistent with standards of the sphere cities.
Policy RE-3.5	Incorporate resident, business owner, and stakeholder input into the development and implementation of County policies for renewable energy.
Policy RE-3.6	Encourage renewable energy facilities to meet community goals, including supporting community health, wellness, and recreational needs. RE 3.6.1: Include opportunities to incorporate public art and encourage design features that provide screening in renewable energy facilities on public spaces, nonresidential facilities, and multi-family buildings. RE 3.6.2: Encourage the use of renewable energy facilities as shade structures in parks and community centers, and over parking lots and parking structures.
Policy RE-3.7	Continue to foster local economic benefits of renewable energy facilities through community involvement. RE 3.7.1: Require CORE project development applications to be sponsored or co-sponsored by local users who will be the primary consumers of the energy generated by the projects. RE 3.7.2: Encourage RE generation facility developers to give preference to San Bernardino County residents in hiring for construction, operation, and decommissioning of the facility. RE 3.7.3: Encourage local community colleges, vocational schools, and workforce training centers to offer programs on renewable energy installation and maintenance. RE 3.7.4: Encourage innovation zones for manufacturers to locate and operate in the unincorporated county to research, construct, test, and distribute renewable energy technologies
TRANSPORTATION & MOBILITY ELEMENT	
Goal TM-3	**Vehicle Miles Traveled.** A pattern of development and transportation system that minimizes vehicle miles traveled.
Policy TM-3.1	**VMT reduction.** We promote new development that will reduce household and employment VMT relative to existing conditions.
Policy TM-3.2	**Trip reduction strategies.** We support the implementation of transportation demand

Table 6: CWP Policy Plan Relevant Goals and Policies	
Number	**Goal or Policy**
	management techniques, mixed use strategies, and the placement of development in proximity to job and activity centers to reduce the number and length of vehicular trips.
Goal TM-4	**Complete Streets, Transit, and Active Transportation.** On- and off-street improvements that provide functional alternatives to private car usage and promote active transportation in mobility focus areas
Policy TM-4.8	**Local bicycle and pedestrian networks**. We support local bike and pedestrian facilities that serve unincorporated areas, connect to facilities in adjacent incorporated areas, and connect to regional trails. We prioritize bicycle and pedestrian network improvements that provide safe and continuous pedestrian and bicycle access to mobility focus areas, schools, parks, and major transit stops.
Policy TM-4.9	**Bike and pedestrian safety.** We promote pedestrian and bicyclist safety by providing separated pedestrian and bike crossings when we construct or improve bridges over highways, freeways, rail facilities, and flood control areas. We monitor pedestrian and bicycle traffic accidents and promote safety improvements in unincorporated high-accident areas.
Sources: San Bernardino, County of. 2020 (October). *Countywide Plan, Natural Resources Element*. https://countywideplan.com/policy-plan/natural-resources/.	

Codified Ordinances of the County of San Bernardino Municipal Code

The Codified Ordinances of the County of San Bernardino (County Code) regulations addressing air quality are provided below.

- **County Code § 63.0501: Adoption of California Energy Code.** Under this section, the 2022 California Energy Code contained in Part 6 of Title 24 of the CCR, is designated and adopted by reference as the Energy Code for the design and installation of energy systems for the unincorporated area of the County.
- **County Code § 63.1501: Adoption of California Green Building Standards (CALGreen) Code.** Under this section, the 2022 CALGreen Code, contained in Chapters 1-8 of Part 11 of Title 24 of the CCR, is designated and adopted by reference as the CALGreen Code for the unincorporated area of the County.
- **County Code § 83.01.040: Air Quality.** The purpose of the General Performance Standards chapter is to establish uniform performance standards for development within the County that promotes compatibility with surrounding areas and land uses. Performance standards are designed to mitigate the environmental impacts of existing and proposed land uses within a community. For air quality, these standards include those for equipment permit and inspection requirements, permits from AQMDs, and diesel exhaust emissions control measures.
- **County Code Chapter 83.14: Transportation Control Measures.** The purpose of this Chapter is to reduce vehicle trips thereby reducing air congestion and pollutants and improving air quality, to comply with State law, and to promote an improved quality of life. This Chapter is intended to satisfy the legal requirements of Chapter 6 of the San Bernardino County Congestion Management Program.

City of Barstow 2020 General Plan

The City adopted the City of Barstow 2015-2020 General Plan (2015 General Plan) in February 2015. The 2015 General Plan is the overarching guide for implementation of the Development Code, which defines development regulations and establishes zoning districts throughout the City. **Table 7: 2015 General Plan Relevant Goals and Policies** includes the air-quality related goals and policies relevant to BIG.

Table 7: 2015 General Plan Relevant Goals and Policies

Number	Goal or Policy
CIRCULATION ELEMENT	
Goal 3	Foster improved traffic flow and air quality by encouraging the use of non-motorized transportation, alternative fuel vehicles and multi-occupant vehicles.
Policy 3A	Encourage pedestrian travel by improving the means by which residents and visitors may walk throughout the community.
Policy 3B	Establish a network of bicycle routes as illustrated on Exhibit C-2.
Policy 3C	Encourage carpooling and the use of alternative fuel vehicles by city residents and employees.
Policy 3D	Implement incentives outlined in Municipal Code Chapter 19.49 – Design Guidelines such as relaxation of parking requirements, density bonuses and exceptions to building height and lot coverage requirements in exchange for on- or off-site provision of bicycle racks and/or storage facilities, bikeways, electric vehicle charging facilities, designated pedestrian pathways or other design features designed to foster alternatives to single-occupancy, internal combustion engine driven vehicle use.
RESOURCE CONSERVATION AND OPEN SPACE ELEMENT	
Goal 2	Ensure protection of air quality by reducing air pollution and emissions of pollutants.
Policy 2A	Work with the Mojave Desert Air Quality Management District, San Bernardino Association of Governments, San Bernardino County and neighboring jurisdictions to implement the federal ozone and PM_{10} & $PM_{2.5}$ nonattainment plans and meet federal state air quality standards and reduce overall emissions from mobile and stationary sources.
Goal 5	Adhere to the environmental assessment process required under CEQA to communicate with other agencies and the public on the air quality impacts of development within the community.
Policy 5A	Communication of the impact of development on environmental quality with the impacted state and federal agencies as well as the general public in a clear and concise manner.
Goal 6	Provide programs and incentives to encourage residents, businesses and developers to reduce consumption and efficiently use energy resources.
Policy 6A	Educate the development community with regard to green building principles and other strategies for conserving natural resources.

Sources: Barstow, City of. 2015. *2020 General Plan 2015-2020.* https://www.barstowca.org/home/showpublisheddocument/5367/636607004826270000.

The Code of the City of Barstow

The Code of the City of Barstow (Barstow Code) regulations addressing air quality are provided below (Barstow, City of, 2015).

- Barstow Code § 10.09.030: Trip reduction. This section establishes objectives for trip reductions in the City of Barstow by identifying large employers to evaluate trip reduction strategies and supporting various transportation initiatives and land use regulations aimed at reducing vehicle emissions and promoting alternative modes of transportation.

- Barstow Code § 10.09.040: Travel demand management. This section identifies measures to implement strategies and programs which reduce traffic congestion, vehicle miles travelled (VMT), and/or vehicle trips, which result in reduction of mobile source emissions.
- Barstow Code Title 15: Buildings and Construction. This title includes various regulations concerning erection, construction, maintenance, etc. of all buildings and/or structures in the City.
- Barstow Code § 15.08.010: Building Codes. Codes adopted specify the various State Codes the City has adopted, including among others the 2019 California Energy Code (CCR, Title 24, Part 6) and the 2019 CALGreen Code (CCR, Title 24, Part 11).

3.0 AIR QUALITY THRESHOLDS

Based upon the criteria derived from State California Environmental Quality Act (CEQA) Guidelines Appendix G, a project would have a significant effect on the environment if it would:

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable state or federal AAQS.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The U.S. EPA and CARB have designated portions of the MDAQMD nonattainment for a variety of pollutants. Please refer to **Table 5** for these classifications. Under the FCAA, the MDAQMD has adopted federal attainment plans for O_3 and PM_{10}, as described above.

Under CEQA, the MDAQMD is an expert comment agency on air quality and related matters within its jurisdiction or impacting on its jurisdiction. MDAQMD serves as a responsible agency for projects that require air permits. According to the MDAQMD's *CEQA and Federal Conformity Guidelines*, a project is significant if it triggers or exceed the following evaluation criteria:

- Generates total emissions (direct and indirect) in excess of the thresholds given in Table 8: Mojave Desert Air Quality Management District Emissions Thresholds.
- Generates a violation of any AAQS when added to the local background.
- Does not conform with the applicable attainment or maintenance plan(s).
- Exposes sensitive receptors to substantial pollution concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a non-cancerous Hazard Index (HI) greater than or equal to 1.

Table 8: Mojave Desert Air Quality Management District Emissions Thresholds

Criteria Air Pollutants and Precursors	Annual (tons)	Daily (pounds)
Carbon Monoxide (CO)	100	548
Oxides of Nitrogen (NO_X)	25	137
Volatile Organic Compounds (VOC)	25	137
Oxides of Sulfur (SO_X)	25	137
Particulate Matter (PM_{10})	15	82
Particulate Patter ($PM_{2.5}$)	12	65
Hydrogen Sulfide (H_2S)	10	54
Lead (Pb)	0.6	3

Source: Mojave Desert Air Quality Management District. 2020 (February). *California Environmental Quality Act and Federal Conformity Guidelines.*

3.1 Cancer and Non-Cancerous Health Risks

As noted above, the MDAQMD considers a project that results in an incremental increase in individual lifetime cancer risk impact of 10 in a million or greater to be significant. "Incremental" in this context

means above existing conditions. With respect to non-cancerous health impacts, the MDAQMD considers a project that results in an HI greater than or equal to 1 to result in a significant impact. A discussion of what these thresholds mean in terms of potential real world effects is set forth below.

3.2 Cancer Burden

Whereas cancer risk represents the probability that an individual will develop cancer, cancer burden multiplies the cancer risk by the exposed population to estimate the number of individuals that would be expected to contract cancer from the project. A cancer burden greater than 0.5 excess cancer cases (in areas exposed to 1 in one million or greater risk, on a 70-year basis) is considered significant.

3.3 Odors

The MDAQMD does not have numerical thresholds for odors. Odors are qualitatively evaluated based on typical odor generating land uses, as well as potential for a project to create an odor nuisance pursuant to MDAQMD Rule 402.

3.4 Asbestos

There are no quantitative thresholds for asbestos. CARB regulates demolition of asbestos containing structures. As described above, significance of NOA impacts are determined based on a review of geologic formation mapping and BIG's potential to disturb potential asbestos containing rock formations.

3.5 Valley Fever

There are no quantitative thresholds for valley fever. Compliance with MDAQMD dust control rules and best management practices during construction would reduce the risk of contracting Valley Fever.

4.0 METHODOLOGY FOR IMPACT ANALYSIS

The study area for direct and indirect impacts concerning air quality is the BIG footprint and the MDAB and the SCAB as a whole. BIG construction and operational emissions sources were calculated based on BIG-specific activity levels. MDAQMD was consulted for the general analysis approach and methodology. See **Appendix A: Air Quality and Greenhouse Gas Emissions Modeling Data** for more information regarding the construction and operations assumptions used in this analysis, as well as the modeled emissions.

4.1 Construction

Construction emissions can vary substantially from day to day, depending on the level of activity, and the specific type of equipment used. Construction emissions result from on-site and off-site activities. Onsite construction emissions principally consist of fugitive dust from ground disturbing activities, exhaust emissions from heavy-duty construction equipment and motor vehicle operation, and off-gassing from architectural coatings (painting) and paving. Off-site construction emissions are caused by motor vehicle exhaust from vendor delivery vehicles and worker trips. Additionally, off-site emissions would occur from trains hauling construction materials (e.g., ballast, rails, railroad ties, etc.). Total construction emissions are modeled based on the below assumptions, then amortized over a 30-year period and added to operational emissions.

Models

Criteria pollutant emissions from BIG demolition and construction were calculated using emission factors from CARB's OFFROAD2021 model (v1.0.3). The use of emission rates from the OFFROAD model captures the latest off-road construction assumptions, including emission inventories as well as equipment population and activity data, collected by CARB. OFFROAD default load factors (the ratio of average equipment horsepower utilized to maximum equipment horsepower) and useful life parameters were used for emission estimates. Mobile-source emissions from worker vehicle trips and truck trips were calculated using Vehicle Miles Traveled (VMT) and Truck Miles Traveled (TMT) (heavy-duty truck miles traveled) estimates and appropriate emission factors from CARB's EMission FACtor 2021 (EMFAC) model (v1.0.2). EMFAC2021 emissions projections assumed implementation of the ACT Regulation and the Heavy-Duty Low NO_X Omnibus Regulation. These regulations were disapproved by Congressional Resolutions H.J. Res 87 and H.J. Res 89, respectively. The resolutions were signed by the President on June 12, 2025. These resolutions, along with H.J. Res. 88 (revoking federal light-duty vehicle GHG standards), limit the ability of CARB to enforce these California regulations that had been authorized by U.S. EPA waivers under the FCAA. CARB is currently evaluating the impact of the actions (H.J. Res 87, H.J. Res 88, and H.J. Res 89) under the Congressional Review Act, but has not yet provided emissions modeling guidance. Accordingly, emissions from trucks are overestimated in the EMFAC2021 model.

Fugitive dust emissions from dirt and aggregate handling were calculated using emission factors derived from equations from the U.S. EPA's AP-42 Compilation of Air Emissions Factors. Emissions from architectural coatings and paving were calculated using the methodology in the California Emissions Estimator Model (CalEEMod) User Guide Appendix C: Emission Calculation Details for CalEEMod and

emissions rates in the CalEEMod User Guide Appendix G: Default Data Tables (OEHHA, 2022). **Table 9: Regulations and Agreements Assumed in the Unmitigated Construction and Operational Emissions** summarizes the regulations that were assumed in the construction emissions unmitigated scenario.

Table 9: Regulations and Agreements Assumed in the Unmitigated Construction and Operational Emissions

Off-Road Construction Equipment	On-Road Trucks	Trains	Fugitive Dust
Emission Standards for Non-road Diesel Engines – Tier 1, 2, 3, and 4 standards gradually phased in over all years (accounted for in emissions factor projections) due to normal construction equipment fleet turnover. **California Diesel Fuel Regulations –** 15 ppm sulfur starting 9/1/06. **CARB In-Use Off-Road Diesel Vehicle Rule –** Off-road mobile equipment powered by diesel engines 25 hp or larger must meet the fleet average or best available control technology (BACT) requirements for NO_X and PM emissions by March 1 of each year. **CARB Portable Diesel-Fueled Engines Air Toxics Control Measure-** Effective September 12, 2007, all portable engines having a maximum rated horsepower of 50 bhp and greater and fueled with diesel shall meet weighted fleet average PM emission standards. **CARB Off-Road Large Spark Ignition Equipment Rule –** LSI engines greater than 25 hp, powered by gasoline, LPG, or other alternative fuels to meet HC + NO_X requirement beginning January 1, 2009.	**Emission Standards for On-road Trucks –** Engine emission standards gradually phased in due to normal truck fleet turnover and accounted for in emissions factor projections. **California Diesel Fuel Regulations –** 15 ppm sulfur starting September 1, 2006. **Airborne Toxic Control Measure to Limit Diesel Fueled Commercial Motor Vehicle Idling –** Diesel trucks are subject to idling limits starting 2/1/05. **Port of Los Angeles Clean Truck Program –** Heavy-duty diesel drayage trucks calling on port terminals shall meet the USEPA 2007 emission standards for on-road heavy-duty diesel engines (USPEA, 2001) by 2012. **CARB Statewide Truck and Bus Regulation –** Installation of PM retrofits on all heavy-duty trucks beginning January 1, 2012, and replacement of older trucks starting January 1, 2015. By January 1, 2023, all vehicles need to have 2010 model year engines or equivalent.	**Emission Standards for Locomotives –** Tiered engine emission standards gradually phased in due to normal locomotive fleet turnover and accounted for in emissions factor projections. **1998 Fleet Average Agreement –** Fleet average emission factors for NO_X for linehaul locomotives operating in the South Coast area. **2005 CARB/Railroad Statewide Agreement –** Reduced line haul locomotive idling times assumed to take effect starting in 2006. **Non-road Diesel Fuel Rule –** 500 ppm sulfur starting June 2007 and 15 ppm sulfur starting January 1, 2012. Applies to all line-haul locomotives. **California Diesel Fuel Regulations –** 15 ppm sulfur starting January 1, 2007. Applies to all switch locomotives.	**MDAQMD Rue 403 Compliance –** Properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; cover stockpiles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour.

Table 9: Regulations and Agreements Assumed in the Unmitigated Construction and Operational Emissions			
Off-Road Construction Equipment	**On-Road Trucks**	**Trains**	**Fugitive Dust**
Note: This table is not intended to be a comprehensive list of all potentially applicable regulations; rather, the table lists key regulations and agreements that quantifiably affect the emission calculations for BIG construction and assumed in the analysis. Emissions reductions are reflected in EMFAC emission factors for on-road vehicles and reflected in U.S. EPA locomotive emission factors.			

Construction Schedule

For analysis purposes, BIG construction is assumed to begin in third quarter 2025 and be completed by third quarter 2028, with an overall duration of approximately 34 months. Construction continuing into 2028 would include track and signal work, while equipment testing would occur at the intermodal facility. The anticipated construction phase timing is shown in **Table 10: Construction Schedule.** During peak construction periods, work would be under way at several locations within the Project Footprint simultaneously, with overlapping construction of various elements.

Table 10: Construction Schedule	
Construction Activity	**Approximate Number of Days**
South Main Lines	
Demolition, Site Preparation, and Mobilization	39
Mass Grading	220
Bridges and Box Culverts	248
Fine Grading/ Place Subballast	25
Track and Signal Construction	151
Intermodal Facility	
Demolition, Site Preparation, and Mobilization	39
Mass Grading	165
Drainage and Underground	333
Bridges and Box Culverts	333
Fine Grading/Place Subballast	165
Buildings/Pavement	361
Track and Signal Construction	319
Block Swap Yard	
Demolition, Site Preparation, and Mobilization	39
Mass Grading	109
Drainage and Underground	277
Bridges and Box Culverts	277
Fine Grading/Place Subballast	361
Track and Signal Construction	389
North Main Lines	
Demolition, Site Preparation, and Mobilization	39
Mass Grading	109
Bridges and Box Culverts	109
Fine Grading/Place Subballast	53
Track and Signal Construction	179

Table 10: Construction Schedule	
Construction Activity	**Approximate Number of Days**
Transload Warehouse Construction	
Warehouse Construction	319
Civil Site Improvements	263
33 kV Distribution	601
Solar Site	344
Sources: Project construction schedule provided by TranSystems/Burns & McDonnell.	

Construction Equipment

BIG construction would involve the use of off-road construction equipment for demolition, site preparation, grading, and construction, heavy-duty trucks and locomotives for delivery of bulk materials and hauling away demolished material, and personal automobiles for employee commuting. The combustion of fossil fuels (diesel and gasoline) generates emissions of criteria pollutants, VOC, CO, NO_X, SO_2, PM_{10}, $PM_{2.5}$, and MSATs. Vendor delivery vehicles and worker commute trips would generate PM emissions from tire wear, break wear, and re-entrainment of roadway dust. In addition, off-road and on-road construction equipment traveling over unpaved surfaces and performing earthmoving activities such as site clearing/grading would generate fugitive dust emissions in the form of PM_{10} and $PM_{2.5}$.

Construction emissions are estimated by assuming construction occurs at the earliest feasible date and applies to the entire period in **Table 10** (i.e., a conservative estimate of construction activities) and applying off-road, fugitive dust, and on-road emissions factors from CARB's OFFROAD model. The anticipated construction equipment is shown in **Table 11: Construction Equipment**. All equipment in **Table 11** is assumed to be Tier 4 except for track laying machines, articulated trucks, auger borers, tampers, and regulators**.**

Table 11: Construction Equipment					
Construction Phase	**Equipment**	**Number**	**Hours per Day**	**Horsepower (hp)**	**Load Factor**
South Main Demolition, Site Preparation, Mobilization (34 days)	Dozers	1	8	367	0.40
	Dump Trucks	5	10	376	0.38
	Excavators	1	3	36	0.38
	Generators	4	2	14	0.74
	Loaders	1	3	150	0.36
	Scrapers	2	10	423	0.48
	Water Trucks	2	4	376	0.38
South Main Mass Grading (190 days)	Dozers	4	10	367	0.40
	Dump Trucks	275	10	376	0.38
	Excavators	2	10	36	0.38
	Generators	4	2	14	0.74
	Graders	1	10	148	0.41
	Grapple/Pump Trucks	1	1	376	0.38
	Loaders	2	10	150	0.36
	Rollers	1	1	36	0.38
	Scrapers	4	10	423	0.48

Table 11: Construction Equipment					
Construction Phase	**Equipment**	**Number**	**Hours per Day**	**Horsepower (hp)**	**Load Factor**
	Water Trucks	20	10	376	0.38
South Main Bridges and Box Culverts (214 days)	Auger Boring Machine	1	3	83	0.50
	Cranes	1	7	367	0.29
	Dozers	1	3	190	0.40
	Dump Trucks	3	10	376	0.38
	Excavators	2	10	236	0.38
	Generators	4	2	20	0.74
	Graders	1	3	250	0.41
	Grapple/Pump Trucks	3	8	376	0.38
	Light Carts/Generator Sets	8	8	20	0.74
	Loaders	2	10	265	0.36
	Rollers	1	3	150	0.38
	Skid Steers	1	4	90	0.37
	Water Trucks	20	10	376	0.38
South Main Fine Grading/Place Subballast (22 days)	Dozers	4	10	367	0.40
	Generators	4	2	14	0.74
	Graders	8	10	148	0.41
	Rollers	8	10	36	0.38
	Water Trucks	20	10	376	0.38
South Main Track and Signal Equipment (130 days)	Cranes	1	5	367	0.29
	Dozers	1	3	190	0.40
	Dump Trucks	3	10	376	0.38
	Excavators	2	10	236	0.38
	Generators	4	2	20	0.74
	Grapple/Pump Trucks	4	10	376	0.38
	Light Carts/Generator Sets	8	8	20	0.74
	Loader/Swing Loaders	3	10	265	0.36
	Regulators	1	2	82	0.42
	Skid Steers	1	4	90	0.37
	Track Laying Machines	1	3	525	0.42
	Tampers	1	2	89	0.36
	Water Trucks	2	10	376	0.38
Intermodal Facility Demolition, Site Preparation, Mobilization (34 days)	Dozers	7	10	419	0.40
	Dump Trucks	36	10	376	0.38
	Excavators	3	10	450	0.38
	Loaders	3	10	360	0.36
	Generators	4	2	20	0.74
	Scrapers	11	10	1,051	0.48
	Water Trucks	2	4	376	0.38
Intermodal Facility Mass Grading (142 days)	Dozers	34	10	419	0.40
	Dump Trucks	41	10	376	0.38
	Excavators	13	10	450	0.38
	Generators	4	2	20	0.74
	Graders	1	7	250	0.41

Table 11: Construction Equipment					
Construction Phase	**Equipment**	**Number**	**Hours per Day**	**Horsepower (hp)**	**Load Factor**
	Loader	16	10	360	0.36
	Rollers	1	7	325	0.38
	Scrapers	39	10	1,051	0.48
	Water Trucks	20	10	376	0.38
Intermodal Facility Drainage and Underground (286 days)	Crane	1	6	367	0.29
	Dump Trucks	23	10	376	0.38
	Excavators	7	10	236	0.38
	Generators	4	2	20	0.74
	Loaders	9	10	265	0.36
	Trencher	1	9	115	0.50
	Water Trucks	2	10	376	0.38
Intermodal Facility Bridges and Box Culverts (286 days)	Auger Boring Machine	1	8	83	0.50
	Cranes	3	10	367	0.29
	Dozer	1	8	190	0.40
	Dump Trucks	7	10	376	0.38
	Excavator	5	10	236	0.38
	Generators	4	2	20	0.74
	Grader	2	8	250	0.41
	Light Carts	8	8	20	0.74
	Loaders	4	10	265	0.36
	Pump Truck	1	6	376	0.38
	Roller	1	8	150	0.38
	Skid steers	2	10	90	0.37
	Water Trucks	2	10	376	0.38
Intermodal Facility Fine Grading/Place Subballast (142 days)	Dozers	5	10	190	0.40
	Generators	4	2	20	0.74
	Graders	10	10	250	0.41
	Rollers	10	10	150	0.38
	Water Trucks	20	10	376	0.38
Intermodal Facility Buildings/ Pavement (310 days)	Auger Boring Machine	1	4	83	0.50
	Backhoe	1	4	84	0.37
	Crane	1	7	367	0.29
	Dozer	1	10	100	0.40
	Dump Trucks	4	10	376	0.38
	Excavator	2	10	36	0.38
	Generators	4	2	20	0.74
	Grader	1	10	250	0.41
	Light Carts	8	8	20	0.74
	Loader	2	10	150	0.36
	Pump Truck	1	3	376	0.38
	Roller	1	10	136	0.38
	Skid steers	2	10	90	0.37
	Water Trucks	1	10	376	0.38
Intermodal	Crane	1	9	367	0.29

Table 11: Construction Equipment					
Construction Phase	**Equipment**	**Number**	**Hours per Day**	**Horsepower (hp)**	**Load Factor**
Facility Track and Signal (274 days)	Dozer	1	4	190	0.40
	Dump Trucks	2	10	376	0.38
	Excavator	2	10	236	0.38
	Generators	4	2	20	0.74
	Grapple Truck	1	1	376	0.38
	Light Carts	8	8	20	0.74
	Loader	2	10	265	0.36
	Regulator	1	3	82	0.42
	Skid steer	1	1	90	0.37
	Swing Loader	1	4	265	0.36
	Tamper	1	3	89	0.36
	Track Laying Machine	1	4	525	0.42
	Water Trucks	1	10	376	0.38
Block Swap Yard Demolition, Site Preparation, Mobilization (34 days)	Dozer	19	10	419	0.40
	Dump Truck	101	10	376	0.38
	Excavator	7	10	450	0.38
	Generators	4	2	20	0.74
	Loader	7	10	360	0.36
	Scrapers	30	10	1,051	0.48
	Water Trucks	2	4	376	0.38
Block Swap Yard Mass Grading (94 days)	Dozers	142	10	419	0.40
	Dump Trucks	172	10	376	0.38
	Excavators	51	10	450	0.38
	Generators	4	2	20	0.74
	Graders	3	10	250	0.41
	Loaders	66	10	360	0.36
	Rollers	3	10	325	0.38
	Scrapers	163	10	1,051	0.48
	Water Trucks	20	10	376	0.38
Block Swap Yard Drainage and Underground (238 days)	Crane	1	1	367	0.29
	Dump Trucks	7	10	376	0.38
	Excavators	3	10	236	0.38
	Generators	4	2	20	0.74
	Loaders	3	10	265	0.36
	Pump Truck	1	1	376	0.38
	Water Trucks	2	10	376	0.38
Block Swap Yard Bridges and Box Culverts (238 days)	Auger Boring Machine	1	9	83	0.50
	Crane	3	10	367	0.29
	Dozer	1	9	190	0.40
	Dump Trucks	8	10	376	0.38
	Excavators	6	10	236	0.38
	Generators	4	2	20	0.74
	Grader	1	9	250	0.41
	Light Carts	8	8	20	0.74

Table 11: Construction Equipment					
Construction Phase	**Equipment**	**Number**	**Hours per Day**	**Horsepower (hp)**	**Load Factor**
	Loaders	5	10	265	0.36
	Pump Truck	1	8	376	0.38
	Roller	1	9	150	0.38
	Skid Steers	2	10	90	0.37
	Water Trucks	2	10	376	0.38
Block Swap Yard Fine Grading, Place Subballast (310 days)	Dozers	11	10	190	0.40
	Generators	4	2	20	0.74
	Graders	20	10	250	0.41
	Loaders	4	10	150	0.36
	Rollers	20	10	150	0.38
	Trencher	4	10	115	0.50
	Water Trucks	20	10	376	0.38
Block Swap Yard Track and Signal (334 days)	Dozers	2	10	190	0.40
	Dump Truck	1	1	376	0.38
	Excavator	5	10	236	0.38
	Generators	4	2	20	0.74
	Grapple Truck	2	10	376	0.38
	Light Carts	8	8	20	0.74
	Loaders	5	10	265	0.36
	Regulator	1	9	82	0.42
	Skid Steer	1	2	90	0.37
	Swing Loader	2	10	265	0.36
	Tamper	1	9	89	0.36
	Track Laying Machine	2	10	525	0.42
	Water Trucks	1	10	376	0.38
North Main Demolition, Site Preparation, Mobilization (34 days)	Dozer	1	5	419	0.40
	Dump Truck	3	10	376	0.38
	Excavator	1	2	450	0.38
	Generators	4	2	20	0.74
	Loader	1	2	360	0.36
	Scrapers	1	8	1,051	0.48
	Water Trucks	2	4	376	0.38
North Main Mass Grading (94 days)	Dozer	5	10	419	0.40
	Dump Trucks	2	10	376	0.38
	Excavators	2	10	450	0.38
	Generators	4	2	20	0.74
	Grader	1	1	250	0.41
	Loaders	3	10	360	0.36
	Roller	1	1	325	0.38
	Scrapers	5	10	1,051	0.48
	Water Trucks	20	10	376	0.38
North Main Bridges and Box Culverts	Auger Boring Machine	1	8	83	0.50
	Crane	3	10	367	0.29
	Dozer	1	8	190	0.40

Table 11: Construction Equipment					
Construction Phase	**Equipment**	**Number**	**Hours per Day**	**Horsepower (hp)**	**Load Factor**
(94 days)	Dump Trucks	9	10	376	0.38
	Excavator	6	10	236	0.38
	Generators	4	2	20	0.74
	Grader	1	8	250	0.41
	Light Carts	8	8	20	0.74
	Loaders	6	10	265	0.36
	Pump Truck	1	4	376	0.38
	Roller	1	8	150	0.38
	Skid Steers	2	10	90	0.37
	Water Trucks	2	10	376	0.38
North Main Fine Grading, Place Subballast (46 days)	Dozers	2	10	190	0.40
	Generators	4	2	20	0.74
	Graders	3	10	250	0.41
	Rollers	3	10	150	0.38
	Water Trucks	20	10	376	0.38
North Main Track and Signal (154 days)	Crane	1	4	367	0.29
	Dozer	1	1	190	0.40
	Dump Truck	2	10	376	0.38
	Excavator	2	10	236	0.38
	Generators	4	2	20	0.74
	Grapple/Pump Trucks	3	10	376	0.38
	Light Carts	8	8	20	0.74
	Loaders	2	10	265	0.36
	Regulator	1	1	82	0.42
	Skid Steer	1	8	90	0.37
	Swing Loader	1	1	265	0.36
	Tamper	1	1	89	0.36
	Track Laying Machine	1	1	525	0.42
	Water Trucks	1	10	376	0.38
Transload Warehouses Warehouse Construction (274 days)	Dozers	3	10	419	0.40
	Dump Trucks	69	10	376	0.38
	Generators	4	2	20	0.74
	Graders	3	10	250	0.41
	Light Carts	8	8	20	0.74
	Pump Trucks	4	10	376	0.38
	Roller	3	10	36	0.38
	Water Trucks	2	4	376	0.38
Transload Warehouses Civil Site Improvements (226 days)	Backhoe	1	2	84	0.37
	Dozer	3	10	419	0.40
	Dump Trucks	7	10	376	0.38
	Excavator	3	10	450	0.38
	Generators	4	2	20	0.74
	Graders	3	10	250	0.41
	Light Carts	8	8	20	0.74

Table 11: Construction Equipment					
Construction Phase	**Equipment**	**Number**	**Hours per Day**	**Horsepower (hp)**	**Load Factor**
	Loaders	3	10	360	0.36
	Roller	3	10	325	0.38
	Trencher	3	10	115	0.50
	Water Trucks	2	4	376	0.38
33kV Transmission Line Construction (516 days)	Auger Boring Machine	1	1	83	0.50
	Backhoes	2	10	84	0.37
	Boom Trucks	3	10	376	0.38
	Crane	1	2	367	0.29
	Dump Truck	1	1	376	0.38
	Excavators	3	10	450	0.38
	Generators	4	2	20	0.74
	Boring Machine	1	5	200	0.42
	Light Carts	8	8	20	0.74
	Skid Steer	1	1	90	0.37
	Tampers	3	10	89	0.36
	Water Truck	3	10	376	0.38
Solar Farm Construction (296 days)	Backhoe	1	5	84	0.37
	Boom Truck	1	5	376	0.38
	Crane	1	1	367	0.29
	Dozer	1	1	419	0.40
	Excavator	1	8	450	0.38
	Flat Bed Truck	1	5	82	0.42
	Generators	4	2	20	0.74
	Light Carts	8	8	20	0.74
	Loader	1	2	360	0.36
	Pile Driver	1	1	82	0.42
	Skid Steer	1	3	90	0.37
	Tamper	1	6	89	0.36
	Water Truck	1	6	376	0.38

Sources: Project construction equipment provided by TranSystems/Burns & McDonnell. Horsepower and load factor based on CAPCOA. 2022. *CalEEMod User Guide Appendix G, Table G-12, Horsepower and Load Factors for Construction Equipment by Fuel Type*.

Demolition and Earthwork

Emissions associated with demolition and earthwork would originate from equipment, trucks, concrete batch plants, and rail deliveries. Construction would require the demolition and removal of approximately 150,000 square feet of structures and 36,000 square feet of concrete slab. Although the California Green Building Standards (CALGreen) code requires 65 percent of construction and demolition materials to be diverted away from the landfill by either recycling or reusing materials, it is currently unknown how much of the demolished material can be recycled and re-used on-site. Therefore, as a conservative estimation of impacts, all demolished materials were assumed to be hauled off-site. Demolition was modeled to occur during the initial stages of the mass grading phase. Earthwork during mass grading would include approximately 26,000,000 cubic yards of balanced cut and fill as well as 2,000,000 cubic yards of balanced subcut.

Fugitive dust emissions would occur from demolition, earthwork, trenching, storage piles, and entrained road dust. Emissions of airborne PM are largely dependent on the amount of ground disturbance associated with site preparation activities as well as weather conditions and the application of water. Fugitive dust emissions may have a substantial, temporary impact on local air quality. In addition, fugitive dust may be a nuisance to those living and working in the vicinity of BIG. Dust from construction can become a nuisance and potential health hazard to those living and working nearby. MDAQMD Rules 402 and 403 (prohibition of nuisances, watering of inactive and perimeter areas, track out requirements, etc.), are applicable to BIG and were quantified in the modeling of fugitive dust emissions. In accordance with MDAQMD Rule 403, BNSF (or its contractors) will prepare a Dust Control Plan outlining steps to be taken to reduce PM_{10} during construction, including but not limited to periodically watering disturbed areas, using soil stabilizers on storage piles and unpaved roadways, avoiding track out or removing tracked out dirt from public roads within 24 hours, and reducing non-essential earth-moving activity under high wind conditions (see MDAQMD Rule 403 for definitions and other measures applicable to the BIG project).

Soils disturbed during earthwork could be impacted with TACs, including naturally occurring arsenic, aerially deposited heavy metals and polycyclic aromatic hydrocarbons from locomotive exhaust, pesticides and herbicides used along the ROW and parcels formerly used for agriculture, solvents and other chemicals leaked onto parcels formerly used for industrial/commercial uses, total petroleum hydrocarbons from fuel leaks, and creosotes that leached from the railroad ties. Materials potentially impacts with these contaminants would be segregated, characterized, and removed through hauling to the appropriate offsite receiver site (please see Section 5.9, *Hazards and Hazardous Materials* and 5.17, *Utilities and Service Systems* for details).

Concrete and Asphalt Batch Plants

Concrete would also be required for components such as the intermodal facility as well as the construction of bridges and retaining walls. Asphalt would be required for parking areas and roadways/drive aisles. BIG construction would require approximately 1.9 million cubic yards of concrete and 700,000 tons (approximately 345,379 cubic yards) of asphalt for warehouse parking areas. Due to the size of the BIG footprint, the analysis assumed three batch plants would operate during construction, three concrete batch plants and one asphalt batch plant. Batch plants can produce fugitive dust emissions from material handling and exhaust emissions from engine-powered equipment. Construction contractors using batch plants that remain onsite for more than 12 months must obtain an air quality permit from MDAQMD and comply with MDAQMD Rule 401 (Visible Emissions), Rule 402 (Nuisance), Rule 403 (Fugitive Dust Control) to minimize fugitive dust emissions and nuisances, and Rule 1103 (Cutback and Emulsified Asphalt). To obtain the permit, the batch plant must demonstrate to MDAQMD that localized impacts would be acceptable. The locations of the anticipated batch plants would be determined by the construction contractor and are currently unknown. Concrete and asphalt batching emissions were estimated based on the total amount of concrete and asphalt required (independent of the number of batch plants) and emission factors from U.S. EPA AP-42 Chapter 11.12, Concrete Batching, (U.S. EPA, 2006) and Chapter 11.1, Hot Mix Asphalt Plants (U.S. EPA, 2004a). Batch plants would be run with electricity and would not generate diesel exhaust. Emissions from heavy-duty truck trips associated with transporting material to

and from the concrete batch plants were included in the mobile source emissions as vendor trips, discussed below.

Construction Trips

Mobile source emissions from worker trips and heavy-duty truck trips were calculated using VMT and TMT estimates from **Appendix 5.15- BIG-1: CEQA Assessment – *VMT Analysis, Active Transportation, and Public Transit Analysis*** (**Appendix 5.15-1**) and appropriate EMFAC emission rates. Construction trips are summarized in **Table 12: Construction Trips**. MDAQMD rules (e.g., Rule 401 [Visible Emissions], Rule 402 [Nuisance], Rule 403 [Fugitive Dust Control] etc.) require dust control measures such as watering unpaved access roads and disturbed areas, and promptly replacing ground cover over disturbed areas, were incorporated into the modeling based on U.S. EPA AP-42. BIG-specific data, including construction schedule (see **Table 10**) and equipment lists (see **Table 11**), were also incorporated into the modeling.

Table 12: Construction Trips

Year	Peak Worker Trips per Day [1] (Passenger Cars)	Peak Truck Trips per Day [1] (Heavy-duty Trucks)
2025	2,048	714
2026	2,418	1,732
2027	1,435	1,065
2028	275	239

Notes:
[1] Based on **Appendix 5.15 BIG-1**, the maximum probable concurrent construction employment and truck activity is expected in month 9 of construction.
[2] Truck trips during intermodal infrastructure include concrete pavement, base course, and transload warehouse center construction material deliveries. Deliveries at various locations for intermodal infrastructure would occur concurrently.

Sources: Kimley-Horn. 2025. **Appendix 5.15 BIG-1 – CEQA Assessment – VMT Analysis, Active Transportation, and Public Transit Analysis.**

Rail Deliveries

Bulk materials needed for construction, including ballast, welded rails, and rail ties, could be hauled to the BIG site by rail within the MDAB. Rail emission factors from the U.S. EPA document *Emission Factors for Locomotives* (U.S. EPA, 2009) and the travel distance by rail within the MDAB were used to estimate construction rail delivery emissions (see **Appendix A** for modeling assumptions and details). Construction rail delivery emissions were calculated by assuming that locomotives meeting fleet average line-haul emission standards would be used for all rail deliveries.

Construction would require approximately 80 trains for rail tie delivery, 44 trains for welded rail delivery, and 315 trains for ballast delivery for a total of approximately 439 trains over a 10-month construction period (approximately two trains per day). Trains delivering rail ties, welded rails, and ballast were assumed to have one locomotive and 50 cars. Track ballast would be delivered in 100-ton rail ballast cars. Train hauling was conservatively assumed to occur over a round-trip distance of 300 miles to account for the potential emissions within Southern California (i.e., the one-way distance from Lenwood to the eastern edge of the MDAB is approximately 150 miles, and the one-way distance from Lenwood to the Port of Los Angeles/Port of Long Beach is approximately 130 miles). Additionally, trains were assumed to idle for eight hours per day (i.e., during the majority of the day to allow for unloading).

Temporary Mainline Relocation Train Trips

During construction, the existing mainline would be reconstructed (see **Section 1.0: Project Summary**). Prior to reconstruction, a new south mainline would be constructed immediately north of Main Street. Trains would then be diverted to this south mainline while the existing mainline is reconstructed. Upon reconstruction, trains would be evenly split between the two mainlines. Thus, construction air quality analysis assumes 100 percent of trains would use the south mainline from 2025 to2027, and beginning 2027, half of trains using BNSF's mainline would use the south mainline and half would use the reconstructed mainline. Train count projections are provided for 2026, 2027, and 2028, to consider potential changes in emissions as trains are diverted from the existing mainline to the proposed south mainline until 2027, then split between the two mainlines from 2027 to 2028. The location of the trains affects localized pollutant concentrations and health risk, but would not affect overall mass emissions.

Train count data is based on actual train data from the last quarter of 2022 and the first three quarters of 2023 as these were the most recent available data at the time environmental analysis commenced. Growth rates were applied to the existing train counts for future year data. Growth is based on a compounded annual growth rate derived from the historical change in container volumes and associated train trips (see Appendix B [BNSF CAGRs Used in BIG of Appendix B [BNSF Barstow International Gateway Corridor Emissions Analysis]). The changes in emissions associated with moving trains closer or farther from sensitive receptors was included in construction emissions dispersion modeling given these changes would occur during the construction period.

Summary of Construction Assumptions

Table 13: Construction Assumptions Summary summarizes the methodology, models used, and other construction assumptions described above. See **Appendix A** for more information regarding the construction assumptions used in this analysis, as well as the modeled emissions.

Table 13: Construction Assumptions Summary

Emissions Source	Assumptions	Methodology or Model Used
Off-Road Construction Equipment[1]	See **Table 11** for equipment assumptions	CARB OFFROAD
Earthwork (fugitive dust)	26,000,000 cubic yards of balanced cut and fill, truck loading, and storage piles 2,000,000 cubic yards of subcut and soil	U.S. EPA AP-42 §§ 11.9 and 13.2
On-Road Hauling and Worker Vehicle Trips	See **Table 12** for construction trip assumptions Peak worker trips would occur during building construction and peak truck trips would occur during demolition, site preparation, and mobilization.	CARB EMFAC2021
Demolition	150,000 square feet of structures 36,000 square feet of concrete slab removal	U.S. EPA AP-42 §§ 11.9 and 13.2
Rail Deliveries (Locomotive Hauling and Idling)	80 trains for rail tie delivery 44 trains for welded rail delivery 315 trains for ballast delivery Total of approximately 439 trains over a 10-month	U.S. EPA, Emission Factors for Locomotives, April 2009

Table 13: Construction Assumptions Summary		
Emissions Source	**Assumptions**	**Methodology or Model Used**
	construction period. Each train was assumed to idle 8 hours per day. Approximately 2 trains per day	
Concrete and Asphalt Batch Plants	2.3 million cubic yards total over a 21-month period Three electrically powered concrete batch plants (1.9 million cubic yards total, approximately 3,500 cubic yards per day) One electrically powered asphalt batch plant Approximately 345,379 cubic yards (approximately 633 cubic yards per day)	U.S. EPA AP-42 § 11.12
Notes: [1]Includes Demolition, Grading, Bridges and Box Culverts, Building Construction, Track and Signal Work, Solar Farm, and 33 kV Transmission Line		
Sources: Author Compilation. 2025.		

4.2 Operations

Operational emission sources include rail yard equipment, stationary sources, area sources[20], locomotives, and truck and employee commute trips associated with the block swap yard, the intermodal facility, and transload facility. The following approximate building area was assumed for modeling purposes:

- Intermodal Facility: 150,000 square feet of building area
- Transload Facility: 9,000,000 square feet of building area

Operational emission source assumptions were obtained from BNSF. Operational mobile source activity assumptions were based on traffic data within the BIG transportation analysis, (see **Appendix 5.15-1: CEQA Assessment – VMT Analysis, Active Transportation, and Public Transit Analysis**). Typically, intermodal transport grows by approximately two percent per year. However, as discussed above, BIG would introduce a unique cross-dock intermodal operation which would present competitive benefits to suppliers compared to long-distance transport via heavy-duty truck. As such, BNSF anticipates that during this "initial transition period" after opening year and while suppliers transition supply chains to use BIG (2028-2033), a higher growth percentage than typical would occur. Following this initial transition period and through horizon year, BIG's growth would continue at the normal approximately 2 percent per year (see Appendix B). Therefore, the analysis evaluates BIG's environmental impacts during Opening Year (2028), Interim Year (2033), and Horizon Year (2048) conditions.

Models

Criteria pollutant emissions from BIG operational line-haul locomotives were calculated using U.S. EPA emission factors (EPA-420-F-09-025). Since onsite switcher locomotives would only operate in California, these emissions were calculated with emissions factors from CARB's 2017 Carl Moyer Program Guidelines. On-road mobile-source emissions from worker vehicle trips and truck trips were calculated using VMT and

[20] Area sources occur from consumer products, architectural coatings, and landscaping that were previously not present on the site.

TMT estimates and appropriate emission factors from CARB's EMFAC model. EMFAC2021 emissions projections assumed implementation of the ACT Regulation and the Heavy-Duty Low NO_X Omnibus Regulation. These regulations were disapproved by Congressional Resolutions H.J. Res 87 and H.J. Res 89, respectively. The resolutions were signed by the President on June 12, 2025. These resolutions, along with H.J. Res. 88 (revoking federal light-duty vehicle GHG standards), limit the ability of CARB to implement and enforce these California regulations that had been authorized by U.S. EPA waivers under the FCAA. CARB is currently evaluating the impact of the actions (H.J. Res 87, H.J. Res 88, and H.J. Res 89) under the Congressional Review Act but has not yet provided emissions modeling guidance.

Fugitive dust emissions from road dust were calculated using emission factors derived from equations from the U.S. EPA's AP-42 Compilation of Air Emissions Factors. Off-road equipment emissions were calculated using emission factors from CARB's OFFROAD model. The use of emission rates from the OFFROAD model captures the latest off-road construction assumptions, including emission factors, established by CARB. OFFROAD default load factors (the ratio of average equipment horsepower utilized to maximum equipment horsepower) and useful life parameters were used for emission estimates. Emissions from area, energy, water use, solid waste, and refrigerant emissions were calculated using the methodology in the CalEEMod User Guide Appendix C: Emission Calculation Details for CalEEMod and emissions rates in the CalEEMod User Guide Appendix G: Default Data Tables (CAPCOA, 2022); see **Appendix A**. **Table 9: Regulations and Agreements Assumed in the Unmitigated Construction and Operational Emissions,** above, summarizes the regulations that were assumed and factored into emissions factor projections in the operational emissions unmitigated scenario.

BIG trains would travel along a Corridor defined as the rail line operated by BNSF between the San Pedro Ports and Needles Station at approximately the California/Arizona border. A Corridor Emissions Model (CEM) was developed to quantify corridor specific mass emissions (i.e., air emissions associated with the BNSF locomotives operating on the Corridor). The western portion of the Corridor is located within the jurisdiction of the South Coast AQMD (within the SCAB), and the eastern portion is within the jurisdiction of the MDAQMD (within the MDAB). The BNSF Summit rail station delineates the boundary between the South Coast AQMD and MDAQMD along the Corridor. The CEM specifically evaluates air emissions from rail movements along the entirety of the Corridor under both a "Proposed Project" condition (i.e., BIG obtains all necessary approvals and is built) and a "No Project" condition (i.e., BIG is not built).

Moving emissions (i.e., emissions associated with each train movement within the Corridor) are calculated by multiplying the gross tonnage of the train (freight plus locomotive weight) and the total miles the train traveled through the Corridor to produce the gross ton–mile (GTM). The gross ton–mile is combined with the fuel efficiency of the train, which accounts for the direction the train is traveling using a positive or negative grade slope of the Corridor. Lastly, the model calculates a composite emission factor using the U.S. EPA Locomotive Line-Haul Tier Emission Factors.

Idling emissions are emissions within the Corridor for all locomotives under minimum operating conditions (idling throttle position) while stationary. For this calculation, each line-haul locomotive is assumed to produce 25 horsepower during idling, with a brake-specific fuel consumption rate of 20.8 brake horsepower hour per gallon (U.S. EPA: Emission Factors for Locomotives, 2009).

Train count data is based on actual train data from the last quarter of 2022 and the first three quarters of 2023 as these were the most recent available data at the time environmental analysis commenced. Growth rates were applied to the existing train counts for future year data. Growth is based on a compounded annual growth rate (CAGR) derived from the historical change in container volumes associated with train trips (see the CAGR data prepared by EnSafe, which can be found in Appendix B [BNSF CAGRs used in BIG] of EnSafe's BNSF Barstow International Gateway Corridor Emissions Analysis. EnSafe's corridor emissions analysis is located within Appendix B of this report).

The changes in emissions associated with moving trains closer or farther from sensitive receptors near the BIG footprint was included in construction emissions dispersion modeling given these changes would occur during the construction period.

Equipment and Stationary Sources

The operational equipment that would be used within the intermodal facility is listed in **Table 14: Operational Electric Equipment** and **Table 15: Operational Diesel Equipment**. The operational equipment shown in **Table 14** would be electric powered, thus, would not increase localized air pollutant emissions of criteria pollutants.

Table 14: Operational Electric Equipment

Equipment	Quantity (2028)	Quantity (2033)	Quantity (2048)
Widespan Rail Mounted Gantry (RMG) Cranes	10	12	14
Chassis Stacking Forklifts	2	2	3
Intermodal Facility Forklifts	2	2	3
Top Pick/Side Loaders	2	2	3
Terminal Hostlers	47	62	73
Transload Hostlers	81	107	124
Warehouse Forklifts	540	540	540

Sources:
AECOM. (2023). *BNSF Barstow Simulation Analysis*.
South Coast Air Quality Management District (South Coast AQMD). 2014. *High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results.*

The operational equipment shown in **Table 15** would use diesel fuel and would generate criteria air pollutant and TAC emissions. Cargo handling equipment emissions factors were modeled using CARB's OFFROAD2021 model. Less than five percent of containers handled at BIG would have TRUs. Electrical plug-in facilities would be provided for TRUs, and TRU emissions were only estimated for the short time between arrival of transportation refrigeration units and plug-in. No cold storage would occur. Equipment, such as hostlers and forklifts, traveling within BIG would also generate PM from re-entrained road dust, tire wear, and brake wear. Re-entrained road dust emission rates are primarily affected by the silt loading on the road and amount of vehicle travel. Emission rates are lower per mile traveled on more trafficked roads. Re-entrained road dust was calculated using U.S. EPA AP-42 factors and brake/tire wear was calculated from CARB EMFAC2021 emissions rates.

Table 15: Operational Diesel Equipment								
Equipment[1]	2028		2033		2048		Horse-power[2]	Load Factor[2]
	Quantity	Hours per Day per Unit (peak)	Quantity	Hours per Day per Unit (peak)	Quantity	Hours per Day per Unit (peak)		
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	7	6.9	8	6.9	10	6.9	165	0.15
Rail Car Wheel Change Machine	2	4	2	4	2	5	160	0.43
Air Compressors	2	2	2	2	2	3	78	0.48
Welders	2	1	2	1	2	2	46	0.45
Truck Transport Refrigeration Units (TRU)[3]	15	4.9	19	4.9	23	4.9	50	0.56
Warehouse Yard Trucks	32	4	32	4	32	4	225	0.39
Warehouse Forklifts	540	4	540	4	540	4	106	0.30
EMERGENCY GENERATORS (TESTING, MAINTENANCE, AND TRAINING)								
2000 kW (Intermodal Facility)	10	1	10	1	10	1	2,682	0.74
750 kW (Warehousing)	5	1	5	1	5	1	1,006	0.74
500 kW (Warehousing)	2	1	2	1	2	1	671	0.74
350 kW (Warehousing)	1	1	1	1	1	1	469	0.74
250 kW (Warehousing)	15	1	15	1	15	1	335	0.74
175 kW (Warehousing)	6	1	6	1	6	1	235	0.74

Notes:
[1] Cargo handling equipment and generators and activity/usage hours provided by BNSF and AECOM.
[2] Horsepower and load factors from CARB CHE inventory and CARB OFFROAD. The RTG Load Factor is from the Port of Long Beach RTG Crane Load Factor Study, 2009.
[3] Truck TRUs are 5 percent of the total one-way trucks and hours per unit are from CARB OFFROAD.

Source: Compiled from discussions with BNSF engineers (2023).

Area Sources

Area source emissions would be generated due to maintenance products (such as solvents, disinfectants, sanitizers), architectural coatings, and landscaping that were previously not present on the site. Area source emissions were calculated based on generation and emissions factors from the CalEEMod version 2022 User Guide, Appendix C (Emissions Calculation Details) and Appendix G (Default Data Tables) (see **Appendix A** for modeling assumptions and details). Emissions are based on the railroad building and transload warehouse building area square footages above. The default area source VOC emission factor developed for CalEEMod is based on a statewide factor and is not directly applicable to BIG. BIG would not use consumer products as specified by CalEEMod User Guide. BIG may have small employee break areas and bathrooms that would use cleaning products; however, the majority of BIG acreage would be used for the block swap yard, intermodal facility and transload warehouse center. As the CalEEMod consumer product rates are based on a statewide average, reactive organic gas (ROG [VOC]) emissions are likely overestimated for the proposed transload warehouse center and therefore conservative.

Energy Sources

BIG will consume liquid fuels (gasoline and diesel) for vehicle and equipment use and consume electricity in buildings and lighting throughout. Emissions from the combustion of fossil fuels in mobile equipment and vehicles are discussed below. Electricity consumption would occur from building space heating and cooling, water heating, appliances, lighting, and EV charging (including automobiles, electric hostlers, and cargo handling equipment) (see **Appendix A** for modeling assumptions and details). Electricity use would contribute indirectly to criteria air pollutant emissions; however, criteria pollutant emissions from offsite electricity generation are generally excluded from the evaluation of significance. Because power plants are stationary sources permitted by air districts and/or the U.S. EPA, criteria pollutant emissions are generally associated with the power plants themselves, and not individual buildings or electricity users (CAPCOA, 2022, p. C-53).

Locomotive Emissions within BIG Footprint

As noted above, baseline train count data is based on actual train data from the last quarter of 2022 and the first three quarters of 2023 as these were the most recent available data at the time the environmental analysis commenced. Growth rates were developed based on historic growth rates for the various container and train types that would utilize BIG (see Appendix B), and were applied to the existing train counts for future year data. BIG would construct a new mainline immediately north of Main Street. The existing mainline would be reconstructed. Future train volumes would be evenly distributed between the new main lines.

Locomotive emissions associated with the intermodal facility are from two major categories: line-haul locomotive emissions during transport and idling (arriving and departing locomotives) and switcher locomotive emissions during yard activities (i.e., moving rail cars within the block swap yard or intermodal facility). Locomotive emissions are based on locomotive activity data from the BIG Corridor Emissions Model (EnSafe, 2025). These emission sources would use diesel fuel and are described below.

Line-haul refers to the movement of cargo over long distances (i.e., locomotives over 2,300 horsepower that haul freight cross-country) and occurs within the intermodal facility as the initiation or termination of a line-haul trip, as cargo is either picked up or dropped for transport to destinations across the region or country.[21] Line-haul locomotives would access the BIG intermodal facility and block swap yard.

Switching refers to the assembling and disassembling of trains at various locations in the rail yard, sorting of the cars of inbound cargo trains into contiguous “blocks” for subsequent delivery. Switching locomotives would stay within BIG. Each switching locomotive operates in consists[22] of two locomotives each. Switching would primarily occur at the block swap yard to transfer a block of train cars between trains without re-classification. Switching locomotives would not be needed for intermodal facility operations except for some block swap trains that are switched over to the intermodal facility. This

[21] CARB categorizes U.S. diesel-electric freight and passenger locomotives into three major groups, primarily based on horsepower and types of operations: (1) interstate line haul (>4,000 horsepower); (2) medium horsepower (MHP) (2,301 to 3,999 horsepower); and (3) Switch (yard) (1,006 to 2,300 horsepower). U.S. EPA defines the smaller switch (yard) locomotive, also called a switcher, to be between 1,006 and 2,300 horsepower. U.S. EPA also defines higher horsepower locomotives as line haul locomotives (i.e., >2,300 horsepower) (40 CFR Part 1033.901).

[22] In railroad terminology, a "consist" refers to the specific arrangement and composition of a train, including the locomotives and railcars.

switching activity has been attributed to the block swap yard for modeling purposes. Regular breakdown and build activities of arriving and departing trains at the intermodal facility would occur with line-haul locomotives under self-powered conditions (i.e., not conducted by switch engines).

All line-haul and switcher locomotives are assumed to be equipped with Automatic Engine Start Stop (AESS) technology, which limits idling time at any single location to 15 minutes per Program 1(b) of the Statewide Rail Agreement (CARB, 2005b). After 15 minutes, the AESS will cause all but one locomotive per train to shut down. All emissions analysis of movements of the line-haul locomotives in breaking down arriving trains and building departing trains assume that only one locomotive per train is operating. The remaining locomotives would be restarted prior to train departure.

Locomotive emissions were modeled using current BNSF fleet data and locomotive emissions factors from the U.S. EPA document Emissions Factors for Locomotives (EPA-420-F-09-025) (U.S. EPA, 2009) and updated with the CARB Carl Moyer Program Guidelines 2017 Revisions (CARB, 2017). Emissions from rail yard switcher and line-haul locomotives were modeled using a detailed layout of track segments and assumptions for the movement of locomotives along track segments based on the proposed track and facility layout, as well as detailed duty cycle data locomotive notch settings provided by BNSF. **Table 16: Train Operational Assumptions** shows the number of locomotives assumed and **Table 17: Locomotive Fleet Mix** shows the line-haul and switcher locomotive fleet mix.

Table 16: Train Operational Assumptions within the BIG Footprint										
Scenario	Existing		2026		2028		2033		2048	
	Average Trains per Day	Average Locomotives per Train	Average Trains per Day	Average Locomotives per Train	Average Trains per Day	Average Locomotives per Train	Average Trains per Day	Average Locomotives per Train	Average Trains per Day	Average Locomotives per Train
No BIG										
Mainline (All Trains)	45.3	3.5	47.3	3.5	48.7	3.5	52.4	3.6	66.6	3.6
With BIG										
N. and S. Mainline	-	-	47.3	3.5	32.0	3.3	34.3	3.4	43.3	3.4
BIG East Lead	-	-	-	-	24.4	3.1	27.6	3.1	35.4	3.1
BIG West Lead	-	-	-	-	19.4	3.9	21.7	3.9	27.3	3.8
Block Swap Yard and Through Trains[2]	-	-	-	-	20.3	3.4	22.6	3.4	28.9	3.3

Note:
[1] With BIG 2026 mainline trains would occur on the South Main only while the Existing Main is being reconstructed. After BIG opens, some mainline trains would be routed to the Intermodal Facility and Block Swap Yard.
[2] The number of trains include through trains that do not stop in the facility for processing. see **Appendix A** for modeling assumptions and details).

Sources: EnSafe. 2025. *BNSF Barstow International Gateway Corridor Emissions Analysis.*

Table 17: Locomotive Fleet Mix Forecast							
U.S. EPA Tier Standard	Line-Haul Locomotives[1,2,3]				Switcher Locomotives[1,2]		
	Without BIG and With BIG			With BIG	With BIG		
	2028	2033	2048	Dedicated Fleet (All Years)[4]	2028	2033	2048
Uncontrolled (1973-1999)	0.0%	0.0%	0.0%	0.0%	18.0%	18.0%	13.0%
Tier 0 (2000-2001)	0.0%	0.0%	0.0%	0.0%	62.0%	62.0%	60.0%
Tier 0+	0.0%	0.0%	0.0%	0.0%	11.0%	11.0%	8.0%
Tier 1 (2002-2004)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tier 1+	26.48%	22.12%	8.62%	0.0%	3.8%	3.8%	7.6%
Tier 2 (2005-2011)	0.0%	0.0%	0.0%	0.0%	1.0%	1.0%	1.0%
Tier 2+	37.01%	37.27%	38.05%	0.0%	4.0%	4.0%	10.0%
Tier 3 (2012-2014)	27.91%	28.10%	28.69%	0.0%	0.0%	0.0%	0.0%
Tier 4 (2015)	8.60%	12.52%	24.64%	100%	0.2%	0.2%	0.4%

Note:
1 Line-haul locomotives are 4,000 horsepower or higher; switcher locomotives are less than 2,300 horsepower.
2 Line-haul locomotive life is assumed to be 40 years; switcher locomotive life is assumed to be 70 years.
3 Based on 2023 report for the 1998 MOU and adjusted for full conversion of Tier 0 and 1 to Tier 1+ and Tier 2 to Tier 2+. Annual Tier 4 purchases with associated Tier 1 replacements based on 5-year historical average purchase rates.
4 As a part of BIG, cross-dock intermodal containers (i.e., those taken by rail from the Ports to BIG's intermodal facility) would be transported using a dedicated fleet of Tier 4 linehaul locomotives.

Sources: *BNSF locomotive inventory data.*

Other Mobile Sources (Employee Transportation)

Employee vehicles (passenger cars) would generate vehicle exhaust and paved road dust (including break and tire wear) emissions. The emissions factors for on-road vehicles accessing BIG were modeled for future years (Opening Year [2028], Interim Year [2033], and Horizon Year [2048]) using EMFAC2021 for exhaust and brake wear/tire wear, and U.S. EPA AP-42 factors were used for road dust emissions (EMFAC does not include road dust emissions). **Table 18: BIG Passenger Vehicle** Trip Generation summarizes BIG's average daily employee vehicle trips.

Table 18: BIG Passenger Vehicle Trip Generation

Land Use	Vehicle Type	Average Daily Vehicle Trips		
		2028	2033	2048
Transload Facility	Passenger Cars	6,962	9,204	10,620
Intermodal Facility	Passenger Cars	1,765	2,085	2,325

Sources: Kimley-Horn. 2025. Appendix 5.15 BIG-1 – CEQA Assessment – VMT Analysis, Active Transportation, and Public Transit Analysis.

Additionally, although electric hostlers and various fleet vehicles and cargo handling equipment would be electrically powered and would not generate exhaust emissions, these vehicles and equipment would also generate PM from re-entrained road dust, tire wear, and brake wear.

Paved road dust is fugitive dust that is deposited on a paved roadway and then re-entrained into the air by passing vehicles. Dust is deposited on the roadway by being blown from disturbed areas, tracked from unpaved shoulders or vehicles traveling on connecting unpaved roads, stirred up by wind currents, and deposited by water runoff or erosion. Vehicles cause dust from paved and unpaved roads to be re-entrained or re-suspended in the atmosphere. The forces created by the rolling wheels of vehicles remove fine particles from the road and also pulverize aggregates lying on the surface. Emissions of paved road dust are generally proportional to vehicle miles traveled. Re-entrained road dust emission rates are primarily affected by the silt loading on the road and amount of vehicle travel. Emission rates are lower per mile traveled on more trafficked roads. Re-entrained road dust was calculated using U.S. EPA AP-42 factors and brake/tire wear was calculated from CARB EMFAC2021 emissions rates.

Corridor Emissions in California

Mass Emissions of Criteria Pollutants

BIG trains would travel along a Corridor defined as the rail line operated by BNSF between the San Pedro Ports and Needles Station at approximately the California/Arizona border. BNSF's ownership in the Corridor occurs between downtown Los Angeles and the Needles Station. The rail Corridor traverses both the SCAB and MDAB. The emissions modeling breaks the Corridor into four segments, including 1) San Pedro Ports to San Bernardino station, 2) San Bernardino station to Summit station, 3) Summit station to Barstow station/BIG, and 4) Barstow station/BIG to Needles station. The following data are used to calculate locomotive emissions on the rail Corridor between the Ports and Needles, California, for analysis years 2028, 2033, and 2048 (see Appendix B):

- Train Profiles: The number of locomotives, locomotive weight, freight weight, direction of travel, and distance traveled for an average train type along the Corridor.

- Train Trips: The number of trips for each train type.
- Fleet Mix: The blend of locomotive types used for each analysis year (locomotive types are classified by the engine tier, ranging from Tier 1 to Tier 4). The locomotive inventory is based on the 1998 Locomotive NO_X Fleet Average Emissions Agreement in the South Coast Air Basin (1998 MOMU), signed by CARB, Union Pacific Railroad and BNSF. As part of BIG, all cross-dock intermodal containers (i.e., those taken by rail from the Ports to BIG) would be transported using a dedicated fleet of Tier 4 linehaul locomotives.
- Fuel Blend: The mix of conventional and renewable fuels used for each scenario and analysis year. As part of BIG, starting in BIG opening year 2028, BNSF would increase the renewable diesel composition within Southern California's existing fueling sites from 1 percent to 10 percent, a 9 percent point increase in renewable diesel for eastbound movements. This is a region-wide average and not indicative of an increase at any specific site within Southern California. This would improve the emissions of all BNSF trains fueling in Southern California, including those BNSF trains that would not stop at BIG.
- Fuel Efficiency: To estimate the fuel efficiency for the various scenarios and operational years, the Corridor Emissions Model incorporates the BNSF Fuel Efficiency Model, a regression model based on actual 2023 fuel usage data.

Rail emission factors from the U.S. EPA document *Emission Factors for Locomotives* (2009) and the railroad miles along BNSF's Corridor. It is noted that BIG includes various features which reduce operational emissions, including a dedicated fleet of Tier 4 locomotives to transport cross-dock intermodal containers from the Ports to BIG's intermodal facility, Tier 4 switcher locomotives, the retirement of all existing switcher locomotives at the existing Barstow classification yard and the addition of six Tier 4 switcher locomotives, and increasing the renewable diesel composition within Southern California's existing fueling sites. These would reduce Corridor emissions and are incorporated into the With Project model analysis.

It is noted that train activity along the existing mainlines in the vicinity of BIG and along the corridor is anticipated to increase approximately 1.0-2.5 percent annually without BIG (EnSafe, 2025), and thus, future baseline train emissions would also increase. Future daily train volumes along the rail corridor would increase by the following percentages when compared to existing conditions:

- Year 2028 No BIG: 7.43 percent increase in daily train trips (which equates to an approximate 2.62 percent increase annually);
- Interim Year 2033 No BIG: 15.75 percent increase in daily train trips (which equates to an approximate 1.43 percent increase annually); and
- Horizon Year 2048 No BIG: 47.27 percent increase in daily train trips (which equates to an approximate 1.89 percent increase annually).

According to State CEQA Guidelines § 15125, where existing conditions change or fluctuate over time, and where it is necessary to provide the most accurate picture of a project's impacts, a lead agency may define existing conditions by referencing historic conditions, conditions expected when the project becomes operational, or both, supported with substantial evidence. Therefore, operational train emissions modeling was completed for future years without BIG (2028, 2033, and 2048) to establish future baseline train emissions and analyze incremental emissions increases directly attributable to BIG. Based on that

data, use of existing conditions alone would be misleading and without informative value to decision-makers and the public. (See State CEQA Guideline § 15125(a)(2)). See State CEQA Guideline § 15125(a)(2) ["[a] lead agency may use projected future conditions (beyond the date of project operations) as the sole baseline for analysis only if it demonstrates with substantial evidence that use of existing conditions would be either misleading or without informative value to decision-makers and the public. Use of projected future conditions as the only baseline must be supported by reliable projections based on substantial evidence in the record"; see also *Neighbors for Smart Rail v. Exposition Metro Line Constr. Auth.* (2013) 57 Cal.4th 439, 453; *POET, LLC v. State Air Resources Bd.*) (2017) 12 Cal.App.5th 52, 80; *San Franciscans for Livable Neighborhoods v. City & County of San Francisco* (2018) 26 Cal.App.5th 596, 616-617, 620 [upholding future baseline as supported by substantial evidence: "A determination that an existing conditions analysis would be misleading or without informational value is primarily factual and must be upheld if supported by substantial evidence."].)

Mass Emissions of DPM in the Corridor

Using the methodology above, operational emissions in the rail Corridor were modeled for analysis years 2028 (initial operational year), 2033 (interim operational year), and 2048 (full operational capacity) for both the No BIG and With BIG scenarios, so that the modeled emissions in those years can be compared. As a screening methodology, the comparison shows if BIG would increase DPM emissions in the Corridor. If BIG DPM emissions in the Corridor remain the same or decrease, then there would be no potential DPM impacts associated with BIG anywhere on the Corridor. DPM is a TAC and its health effects are described below in **Section 4.3: Air Pollutants of Concern**.

Localized Concentrations of Corridor Criteria Pollutant Emissions

Localized effects of BIG-related Corridor emissions and the associated increases in criteria pollutants were modeled for a worst-case segment in the SCAB and two study segments in the MDAB near BIG. The analyzed segments include one location in the SCAB (based on the SRA with the highest background concentration) and two locations in the MDAB (one west of BIG and one east of BIG). The SCAB worst-case segment is based on existing background ambient air quality concentrations as measured by the South Coast AQMD and CARB. There are fewer monitoring stations in the MDAB and the Barstow Monitoring Station measured by MDAQMD has the highest background concentrations and was conservatively used to evaluate impacts in the MDAB.

As noted above, the SCAB segment with the highest background concentrations was selected to provide a conservative analysis. The two locations in the MDAB include a segment west of BIG and a segment east of BIG. Segments east and west of BIG were selected because train volumes and associated emissions at these locations are different. Therefore, both of these segments were analyzed to disclose impacts from different emissions increases east and west of BIG.

BIG-related Corridor emissions at the selected SCAB and MDAB segments were modeled with the American Meteorological Society/U.S. EPA Regulatory Model (AERMOD). AERMOD is a dispersion model used to determine ground-level pollutant concentrations at individual receptors along the modeled Corridor segment. Refer to the dispersion modeling discussion below for a more detailed description of air dispersion modeling used in this analysis. All modeled segments used a uniform Cartesian receptor grid

with 50-meter spacing, and U.S. Geological Survey National Elevation Dataset terrain data. Train emissions were represented by line-volume sources in AERMOD. Specific modeling parameters used for each segment are shown below.

- South Central Los Angeles County Segment
  - Air Basin: SCAB
  - Source Type: Line Volume
  - Length: 1.9 miles
  - Meteorological Station: Northrop Field/Hawthorne Municipal Airport
- West of BIG Segment
  - Air Basin: MDAB
  - Source Type: Line Volume
  - Length: 2.3 miles
  - Meteorological Station: Barstow-Dagget Airport
- East of BIG Segment
  - Air Basin: MDAB
  - Source Type: Line Volume
  - Length: 10.4 miles
  - Meteorological Station: Barstow-Dagget Airport

Modeled NO_2 and CO concentrations are combined with the measured background concentrations and then compared to the NAAQS and CAAQS. Modeled PM_{10} and $PM_{2.5}$ concentrations are not combined with background concentrations as they are compared to incremental thresholds.

California and Regional TMT Improvements

BIG would transport more containers with trains instead of heavy-duty trucks, which would reduce truck trips and TMT; see **Appendix 5.15 BIG-1: CEQA Assessment – Transportation Analysis**. The daily and annual truck trips and TMT removed from the Nationwide, California, MDAQMD, and South Coast AQMD roadway network by BIG are shown in **Table 19: Net Truck Trips and Truck Miles Traveled Reductions by BIG**. Mobile source emissions reductions were modeled for future years (Opening Year 2028, Interim Year 2033, and Horizon Year 2048) using EMFAC2021.[23]

[23] As noted above, EMFAC2021 emissions projections assumed implementation of the ACT Regulation and the Heavy-Duty Low NO_X Omnibus Regulation. These regulations were disapproved by Congressional Resolutions H.J. Res 87 and H.J. Res 89, respectively. The resolutions were signed by the President on June 12, 2025. These resolutions, along with H.J. Res. 88 (revoking federal light-duty vehicle GHG standards), nullify California regulations that had been authorized by U.S. EPA waivers under the FCAA. CARB is currently evaluating the impact of the actions (H.J. Res 87, H.J. Res 88, and H.J. Res 89) under the Congressional Review Act, but has not yet provided emissions modeling guidance. Accordingly, emissions from trucks are overestimated in the EMFAC2021 model.

Table 19: Net Truck Trips and Truck Miles Traveled Reductions by BIG			
	Opening Year 2028	**Interim Year 2033**	**Horizon Year 2048**
Daily			
Daily BIG Truck Trips[1]	594	753	929
Daily BIG Peak TMT[2]	40,273	51,053	62,986
Daily Truck Trips Removed (Nationwide)[3]	-1,715	-2,270	-2,635
Daily Truck Trips Removed (California)[4]	-2,083	-2,754	-3,198
Daily Net TMT Reduction in MDAQMD Network[5]	-40,328	-49,500	-59,305
Daily Net TMT Reduction in South Coast AQMD Network[5]	-124,710	-163,607	-192,255
Daily Net TMT Reduction in California Network[5]	-159,263	-209,220	-244,880
Daily Net TMT Reduction in Nationwide Network[5]	-596,780	-784,417	-912,666
Annual			
Annual BIG Truck Trips[1]	192,000	243,600	300,370
Annual Truck Trips Removed (Nationwide)[3]	-627,000	-829,220	-962,700
Annual Truck Trips Removed (California)[4]	-760,270	-1,005,270	-1,167,090
Annual Net TMT Reduction in MDAQMD Network[5]	-14,719,796	-18,067,338	-21,646,477
Annual Net TMT Reduction in South Coast AQMD Network[5]	-45,519,012	-59,716,409	-70,173,104
Annual Net TMT Reduction in California Network[5]	-58,130,956	-76,365,405	-89,381,289
Annual Net TMT Reduction in Nationwide Network[5]	-217,824,523	-286,312,231	-333,123,035

Note:
[1] Heavy-duty truck trip generation to/from BIG. Includes heavy-duty trucks traveling to/from BIG's transload warehouse center and IMF. See trip generation discussion in Appendix 5.15 BIG-2: LOS Assessment.
[2] Consistent with the "Daily BIG Truck Trips", this includes a 13% surplus when converting from annual to daily values to account for potential seasonal surges (based on data from other southern California IMFs provided by BNSF on 12/02/2022). See trip generation discussion in the Appendix 5.15 BIG-2: LOS Assessment.
[3] "Truck Trips Removed" is the "Plus BIG Truck Trips" minus "No BIG Baseline Truck Trips" (average daily or annual values, as noted). Includes truck trips nationwide. See truck miles traveled discussion in Appendix 5.15 BIG-1: CEQA Assessment.
[4] "Truck Trips Removed (California)" is higher than "Truck Trips Removed (Nationwide)" because under No BIG Baseline conditions all trips related to the transload warehouse center originate in California, while Plus BIG conditions includes truck trips from hub cities to final nationwide destinations. See truck miles traveled discussion in Appendix 5.15 BIG-1: CEQA Assessment.
[5] "Net TMT Reduction" (also referred to as "Change in TMT due to BIG" or "TMT removed") is the "Plus BIG TMT" minus "No BIG Baseline TMT" for each relevant region (average daily or annual values, as noted). Due to distance rounding, the California TMT is slightly lower than the sum of the South Coast AQMD and MDAQMD TMT values. Additionally, a portion of the California Network TMT reductions occur within the San Joaquin Valley Air Basin in addition to the South Coast Air Basin and the Mojave Desert Air Basins. Therefore, combining TMT reductions within MDAQMD and South Coast AQMD jurisdictions will not match the total California Network TMT reduction.

Source: Kimley-Horn. 2025. Appendix 5.15 BIG-1 – CEQA Assessment – Transportation Analysis.

Barstow Yard Switcher Elimination and Replacement

As a project feature with implementation of BIG, BNSF would remove all 15 existing Barstow Yard locomotives and replace them with Tier 4 locomotive engines by January 1, 2028, or before the first day of BIG operations, whichever date is later. In the event that BIG has not been approved or has not commenced construction for any reason, including, but not limited to, legal challenge or as a result of

business decision by BNSF, BNSF shall have no obligation to remove from service and/or replace any locomotives at the existing Barstow Yard.

Summary of Operational Assumptions

Table 20: Operational Assumptions Summary summarizes the methodology, models, and operational assumptions used in the operational analyses. See **Appendix A** for more information regarding the operational assumptions used in this analysis, as well as the modeled operational emissions.

Table 20: Operational Assumptions Summary		
Emissions Source	**Assumptions**	**Methodology or Model Used**
Equipment and Stationary Sources	See **Table 14** and **Table 15** for electric and diesel equipment assumptions	CARB OFFROAD
Area and Energy Sources	Based on 150,000 square feet of intermodal facility buildings and 9,000,000 square feet of warehouse building area	CalEEMod Consumption Rates
Locomotive Emissions	See **Table 16** and **Table 17** for locomotive assumptions	Line Haul Locomotives: U.S. EPA Emissions Factors for Locomotives (April 2009) Switcher Locomotives: CARB's Carl Moyer Program Guidelines, (2017)
Other Mobile Sources (Passenger Cars)	See **Table 18** for mobile source assumptions	CARB EMFAC2021
California Road Network TMT Improvements	See **Table 19**	CARB EMFAC2021
Rail Corridor Emissions	Based on 2023 report for the 1998 MOU and adjusted for full conversion of Tier 0 and 1 to Tier 1+ and Tier 2 to Tier 2+ and Compound Annual Growth Rates (CAGR) provided by BNSF. CAGR and emissions for With BIG and Without BIG are found in Appendix B of the Corridor Emissions Analysis, which is located within Appendix B of **Appendix 5.3 BIG-1**. Annual Tier 4 purchases with associated Tier 1 replacements based on 5-year historical average purchase rates.	U.S. EPA Emissions Factors for Locomotives (April 2009) BNSF Barstow International Gateway Corridor Emissions Analysis (see Appendix B)
Barstow Yard Switcher Elimination and Replacement	Annual fuel consumption of 50,000 gallons per switcher. Six switchers replaced with Tier 4 engines, nine switchers	U.S. EPA Emissions Factors for Locomotives (April 2009) and CARB's Carl Moyer Program Guidelines, (2017)

Table 20: Operational Assumptions Summary		
Emissions Source	**Assumptions**	**Methodology or Model Used**
	removed (note that only six Tier 4 switcher locomotives are needed to fully replace the 15 existing Tier 0/0+/1+ switcher locomotives due to improved reliability, advanced traction control, and better power/improved torque with Tier 4 switchers).	
Source: Author Compilation. 2025.		

4.3 Dispersion Modeling

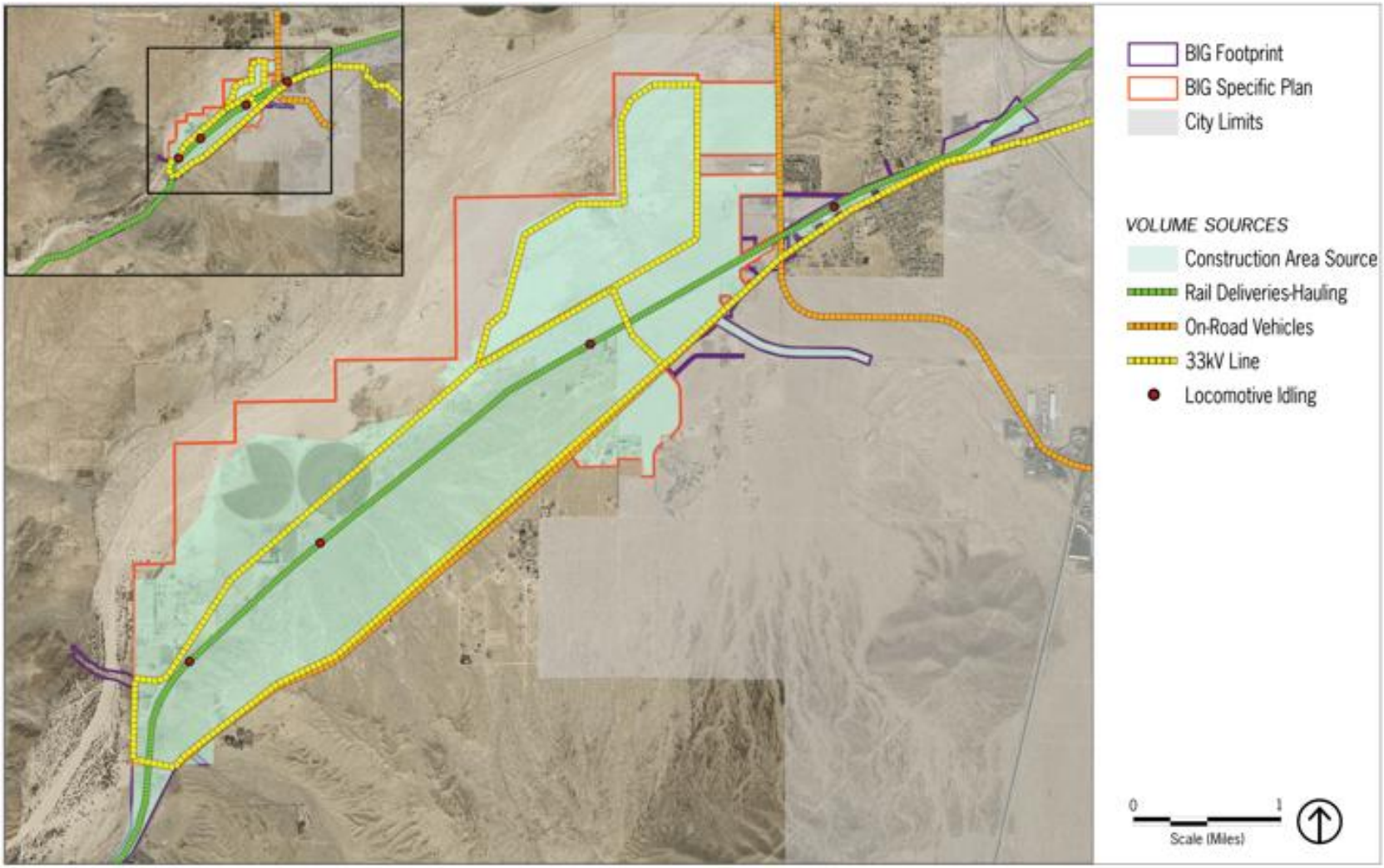
Dispersion modeling of CO, NO_X, PM_{10}, and $PM_{2.5}$ emissions was performed to estimate maximum offsite ground-level air pollutant concentrations and health risks from BIG construction and operations emissions using the AERMOD, version 24142. Dispersion modeling was performed for construction years 2025 through 2028, Opening Year (2028), Interim Year (2033), and Horizon Year (2048). The construction and operational sources used in AERMOD can be seen **in Figure 6: BIG Source Representation in AERMOD Construction Sources** and **Figure 7: BIG Source Representation in AERMOD Operational Sources**, and are summarized below in **Table 21: Dispersion Modeling Assumptions**. Corridor emissions improvements are not included in the BIG dispersion modeling as those emissions would primarily occur outside of the BIG footprint and were calculated separately.

Construction emission rates in grams per second were calculated from the total annual exhaust emissions reported in CalEEMod during construction. Annual operational emissions were converted to grams per second and these emissions rates were input into AERMOD. The predicted ambient concentrations from construction and operations were compared to the NAAQS and CAAQS. Dispersion modeling details and model outputs are provided in **Appendix A**. The modeling and analysis were prepared in accordance with Appendix W to Part 51, Title 40 (U.S. EPA, 2023), the User's Guide for the AERMOD (U.S. EPA, 2024), and the OEHHA *Air Toxics Hot Spots Program Risk Assessment Guidelines* (OEHHA, 2015).

The dispersion modeling used meteorological data from the Barstow-Daggett Airport Meteorological Station (data from 2015, 2016, 2018, 2019, 2020) located approximately 19 miles east of the BIG footprint (CARB, NDd). Data from the National Elevation Data set, available from the U.S. Geological Survey (USGS, 2018), were utilized to import the elevation information for sources and receptors. Construction and operations pollutant concentrations were estimated near the BIG footprint and surrounding area. AEROMOD regulatory default options and rural dispersion algorithm were used in the analysis.[24] The modeled concentrations were compared with the applicable NAAQS, CAAQS, and health-related guidelines to determine the level of impacts. The ambient concentrations obtained through dispersion modeling were subsequently used in the HRA.

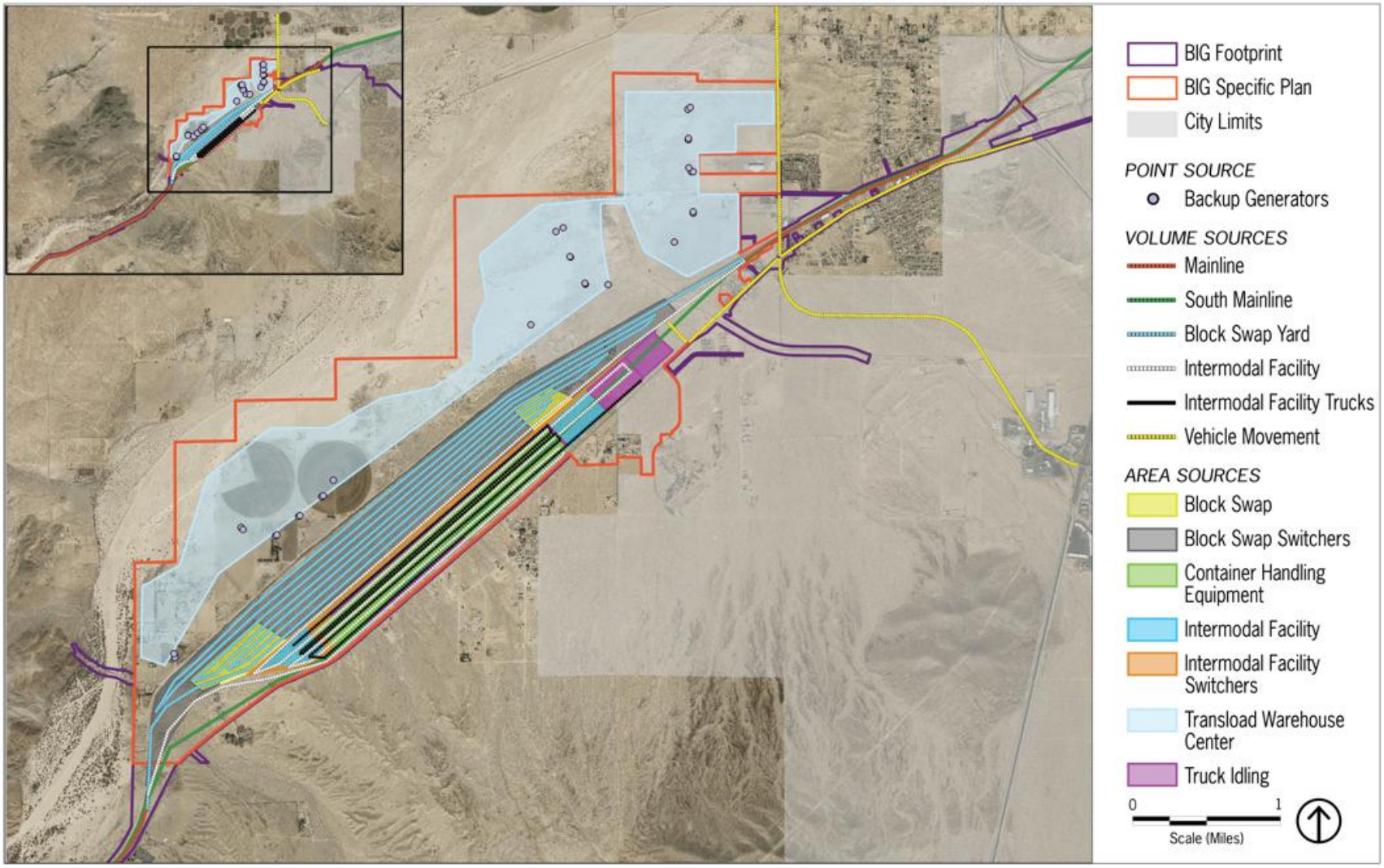
[24] Per the U.S. EPA's AERMOD User's Guide, AERMOD implements the following default options: elevated terrain algorithms requiring input of terrain height data; stack-tip downwash (except for building downwash cases); the calms processing routines; the missing data processing routines.

Figure 6: BIG Source Representation in AERMOD Construction Sources



Source: AERMOD
Note: Sources are shown for illustration purposes and are not to scale.

Figure 7: BIG Source Representation in AERMOD Operational Sources



Source: AERMOD
Note: Sources are shown for illustration purposes and are not to scale.

Table 21: Dispersion Modeling Assumptions		
Emissions Source	**Geometric Configuration[1]**	**Assumptions/Methodology/Model**
CONSTRUCTION		
Construction (Off-Road Equipment, Concrete Batch Plants, Rail Deliveries)	Line-Volume Sources	Operating within onsite construction disturbance areas, Configured per U.S. EPA's AERMOD User's Guide
Rail Deliveries (Locomotive Idling)	Point Sources	Exhaust based on U.S. EPA Emissions Factors for Locomotives Point sources used for idling, AERMOD sources were configured based on CARB rail studies and AERMOD guidance
Pass-by Trains on North/South Mainlines	Line-Volume Sources	Modeled exhaust based on U.S. EPA Emissions Factors for Locomotives
Railway Excavation and Removal	Line-Volume Sources	The existing main line was modeled to calculate the metals released during the removal. A release height of 0 meters was modeled, with a plume width of 9 meters, or the width of the track corridor plus 50 feet on each side.
Construction (earthwork)	Area Sources	The model includes 17 area polygons, each representing a different parcel. The release height modeled was 1 meter (3.28 feet) to account for release of materials while construction equipment was relocating. Data was pulled from the Phase II ESA reports prepared.
OPERATIONS		
Line-Haul Locomotive Operations	Line-Volume Sources	Modeled exhaust based on U.S. EPA Emissions Factors for Locomotives
Stationary and Cargo Handling Equipment, Truck Emissions		OFFROAD and EMFAC
Switcher Operations and Idling Line-Haul Idling	Area Sources	Modeled exhaust based on U.S. EPA Emissions Factors for Locomotives
Transload Facility Operations		OFFROAD and EMFAC
Barstow Railyard Switcher Replacement		Modeled exhaust based on U.S. EPA Emissions Factors for Locomotives and CARB's Carl Moyer Program Guidelines, (2017)

Notes:
[1] The emissions sources are defined as follows:
[2] Point source: a single identifiable local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc. (example: a stack or vent).
[3] Line source: a series of volume sources (volume sources are a three-dimensional source of diffuse air pollutant emissions comprised of an area of emissions released at a height above ground) along a path (example: vehicular traffic along a roadway segment). Line sources (i.e., multiple volume sources) are also used to represent some construction activities.
[4] Area source: Area sources are used to model releases that occur over an area.

4.4 TACs and Health Risk Sources and Modeling

Human health risks associated with BIG TAC emissions from construction and operations were estimated following the *Air Toxics Hot Spots Program Risk Assessment Guidelines* developed by the OEHHA within the California Environmental Protection Agency (OEHHA, 2015). The methodology of the 2025 OEHHA guidance is described in detail below. In general, the assumptions used in the guidance are very conservative because in addition to assuming all receptors begin their exposure to project-related toxic contaminants prior to birth (i.e., third trimester in utero) when the individual receives a higher dose of contaminants due to higher breathing rates, the cancer risk assessment assumes that an individual would be located outdoors in the same location and continuously exposed to project-related toxic contaminants for a duration of 30 years, with no consideration of time spent indoors.

The objective of the HRA process is to analyze the potential health risks posed by a project which are expressed in a statistical measure in order to inform the public and decision makers of the potential health effects associated with a project's emissions of TACs. The HRA includes an evaluation of the following types of health effects: individual incremental cancer risk, population cancer burden, and chronic noncancer hazard index (HI).

- Individual incremental cancer risk (referred to hereafter simply as "individual cancer risk") is the additional probability for a person to develop cancer after long-term exposure to individual project-related toxic contaminants. The exposure duration is assumed to be 30 years for a resident or sensitive receptor, and 25 years for an off-site worker. "Incremental" in this context means the added probability that a project would result in an individual to develop cancer after long-term exposure to a toxic contaminant without consideration of background concentrations or cancer risk potential in an area. The project-level incremental individual cancer risk threshold is 10 in one million. The 10 in one million threshold means that no more than ten individuals out of one million people at the same location with the same exposure would develop cancer due to long-term exposure of a given toxic contaminant.
- The individual cancer risk should not be interpreted as the number of people that *will* develop cancer from long-term exposure. Rather, it quantifies the likelihood that annual toxic contaminant concentrations may, or may not, result in an individual's chance of developing cancer if a million people were exposed continuously for a specified duration.
- Population cancer burden is the expected number of additional cancer cases in a population assuming a 70-year exposure duration to a project-related individual cancer risk equal to or greater than one in a million. This assumes that the population would be exposed to BIG contaminants continuously for 70 years beginning in the third trimester in utero. This is a conservative assumption because the exposure duration does not consider members of the population beginning their exposure as adults or members of the population being exposed to less than 70 years of BIG operations (i.e., households moving out of the area).
- The chronic noncancer HI (referred to hereafter simply as "chronic HI") is the ratio of annual average TAC concentrations to established Reference Exposure Levels (RELs). The chronic HI quantifies the likelihood that chronic noncancer health effects (e.g., cardiovascular disease, diabetes, and respiratory health illnesses, etc.). A chronic HI below 1.0 indicates that adverse noncancer health effects from long-term exposure are not expected.

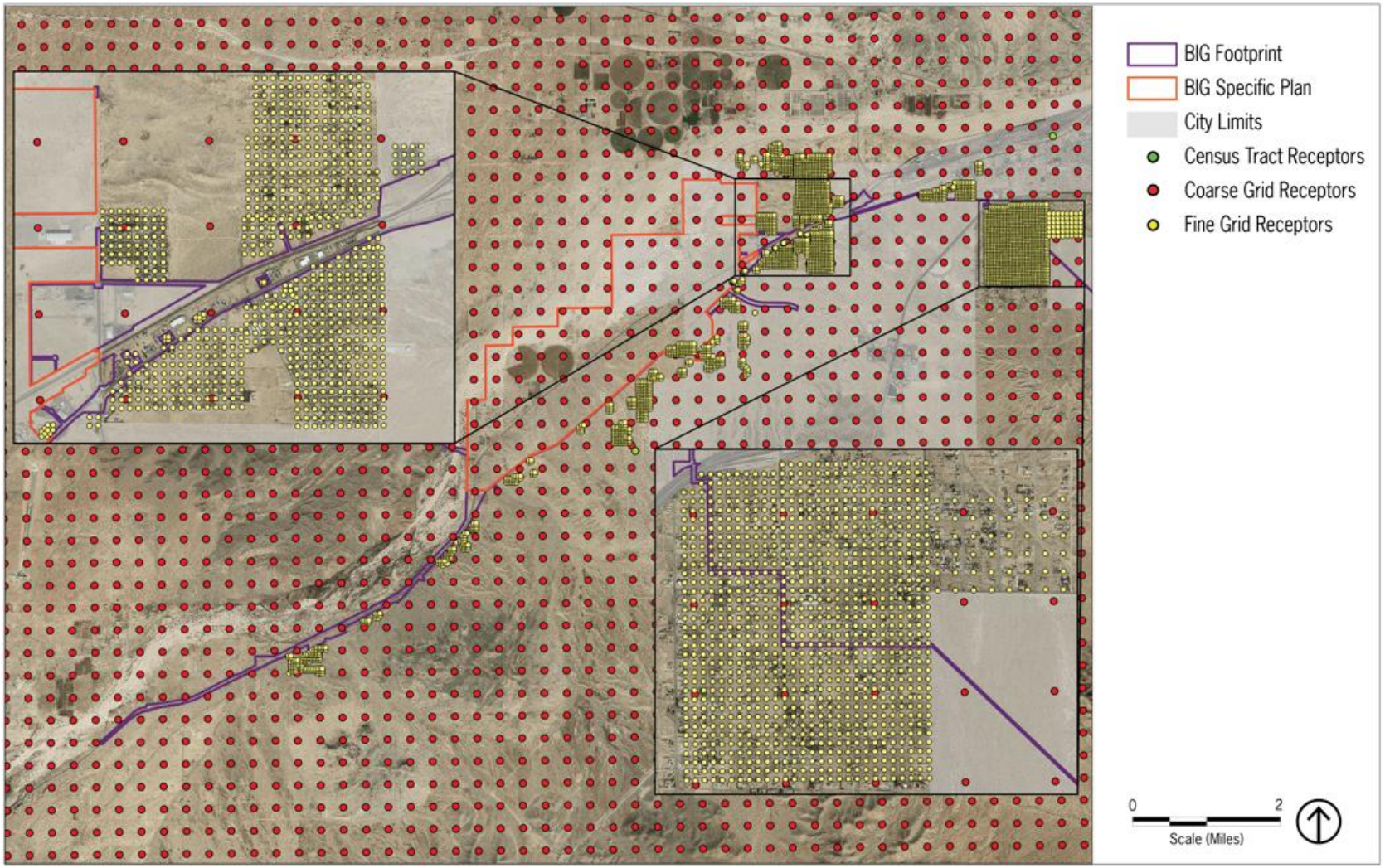
As described above, the on-road vehicle emission factors were derived using EMFAC2021, stationary sources and cargo handling equipment emission factors were derived using OFFROAD, and locomotive emission factors were derived using U.S. EPA *Emissions Factors for Locomotives* (U.S. EPA, 2009). **Table 22: Toxic Air Contaminant Sources** summarizes BIG's TAC sources from construction and operations.

Table 22: Toxic Air Contaminant Sources	
Construction	**Operations**
Off-Road Equipment	On-Site Locomotive Hauling and Idling
Construction Haul Trucks	Diesel Cargo Handling Equipment
Rail Deliveries (Hauling and Idling)	Diesel Heavy Duty Trucks and Transport Refrigeration Units (TRUs)
Movement of earth during grading	
Source: Author Compilation. 2023.	

Receptors

The HRA modeled TAC concentrations and health effects at 6,093 locations (receptors) surrounding BIG (i.e., a minimum distance of 3.5 miles from the BIG footprint), including the locations of potential exposure for residents, offsite workers, and sensitive members of the public. Sensitive receptor locations include schools, child-care centers, elder care facilities, hospitals, and recreational areas; see **Table 27.** A receptor grid with 50-meter spacing was used over sensitive receptor locations; see **Figure 8: BIG Centroid, Coarse, and Fine Receptor Grids** below. It should be noted that MDAQMD does not provide guidance for dispersion modeling; therefore, the South Coast AQMD's receptor grid spacing was used (South Coast AQMD, ND). South Coast AQMD-recommended grid spacing ensures that impacts to surrounding areas can be accurately identified (South Coast AQMD, ND).

Figure 8: BIG Centroid, Coarse, and Fine Receptor Grids



Source: *AERMOD*
Note: Sources are shown for illustration purposes and are not to scale.

Risk and Hazard Assessment

***Cancer Risk*.** Based on OEHHA methodology, residential inhalation cancer risk from annual average concentrations is calculated by multiplying the daily inhalation dose, cancer potency factor, age sensitivity factor (ASF), frequency of time spent at home, and exposure duration divided by averaging time, yielding the excess cancer risk. These factors are discussed in more detail below. Exposure through inhalation (Dose-air) is a function of breathing rate, exposure frequency, and concentration of substance in the air. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration (OEHHA, 2015, equation 5.4.1.1, p. 5-24):

$$\text{Dose-air} = C_{air} * (BR/BW) * A * EF * 10^{-6}$$

Dose-air = dose through inhalation (mg/kg/day)

C_{air} = air concentration (µg/m^3) from air dispersion model

(BR/BW) = daily breathing rate normalized to body weight (L/kg bodyweight-day)

A = inhalation absorption factor (unitless)

EF = exposure frequency (approximately 350 days per year for residential)

10^{-6} = conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to consider the increased sensitivity to carcinogens during early-life exposure. In the absence of chemical-specific data, OEHHA recommends default ASFs presented in **Table 23: Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates**. Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home. OEHHA recommends the FAH values presented in **Table 23**.

Table 23: Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates

Age	Exposure Frequency (days/year)	Exposure Duration (years)	Age Sensitivity Factor[1] (ASF)	Fraction of Time at Home (FAH)	Daily Breathing Rate (L/kg BW-day[2])
Residential					
Third trimester in utero	350	0.25	10	85%	361
0 to 2 years	350	2	10	85%	1,090
Ages 2 through 8 years	350	7	3	72%	631
Ages 9 through 15 years	350	7	3	72%	571
Ages 16 and greater	350	14	1	73%	261
Worker[3]	250	25	1	N/A	230
Student[3]	180	9	3	N/A	640

Notes:
[1] Accounts for potential increased sensitivity to carcinogens during childhood.
[2] Daily breathing rate normalized to body weight (L/kg body weight - day) (95th percentile for 3rd trimester to 2 years and 80th percentile for other age groups).
[3] Worker and Student breathing rates are 95th percentile 8-hour breathing rates based on moderate intensity activity.

Source: California Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Program, Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments.

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only) (OEHHA, 2015, equation 8.2.4 A, p. 8-7):

$$Risk_{inh\text{-}res} = (Dose_{air}*CPF*ASF*(ED/AT)*FAH)$$

$Risk_{inh\text{-}res}$ = residential inhalation cancer risk (potential chances per million)

$Dose_{air}$ = daily dose through inhalation (mg/kg-day)

CPF = inhalation cancer potency factor ($mg/kg\text{-}day^{-1}$)

ASF = age sensitivity factor for a specified age group (unitless)

ED = exposure duration (years)

AT = averaging time of lifetime cancer risk (years)

FAH = fraction of time spent at home (unitless)

It is important to note the following conservative modeling assumptions: exposure duration is based on continual heavy-duty truck operation along nearby roadways while the majority of heavy-duty truck activity along roadways would occur during daytime hours, exposure of residential receptors begin during the third trimester in utero while that may only represent a fraction of the population in the surrounding area, and receptors would be located outdoors in the same location and continuously exposed to toxic contaminants for a duration of 30-years without consideration of time spent indoors.

Pollutant emissions rates from contaminated soil were calculated by determining the daily amount of pollutant released, using the volume and density of contaminated soil, the dust release rate, and pollutant concentration, normalized by the total mass of disturbed soil. Emission rates for each of the pollutants by site was calculated using the following formula:

$$Emission\ rate_p = (cy_{is}*BD*DR_{ts}*C)/m_{ts}$$

Emission $Rate_p$ = milligrams of pollutant excavated per Phase II ESA site per day (mg_p/day)

Cy_{is} = cubic yards of impacted soil per Phase II ESA site (cy)

BD = Bulk Density of the soil (kg/cy)

DR_{ts} = Rate of total dust release by Phase II ESA site(kg/day)

C = Concentration of pollutant from Phase II ESA (mg/kg)

m_{ts} = mass of the total soil disturbed per Phase II ESA site (kg)

Calculation of the emission rates at each of the Phase II ESA sites and the Mainline Reconstruction required specific conservative assumptions including the total cubic yards disturbed on the BIG footprint, the size each Phase II ESA site was impacted by pollutants, the depth of excavation required in the BIG Footprint, the presence of naturally occurring metals on sites, and the width of excavation for rail track

removal. Further, the calculation conservatively assumes that 100 percent of the VOCs and SVOCs would volatilize into the air once exposed during excavation. A list of the assumptions are shown below.

- BIG construction would disturb approximately 26,000,000 cubic yards of soil over a 5,000-acre area. The average depth of excavation in the BIG footprint would be 6 feet.
- The acres impacted by detectable pollutants at each of the Phase II ESA sites was estimated based on the site history, site images, and boring locations. Any site less than two acres was conservatively assumed to be 100 percent impacted by the pollutants detectable in the Phase II ESA.
- The Phase II ESA sites were categorized into two project areas, the intermodal facility area and the transload warehouse area, based on their locations. PM release from each of the Phase II ESA sites was estimated by the weighting of each individual site within their respective categorized area and multiplying it by the construction fugitive dust PM emissions rates calculated for the intermodal facility or transload warehouse area. PM emissions for the intermodal facility and transload warehouse areas were taken from the grading, trenching, bulldozing, truck loading, debris loading, and paved-unpaved roads emission calculations. See Appendix A for more information regarding the construction assumptions and modeled emissions.
- Naturally occurring metals that were non-detectable in the Phase II ESA would innately be present in the excavated material. The naturally occurring metals (arsenic, beryllium, and cadmium) emission rates were conservatively calculated using the threshold for detection of the metal shown in the Phase II ESAs.25.
- The volume of impacted soil excavated for the Mainline Reconstruction was calculated using the line source modeled in AERMOD, which assumed a length of 106,285 feet, a 10-foot width on each side (total 20 feet), and a 6-foot depth as described above.
- PM emission rates for the Mainline Reconstruction were scaled proportionally from the grading, trenching, bulldozing, truck loading, debris loading, and paved-unpaved roads emission calculations for the block swap area of BIG. The PM emission rates are shown in **Appendix A.**
- Mainline Reconstruction concentrations for the metals, VOCs, and SVOCs during were derived from the threshold for detection listed in the Phase II ESAs. The pollutants metals, VOCs, and SVOCs included in Mainline Reconstruction are the same pollutants detected and analyzed in the Phase II ESAs.

Chronic Non-Cancer Hazard. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer risk (OEHHA, 2015, p. 8-20):

$$\text{Hazard Quotient} = C_i/REL_i$$

C_i = concentration in the air of substance i (annual average concentration in $\mu g/m^3$)

REL_i = chronic noncancer REL for substance ($\mu g/m^3$)

[25] Using the threshold for detection as the baseline for the naturally occurring metal calculation is conservative as the metal concentrations must be below the threshold level of detection. In reality, concentrations of the metals would be lower than the threshold of detection.

Health Risk Computation. This analysis examines project impacts resulting from BIG construction and operations from the commencement of construction in 2025 for a 30-year exposure duration for sensitive/residential receptors, 25-year exposure duration for worker receptors, and 9-year exposure duration for school-site student receptors, consistent with current OEHHA guidance. Because cancerous health risks result from long exposure periods, construction health risk and operational health risk are analyzed both separately and combined. The separate construction health risk analysis uses an exposure duration of the construction period (i.e., 2.8-years) with a third trimester in utero start age. The construction only, operations only, and combined exposure durations are shown in **Table 24: Exposure Durations for Combined Risk Scenario**.

Table 24: Exposure Durations for Combined Risk Scenario

Risk Scenario		Exposure Duration (Years)		
		Construction Only Risk Scenario	Operational Only Risk Scenario	Combined Scenario (Construction followed by Operations)
Residential Receptors	Construction	2.8	-	2.8
	Operations	-	30	30
	Total	***2.8***	***27.2***	***30***
Worker Receptors	Construction	2.8	-	2.8
	Operations	-	25	25
	Total	***2.8***	***22.2***	***25***
Student Receptors	Construction	2.8	-	2.8
	Operations	-	9	9
	Total	***2.8***	***6.2***	***9***

Source: California Office of Environmental Health Hazard Assessment. (2015). Air Toxics Hot Spot Program, Risk Assessment Guidelines, Guidance Manual for the Preparation of Health Risk Assessments, p. 4-15.

The HRA was used to evaluate potential health impacts to offsite sensitive populations from TACs generated by construction and operations. Methodologies applicable to BIG's size, as specified in the Air Toxics Hot Spots Program Risk Assessment Guidelines, were used to perform health risk calculations based on output from the AERMOD dispersion model (OEHHA, 2015). The HRA was combined for both construction and operations. The cancer risk estimates are based on a 95th percentile breathing rate 3rd trimester to 2 years and 80th percentile for other age groups, which OEHHA and CARB identify as providing health-protective estimates of exposure and risk for residential receptors (OEHHA, 2015, p. 5-23 and CARB 2015, p. 35).

For health effects resulting from long-term exposure, CARB considers diesel PM as representative of the total health risks associated with the combustion of diesel fuel. The three principal health effect endpoints evaluated are individual lifetime cancer risk, chronic non-cancer effects, and acute non-cancer effects. Maximum predicted health risk values in the communities near BIG were compared to the maximum individual lifetime cancer risk threshold of 10 in one million.

Chronic and acute non-cancer effects are evaluated by calculating an HI. The HI is the sum of individual acute or chronic hazard quotients calculated for each substance. A hazard quotient is the estimated

ground level concentration of a TAC divided by the REL. RELs are developed by OEHHA and represent the concentration of a TAC at or below the ground level concentration at which no adverse health effects are expected. A chronic non-cancer HI below 1.0, or an acute HI below 1.0 indicates that adverse non-cancer health effects from long-term or short-term exposure, respectively, are not expected. For evaluation of acute non-cancer health effects, the one-hour maximum average air concentration of each TAC over the period of assumed exposure is used. Conservatively, the acute exposure concentration was selected as the maximum average concentration from any single hourly period during BIG construction and operation. For evaluation of chronic non-cancer health effects, this analysis used a similarly conservative approach in that the exposure level over the entire exposure duration for each exposure scenario is assumed to be the maximum annual average concentration of each TAC for any single year over the period of exposure.

***Population Cancer Burden*.** Population cancer burden is defined by OEHHA as an estimate of the number of cancer cases expected from a 70-year exposure to emissions (OEHHA, 2015, p. 8-1). Whereas individual cancer risk represents the probability of a single exposed person to develop cancer, population cancer burden estimates the number of individuals that would be expected to develop cancer by multiplying the cancer risk (calculated using the conservative assumptions discussed above) by the exposed population. OEHHA notes that an estimate of the number of people exposed at various cancer risk levels can provide perspective on the magnitude of the potential public health threat posed by a facility. This approach provides a much easier way for the general public to interpret results when compared to cancer burden estimates (Ibid, p. 8-16).

The exposed population is defined as the number of persons within a facility's zone of impact, which is typically the area exposed to an incremental cancer risk of one in a million from BIG. Consistent with this definition, cancer burden was calculated by first identifying all population census tracts[26] within BIG's zone of impact, multiplying the estimated incremental BIG cancer risk impact in the census tract by the population of the census tract and then summing all of products of population times estimated cancer risk in the zone of impact. Note that each census tract contributes to the cancer burden in proportion to its population and risk. For example, if a census tract has a relatively high estimated cancer risk, but no people living there, it will not contribute to the estimation of the cancer burden. The cancer burden was calculated assuming a 70-year exposure duration along with the appropriate exposure frequency, daily breathing rates, age sensitivity factors, and time at home factors appropriate to each age group (OEHHA, 2015). A cancer burden greater than 0.5 is considered a significant cancer impact.[27]

4.5 Odors

BIG's construction and operational odors are qualitatively evaluated based on the anticipated activity and distance to sensitive receptors. The MDAQMD regulates odors through Rule 402 (Nuisance). Rule 402 prohibits the discharge from any source of air contaminants or other material in such quantities which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public,

[26] A census tract is a geographic region defined for the purpose of taking a census. These regions typically coincide with the limits of cities, towns, or other administrative areas. Each tract has a unique numeric code. The census tract centroid is the geographic center of the tract based on a weighted distribution of the population within the tract using the census blocks that comprise the tract. A census block is the smallest geographic unit used to tabulate population and each tract can be comprised of several blocks.

[27] The cancer burden threshold in MDAQMD Rule 1520 (Control of Toxic Air Contaminants from Existing Sources) is used for this analysis as MDAQMD does not have a cancer burden CEQA threshold.

or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. Typical land uses that generate odors include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding.

4.6 Valley Fever

Coccidioidomycosis, more commonly known as Valley Fever, is primarily a disease of the lungs caused by the spores of the *Coccidioides immitis* fungus. The spores can occur naturally in some soils and there is the potential that spores could be stirred up during excavation, grading, and earth-moving activities and inhaled into the lungs.

Valley Fever is endemic to the southwestern U.S., so fugitive dust emissions from a project could cause exposure to the spores. Reduction of the potential for exposure to dust and the spores can be accomplished by providing dust control, training, job hazard assessments, and personal protective respiratory equipment when appropriate. The County is not considered a highly endemic region for Valley Fever. A report prepared by the California Department of Public Health identified that only 263 of the 9,280 suspect, probable, and confirmed annual cases of coccidioidomycosis recorded for California in 2023 (through December 2023) occurred in the County (CDPH, 2023).

The purpose of the Valley Fever analysis conducted for a project is to provide information regarding potential public health hazards related to exposure to Coccidioides spores and contracting Valley Fever. The analysis qualitatively evaluates how the project could complicate a possible environmental condition of the site that has the potential to affect people's health. State CEQA Guidelines Appendix G does not present significance thresholds for potential to contract reportable diseases such as Valley Fever, and neither has the MDAQMD developed such significance guidelines. The analysis presents relevant background information regarding Valley Fever, potential for the project to result in the exposure of onsite workers, nearby residents, and visitors to potential health hazards, and identifies measures to reduce potential exposure.

4.7 Asbestos

Asbestos minerals occur in rock and soil as the result of natural geologic processes, often in veins near earthquake faults in the coastal ranges and the foothills of the Sierra Nevada Mountains and other areas of California. NOA takes the form of long, thin, flexible, separable fibers. Natural weathering or human disturbance can break NOA down to microscopic fibers that are easily suspended in air. When inhaled, these thin fibers irritate tissues and resist the body's natural defenses. In addition, asbestos-containing materials may have been used in older buildings within BIG that would be demolished.

Asbestos is a known human carcinogen. It causes cancers of the lung and the lining of internal organs, as well as asbestosis and pleural disease that inhibit lung function. The U.S. EPA is working to address concerns about the potential impacts of NOA in several California areas. The California Geological Survey identifies ultramafic rocks in California to be the source of NOA. The California Geological Survey published *A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally*

Occurring Asbestos (California Department of Conservation, 2000). This study was used to determine if NOA would be within the BIG footprint.

4.8 Consistency with Air Quality Plans

A project would result in significant impacts if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable MDAQMD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Consistency with growth forecasts can be established by demonstrating that the project is consistent with the land use plan that was used to generate the growth forecast. An example of a project that is not consistent would be one that increases the gross number of dwelling units, increases the number of trips, or increases the overall VMT in an affected area (relative to the applicable land use plan).

4.9 Cumulative Effects

The MDAB is the study area for cumulative air quality effects. This represents the geographic limit for cumulative air quality since air emissions have a regional effect. Regionally, past, present, and foreseeable projects would contribute to increases in vehicle travel from long-term growth thereby worsening air quality. Cumulative growth in population, vehicle trips, and industrial activity could inhibit efforts to improve regional air quality and attain the NAAQS and CAAQS.

The MDAQMD's thresholds of significance analyze both direct and cumulative impacts. The MDAQMD *CEQA and Federal Conformity Guidelines* (CEQA Guidelines) state that cumulative impacts are similar to a project's direct and indirect impacts (MDAQMD, 2020, p. 8). A given project has a cumulative impact with all other related projects, from the standpoint of each type of impact (cumulative construction emissions, area sources, solvent use, transportation emissions, congestion, etc.). The MDAQMD does not have separate thresholds for cumulative impacts and uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or environmental impact report (EIR). The MDAQMD considers projects that exceed the project-specific significance thresholds to be cumulatively considerable, thus, project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed project-specific thresholds are generally not considered to be cumulatively considerable.

4.10 Laws, Ordinances, and Regulations

Laws, Ordinances, and Regulations (LORs) are existing requirements that are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review. Typical LORs include compliance with the provisions of the Building Code, MDAQMD Rules, etc. The City may impose additional conditions during the approval process, as appropriate. Because LORs are neither BIG specific nor a result of development of BIG, they are not considered to be mitigation measures. These measures are considered part of the unmitigated project.

LOR AQ-1 Prior to the issuance of grading permits, the City Engineer shall confirm that the Grading Plan, Building Plans and Specifications require all construction contractors to comply with

MDAQMD's Rule 403 to minimize construction emissions of dust and particulates. The measures in the plans/specifications include, but are not limited to, the following:

- Minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.
- A person shall not cause or allow particulate matter to exceed 100 micrograms per cubic meter when determined as the difference between upwind and downwind samples collected on high volume samplers at the property line for a minimum of five hours.
- Prevent visible particulate matter from being deposited upon public roadways as a direct result of their operations. Reasonable precautions shall include, but are not limited to:
  - Remove particulate matter from offroad equipment prior to movement on paved streets or the prompt removal of any material from paved streets onto which such material has been deposited.
  - Use periodic watering for short-term stabilization of Disturbed Surface Area to minimize visible fugitive dust emissions. Use of a water truck to maintain moist disturbed surfaces and actively spread water during visible dusting episodes shall be considered sufficient to maintain compliance.
  - Take actions sufficient to prevent project-related track-outs onto paved surfaces.
  - Cover loaded haul vehicles while operating on publicly maintained paved surfaces.
  - Stabilize graded site surfaces upon completion of grading when subsequent development is delayed or expected to be delayed more than thirty days, except when such a delay is due to precipitation that dampens the disturbed surface sufficiently to eliminate Visible Fugitive Dust emissions.
  - Clean-up project-related Track-outs or spills on Publicly Maintained paved surfaces within twenty-four hours.
  - Reduce non-essential Earth-Moving Activity under High Wind conditions. For purposes of this Rule, a reduction in Earth-Moving Activity when visible dusting occurs from moist and dry surfaces due to wind erosion shall be considered sufficient to maintain compliance.
  - Prepare and submit to the MDAQMD, prior to commencing Earth-Moving Activity, a dust control plan that describes all applicable dust control measures that will be implemented at the project.
  - Provide Stabilized access route(s) to the project site as soon as is feasible.
  - Maintain natural topography to the extent possible.
  - Construct parking lots and paved roads first, where feasible; and
  - Construct upwind portions of project first, where feasible.
  - The Owner or Operator of a site undergoing weed abatement activity shall not disrupt the soil crust to the extent that Visible Fugitive Dust is created due to wind erosion.

LOR AQ-2 Pursuant to MDAQMD Rule 1113, the Applicant shall require by contract specifications that the interior and exterior architectural coatings products used have a volatile organic compound rating of 50 grams per liter or less.

LOR AQ-3 The Applicant shall ensure contractors post signs and train personnel on compliance with California Code of Regulations (CCR), Title 13, § 2449 requiring applicable diesel powered construction equipment idling to be limited to five minutes, except in circumstances when the limit does not apply (e.g., when queuing).

LOR AQ-4 BIG shall be designed in accordance with the applicable California Code of Regulations Title 24 (California Building Standards Code) Energy Efficiency Standards for Nonresidential Buildings (CCR, Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods. The City of Barstow Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (§ 110.10) require buildings to be designed to have 15 percent of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.

LOR AQ-5 BIG shall be designed in accordance with the applicable California Green Building Standards (CALGreen) Code (24 CCR, Part 11). The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. These requirements include, but are not limited to:

- Design buildings to be water-efficient. Install water-efficient fixtures in accordance with California Green Building Standards Code Part 11, § 5.303.
- Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with California Green Building Standards Code Part 11, § 5.408.1.
- Provide storage areas for recyclables and green waste and adequate recycling containers located in readily accessible areas in accordance with California Green Building Standards Code Part 11, § 5.410.
- To facilitate future installation of electric vehicle supply equipment (EVSE), construction shall comply with California Green Building Standards Code Part 11, § 5.106.5.3 (nonresidential electric vehicle charging).

5.0 ENVIRONMENTAL SETTING

Air quality and dispersion of air pollution in an area is determined by such natural factors as topography, meteorology, climate, and atmospheric stability. In addition, man-made influences such as development patterns and lifestyles can affect the generation of and exposure to air borne pollutants. These factors are described in more detail below.

5.1 Topography

As described above, the BIG footprint is in the MDAB. The MDAB includes the desert portion of Los Angeles and San Bernardino Counties, the eastern desert portion of Kern County, and the northeastern desert portion of Riverside County. The MDAQMD has jurisdiction over stationary sources of air pollution within the County's High Desert and Riverside County's Palo Verde Valley, which includes the BIG footprint.

The MDAB is bound in the northwest by the Tehachapi Mountains, in the southwest by the San Gabriel Mountains, and in the south by the San Bernardino Mountains. To the north, the MDAB is defined by the San Bernardino-Inyo County boundary, to the northeast the California-Nevada state line, and to the east by the Colorado River (MDAQMD, ND). The San Gabriel and San Bernardino Mountains are high and rugged, with the highest peaks being 10,066 feet above sea level (Mt. San Antonio) and 11,503 feet (Mt. San Gorgonio), respectively. The MDAB generally lies at 3,000 to 6,000 feet elevation.

The Mojave Desert is situated in a transitional zone between the Great Basin Desert to the north and the Sonoran Desert to the south (mainly between 34 and 38°N latitudes) (Desert U.S.A., ND). The area is primarily a rain-shadow desert, meaning it experiences little rainfall because it is sheltered from prevailing rain-bearing winds (i.e., off the Pacific Ocean) by a range of mountains.

5.2 Climate and Meteorology

Air basins typically also share similar meteorological conditions. The MDAB's climatic conditions are very arid with moderate winters, with mean maximum temperatures in the 60s and lows in the 30s, and hot summers with mean maximum temperatures in July and August exceeding 100°F. The average rainfall in the BIG footprint is 4.1 inches annually.

The MDAB's weather patterns are generally influenced by moderately intense, anticyclonic circulation (associated with high pressure systems). In summer, a large subtropical high-pressure system off the coast of California keeps the MDAB sunny and dry; however, the presence of a thermal low-pressure area above the Mojave Desert causes atmospheric transport from the Los Angeles Basin. During the winter months, the strength of the Pacific high-pressure area decreases, and 20 to 30 frontal systems may pass through the area annually. Some of these frontal systems are sufficiently strong enough to produce rain in the area. The most substantial large-scale phenomena affecting the Basin's air quality are the transport winds from the south and the west. These winds are responsible for bringing O_3 and other pollutants through the mountain passes from the Los Angeles Basin and the San Joaquin Valley. Photochemical O_3 modeling conducted by the South Coast AQMD and CARB indicates that the MDAB would be in attainment of both standards without the influence of this transported air pollution from upwind regions (MDAQMD, 2023, p. 4). Additionally, the three stations closest to the MDAB, the source of the majority of transported O_3

and O_3 precursors, have the highest historical O_3 concentrations: Phelan, Hesperia and the Joshua Tree National Monument. The more distant or isolated stations (Barstow) have lower concentrations.

5.3 Air Pollutants of Concern

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by federal and state laws. These regulated air pollutants are known as "criteria air pollutants" and are categorized into primary and secondary pollutants.

Primary air pollutants are emitted directly from sources. CO, ROG, NO_X, SO_2, PM_{10}, $PM_{2.5}$, and Pb are primary air pollutants. ROG and NO_X are criteria pollutant precursors and form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. For example, the criteria pollutant O_3 is formed by a chemical reaction between ROG and NO_X in the presence of sunlight. O_3 and NO_2 are the principal secondary pollutants. Sources and health effects commonly associated with criteria pollutants are summarized in **Table 25: Air Contaminants and Associated Public Health Concerns**.

Table 25: Air Contaminants and Associated Public Health Concerns

Pollutant	Major Man-Made Sources	Human Health and Environmental Effects
Particulate Matter (PM_{10} and $PM_{2.5}$)	Power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles and others.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; asthma; chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility.
Ozone (O_3)	Formed by a chemical reaction between reactive organic gases/volatile organic compounds (ROG or VOC)[1] and nitrogen oxides (NO_X) in the presence of sunlight. Motor vehicle exhaust industrial emissions, gasoline storage and transport, solvents, paints and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield.
Sulfur Dioxide (SO_2)	A colorless gas formed when fuel containing sulfur is burned and when gasoline is extracted from oil. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid which can damage marble, iron and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.

Table 25: Air Contaminants and Associated Public Health Concerns		
Pollutant	**Major Man-Made Sources**	**Human Health and Environmental Effects**
Nitrogen Dioxide (NO_2)	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates heart and lung problems. Can aggravate respiratory diseases, particularly asthma, leading to respiratory symptoms (such as coughing, wheezing or difficulty breathing), hospital admissions and visits to emergency rooms. Precursor to O_3. Contributes to global warming and nutrient overloading which deteriorates water quality. Causes brown discoloration of the atmosphere.
Lead (Pb)	Pb is a metal found naturally in the environment as well as in manufactured products. The major sources of Pb emissions have historically been motor vehicles (such as cars and heavy-duty trucks) and industrial sources. Due to the phase out of leaded gasoline, metals processing is the major source of Pb emissions to the air today. The highest levels of Pb in air are generally found near Pb smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufacturers.	Exposure to Pb occurs mainly through inhalation of air and ingestion of Pb in food, water, soil, or dust. It accumulates in the blood, bones, and soft tissues and can adversely affect the kidneys, liver, nervous system, and other organs. Excessive exposure to Pb may cause neurological impairments such as seizures, mental retardation, and behavioral disorders. Even at low doses, Pb exposure is associated with damage to the nervous systems of fetuses and young children, resulting in learning deficits and lowered IQ.
Note: [1] Volatile Organic Compounds (VOCs or Reactive Organic Gases [ROG]) are hydrocarbons/organic gases that are formed solely of hydrogen and carbon. There are several subsets of organic gases including ROGs and VOCs. Both ROGs and VOCs are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. The major sources of hydrocarbons are combustion engine exhaust, oil refineries, and oil-fueled power plants; other common sources are petroleum fuels, solvents, dry cleaning solutions, and paint (via evaporation).		
Source: United Staes Environmental Protection Agency (U.S. EPA). ND. *Criteria Air Pollutants*. https://www.epa.gov/criteria-air-pollutants.		

Valley Fever

Coccidioidomycosis, more commonly known as “Valley Fever,” is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern U.S. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline, sandy soils. The County is not considered a highly endemic region for Valley Fever as the latest report from the California Department of Public Health identified that 2.8 percent of the suspect, probable, and confirmed annual cases of coccidioidomycosis recorded for California in 2023 (through December 2023) occurred in the County (CDPH, 2023).

Toxic Air Contaminants

TACs are airborne substances that can cause short-term (acute) or long-term (i.e., chronic, carcinogenic, or cancer causing) adverse human health effects (i.e. injury or illness). TACs include both organic and inorganic chemical substances. They may be emitted from a variety of common sources including gasoline stations, automobiles, dry cleaners, industrial operations, and painting operations. The current California

list of TACs includes more than 200 compounds, including particulate emissions from diesel-fueled engines.

CARB identified DPM as a TAC. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of particles and gases produced when an engine burns diesel fuel. DPM is a concern because it causes lung cancer; many compounds found in diesel exhaust are carcinogenic. DPM includes the particle-phase constituents in diesel exhaust. The chemical composition and particle sizes of DPM vary between different engine types (heavy-duty, light-duty), engine operating conditions (idle, accelerate, decelerate), fuel formulations (high/low sulfur fuel), and the year of the engine. Some short-term (acute) effects of diesel exhaust include eye, nose, throat, and lung irritation, and diesel exhaust can cause coughs, headaches, light-headedness, and nausea. DPM poses the greatest health risk among the TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Due to their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung. DPM is the primary TAC of concern for the health risk impact analysis contained herein because it is the most potent TAC emitted from diesel exhaust and includes hundreds of chemicals. Therefore, although DPM is a subset of PM_{10} exhaust, this analysis conservatively assumes all PM_{10} exhaust emissions are DPM.[28]

Contaminated soil is an environmental and public health concern, particularly at sites undergoing cleanup or redevelopment. When soil contains hazardous substances (e.g., Pb, arsenic, petroleum hydrocarbons, or VOCs, it may pose human health risks through direct contact, ingestion of dust or vapors, or through leaching into groundwater. The primary pollutants of concern have cancer potency factors or chronic/ acute hazards and were derived from the results of the Phase II Environmental Site Assessments (ESAs) sites within the BIG footprint and OEHHA's 2009 Technical Support Document for Cancer Potency Factors.[29] These pollutants were present at detectable levels at one or more of the Phase II ESA sites and have a Cancer Potency Factor assigned to them by *Appendix A of OEHHA's 2009 Technical Support Document for Cancer Potency Factors*. These pollutants additionally have a REL assigned to them by *Appendix A, B, and C of OEHHA's 2015 Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments.* The REL is defined as the concentration at which no adverse non-cancer health

[28] More than 90 percent of DPM is less than 1 um in diameter and is a subset of PM2.5 and PM2.5 comprises a portion of PM10. Thus, assuming PM10 as the surrogate for DPM constitutes a conservative analysis. Source: CARB. ND. *Inhalable Particulate Matter and Health (PM2.5 and PM10)*.https://ww2.arb.ca.gov/resources/inhalable-particulate-matter-and-health#:~:text=Fine%20particulate%20matter%20is%20defined,comprises%20a%20portion%20of%20PM10. CAPCOA and CARB. 2024 (July). *Non-Vehicular Diesel Engine Risk Assessment Guidance*. https://ww2.arb.ca.gov/sites/default/files/classic/ab2588/2024%20DICE%20Screening%20Risk%20Guidelines.pdf.

[29] Review of the federal, state, and local records, including a proprietary records summary provided by Environmental Data Resources, Inc. (EDR), a third-party provider of environmental and land use records, showed more than 100 listed properties within the respective American Society for Testing and Materials (ASTM) standard search distances for each database which varied between 0.25 miles and 1.0 miles. Most of these listed properties were reviewed and removed as they did not have the potential to create a significant hazard to the public or the environment based on the type of listing, information provided for the listing, gradient, and/or the distance between the listed property and the BIG footprint. However, the PG&E Hinkley Chromium Cleanup (PG&E Hinkley) site, a well-known and high-profile site involving contamination of groundwater by hexavalent chromium is located approximately between two to seven miles north, northeast, or northwest of the site (i.e., north of the Mojave River). Generally, the hexavalent chromium contamination from the PG&E Hinkley site has impacted groundwater in the area and PG&E provides drinking water to residents in the area surrounding the PG&E Hinkley site. There are ongoing remediation and groundwater monitoring programs, and an extensive amount of information is publicly available online. Recent plume maps and information can be reviewed here: https://hinkleygroundwater.com/site-information/groundwater-monitoring-and-plume-maps/. Review of the latest plume maps indicates that the groundwater flow direction in the PG&E Hinkley site is northerly, i.e., away from BIG. As a result, it does not appear that the PG&E Hinkley site has or would impact BIG.

effects are anticipated with acute, 8-hour, or chronic exposure to the pollutant. Pollutants of concern include the following:

- Arsenic
- Beryllium
- Cadmium
- Cobalt
- Pb
- Nickel
- Benzene
- Chloroform
- Naphthalene
- Ethylbenzene
- Methylene Chloride
- Benzo(a)pyrene
- Benso(b)fluoranthene
- Bis(2-ethylexyl)phthalate

Existing Pollution Burden

According to CalEnviroScreen, the BIG footprint and the surrounding residences are in Census Tract 6071011800, which is within the 62nd percentile (OEHHA, 2023). CalEnviroScreen uses environmental, health, and socioeconomic information to produce percentile scores for every census tract in the State. Each census tract receives scores for as many as 21 indicators (such as air quality emissions, children's Pb risk from housing, drinking water contaminants, pesticide use, toxic releases from facilities, traffic impacts, among others). For each indicator, the scores are put in order from highest to lowest. An area with a high score is one that experiences a higher pollution burden than areas with low scores. As noted above, CalEnviroScreen scores are not an expression of health risk, and do not provide quantitative information on increases in cumulative impacts for specific sites or projects. Further, as a comparative screening tool, the results do not provide a basis for determining when differences between scores are significant in relation to public health or the environment.

Senate Bill 535

Based on OEHHA mapping, the BIG footprint is adjacent to SB 535 designated disadvantaged communities in Census Tracts 6071009400, 6071009500, 6071011700, and 6071011900 (OEHHA, 2022). As noted above, SB 535 prioritizes AB 32 cap-and-trade program funds to projects that provide a benefit to disadvantaged communities as identified by the OEHHA mapping. SB 535 does not include project specific requirements or prohibit developments in proximity to a designated community.

Ambient Air Quality

CARB monitors ambient air quality at approximately 250 air monitoring stations across the State. These stations usually measure pollutant concentrations ten feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The Barstow Monitoring Station is the closest to the BIG footprint. This station monitors O_3, CO, NO_2, and PM_{10}, but not $PM_{2.5}$. $PM_{2.5}$ data is collected at the Victorville Monitoring Station, which is the next closest monitoring station to the BIG footprint. Local air quality data from 2022 to 2024 are provided in **Table 26: Ambient Air Quality Data** which lists the monitored maximum concentrations and number of exceedances of state or federal air quality standards for each year.

Table 26: Ambient Air Quality Data			
Criteria Pollutant	**2022**	**2023**	**2024**
Ozone (O_3) [1, 2, 3]			
1-hour Maximum Concentration (ppm)	0.095	0.085	0.092
8-hour Maximum Concentration (ppm)	0.084	0.077	0.082
Number of Days Standard Exceeded			
CAAQS 1-hour (>0.09 ppm)	1	0	0
NAAQS 8-hour (>0.070 ppm)	13	16	24
Nitrogen Dioxide (NO_2) [1, 2, 3]			
1-hour Maximum Concentration (ppm)	0.060	0.060	0.062
Number of Days Standard Exceeded			
NAAQS 1-hour (>0.100 ppm)	0	0	0
CAAQS 1-hour (>0.18 ppm)	0	0	0
Particulate Matter Less Than 10 Microns (PM_{10}) [1, 2, 3]			
National 24-hour Maximum Concentration	225.1	318.7	102.8
State 24-hour Maximum Concentration	*	*	*
State Annual Average Concentration (CAAQS=20 µg/m^3)	*	*	*
Number of Days Standard Exceeded			
NAAQS 24-hour (>150 µg/m^3)	6	3	0
CAAQS 24-hour (>50 µg/m^3)	*	*	*
Particulate Matter Less Than 2.5 Microns ($PM_{2.5}$) [1, 2, 4]			
National 24-hour Maximum Concentration	24.6	25.6	40.7
State 24-hour Maximum Concentration	24.6	25.6	40.7
Number of Days Standard Exceeded			
NAAQS 24-hour (>35 µg/m^3)	0	0	1

Notes:
* Insufficient (or no) data available to determine the value.
[1] NAAQS = National Ambient Air Quality Standards; CAAQS = California Ambient Air Quality Standards; ppm = parts per million.
[2] µg/m^3 = micrograms per cubic meter; – = not measured, * = insufficient data available
[3] Measurements taken at the Barstow Monitoring Station at 301 E. Mountain View Street, Barstow, California 92311 (CARB# 36155)
[4] Measurements taken at the Victorville-Park Avenue Monitoring Station at 14306 Park Avenue, Victorville, California 92392 (CARB# 92392), which is the closet monitoring station that measures $PM_{2.5}$.

Sources: All pollutant measurements are from the CARB Aerometric Data Analysis and Management system database *except for CO, which were retrieved from the CARB Air Quality and Meteorological Information System*

- California Air Resources Board (CARB). ND. *iADAM: Air Quality Data* Statistics. https://www.arb.ca.gov/adam.
- California Air Resources Board (CARB). ND. Air Quality Data (PST) Query Tool. arb.ca.gov/aqmis2/aqdselect.php.

5.4 Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than the general population. Sensitive receptors that are in proximity to localized sources of toxics are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. The BIG footprint is mainly surrounded land zoned for Rural Living, Resource/Land Management, Public Facility, and Right-of-Way. The sensitive land uses that have been analyzed herein are nearest to BIG are shown in **Figure 9: Sensitive Receptor Locations** and described in **Table 27: Sensitive Receptors**. **Table 27** is a list of sensitive receptors that have been analyzed and not a list of sensitive receptors that necessarily would be impacted.

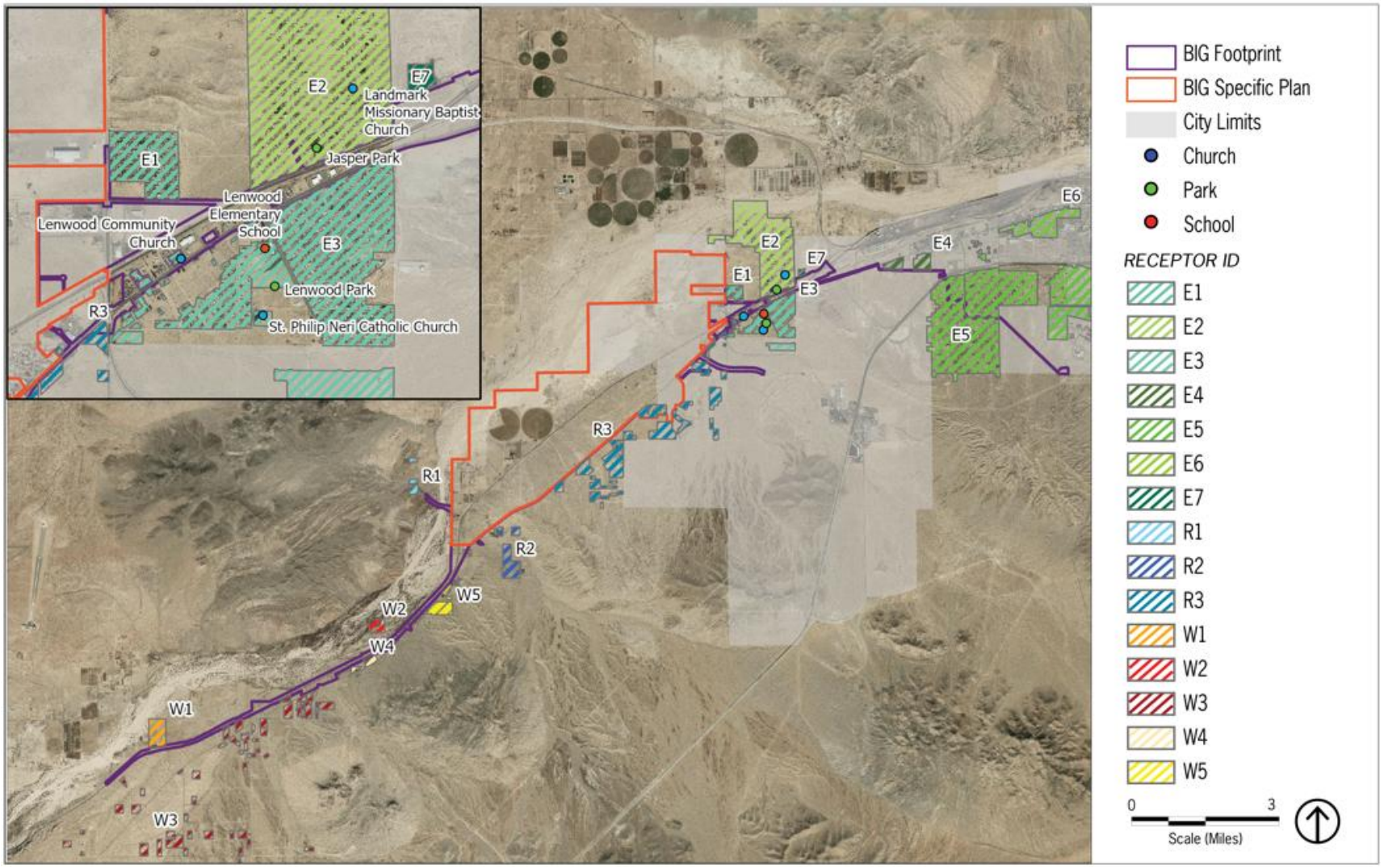
Table 27: Sensitive Receptors

Receptor ID	Receptor Description	Location	Distance and Direction from BIG[1]
RESIDENTIAL RECEPTORS – WEST LEAD RECEPTOR AREA			
W1	Single-Family Residences	Along Indian Trail, approximately 2,500 feet north of National Trails Highway	1,000 feet south
W2	Single-family Residences	Along Indian Trail, northeast of the Indian Trail and Lords Road Intersection	700 feet north
W3	Single-family Residences	Along Main Street, approximately 500 feet west of Hodge Road	240 feet south
W4	Single-family Residences	Along Main Street, approximately 400 feet east of Hodge Road	600 feet south
W5	Single-family Residences	Along Hodge Road, east of the Main Street and Hodge Road intersection	950 feet south
W6	Single-family Residences	Along Main Street, approximately 1,500 feet northeast of Hodge Road	350 feet south
W7	Single-family Residences	Along Main Street, approximately 5,680 feet southwest of Buckboard Road	360 feet southeast
W8	Single-family Residences	Along Main Street, approximately 4,400 feet southwest of Buckboard Road	340 feet southeast
RESIDENTIAL RECEPTORS – BLOCK SWAP/INTERMODAL RECEPTOR AREA			
R1	Single-family Residences	Along Main Street, approximately 1,500 feet north of Buckboard Road	720 feet southeast
R2	Single-family Residences	Along Main Street, approximately 3,000 feet northeast of Buckboard Road	530 feet southeast
R3	Single-family Residences	Along Main Street, approximately 2,400 feet west of Prairie Avenue	500 feet southeast
R4	Single-family Residences	Along Main Street, approximately 2,175 feet west of Prairie Avenue	330 feet southeast
R5	Single-Family Residences	At the intersection of Prairie Avenue and Spinet Street	2,850 feet southeast
R6	Single-family Residences	Along Gazana Street, Approximately 245 feet west of Sylvan Avenue	570 feet southeast
R7	Single-family Residences	Along Amarylis Avenue, approximately 480 feet south of Main Street	570 feet southeast

Table 27: Sensitive Receptors			
Receptor ID	**Receptor Description**	**Location**	**Distance and Direction from BIG[1]**
RESIDENTIAL RECEPTORS – EAST LEAD RECEPTOR AREA			
E1	Single-family Residences	Along Sweeten Lane, approximately 800 feet east of National Trails Highway	1,600 feet southeast
E2	Single-family Residences	Along Main St, approximately west of Sun Valley Drive	760 feet southeast
E3	Single-family Residences	Along Main Street, approximately 1,700 Sun Valley Drive	610 feet southeast
E4	Single-family Residences	Along Main St, approximately 910 feet west of Sun Valley Drive	580 feet southeast
E5	Single-family Residences	At the intersection of Main Street and Holland Street	640 feet southeast
E6	Single-family Residences	Intersection of Main Street and Holland Street	380 feet south
E7	Single-family Residences	Intersection of Jade Road and Walnut Street	4,200 feet north
E8	Single-family Residences	Along Jasper Road, approximately 380 feet west of Birch Road	300 feet north
E9	Single-family Residences	Along Main Street, approximately 200 feet north of Anderson Avenue	440 feet south
E10	Single-family Residences	Southeast of Main Street and Avenue H	9,000 feet southeast
ALONG 33 kV LINE			
T1	Single-family Residences	Surrey Court, North of Surrey Road and Surrey Court	100 feet south
T2	Single-family Residences	Along Rimrock Road, approximately 90 feet east of L Street	120 feet east
T3	Single-family Residences	Along J Street, approximately 80 feet south of Bonanza Road	100 feet south
SCHOOLS			
1	Lenwood Elementary School	Along Ash Road, approximately 500 feet south of Main Street	520 feet southeast
PLACES OF WORSHIP			
2	Landmark Missionary Baptist Church	Along Cedar Road, approximately 530 feet north of Jasper Road	1,080 northeast
3	St. Philip Neri Catholic Church	Along 3rd Street, approximately 400 feet east of Paris Avenue	1,670 feet southeast
4	Lenwood Community Church	Along Main Street, approximately 95 feet west of Woods Avenue	230 feet south
5	Veterans of Foreign Wars	Intersection of Main Street and Frank Street	140 feet south
6	Dollar General	Along Main St, west of Ash Road	125 feet south
PARKS			
7	Jasper Park	Along Jasper Road, approximately 290 feet east of Birch Road	Adjacent to the northeast
8	Lenwood Park	Along Ash Road, approximately 960 feet south of Main Street	960 feet to the southeast

Table 27: Sensitive Receptors			
Receptor ID	**Receptor Description**	**Location**	**Distance and Direction from BIG[1]**
W = West Lead Residential Receptor Area; R = Residential Receptors near the Block Swap and Intermodal Facilities; E = East Lead Residential Receptor Area; T = Along 33 kV Transmission Line			
Note: [1] Distances are measured from the closest sensitive receptor to the closest point of BIG.			
Sources: Google Inc. 2024. *Google Earth Pro*.			

Figure 9: Sensitive Receptor Locations



Source: *AERMOD*
Note: Sources are shown for illustration purposes and are not to scale.

5.5 BIG Footprint Baseline Emissions

The approximately 5,000-acre BIG footprint is in the western part of the City and southwestern part of the County. The BIG footprint is generally bordered by the Mojave River on the north, Historic Main Street (also referred to as National Trails Highway or Route 66) (hereinafter Main Street) on the south, Lenwood Road on the east, and Hinkley Road on the west. As a result of property acquisitions associated with BIG the majority of former residents within the BIG footprint have been relocated and many of the residences have been demolished. To provide a conservative impact analysis, the emissions baseline for BIG is considered to be zero.

However, as described above, the operational train emissions modeling was completed for future years without BIG (2028, 2033, and 2048) to establish future baseline train emissions and analyze incremental emissions increases directly attributable to BIG. Based on that data, use of existing conditions alone would be misleading and without informative value to decision-makers and the public. (See State CEQA Guideline § 15125(a)(2)).

6.0 IMPACT ANALYSIS

6.1 Introduction

This section presents the impact analysis to air quality for BIG. This analysis reviews both the temporary construction phase of BIG and the permanent operation of BIG and the potential for both to directly or indirectly cause potential adverse effects, including the potential to conflict with an air quality plan; result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state AAQS; expose sensitive receptors to substantial pollutant concentrations; and result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. The following are the impact criteria used in this analysis which are consistent with applicable guidance (see Section 3.1). BIG would result in significant impacts if it:

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable state or federal AAQS.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Consistency with AQMPs. MDAQMD requires a consistency evaluation with adopted federal and State AQMPs. Per the MDAQMD CEQA Guidelines, there are two general criteria to determine project consistency with the MDAQMD AQMPs (MDAQMD, 2020). Under the first criteria (Criterion 1), a project is non-conforming if it conflicts with or delays implementation of any applicable attainment or maintenance plan. For the second criteria (Criterion 2), a project is conforming if it complies with all applicable MDAQMD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Conformity with growth forecasts can be established by demonstrating that the project is consistent with the land use plan that was used to generate the growth forecast.

If a project is deemed consistent with the existing land use plan, it is considered consistent with the AQMPs. Zoning changes, specific plans, general plan amendments, and similar land use plan changes that do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled are also deemed to not exceed this threshold (MDAQMD, 2020).

6.2 Impacts

Impact 5.3-1	*Would the project conflict with or obstruct implementation of the applicable air quality plan?*

Per the MDAQMD CEQA and Conformity Guidelines (2020), a project is nonconforming with an air quality plan If it conflicts with or delays implementation of any applicable attainment or maintenance plan (Criterion 1). A project is conforming if it complies with applicable air district rules and regulations,

complies with proposed control measures, and is consistent with the growth forecasts in the applicable plan (Criterion 2).

Criterion 1

As discussed in **Impact 5.3-2**, below, BIG would exceed MDAQMD's construction and operational emissions thresholds. Therefore, a delay in the timely attainment of air quality standards could occur, and BIG's impact is inconsistent with the first criterion.

Criterion 2

MDAQMD Western Mojave Desert AQMP

The BIG footprint is within the MDAB, which is under the jurisdiction of the MDAQMD. The MDAQMD Western Mojave Desert AQMP (2023) is the applicable air quality plan for the BIG footprint. The MDAQMD Western Mojave Desert AQMP contains air pollutant reduction strategies based on growth forecasts, which were defined in consultation with local governments and are based on local general plans; see **Section 2.0.** The BIG footprint's existing land use designations in the CWP consist of Rural Living, Resource/Land Management, Public Facility, and Right-of-Way. The BIG footprint's existing land use designations in the 2015 General Plan consist of General Commercial, General Industrial, Diverse Use, Public/Quasi-Public, and Right-of-Way. BIG includes implementation of a Specific Plan coordinated with the proposed General Plan, which would change the BIG footprint's existing land use designations to Specific Plan. Following the proposed General Plan, BIG would not conflict with any land use plan, policy, or regulation.

As previously mentioned in **Section 2.0**, the MDAQMD has adopted rules to limit air emissions. BIG would comply with the following MDAQMD Rules, as applicable, for regulation of fugitive dust and emissions from fossil fuel combustion:

- Visible Emissions Rule (Rule 401)
- Nuisance Rule (Rule 402)
- Fugitive Dust Rule (Rule 403)
- PM Concentration Rule (Rule 404)
- Solid PM Weight Rule (Rule 405)
- Combustion Contaminants Rule (Rule 409)
- Sulfur Content of Liquid Fuels Rule (Rule 431)
- Architectural Coating Rule (Rule 1113)

BIG implementation would not conflict with the MDAQMD Western Mojave Desert AQMP and would therefore not be inconsistent with the second criterion as a result.

South Coast CAQMD 2022 AQMP

BIG implementation would improve goods movement and supply chain efficiency by transporting more containers by train, thereby reducing truck trips in the SCAB, which is under the jurisdiction of the South

Coast AQMD. The South Coast AQMD identifies goods movement activities as a challenge for cleaning air for the 17 million residents in the SCAB (South Coast AQMD, 2022). The South Coast AQMD's 2022 AQMP includes TCMs and RACMs that BIG would help implement (Ibid, Appendix IV-C-72). Measure 7.19 involves programs (overseen by CARB) to encourage goods movement by rail. Additionally, Measure 7.20 aims to divert trucks from nonattainment areas (i.e., requiring pass-through trucks to choose routes away from the SCAG region). The AQMP notes that there is no authority to implement this measure and that it is not feasible because the whole South Coast region is nonattainment under one or more of the NAAQS. However, within the South Coast AQMD region, BIG would transport more containers with trains instead of heavy-duty trucks to reduce approximately 124,710 heavy-duty truck miles per year (compared to without BIG conditions) in 2028, approximately 158,437 heavy-duty truck miles per year (compared to without BIG conditions) in 2033, and approximately 192,255 heavy-duty truck miles per year (compared to without BIG conditions) in 2048 from regional roadways and associated emissions reductions within the South Coast AQMD. Additional reductions in truck miles and air pollutant emissions would occur throughout California and in other States with BIG implementation. The reduction in regional heavy-duty truck miles within the SCAB compared to without BIG conditions would achieve this measure (**Appendix 5.15 BIG-1**).

SCAG Regional Transportation Plan/Sustainable Communities Strategy (Connect SoCal)

The overarching vision of Connect SoCal includes encouraging implementation of innovative technologies and Intelligent Transportation Systems aimed at expanding accessibility, relieving congestion, and reducing emissions (SCAG, 2024b, p. 8). According to the *Goods Movement Technical Report* of Connect SoCal 2024, the efficient movement of goods is a critical component of a strong economy and improves quality of life in the SCAG region (SCAG, 2024a). By 2050, SCAG anticipates that the goods movement system will include new charging and fueling infrastructure, expanded rail yards, upgrades to the main line railroad tracks, improved port terminals, and heavy-duty truck and freight corridor bottleneck relief projects, including dedicated heavy-duty truck lanes. Per Connect SoCal 2024, as the region continues to grow, the goods movement system will also show significant progress in reducing emissions, including operational efficiencies and the introduction of near-zero and ZE vehicles.

Connect SoCal 2024 is supported by a combination of transportation and land use strategies that outline how the region can achieve California's GHG reduction goals and FCAA requirements. Connect SoCal 2024 also strives to achieve broader regional objectives, such as improved equity and resilience, preservation of natural lands, improvement of public health, increased transportation safety, support for the region's vital goods movement industries, and more efficient use of resources (SCAG, 2024a).

Connect SoCal 2024 subgoals relevant to BIG include supporting investments that result in improved safety and air quality and minimized GHG emissions (Mobility); integrating the region's development pattern and transportation network to improve air quality, reduce GHG emissions, and enable more sustainable use of energy and water (Environment); conserving the region's resources (Environment); improve access to jobs (Economy); and advancing a resilient and efficient goods movement system that supports the economic vitality of the region, attainment of clean air, and quality of life for our communities (Economy) (SCAG, 2024b, p. 85).

Connect SoCal 2024 explains that transportation, especially the goods movement sectors, contributes to the overwhelming majority of air pollutant emissions causing O_3 pollution. As part of the vision for the 2050 horizon year, Connect SoCal states that it is critical to integrate land use decisions and technological advancements to minimize environmental and health impacts while fostering continued growth in trade and commerce. (SCAG, 2024b, p. 112). Infrastructure improvements support greater system efficiency and may reduce emissions. Reducing air quality emissions is addressed through cleaner and more efficient operation of vehicles, largely by modifying or replacing the existing regional fleet of goods movement equipment (e.g., locomotives, cargo handling equipment, ocean going vessels and commercial harbor craft) with cleaner technologies or efficiency operation of vehicles (SCAG, 2024a, p.94).

BIG improves goods movement and supply chain efficiency by transporting more containers with trains within California to reduce heavy-duty truck miles by approximately (compared to without BIG conditions):

- 2028: 58,130,956 heavy-duty truck miles reduced per year in California and 217,824,523 heavy-duty truck miles reduced per year nationally
- 2033: 76,365,405 heavy-duty truck miles reduced per year in California and 286,312,231 heavy-duty truck miles reduced per year nationally (c
- 2048: 89,381,289 heavy-duty truck miles reduced per year in California and 333,123,035 heavy-duty truck miles reduced per year nationally

The reduction in heavy-duty truck miles would result in a GHG emission annual net reduction of approximately:

- 2028: 87,418 metric tons of CO_2 equivalent reduced in California and 325,665 metric tons of CO_2 equivalent reduced nationally
- 2033: 101,088 metric tons of CO_2 equivalent reduced in California and 376,762 metric tons of CO_2 equivalent reduced nationally
- 2048: 100,539 metric tons of CO_2 equivalent reduced in California and 372,416 metric tons of CO_2e reduced nationally

See **Appendix 5.8 BIG-1: Greenhouse Gas Emissions Assessment**) for additional detail on GHG emissions and truck miles traveled reductions. Connect SoCal notes that attaining the national ozone standards in the SCAB will require reductions in emissions of NO_X well beyond reductions resulting from current rules, programs and commercially available technologies. Previous regulations and incentive programs have improved vehicle emissions performance, but as the region grows, existing measures are not enough to realize attainment of the O_3 standards in the 2023- and 2031-time frames. With the projected changes in both heavy-duty truck and rail emissions, greater advancements in technology are needed to meet regional attainment objectives (SCAG, 2024a, p. 62). BIG's reduction in truck trips and improvement in goods movement with ZEs cargo handling equipment (compared to without BIG conditions) help address the regional attainment objectives identified by SCAG.

As discussed in ***Chapter 5.13: Population and Housing***, of the Draft EIR, BIG is estimated to generate approximately 16,0000 direct, indirect, and induced jobs by the year 2048, accounting for the 92 jobs associated with the existing commercial and industrial uses to be displaced. In 2021, the County's civilian

labor force had 937,085 employed persons (U.S. Census Bureau, ND). By the year 2050, SCAG estimates total employment for the County at 1,148,000, for an increase of 210,915 jobs by 2050. The estimated 16,000 new jobs attributable by BIG would be seven percent of the projected increase in jobs within the County by 2050. Thus, BIG would induce growth. However, job growth associated with BIG would be within the projections used to develop the AQMPs.

To accommodate the proposed improvements, BIG would remove approximately 108 dwelling units. Thus, BIG would not generate population growth or cause the population growth projections used in air quality management planning to be exceeded.

Regulatory Setting

The state has developed various regulations, and additional regulations are underway to achieve sustainable freight goals, accelerate the introduction of cleaner technology, and reduce localized emissions. Several of these regulations include:

- The Heavy Truck and Bus rule, passed in 2008, requires that by 2023 nearly all heavy-duty vehicles have engines that are MY 2010 or newer. Drayage trucks must also meet the requirement of having 2010 or newer MY engines under the Drayage Truck Regulation.
  - Trucks registered in California and accessing BIG are required to comply with CARB's Heavy Truck and Bus Rule.
- CARB created an optional low NO_X standard in 2013 to allow certification of lower NO_X engines for use in an incentive program. Additionally, various incentive programs have since funded the deployment of electric, hybrid-electric and near-ZE trucks, and an updated funding plan is under development.
  - The Low NO_X incentive program would also benefit trucks accessing BIG.
- The Clean Transportation Incentive Program invests up to $100 million annually in transportation and fuel transportation projects throughout the state.
  - Trucks accessing BIG would benefit from this incentive program to reduce emissions.
- The Low Carbon Transportation Investments and the Air Quality Improvement Program provide mobile source incentives to reduce GHG, criteria pollutant, and TAC emissions through the deployment of advanced technology and clean transportation in the light-duty and heavy-duty sectors. Low Carbon Transportation Investments are supported by Cap-and-Trade auction proceeds.
  - Low Carbon Transportation Investments would help to reduce truck emissions, including trucks accessing BIG.

Regulations are also being developed for forklifts and cargo handling equipment to transition to ZEs (CARB, NDc). BIG operations would benefit from the implementation of current and potential future regulations (e.g., improvements in vehicle emissions, low NO_X standard, Clean Transportation Incentive Program, Low Carbon Transportation Investments, the Air Quality Improvement Program, etc.) enacted to improve goods movement and reduce emissions.

For the reasons above, BIG would be inconsistent with Criterion 1 but consistent with Criterion 2.

Mitigation Measures: Refer to **Section 6.0: Mitigation Measures** for **MM BIG AQ-1** through **MM BIG AQ-14**.

Impact 5.3-2	***Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable state or federal ambient air quality standard?***

6.3 Construction

BIG construction would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within BIG include O_3-precursor pollutants (i.e., ROG and NO_X) and PM_{10} and $PM_{2.5}$. Construction-generated emissions are short-term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the amount of pollutants generated exceeds the MDAQMD's thresholds of significance.

Construction results in the temporary generation of emissions resulting from demolition, site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Maximum daily construction-generated emissions for BIG are summarized in **Table 28: Unmitigated Construction Emissions (pounds per day)** and **Table 29: Unmitigated Construction Emissions (Tons per Year)** and can also be found in **Appendix A**.

Table 28: Unmitigated Construction Emissions (pounds per day)

Construction Year	Pollutant (Maximum Pounds per Day)[1]					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
UNMITIGATED EMISSIONS						
2025 Off-Road Equipment Exhaust	364	3,036	2,900	8	128	118
2025 Fugitive Dust	-	-	-	-	2,556	803
2025 On-Road Mobile Sources	21	149	329	2	13	5
Total Peak Day 2025	**385**	**3,186**	**3,228**	**10**	**2,696**	**926**
2026 Off-Road Equipment Exhaust	726	6,163	5,792	15	266	244
2026 Fugitive Dust	-	-	-	-	4,624	2,045
2026 On-Road Mobile Sources	30	338	446	4	27	12
2026 Train Material Deliveries	22	584	142	1	13	13
2026 Paving and Architectural Coatings	163	-	-	-	-	-
2026 Asphalt Batching	43	86	1,223	14	320	25
Total Peak Day 2026	**984**	**7,170**	**7,603**	**34**	**5,251**	**2,339**
2027 Off-Road Equipment Exhaust	125	919	1,012	3	38	35
2027 Fugitive Dust	-	-	-	-	2,694	550
2027 On-Road Mobile Sources	18	207	267	2	17	7
2027 Paving and Architectural Coatings	808	-	-	-	-	-
Total Peak Day 2027	**951**	**1,126**	**1,279**	**5**	**2,749**	**592**
2028 Off-Road Equipment Exhaust	54	115	134	0.29	25	23
2028 Fugitive Dust	-	-	-	-	448	92

Table 28: Unmitigated Construction Emissions (pounds per day)						
Construction Year	**Pollutant (Maximum Pounds per Day)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2028 On-Road Mobile Sources	17	207	225	2	17	7
Total Peak Day 2028	**71**	**322**	**358**	**2**	**490**	**123**
Maximum Total Peak Day	***984***	***7,170***	***7,603***	***34***	***5,251***	***2,339***
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Threshold Exceeded Without Mitigation?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**Yes**

VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less.

Notes:

[1] MDAQMD Rule 403 Fugitive Dust applied. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; cover stockpiles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the South Coast Air Quality Management District CEQA Handbook (Tables XI-A through XI-E) were applied.

Sources: Refer to **Appendix A1**

Table 29: Unmitigated Construction Emissions (Tons per Year)						
Construction Year	**Pollutant (Tons per Year)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
UNMITIGATED EMISSIONS						
2025 Off-Road Equipment Exhaust	15	125	120	0.32	5	5
2025 Fugitive Dust	-	-	-	-	146	72
2025 On-Road Mobile Sources	1	5	13	0.07	1	0.23
Total 2025	**16**	**130**	**133**	**0.39**	**151**	**77**
2026 Off-Road Equipment Exhaust	49	391	385	1	17	16
2026 Fugitive Dust	-	-	-	-	675	258
2026 On-Road Mobile Sources	4	38	52	0.44	3	1
2026 Train Material Deliveries	2	64	16	0.06	1	1
2026 Paving and Architectural Coatings	0.08	-	-	-	-	-
2026 Asphalt Batching	5	10	143	2	37	3
Total 2026	**60**	**504**	**596**	**3**	**734**	**280**
2027 Off-Road Equipment Exhaust	13	80	87	0.23	5	4
2027 Fugitive Dust	-	-	-	-	229	62
2027 On-Road Mobile Sources	2	22	22	0.24	2	1
2027 Paving and Architectural Coatings	105	-	-	-	-	-
Total 2027	**120**	**102**	**109**	**0.47**	**235**	**67**
2028 Off-Road Equipment Exhaust	4	8	9	0.02	2	2
2028 Fugitive Dust	-	-	-	-	30	6
2028 On-Road Mobile Sources	0.24	2	3	0.02	0.17	0.07
Total 2028	**4**	**10**	**12**	**0.04**	**32**	**8**
Maximum Total Annual	***120***	***504***	***596***	***3***	***734***	***280***
MDAQMD Threshold	*25*	*25*	*100*	*25*	*15*	*12*
Threshold Exceeded Without Mitigation?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**Yes**

VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less.

Table 29: Unmitigated Construction Emissions (Tons per Year)						
Construction Year	Pollutant (Tons per Year)[1]					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
[1] MDAQMD Rule 403 Fugitive Dust applied. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; cover stockpiles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the South Coast Air Quality Management District CEQA Handbook (Tables XI-A through XI-E) were applied.						
Sources: *Refer to* ***Appendix A1***						

Table 28 and **Table 29** show that unmitigated construction emissions would exceed the MDAQMD VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ construction thresholds despite compliance with applicable laws, ordinances, and regulations (LORs) LOR AQ-1, LOR AQ-2, and LOR AQ-3; see **Laws, Regulations, and Orders** above. The majority of emissions occur from off-road equipment exhaust. Additionally, VOC emissions occur from architectural coating and paving activities. BIG would also be required to comply with the following mitigation measures to lower construction emissions. Mitigation Measure (**MM) BIG AQ-1** requires controls for fugitive dust emissions and **MM BIG AQ-2** requires all architectural coatings to be super-compliant low VOC paints, consisting of no more than 10 grams per liter of VOC. **MM BIG AQ-3** requires construction equipment to meet CARB Tier 4 Final emissions standards and **MM BIG AQ-4** requires the use of renewable diesel fuel during construction. Furthermore, **MM BIG AQ-5** requires on-road construction trucks to have an average fleet mix of MY 2010 or newer (no less than the average fleet mix for the current calendar year as set forth in the EMFAC2021 database) and **MM BIG AQ-6** requires emissions controls for concrete batch plants such as reduction of fugitive dust. The mitigation measures are described below in **Section 7.0**.

Mitigated Construction emissions are shown in **Table 30: Mitigated Construction Emissions (pounds per day)** and **Table 31: Mitigated Construction Emissions (Tons per Year)**. Despite the implementation of mitigation measures, due to the size of BIG, emissions would remain above MDAQMD's thresholds; refer to **Table 8**. Construction impacts would be significant and unavoidable despite the implementation of **MM BIG AQ-1** through **MM BIG AQ-6**.

Table 30: Mitigated Construction Emissions (Pounds per Day)						
Construction Year	Pollutant (Maximum Pounds per Day)[1,2]					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
MITIGATED EMISSIONS						
2025 Off-Road Equipment Exhaust	336	2,258	2,900	8	67	58
2025 Fugitive Dust	-	-	-	-	839	286
2025 On-Road Mobile Sources	21	149	329	2	13	5
Total Peak Day 2025	**357**	**2,408**	**3,228**	**10**	**919**	**349**
2026 Off-Road Equipment Exhaust	655	4,179	5,791	15	129	110
2026 Fugitive Dust	-	-	-	-	1,394	743
2026 On-Road Mobile Sources	30	338	446	4	27	12
2026 Train Material Deliveries	22	584	142	1	13	13
2026 Paving and Architectural Coatings	163	-	-	-	-	-
2026 Asphalt Batching	43	86	1,223	14	320	25
Total Peak Day 2026	**913**	**5,187**	**7,601**	**34**	**1,883**	**902**

Table 30: Mitigated Construction Emissions (Pounds per Day)						
Construction Year	**Pollutant (Maximum Pounds per Day)[1, 2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2027 Off-Road Equipment Exhaust	115	548	1,010	3	17	13
2027 Fugitive Dust	-	-	-	-	755	181
2027 On-Road Mobile Sources	18	207	267	2	17	7
2027 Paving and Architectural Coatings	161	-	-	-	-	-
Total Peak Day 2027	**294**	**755**	**1,277**	**5**	**788**	**201**
2028 Off-Road Equipment Exhaust	54	65	134	0.29	16	15
2028 Fugitive Dust	-	-	-	-	123	28
2028 On-Road Mobile Sources	17	207	225	2	17	7
Total Peak Day 2028	**71**	**272**	**358**	**2**	**156**	**50**
Maximum Total Peak Day	***913***	***5,187***	***7,601***	***34***	***1,883***	***902***
MDAQMD Threshold	137	137	548	137	82	65
Threshold Exceeded With Mitigation?	***Yes***	***Yes***	***Yes***	***No***	***Yes***	***Yes***

VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less.

Notes:

[1] MDAQMD Rule 403 Fugitive Dust applied prior to mitigation. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; cover stockpiles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the South Coast Air Quality Management District CEQA Handbook (Tables XI-A through XI-E) were applied.

[2] Mitigation includes the incorporation of **MM BIG AQ-1** (dust control), **MM BIG AQ-2** (architectural coatings), **MM BIG AQ-3** (Tier 4 equipment), **MM BIG AQ-4** (renewable diesel fuel), **MM BIG AQ-5** (on-road construction vehicles), and **MM BIG AQ-6** (concrete batch plants).

Sources: Refer to **Appendix A1**

Table 31: Mitigated Construction Emissions (Tons per Year)						
Construction Year	**Pollutant (Tons per Year)[1, 2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
UNMITIGATED EMISSIONS						
2025 Off-Road Equipment Exhaust	14	86	120	0.32	3	2
2025 Fugitive Dust	-	-	-	-	46	26
2025 On-Road Mobile Sources	1	5	13	0.07	1	0
Total 2025	**15**	**92**	**133**	**0.39**	**49**	**29**
2026 Off-Road Equipment Exhaust	44	261	384	1	8	7
2026 Fugitive Dust	-	-	-	-	172	55
2026 On-Road Mobile Sources	4	38	52	0.44	3	1
2026 Train Material Deliveries	2	64	16	0.06	1	1
2026 Paving and Architectural Coatings	0.08	-	-	-	-	-
2026 Asphalt Batching	5	10	143	2	37	3
Total 2026	**56**	**374**	**596**	**3**	**222**	**68**
2027 Off-Road Equipment Exhaust	12	41	87	0.23	2	2
2027 Fugitive Dust	-	-	-	-	85	21
2027 On-Road Mobile Sources	2	22	22	0.24	2	1
2027 Paving and Architectural Coatings	21	-	-	-	-	-
Total 2027	**35**	**63**	**109**	**0.47**	**89**	**24**

Table 31: Mitigated Construction Emissions (Tons per Year)						
Construction Year	**Pollutant (Tons per Year)[1, 2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2028 Off-Road Equipment Exhaust	4	4	9	0.02	1	1
2028 Fugitive Dust	-	-	-	-	8	2
2028 On-Road Mobile Sources	0.24	2	3	0.02	0.17	0.07
Total 2028	**4**	**6**	**12**	**0.04**	**10**	**3**
Maximum Total Annual	***56***	***374***	***596***	***3***	***222***	***68***
MDAQMD Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Threshold Exceeded Without Mitigation?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**Yes**
VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less.						
Notes: [1] MDAQMD Rule 403 Fugitive Dust applied prior to mitigation. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; cover stockpiles with tarps; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the South Coast Air Quality Management District CEQA Handbook (Tables XI-A through XI-E) were applied. [2] Mitigation includes the incorporation of **MM BIG AQ-1** (dust control), **MM BIG AQ-2** (architectural coatings), **MM BIG AQ-3** (Tier 4 equipment), **MM BIG AQ-4** (renewable diesel fuel), **MM BIG AQ-5** (on-road construction vehicles), and **MM BIG AQ-6** (concrete batch plants).						
Sources: Refer to **Appendix A1**						

6.4 Operations

Unmitigated Operations

BIG's operational emissions would be associated with area sources (e.g., landscape maintenance equipment, architectural coatings, off-road equipment, etc.), energy sources, mobile sources (i.e., motor vehicle use), and off-road equipment. The major contributors of operational emissions are heavy-duty trucks, line-haul locomotives, switcher locomotives, and non-electric cargo-handling equipment (e.g., chassis stackers, and maintenance equipment). BIG includes a dedicated fleet of Tier 4 locomotives to transport cross-dock intermodal containers from the Ports to BIG's intermodal facility, Tier 4 switcher locomotives, the retirement of all existing switcher locomotives at the existing Barstow classification yard and the addition of six Tier 4 switcher locomotives[30], increasing the renewable diesel composition within the Port's existing fueling site, the use of electric cargo handling equipment (i.e., electric RTG cranes, chassis stacking forklifts, forklifts, top pick/side loaders, and electric hostlers), and the use of all-electric appliances and end uses instead of natural gas.

In addition, future year operational emissions are influenced by various regulations and agreements that would reduce operational emissions from heavy-duty trucks, including continued implementation of CARB regulations such as the In-Use Off-Road Diesel Vehicle Rule, Emission Standard for On-road Trucks, and the CARB Statewide Truck and Bus Regulation. These regulations are factored into CARB's EMFAC 2021 projections used for the on-road mobile source analysis. Unmitigated BIG operational emissions within the MDAB are summarized in **Table 32: Unmitigated Net Operational Emissions within MDAQMD (Pounds per Day)** and **Table 33: Unmitigated Net Operational Emissions within MDAQMD (Tons per**

[30] Only six Tier 4 switcher locomotives are needed to fully replace the 15 existing Tier 0/0+/1+ switcher locomotives due to improved reliability, advanced traction control, and better power/improved torque with Tier 4 switchers.

Year). BIG operational emissions within the SCAB are summarized in **Table 34: Unmitigated Net Operational Emissions within SCAB (Tons per Year)**.

Table 32: Unmitigated Net Operational Emissions within MDAQMD (Pounds per Day)						
Source	**Pollutant (Maximum Pounds per Day)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2028 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	52	1,518	383	1	32	31
Mainline (With BIG)	30	887	249	1	18	18
Net Mainline (Through BIG)	*-22*	*-631*	*-134*	*-0.46*	*-14*	*-13*
BIG Lead Tracks	9	261	74	0.26	5	5
BIG Block Swap Yard	15	338	66	0.23	9	9
BIG Intermodal Facility	0.70	20	5	0.02	0.42	0.41
BIG Maintenance	4	27	4	0.01	0.98	0.95
Locomotives Within BIG Footprint Subtotal	***6***	***15***	***15***	***0.06***	***2***	***2***
Mobile Sources						
Passenger Cars	*41*	*38*	*721*	*2*	*90*	*23*
Trucks	1	120	33	1	59	17
Onsite Dust – Passenger Cars[2]	-	-	-	-	4	0.91
Onsite Dust – Trucks/Equipment[2]	-	-	-	-	7	2
Equipment Exhaust	143	551	2,280	3	20	20
Area Sources	256	1	72	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
Total BIG Footprint Emissions	***448***	***724***	***3,121***	***7***	***182***	***65***
Reduced TMT Emissions (MDAB Only)[3]	-1	-120	-29	-1	-74	-21
Rail Corridor Emissions – No BIG (within MDAB)	1,915	48,806	12,310	43	1,020	990
Rail Corridor Emissions - With BIG (within MDAB)	2,001	51,217	12,984	46	1,061	1,029
Net Rail Corridor Emissions Change (within MDAB)[4]	86	2,412	675	3	40	39
2028 Total BIG Operational Emissions	***533***	***3,016***	***3,767***	***8***	***148***	***83***
Existing Barstow Yard Switcher Replacement	-131	-821	-53	-0.26	-39	-38
Net 2028 Emissions	***403***	***2,195***	***3,715***	***8***	***109***	***45***
MDAQMD Threshold	***137***	***137***	***548***	***137***	***82***	***65***
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
2033 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	54	1,601	423	1	33	32
Mainline (With BIG)	30	899	271	0.96	18	17
Net Mainline (Through BIG)	*-23*	*-702*	*-152*	*-0.53*	*-15*	*-14*
BIG Lead Tracks	9	275	84	0.30	5	5
BIG Block Swap Yard	16	366	73	0.26	10	10
BIG Intermodal Facility	0.86	26	7	0.02	0.52	0.50

Table 32: Unmitigated Net Operational Emissions within MDAQMD (Pounds per Day)						
Source	**Pollutant (Maximum Pounds per Day)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
BIG Maintenance	4	27	4	0.01	0.98	0.96
Locomotives Within BIG Footprint Subtotal	6	-7	15	0	2	2
Mobile Sources						
Passenger Cars	43	34	758	3	17	6
Trucks	2	128	33	1	14	6
On-site Dust – Passenger Cars[2]	-	-	-	-	5	1
On-site Dust – Trucks/Equipment[2]	-	-	-	-	9	2
Equipment Exhaust	150	557	2,282	3	2	20
Area Sources	256	1	72	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	456	713	3,160	7	48	37
Reduced TMT Emissions (MDAB Only)[3]	-1	-125	-27	-1	-77	-22
Rail Corridor Emissions – No BIG (within MDAB)	1,924	49,997	13,214	47	1,015	985
Rail Corridor Emissions - With BIG (within MDAB)	2,036	53,122	14,131	50	1,068	1,036
Net Rail Corridor Emissions Change (within MDAB)[4]	112	3,125	917	4	53	51
2033 Total BIG Operational Emissions	**567**	**3,713**	**4,051**	**9**	**24**	**67**
Existing Barstow Yard Switcher Replacement	-131	-821	-53	0	-39	-38
Net 2033 Emissions	**436**	**2,896**	**3,994**	**9**	**-81**	**13**
MDAQMD Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**No**	**No**
2048 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	53	1,704	529	2	31	30
Mainline (With BIG)	31	1,002	348	1	18	17
Net Mainline (Through BIG)	***-21***	***-702***	***-181***	***-0.63***	***-13***	***-13***
BIG Lead Tracks	9	295	104	0.37	5	5
BIG Block Swap Yard	25	561	110	0.39	16	15
BIG Intermodal Facility	0.69	22	7	0.02	0.40	0.39
BIG Maintenance	5	34	5	0.02	1	1
Locomotives Within BIG Footprint Subtotal	***18***	***211***	***45***	***0.17***	***9***	***9***
Mobile Sources						
Passenger Cars	33	24	701	3	132	34
Trucks	2	132	26	1	92	28
Onsite Dust – Passenger Cars[2]	-	-	-	-	13	4
Onsite Dust – Trucks/Equipment[2]	-	-	-	-	15	4
Equipment Exhaust	156	558	2,286	3	19	19
Area Sources	256	0.62	72	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***465***	***926***	***3,130***	***7***	***281***	***96***

Table 32: Unmitigated Net Operational Emissions within MDAQMD (Pounds per Day)						
Source	**Pollutant (Maximum Pounds per Day)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Reduced TMT Emissions (MDAB Only)[3]	-1	-122	-16	-1	-108	-30
Rail Corridor Emissions – No BIG (within MDAB)	1,919	53,861	16,699	59	969	940
Rail Corridor Emissions - With BIG (within MDAB)	2,016	56,795	17,706	63	1,012	981
Net Rail Corridor Emissions Change (within MDAB)[4]	96	2,934	1,007	4	43	42
2048 Total BIG Operational Emissions	***560***	***3,738***	***4,120***	***10***	***215***	***107***
Existing Barstow Yard Switcher Replacement	-131	-821	-53	-0.26	-39	-38
Net 2048 Emissions	430	2,917	4,067	10	176	70
MDAQMD Threshold	137	137	548	137	82	65
Threshold Exceeded?	Yes	Yes	Yes	No	Yes	Yes

VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less; MDAB = Mojave Desert Air Basin; BIG = Barstow International Gateway; TMT = Truck Miles Traveled; - = Not Applicable

Notes:

[1] Totals may not add up due to rounding.

[2] Includes fugitive dust, break wear, and tire wear from fleet vehicles, onsite passenger cars, heavy-duty trucks, and cargo-handling equipment.

[3] BIG would improve goods movement and supply chain efficiency by transporting more containers with trains to reduce approximately 40,328 TMT per day in 2028, approximately 49,500 TMT per day in 2033, and approximately 59,305 TMT per day in 2048; See **Appendix 5.15 BIG-1: CEQA Assessment – Vehicle Miles Traveled, Active Transportation, and Public Transit Analysis**.

[4] MDAB only Corridor emissions per EnSafe, *BNSF Barstow International Gateway Corridor Emissions Analysis*, October 2025 (Appendix B of this report).

Note that operational train emissions modeling was completed for future years without BIG (2028, 2033, and 2048) to establish future baseline train emissions and analyze incremental emissions increases directly attributable to BIG.

Source: *Refer to* ***Appendix A2*** and ***Appendix B.***

Table 33: Unmitigated Net Operational Emissions within MDAQMD (Tons per Year)						
Source	**Pollutant (Tons per Year)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2028 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	8	245	62	0.22	5	5
Mainline (With BIG)	5	143	40	0.14	3	3
Net Mainline (Through BIG)	*-3*	*-102*	*-22*	*-0.07*	*-2*	*-2*
BIG Lead Tracks	1	42	12	0.04	0.87	0.84
BIG Block Swap Yard	2	55	11	0.04	1	1
BIG Intermodal Facility	0.11	3	1	<0.01	0.07	0.07
BIG Maintenance	1	4	1	<0.01	0.16	0.15
Locomotives Within BIG Footprint Subtotal	***1***	***2***	***3***	***0.01***	***0.38***	***0.36***
Mobile Sources						
Passenger Cars	6	5	96	0.32	16	4
Trucks	0.23	18	5	0.16	11	3
Onsite Dust – Passenger Cars[2]	-	-	-	-	0.67	0.17

Table 33: Unmitigated Net Operational Emissions within MDAQMD (Tons per Year)						
Source	**Pollutant (Tons per Year)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Onsite Dust – Trucks/Equipment[2]	-	-	-	-	1	0.32
Equipment Exhaust	12	42	379	0.54	2	1
Area Sources	47	0.06	6	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***66***	***68***	***489***	***1***	***30***	***9***
Reduced TMT Emissions (MDAB Only)[3]	-0.20	-22	-5	-0.21	-14	-4
Rail Corridor Emissions – No BIG (within MDAB)	309	7,882	1,988	7	165	160
Rail Corridor Emissions - With BIG (within MDAB)	323	8,272	2,097	7	171	166
Net Rail Corridor Emissions Change (within MDAB)[4]	14	389	109	0.44	6	6
2028 Total BIG Operational Emissions	***80***	***435***	***593***	***1***	***23***	***12***
Existing Barstow Yard Switcher Replacement	-24	-150	-10	-0.05	-7	-7
Net 2028 Emissions	***56***	***286***	***583***	***1***	***16***	***5***
MDAQMD Threshold	***25***	***25***	***100***	***25***	***15***	***12***
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
2033 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	9	259	68	0.24	5	5
Mainline (With BIG)	5	145	44	0.16	3	3
Net Mainline (Through BIG)	*-4*	*-113*	*-25*	*-0.09*	*-2*	*-2*
BIG Lead Tracks	1	44	14	0.05	0.89	0.86
BIG Block Swap Yard	3	59	12	0.04	2	2
BIG Intermodal Facility	0.14	4	1	<0.01	0.08	0.08
BIG Maintenance	0.59	4	0.67	<0.01	0.16	0.15
Locomotives Within BIG Footprint Subtotal	***1***	***-1***	***2***	***0.01***	***0.35***	***0.34***
Mobile Sources						
Passenger Cars	5	3	92	0.40	24	6
Trucks	0.28	20	4	0.20	16	5
Onsite Dust – Passenger Cars[2]	-	-	-	-	2	0.62
Onsite Dust – Trucks/Equipment[2]	-	-	-	-	3	0.69
Equipment Exhaust	13	43	380	0.54	2	2
Area Sources	47	0.06	6	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***66***	***65***	***485***	***1***	***47***	***14***
Reduced TMT Emissions (MDAB Only)[3]	-0.21	-23	-5	-0.23	-14	-4
Rail Corridor Emissions – No BIG (within MDAB)	311	8,075	2,134	8	164	159
Rail Corridor Emissions - With BIG (within MDAB)	329	8,579	2,282	8	172	167
Net Rail Corridor Emissions Change (within MDAB)[4]	18	505	148	0.59	9	8

Table 33: Unmitigated Net Operational Emissions within MDAQMD (Tons per Year)						
Source	**Pollutant (Tons per Year)[1]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2033 Total BIG Operational Emissions	***84***	***547***	***628***	***1***	***41***	***18***
Existing Barstow Yard Switcher Replacement	-24	-150	-10	-0.05	-7	-7
Net 2033 Emissions	***60***	***397***	***618***	***1***	***34***	***11***
MDAQMD Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
2048 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	9	275	85	0.30	5	5
Mainline (With BIG)	5	162	56	0.20	3	3
Net Mainline (Through BIG)	*-3*	*-113*	*-29*	*-0.10*	*-2*	*-2*
BIG Lead Tracks	1	48	17	0.06	0.84	0.82
BIG Block Swap Yard	4	91	18	0.06	3	2
BIG Intermodal Facility	0.13	4	1	<0.01	0.07	0.07
BIG Maintenance	0.75	6	0.89	<0.01	0.20	0.19
Locomotives Within BIG Footprint Subtotal	***3***	***35***	***7***	***0.03***	***2***	***1***
Mobile Sources						
Passenger Cars	5	3	92	0.40	24	6
Trucks	0.28	20	4	0.20	16	5
Onsite Dust – Passenger Cars[2]	-	-	-	-	2	0.62
Onsite Dust – Trucks/Equipment[2]	-	-	-	-	3	0.69
Equipment Exhaust	15	44	376	0.54	1	1
Area Sources	47	0.06	6	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***70***	***102***	***486***	***1***	***48***	***15***
Reduced TMT Emissions (MDAB Only)[3]	-0.21	-22	-3	-0.24	-20	-5
Rail Corridor Emissions – No BIG (within MDAB)	310	8,699	2,697	10	156	152
Rail Corridor Emissions - With BIG (within MDAB)	326	9,173	2,860	10	163	159
Net Rail Corridor Emissions Change (within MDAB)[4]	16	474	163	0.65	7	7
2048 Total BIG Operational Emissions	***86***	***553***	***646***	***2***	***35***	***16***
Existing Barstow Yard Switcher Replacement	-24	-150	-10	-0.05	-7	-7
Net 2048 Emissions	***62***	***403***	***636***	***2***	***28***	***9***
MDAQMD Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**

VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less; MDAB = Mojave Desert Air Basin; BIG = Barstow International Gateway; TMT = Truck Miles Traveled; - = Not Applicable

Notes:

[1] Totals may not add up due to rounding.

[2] Includes fugitive dust, break wear, and tire wear from fleet vehicles, onsite passenger cars, heavy-duty trucks, and cargo-handling equipment.

Table 33: Unmitigated Net Operational Emissions within MDAQMD (Tons per Year)						
Source	Pollutant (Tons per Year)[1]					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
[3] BIG would improve goods movement and supply chain efficiency by transporting more containers with trains to reduce approximately 14,719,796 annual TMT in 2028, approximately 18,067,338 annual TMT in 2033, and approximately 21,646,477 annual TMT in 2048; See Appendix 5.15 BIG-1: CEQA Assessment – Vehicle Miles Traveled, Active Transportation, and Public Transit Analysis. [4] MDAB only Corridor emissions per EnSafe, *BNSF Barstow International Gateway* Corridor Emissions Analysis, October 2025 (See Appendix B of this report). Note that operational train emissions modeling was completed for future years without BIG (2028, 2033, and 2048) to establish future baseline train emissions and analyze incremental emissions increases directly attributable to BIG.						
Sources: Refer to ***Appendix A2*** and ***Appendix B.***						

Table 34: Unmitigated Net Operational Emissions within SCAB (Tons per Year)						
Source	Pollutant (tons per year)[1]					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
2028 OPERATIONS						
2028 Rail Corridor Emissions - Without BIG	432	11,008	2,776	10	230	223
2028 Rail Corridor Emissions - With BIG	436	11,118	3,080	11	228	221
Net Rail Corridor Emissions Change (within SCAB)[2]	4	110	303	1	-2	-2
Reduced TMT Emissions (SCAB Only)[3]	-5	-394	-109	-4	-230	-64
Net 2028 Emissions	***-0.83***	***-284***	***195***	***-2***	***-232***	***-66***
SCAQMD Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
2033 OPERATIONS						
2033 Rail Corridor Emissions - Without BIG	435	11,302	2,987	11	229	222
2033 Rail Corridor Emissions - With BIG	442	11,460	3,390	12	228	221
Net Rail Corridor Emissions Change (within SCAB)[2]	7	158	404	2	-2	-2
Reduced TMT Emissions (SCAB Only)[3]	-5	-441	-116	-4	-241	-69
Net 2033 Emissions	***1***	***-283***	***288***	***-3***	***-243***	***-70***
SCAQMD Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
2048 OPERATIONS						
2048 Rail Corridor Emissions – No BIG	435	12,216	3,787	13	220	213
2048 Rail Corridor Emissions - With BIG	446	12,451	4,259	15	220	213
Net Rail Corridor Emissions Change (within SCAB)[2]	11	236	472	2	-0.01	-0.01
Reduced TMT Emissions (SCAB Only)[3]	-6	-425	-82	-4	-352	-97
Net 2048 Emissions	**5**	**-189**	**390**	**-2**	**-352**	**-97**
SCAQMD Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_X = Sulfur Oxides; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less; SCAB = South Coast Air Basin; BIG = Barstow International Gateway; TMT = Truck Miles Traveled; - = Not Applicable						
Notes: [1] Totals may not add up due to rounding.						

Table 34: Unmitigated Net Operational Emissions within SCAB (Tons per Year)						
Source	Pollutant (tons per year)[1]					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
[2] BIG would improve goods movement and supply chain efficiency by transporting more containers with trains to reduce approximately 124,710 TMT per day in 2028, approximately 163,607 TMT per day in 2033, and approximately 192,255 TMT per day in 2048; See Appendix 5.15 BIG-1: CEQA Assessment – Vehicle Miles Traveled, Active Transportation, and Public Transit Analysis. [3] SCAB only Corridor emissions per EnSafe, *BNSF Barstow International Gateway Corridor Emissions Analysis*, October 2025.						
Sources: Refer to ***Appendix A2*** and ***Appendix B***						

As shown in **Table 34,** emissions within SCAB would be below applicable thresholds. Therefore, no mitigation is required.

Regional Emissions Improvements and Pollutant Transport

As discussed above, BIG improves goods movement and supply chain efficiency by transporting more containers by train to eliminate approximately 1,715 daily truck trips in 2028, 2,270 daily truck trips in 2033, and 2,635 daily truck trips in 2048; see **Appendix 5.15 BIG-1, Table 19**. BIG is anticipated to reduce truck miles traveled by increasing the use of trains for cargo transportation and by providing an intermodal facility closer to unit origin than currently exists. Under existing conditions, cargo arrives at the Ports on container ships in 40-foot international containers, which are then placed onto heavy-duty trucks and transported to local warehouses. The cargo is then transferred from the 40-foot international containers to 53-foot domestic containers, which are trucked back to rail yards, transloaded onto trains, and transported generally easterly to their final destination. The transloading results in a significant number of truck trips and associated criteria pollutant and GHG emissions primarily within the MDAQMD region.

Prevailing winds transport O_3 and O_3 precursors from the SCAB and the San Joaquin Valley Air Basin into and through the MDAB. As noted in the MDAQMD 2023 O_3 Attainment Plan, due to meteorological and terrain effects, the air flow and transport of emissions from the SCAB is the major source of O_3 pollution in Western MD (MDAQMD, 2023, p. 4).

Furthermore, the MDAQMD 2023 O_3 Attainment Plan also notes that the current and new NO_X emission reduction commitments from CARB, South Coast AQMD, and the San Joaquin APCD will drive O_3 concentrations down even further for the future years within the MDAB. In 2020 NO_X emissions decreased by up to 20 percent due to the additional NO_x emission reductions caused by the pandemic, resulting in a 0-2 parts per billion decrease in O_3 (MDAQMD, 2023, p. D-23). This suggests that NO_x emission control strategies in upwind areas such as SCAB and the San Joaquin Valley are expected to be effective in reducing O_3 levels in future years. As such, emissions improvements from TMT reductions and train operations improvements compared to without BIG conditions in the SCAB would also improve emissions within the western portion of the MDAB by reducing the amount of pollutants transported into the MDAB.

Mitigated Operations

Table 32 and **Table 33: Unmitigated Net Operational Emissions within MDAQMD (Tons per Year)** shows the unmitigated operational emissions would exceed the MDAQMD VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ thresholds. The majority of emissions occur from locomotives, heavy-duty trucks, equipment exhaust, and fugitive dust. **MM BIG AQ-7** requires sweeping of paved areas to reduce fugitive dust. According to the

WRAP Fugitive Dust Handbook, an 86 percent sweeping efficiency and a 14-day frequency can result in a PM_{10} control efficiency of seven percent (Environmental, 2006).

To reduce exhaust emissions, **MM BIG AQ-8** requires RTG cranes to use renewable diesel. **MM BIG AQ-9** through **MM BIG AQ-14** require various measures to reduce BIG transload warehouse-related operational emissions. For example, **MM BIG AQ-9** includes truck idling limits, **MM BIG AQ-10** requires Tier 4 emergency backup generators, and **MM BIG AQ-11** and **MM BIG AQ-13** require truck efficiency measures such as compliance with CARB's Carl Moyer Efficiency Program and U.S. EPA's Smart Way Program. **MM AQ-13** would further reduce emissions by requiring electric landscaping equipment. To support future technologies, **MM BIG AQ-14** requires future EV charging infrastructure.

BIG's mitigated operational emissions are shown in **Table 35: Mitigated Operational Emissions within MDAB (Pounds per Day)** and **Table 36: Mitigated Operational Emissions within MDAB (Tons per Year)**. The mitigation measures are described below in **Section 7.0**.

Table 35: Mitigated Operational Emissions within MDAB (Pounds per Day)

Source	Pollutant (Maximum Pounds per Day)[1, 2]					
	VOC	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
2028 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	52	1,518	383	1	32	31
Mainline (With BIG)	30	887	249	1	18	18
Net Mainline (Through BIG)	-22	-631	-134	-0.46	-14	-13
BIG Lead Tracks	9	261	74	0.26	5	5
BIG Block Swap Yard	15	338	66	0.23	9	9
BIG Intermodal Facility	0.69	20	5	0.02	0.42	0.41
BIG Maintenance	4	27	4	0.01	0.98	0.95
Locomotives Within BIG Footprint Subtotal	***6***	***15***	***15***	***0.06***	***2***	***2***
Mobile Sources						
Passenger Cars	41	38	721	2	90	23
Trucks	1	120	33	1	59	17
On-site Dust – Passenger Cars[3]	-	-	-	-	4	0.91
On-site Dust – Trucks/Equipment[3]	-	-	-	-	7	1.91
Equipment Exhaust	37	75	244	0.48	2	2
Area Sources	207	<0.01	<0.01	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***294***	***247***	***1,013***	***4***	***165***	***48***
Reduced TMT Emissions (MDAB Only)[4]	-1.10	-120	-29	-1	-74	-21
Rail Corridor Emissions - No BIG (within MDAB)	1,915	48,806	12,310	43	1,020	990
Rail Corridor Emissions - With BIG (within MDAB)	2,001	51,217	12,984	46	1,061	1,029
Net Rail Corridor Emissions Change (MDAB Only)[5]	86	2,412	675	3	40	39
2028 Total BIG Operational Emissions	***379***	***2,539***	***1,659***	***5***	***131***	***66***

Table 35: Mitigated Operational Emissions within MDAB (Pounds per Day)						
Source	**Pollutant (Maximum Pounds per Day)[1,2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Existing Barstow Yard Switcher Replacement	-131	-821	-53	-0.26	-39	-38
Net 2028 Emissions	***248***	***1,719***	***1,606***	***5***	***92***	***28***
MDAQMD Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
2033 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	54	1,601	423	1	33	32
Mainline (With BIG)	30	899	271	1	18	17
Net Mainline (Through BIG)	*-23*	*-703*	*-152*	*-0.53*	*-15*	*-14*
BIG Lead Tracks	9	275	84	0.30	5	5
BIG Block Swap Yard	16	366	73	0.26	10	10
BIG Intermodal Facility	0.86	26	7	0.02	0.52	0.50
BIG Maintenance	4	27	4	0.01	0.98	0.96
Locomotives Within BIG Footprint Subtotal	***6***	***-7***	***15***	***0.07***	***2***	***2***
Mobile Sources						
Passenger Cars	43	34	758	3	17	6
Trucks	2	128	33	1	14	6
On-site Dust – Passenger Cars[3]	-	-	-	-	5	1
On-site Dust – Trucks/Equipment[3]	-	-	-	-	9	2
Equipment Exhaust	37	75	244	0.48	2	2
Area Sources	207	<0.01	<0.01	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***295***	***230***	***1,051***	***4***	***49***	***20***
Reduced TMT Emissions (MDAB Only)[4]	-1	-125	-27	-1	-77	-22
Rail Corridor Emissions - Without No BIG (within MDAB)	1,915	48,806	12,310	43	1,020	990
Rail Corridor Emissions - With BIG (within MDAB)	2,001	51,217	12,984	46	1,061	1,029
Net Rail Corridor Emissions Change (MDAB Only)[5]	86	2,412	675	3	40	39
2033 Total BIG Operational Emissions	***380***	***2,517***	***1,698***	***6***	***12***	***37***
Existing Barstow Yard Switcher Replacement	-131	-821	-53	-0.26	-39	-38
Net 2033 Emissions	***249***	***1,696***	***1,645***	***5***	***-27***	***-1***
MDAQMD Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**No**	**No**
2048 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	53	1,704	529	2	31	30
Mainline (With BIG)	31	1,002	348	1	18	17
Net Mainline (Through BIG)	*-21*	*-702*	*-181*	*-0.63*	*-13*	*-13*
BIG Lead Tracks	9	295	104	0.37	5	5

Table 35: Mitigated Operational Emissions within MDAB (Pounds per Day)						
Source	**Pollutant (Maximum Pounds per Day)[1,2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
BIG Block Swap Yard	25	561	110	0.39	16	15
BIG Intermodal Facility	0.69	22	7	0.02	0	0
BIG Maintenance	5	34	5	0.02	1	1
Locomotives Within BIG Footprint Subtotal	***18***	***211***	***45***	***0.17***	***9***	***9***
Mobile Sources						
Passenger Cars	33	24	701	3	132	34
Trucks	2	132	26	1	92	26
On-site Dust – Passenger Cars[3]	-	-	-	-	13	4
On-site Dust – Trucks/Equipment[3]	-	-	-	-	15	4
Equipment Exhaust	50	82	249	0.49	2	2
Area Sources	207	<0.01	<0.01	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***311***	***449***	***1,021***	***5***	***264***	***78***
Reduced TMT Emissions (MDAB Only)[4]	-1	-122	-16	-1	-108	-30
Rail Corridor Emissions - Without No BIG (within MDAB)	1,919	53,861	16,699	59	969	940
Rail Corridor Emissions - With BIG (within MDAB)	2,016	56,795	17,706	63	1,012	981
Net Rail Corridor Emissions Change (MDAB Only)[5]	96	2,934	1,007	4	43	42
2048 Total BIG Operational Emissions	***406***	***3,261***	***2,012***	***7***	***198***	***90***
Existing Barstow Yard Switcher Replacement	-131	-821	-53	-0.26	-39	-38
Net 2048 Emissions	***275***	***2,441***	***1,959***	***7***	***159***	***52***
MDAQMD Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**

VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less; MDAB = Mojave Desert Air Basin; BIG = Barstow International Gateway; TMT = Truck Miles Traveled; - = Not Applicable

Notes:

[1] Totals may not add up due to rounding.

[2] Mitigation measures include **MM BIG AQ-7** (sweeping paved areas), **MM BIG AQ-8** ((renewable diesel RTG cranes).

[3] Includes fugitive dust, break wear, and tire wear from fleet vehicles, on-site passenger cars, heavy-duty trucks, and cargo-handling equipment.

[4] BIG would improve goods movement and supply chain efficiency by transporting more containers with trains to reduce approximately 40,328 TMT per day in 2028, approximately 49,500 TMT per day in 2033, and approximately 59,305 TMT per day in 2048; See **Appendix 5.15 BIG-1: CEQA Assessment – Vehicle Miles Traveled, Active Transportation, and Public Transit Analysis**.

[5] MDAB only Corridor emissions per EnSafe, *BNSF Barstow International Gateway Corridor Emissions Analysis*, October 2025 (see Appendix B of this report).

Sources: *Refer to* ***Appendix A2*** and ***Appendix B.***

Table 36: Mitigated Operational Emissions within MDAB (Tons per Year)						
Source	**Pollutant (Tons per Year)[1, 2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2028 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	8	245	62	0.22	5	5
Mainline (With BIG)	5	143	40	0.14	3	3
Net Mainline (Through BIG)	*-3*	*-102*	*-22*	*-0.07*	*-2*	*-2*
BIG Lead Tracks	1	42	12	0.04	0.87	0.84
BIG Block Swap Yard	2	55	11	0.04	1.47	1.42
BIG Intermodal Facility	0.11	3	0.83	<0.01	0.07	0.07
BIG Maintenance	0.59	4	0.66	<0.01	0.16	0.15
Locomotives Within BIG Footprint Subtotal	***1***	***2***	***3***	***0.01***	***0.38***	***0.36***
Mobile Sources						
Passenger Cars	6	5	96	0.32	16	4
Trucks	0.23	18	5	0.16	11	3
Onsite Dust – Passenger Cars[3]	-	-	-	-	0.67	0.17
Onsite Dust – Trucks/Equipment[3]	-	-	-	-	1	0.32
Equipment Exhaust	4.82	7	8	0.02	0.17	0.16
Area Sources	38	<0.01	<0.01	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***50***	***33***	***112***	***0.52***	***29***	***8***
Reduced TMT Emissions (MDAB Only)[4]	-0.20	-22	-5	-0.21	-14	-4
Rail Corridor Emissions – No BIG (within MDAB)	309	7,882	1,988	7	165	160
Rail Corridor Emissions - With BIG (within MDAB)	323	8,272	2,097	7	171	166
Net Rail Corridor Emissions Change (MDAB Only)[5]	14	389	109	0	6	6
2028 Total BIG Operational Emissions	***64***	***400***	***215***	***0.75***	***22***	***11***
Existing Barstow Yard Switcher Replacement	-24	-150	-10	-0.05	-7	-7
Net 2028 Emissions	***40***	***250***	***206***	***0.70***	***15***	***4***
MDAQMD Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
2033 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	9	259	68	0.24	5	5
Mainline (With BIG)	5	145	44	0.16	3	3
Net Mainline (Through BIG)	*-4*	*-113*	*-25*	*-0.09*	*-2*	*-2*
BIG Lead Tracks	1	44	14	0.05	0.89	0.86
BIG Block Swap Yard	3	59	12	0.04	2	2
BIG Intermodal Facility	0.14	4	1	<0.01	0.08	0.08
BIG Maintenance	0.59	4	0.67	<0.01	0.16	0.15
Locomotives Within BIG Footprint Subtotal	***1***	***-1***	***2***	***0.01***	***0.35***	***0.34***

Table 36: Mitigated Operational Emissions within MDAB (Tons per Year)						
Source	**Pollutant (Tons per Year)[1, 2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mobile Sources						
Passenger Cars	5	3	92	0.40	24	6
Trucks	0.28	20	4	0.20	16	5
Onsite Dust – Passenger Cars[3]	-	-	-	-	2	0.62
Onsite Dust – Trucks/Equipment[3]	-	-	-	-	3	0.69
Equipment Exhaust	4.82	7	8	0.02	0.17	0.16
Area Sources	38	<0.01	<0.01	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***49***	***29***	***107***	***0.62***	***45***	***12***
Reduced TMT Emissions (MDAB Only)[4]	-0.21	-23	-5	-0.23	-14	-4
Rail Corridor Emissions - No BIG (within MDAB)	309	7,882	1,988	7	165	160
Rail Corridor Emissions - With BIG (within MDAB)	323	8,272	2,097	7	171	166
Net Rail Corridor Emissions Change (MDAB Only)[5]	14	389	109	0.44	6	6
2033 Total BIG Operational Emissions	***63***	***396***	***211***	***1***	***38***	***15***
Existing Barstow Yard Switcher Replacement	-24	-150	-10	-0.05	-7	-7
Net 2033 Emissions	***39***	***246***	***201***	***0.79***	***31***	***8***
MDAQMD Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
2048 OPERATIONS						
Locomotives (BIG Footprint)						
Mainline (Without BIG)	9	275	85	0.30	5	5
Mainline (With BIG)	5	162	56	0.20	3	3
Net Mainline (Through BIG)	*-3*	*-113*	*-29*	*-0.10*	*-2.09*	*-2*
BIG Lead Tracks	1	48	17	0.06	0.84	0.82
BIG Block Swap Yard	4	91	18	0.06	3	2
BIG Intermodal Facility	0.13	4	1	<0.01	0.07	0.07
BIG Maintenance	0.75	6	1	<0.01	0.20	0.19
Locomotives Within BIG Footprint Subtotal	***3***	***35***	***7***	***0.03***	***2***	***1***
Mobile Sources						
Passenger Cars	5	3	92	0.40	24	6
Trucks	0.28	20	4	0.20	16	5
Onsite Dust – Passenger Cars[3]	-	-	-	-	2	0.62
Onsite Dust – Trucks/Equipment[3]	-	-	-	-	3	0.69
Equipment Exhaust	7.12	8	9	0.02	0.11	0.11
Area Sources	35.74	<0.01	<0.01	<0.01	<0.01	<0.01
Energy (Natural Gas)	-	-	-	-	-	-
BIG Footprint Emissions	***51***	***66***	***113***	***0.64***	***46***	***13***
Reduced TMT Emissions (MDAB Only)[4]	-0.21	-22	-3	-0.24	-20	-5

Table 36: Mitigated Operational Emissions within MDAB (Tons per Year)						
Source	**Pollutant (Tons per Year)[1, 2]**					
	VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Rail Corridor Emissions - No BIG (within MDAB)	310	8,699	2,697	10	156	152
Rail Corridor Emissions - With BIG (within MDAB)	326	9,173	2,860	10	163	159
Net Rail Corridor Emissions Change (MDAB Only)[5]	16	474	163	1	7	7
2048 Total BIG Operational Emissions	***67***	***518***	***273***	***1***	***34***	***15***
Existing Barstow Yard Switcher Replacement	-24	-150	-10	-0.05	-7	-7
Net 2048 Emissions	***43***	***368***	***263***	***1***	***26***	***8***
MDAQMD Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Threshold Exceeded?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
VOC = Volatile Organic Compounds; NO_X = Nitrogen Oxides; CO = Carbon Monoxide; SO_2 = Sulfur Dioxide; PM_{10} = Particulate Matter 10 microns in diameter or less; $PM_{2.5}$ = Particulate Matter 2.5 microns in diameter or less; MDAB = Mojave Desert Air Basin; BIG = Barstow International Gateway; TMT = Truck Miles Traveled; - = Not Applicable						
Notes: [1] Totals may not add up due to rounding. [2] Mitigation measures include **MM BIG AQ-7** (sweeping paved areas), **MM BIG AQ-8** (renewable diesel RTG cranes). [3] Includes fugitive dust, break wear, and tire wear from fleet vehicles, on-site passenger cars, heavy-duty trucks, and cargo-handling equipment. [4] BIG would improve goods movement and supply chain efficiency by transporting more containers with trains to reduce approximately 14,719,796 annual TMT in 2028, approximately 18,067,338 annual TMT in 2033, and approximately 21,646,477 annual TMT in 2048; See Appendix 5.15 BIG-1: CEQA Assessment – Vehicle Miles Traveled, Active Transportation, and Public Transit Analysis. [5] MDAB only Corridor emissions per EnSafe, *BNSF Barstow International Gateway Corridor Emissions Analysis*, October 2025 (see Appendix B of this report).						
Source: *Refer to* ***Appendix A2*** and ***Appendix B.***						

Table 35 and Table 36 show that despite the implementation of **MM BIG AQ-7** through **MM BIG AQ-14**, operational emissions would remain above MDAQMD thresholds. Therefore, operational emissions would be significant and unavoidable for emissions within the MDAB (i.e., MDAQMD's jurisdiction). As shown in **Table 34**, unmitigated emissions within SCAB (i.e., South Coast AQMD's jurisdiction) would be below applicable thresholds and no mitigation is required. Additional mitigation measures considered but determined infeasible are discussed in **Section 7.0**.

Potential Criteria Pollutant Health Impacts

This section includes a discussion of the potential health effects of criteria air pollutant impacts due to the exceedance of mass emissions thresholds in accordance with the findings of the legal case *Sierra Club v. County of Fresno* (2018), commonly called "Friant Ranch". Health effects information was acquired through a review of available literature published by the MDAQMD, CARB, and U.S. EPA. This discussion provides supplemental information related to the air quality concentration impacts. This discussion is not itself an impact-significance determination under any CEQA threshold identified in this document.

This section discusses the relationship between BIG's regional criteria pollutant emissions and the potential for adverse health effects to occur for persons exposed to the emitted pollutants. BIG construction and operation would produce regional mass emissions of VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$

above MDAQMD thresholds. NO_2, a criteria pollutant, is the primary component of NO_X. In addition, VOCs and NO_X are precursors of O_3, a criterial pollutant that is photochemically formed from the precursors in the atmosphere in the presence of sunlight (U.S. EPA, 2025a). Therefore, the criteria pollutants evaluated for regional health effects are NO_2, O_3, CO, and PM.

There is currently no methodology available that can accurately quantify regional health effects from NO_2, O_3, CO, or PM exposure associated with an individual project's emissions. The South Coast AQMD reached a similar conclusion in its *Amicus Curiae* brief filed with the California Supreme Court in the case of *Sierra Club v. County of Fresno*, when, concerning O_3, the South Coast AQMD stated that it does not know of a way to accurately quantify health impacts caused by emissions produced on a scale as small as individual projects (South Coast AQMD, 2015, p. 12). One existing tool, U.S. EPA's BenMAP, calculates the number and economic value of air pollution-related deaths and illnesses resulting from changes in O_3 and $PM_{2.5}$ concentrations (U.S. EPA, 2025b). However, the expected changes in regional O_3 concentrations associated with BIG would be so low that BenMAP would likely produce estimates of health effects that are near zero. Therefore, the extent to which regional adverse health effects can be identified in this section is limited to (a) discussing BIG's potential impact on regional pollutant levels; and (b) generally describing the types of adverse health effects associated with exposure to the pollutants of concern.

CO

The MDAB is currently designated attainment of the CAAQS and NAAQS for CO. The CAAQSs were established to protect public health, including the most sensitive groups (CARB, NDb). The NAAQS were established to protect public health with an adequate margin of safety (U.S. EPA, 2025e). The most stringent CO CAAQS or NAAQS are 20 ppm for a 1-hour average and 9.0 ppm for an 8-hour average.

The highest CO concentrations recorded anywhere in the MDAB over the last three available years (2019 through 2021) are 5.461ppm for a 1-hour average (CARB, NDa). This pollutant level is 27 percent of the 1-hour CAAQS and 16 percent of the 1-hour NAAQS.

According to the most recent U.S. EPA-approved MDAB emissions inventory, the MDAB's total CO emissions in 2020 were 337.3 tons per day (CARB, 2009). By comparison, BIG construction would result in a maximum of 3,846 pounds per day (1.92 tons per day) and BIG operations total CO emissions would be 2,697 pounds per day (1.35 tons per day), which would be 0.6 percent and 0.4 percent as large as the total MDAB emissions, respectively. Therefore, BIG's contribution to regional CO levels would be relatively small.

Potential Health Effects

In developing CO standards, the U.S. EPA has prepared a comprehensive report on the possible health effects associated with CO exposure (U.S. EPA, 2010). The South Coast AQMD summarizes the U.S. EPA's findings in its *Final 2016 AQMP* (South Coast AQMD, 2017). The main conclusions are:

Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of worsening oxygen supply delivery to the heart. Inhaled CO has no known direct toxic effect on the lungs, but exerts its effect on tissues by interfering with oxygen

transport, by competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin. Hence, people with conditions requiring an increased oxygen supply can be adversely affected by exposure to CO. Individuals most at risk include patients with diseases involving heart and blood vessels, fetuses, and patients with chronic hypoxemia (oxygen deficiency), such as is seen at high altitudes. Reductions in birth weight and impaired neurobehavioral development have been observed in animals chronically exposed to CO resulting in carboxyhemoglobin levels similar to those observed in smokers. Recent studies have found increased risks for adverse birth outcomes with exposure to elevated CO levels, including preterm births and heart abnormalities.

NO_2

The MDAB is currently designated attainment of the NO_2 CAAQS and NAAQS. The most stringent NO_2 standards are 0.18 ppm for a 1-hour average (state 1-hour standard), 0.100 ppm for a three-year average of the 98th percentile of the annual distributions of daily maximum 1-hour average concentrations (federal 1-hour standard), and 0.030 ppm for an annual average (CAAQS).

The highest NO_2 concentrations recorded anywhere in the MDAB over the last three available years (2021 through 2023) are 0.062 ppm (CARB, NDa). The pollutant level is 34 percent and 62 percent of the CAAQS and NAAQS 1-hour standards, respectively.

According to the most recent CARB emissions inventory, the total NO_X emissions within the MDAB in 2020 were 204.2 tons/day (CARB, 2009). By comparison, the highest NO_X emissions increment associated with BIG construction is 4,419 pounds per day (2.21 tons/day), which would be 0.7 percent of the total MDAB emissions. Operational emissions would exceed the MDAQMD threshold with 2,265 pounds per day (1.1 tons/day), which would be 0.3 percent as large as the total MDAB emissions. Therefore, BIG's contribution to regional NO_2 levels would be relatively small.

Potential Health Effects

In developing the NO_2 standards, the U.S. EPA and CARB have prepared comprehensive reports on the possible health effects associated with NO_2 exposure. The main conclusions of these agencies are:

The U.S. EPA concluded that a causal relationship exists between short-term NO_2 exposure and respiratory effects such as asthma attacks. There is likely to be a causal relationship between long-term NO_2 exposure and respiratory effects based on the evidence for development of asthma. For short-term and long-term NO_2 exposure, evidence is suggestive of, but not sufficient to imply, a causal relationship with cardiovascular effects, diabetes, mortality, birth outcomes, and cancer. People with asthma, children, and older adults are at increased risk for NO_2-related health effects (U.S. EPA, 2016).

The CARB concluded that, in controlled human exposure studies, asthmatics appear to be especially sensitive to NO_2. Asthmatic volunteers have experienced short-term effects at concentrations as low as 0.26 ppm. There is evidence that a subset of asthmatics may experience increased airway reactivity at concentrations of 0.2 to 0.3 ppm for 30 minutes to 2 hours. Generally, no clinical effects are reported in non-asthmatic volunteers in conditions below 1 ppm. Epidemiological studies have shown an association between NO_2 and both hospital admissions and emergency room visits for asthma at 24-hour average

concentrations ranging from 0.018 to 0.036 ppm. Less robust evidence suggests associations with mortality, hospitalization for cardiovascular disease, and low birth weight (CARB, 2007, p. A-30 – A-36).

O_3

The MDAB is currently designated nonattainment of the O_3 concentration standards. The most stringent state and federal O_3 standards are 0.09 ppm for 1-hour average, 0.07 ppm for the three-year average of the fourth-highest 8-hour concentration each year (known as the federal 8-hour standard), and 0.07 ppm for an 8-hour average (known as the state 8-hour standard).

The highest 1-hour O_3 concentration recorded in the MDAB over the last three available years (2021 through 2023) is 0.131 ppm, which is 1.45 times the standard. The highest 8-hour O_3 concentration recorded in the MDAB over the last three available years is 0.107 ppm, which is 1.5 times the standard (CARB, NDe).

According to the most recent CARB emissions inventory, the MDAB's total VOC (ROG) emissions in 2020 were 93.5 tons/day (CARB, 2009). By comparison, BIG's highest VOC (ROG) emissions increment was 924 pounds per day (0.46 tons/day) during construction and 596 pounds per day (0.3 tons/day) during operations, which would be 0.1 percent and 0.1 percent of the total MDAB emissions, respectively. As discussed above for NO_2, BIG's NO_X emissions increment would be 0.7 percent and 0.3 percent as large as the total MDAB emissions during construction and operations, respectively. Therefore, BIG's contribution to regional O_3 levels would be relatively small.

Potential Health Effects

In developing the O_3 standards, U.S. EPA and OEHHA have prepared comprehensive reports on the possible health effects associated with O_3 exposure. The agencies' main conclusions are:

U.S. EPA concluded that a causal relationship exists between short-term O_3 exposure and respiratory effects. A causal relationship is likely to exist between short-term O_3 exposure and cardiovascular effects and mortality. Evidence suggests a causal relationship between short-term O_3 exposure and central nervous system effects. A causal relationship is likely to exist between long-term O_3 exposure and respiratory effects. Evidence suggests a causal relationship between long-term O_3 exposure and 33 cardiovascular effects, reproductive and developmental effects, central nervous system effects, and mortality. There is little evidence for a relationship between long-term O_3 exposure and increased risk of lung cancer. The populations and life stages that have adequate evidence for increased O_3-related health effects are individuals with certain genotypes, individuals with asthma, younger and older age groups, individuals with reduced intake of Vitamins E and C, and outdoor workers (U.S. EPA, 2020).

OEHHA concluded that O_3 exposure can result in reduced lung function, increased respiratory symptoms, increased airway hyperreactivity and increased airway inflammation, increased mortality, hospitalization for cardiopulmonary causes, emergency room visits for asthma, and restrictions in activity. In controlled human exposure studies, exercising individuals exposed for one hour to an O_3 concentration as low as 0.12 ppm or for 6.6 hours to a concentration as low as 0.08 ppm experienced lung function decrements and symptoms of respiratory irritation such as cough or pain upon deep inhalation. The lowest O_3 concentrations at which airway hyperreactivity (an increase in the tendency of the airways to constrict in

reaction to exposure to irritants) has been reported are 0.18 ppm O_3 following 2-hour exposure in exercising subjects, 0.40 ppm following 2-hour exposure in resting subjects, and 0.08 ppm O_3 in subjects exercising for 6.6 hours. Airway inflammation has been reported following 2-hour exposures to 0.20 ppm O_3 and following 6.6-hour exposure to 0.08 ppm O_3. Children may be affected by O_3 more than the general population because of its effects on the developing lung and since children have relatively higher exposure than adults. Also, asthmatics may represent a sensitive sub-population for O_3 (OEHHA, 2004, p.6).

PM

The MDAB is currently designated nonattainment of the PM_{10} State 24-hour and annual CAAQS and NAAQS. The most stringent PM_{10} CAAQS or NAAQS are 50 μg/m^3 and 150 μg/m^3, respectively. The highest PM_{10} concentrations recorded in the BIG footprint over the last three available years (2021 through 2023) are 372.7 μg/m^3 (CARB, NDe). This pollutant level is seven times and two times the CAAQS and NAAQS, respectively. According to the most recent CARB emissions inventory, the total PM_{10} emissions within the MDAB in 2020 were 219.2 tons/day (CARB, 2009). By comparison, the PM_{10} emissions increment associated with BIG would average 61,120 pounds per day (31 tons/day) during construction and 914 pounds per day (0.5 tons/day) during operations, which would be 9.1 percent and 0.1 percent as large as the total MDAB emissions, respectively. Therefore, BIG's contribution to regional PM_{10} levels would be relatively small.

The MDAB is currently designated unclassified/attainment of the $PM_{2.5}$ federal 24-hour and NAAQS of 35 μg/m^3. The highest $PM_{2.5}$ concentrations recorded in BIG's footprint over the last three available years (2021 through 2023) are 87.1 μg/m^3 (CARB, NDe). This pollutant level is 2.5 times the NAAQS. According to the most recent CARB emissions inventory, the total $PM_{2.5}$ emissions within the MDAB in 2020 were 59.0 tons/day (CARB, 2009). By comparison, the highest $PM_{2.5}$ emissions increment associated with BIG are 56,291 pounds per day (28 tons/day) during construction and 268 pounds per day (0.13 tons/day) during operations, which would be 8.3 percent and 0.04 percent as large as the total MDAB emissions, respectively. Therefore, BIG's contribution to regional $PM_{2.5}$ levels would be relatively small.

Potential Health Effects

In developing the PM_{10} standards, the U.S. EPA and CARB have prepared comprehensive reports on the possible health effects associated with PM_{10} exposure. The South Coast AQMD also reviewed PM_{10}-related health effects in Appendix I of its *Final 2016 AQMP*. Most of the health effects findings made by these agencies focus on $PM_{2.5}$, which is the smaller, more easily inhalable subset of PM_{10}. The main conclusions of the agencies are:

U.S. EPA concluded that a causal relationship exists between $PM_{2.5}$ exposure (both short- and long-term) and cardiovascular effects sand mortality. A causal relationship is likely to exist between $PM_{2.5}$ exposure (both short- and long-term) and respiratory effects. Evidence is suggestive of a causal relationship between long-term $PM_{2.5}$ exposure and reproductive and developmental effects, cancer, mutagenicity, and genotoxicity. For the portion of PM_{10} greater than 2.5 microns ($PM_{10-2.5}$), U.S. EPA concluded that evidence is suggestive of a causal relationship between short-term $PM_{10-2.5}$ exposure and cardiovascular effects, respiratory effects, and mortality. Older adults have heightened responses for cardiovascular morbidity with PM exposure. Children are at an increased risk of PM-related respiratory effects.

Individuals with underlying cardiovascular disease or asthma may be at an increased risk for adverse effects (U.S. EPA, 2016).

CARB concluded that the potential health effects associated with PM exposure include mortality, increased hospital admissions for cardiopulmonary causes, acute and chronic bronchitis, asthma attacks and emergency room visits, respiratory symptoms, and days with some restriction in activity. These adverse health effects have been reported primarily in infants, children, the elderly, and those with preexisting cardiopulmonary disease. CARB also classifies the portion of PM_{10} produced by diesel engine exhaust (DPM) as a TAC exhibiting carcinogenic effects. A quantitative HRA of BIG's emission of DPM is included herein (CARB, 2008, p. 2-9).

South Coast AQMD concluded that there is a causal relationship between $PM_{2.5}$ exposure and cardiovascular effects and mortality. Specific cardiovascular effects include cardiovascular deaths, hospital admissions for ischemic heart disease and congestive heart failure, changes in heart rate variability and markers of oxidative stress, and markers of atherosclerosis. A causal relationship is likely to exist between $PM_{2.5}$ exposure and respiratory effects, such as hospital admissions for Chronic Obstructive Pulmonary Disease or respiratory infections, asthma development, asthma or allergy exacerbation, lung cancer, impacts on lung function, lung inflammation, oxidative stress, and airway hyperresponsiveness. Both short-term and long-term PM exposures are linked to health effects in humans. Young children, older adults, and people with pre-existing respiratory or cardiovascular health conditions are among those who may be more susceptible to the adverse effects of PM (South Coast AQMD, 2022, p. 2-30). The South Coast AQMD also found that the DPM portion of PM_{10} is a significant contributor to the cancer risk associated with TACs in the SCAB. For example, the average lifetime risk for excess cancer cases in the SCAB from all sources is estimated to be 424 per million for the inhalation pathway. South Coast AQMD's *Multiple Air Toxics Exposure Study V* determined that DPM is responsible for approximately 50 percent of the risk (South Coast AQMD, 2021, p. 2-63).

Summary

In summary, BIG would produce substantial CO, VOC (ROG), NO_X, and PM regional emissions. However, these would make relatively small contributions to regional levels. There is currently no agency-accepted methodology available that can accurately quantify regional health effects from CO, VOC, NO_2, O_3, or PM exposure associated with an individual project's emissions. Therefore, the above discussion is limited to identifying BIG's potential contribution to regional pollutant levels, and generally describing the types of adverse health effects associated with exposure to those pollutants.

Impact 5.3-3	***Would the project expose sensitive receptors to substantial pollutant concentrations?***

BIG implementation could result in localized emissions that would result in the exposure of sensitive receptors to localized criteria pollutant concentrations including potential CO hotspots, asbestos, Valley Fever, and toxic air contaminants. Impacts to sensitive receptors are discussed below.

6.5 Criteria Pollutant Concentrations

Localized Concentrations of Construction Emissions of Criteria Pollutants (BIG Footprint Only)

Dispersion modeling of on-site and off-site BIG construction emissions was performed to assess the impact of construction on ambient air concentrations in the vicinity of the BIG footprint. As described above in **Laws, Regulations, Orders**, BIG construction would comply with MDAQMD rules which include fugitive dust control (Rule 403) and use of low-VOC paints and coatings (Rule 1113).

The U.S. EPA dispersion model AERMOD was used to predict maximum ambient pollutant concentrations within the study area. Detailed dispersion modeling inputs and outputs are included in **Appendix A**. **Table 37: Maximum Off-Site Pollutant Concentrations from Construction (Unmitigated)** presents the maximum offsite ground level concentrations of criteria pollutants estimated for BIG construction.

Table 37 shows that emissions of PM_{10}, and $PM_{2.5}$ from BIG construction would result in ambient concentrations that exceed applicable PM_{10} and $PM_{2.5}$ NAAQSs. As discussed above, BIG would be required to implement **MM BIG AQ-1,** and **MM BIG AQ-3** through **MM BIG AQ-6**, which would reduce construction PM_{10} and $PM_{2.5}$ emissions. These mitigation measures require fugitive dust controls, Tier 4 equipment, use of renewable diesel, clean on-road construction vehicles, and concrete batch plant emissions controls. Mitigated construction pollutant concentrations are shown in **Table 38: Maximum Off-Site Pollutant Concentrations from Construction (Mitigated)**. As shown in **Table 38**, construction emissions would be reduced, but would still exceed the PM_{10} NAAQS (24-hour) despite the implementation of mitigation. Therefore, localized construction impacts would be significant and unavoidable. Additional mitigation measures considered but determined infeasible are discussed in **Section 7.0**.

Table 37: Maximum Off-Site Pollutant Concentrations from Construction (Unmitigated)

Pollutant	Averaging Time	Maximum Modeled Concentration	Background Concentration [1] ($\mu g/m^3$)[1]	Total Ground Level Concentration ($\mu g/m^3$)	Threshold		Threshold Exceeded? [3]
					($\mu g/m^3$)[2]	Federal or State	
NO_2 [4]	1-hour	179.65	117.42	297.08	339	State	No
	1-hour [4, 5]	80.83	102.24	183.07	188	Federal	No
	Annual	2.60	26.35	28.95	57	State	No
					100	Federal	No
CO	1-hour	262	6,256	6,518	23,000	State	No
					40,000	Federal	No
	8-hour	42	5,631	5,673	10,000	State/ Federal	No
PM_{10} [6]	24-hour	20.94	--	20.94	5	Federal	**Yes**
	Annual	3.17	--	3.17	1	Federal	**Yes**
$PM_{2.5}$ [6]	24-hour	4.74	--	4.74	1.2	Federal	**Yes**
	Annual	1.25	--	1.25	0.3	Federal	**Yes**

Notes:
[1] Background concentrations are from the Barstow Monitoring Station (2022 – 2024). Note that CO is no longer monitored and the above data is the latest available (2019 – 2021).

[2] Ambient air quality thresholds are the NAAQS and CAAQS provided in **Table 4**. All thresholds are shown in micrograms per cubic meter (µg/m³) for comparison to modeled concentrations.
[3] Exceedances of the NAAQS and CAAQS are indicated in **bold**.
[4] NO_2 concentrations were calculated per Tier 2 ARM2 ratios in U.S. EPA's 40 CFR Part 51 Appendix W, § 4.2.3.4. Conversion of NO_X to NO_2 use U.S. EPA minimum and maximum default values NO_2/NO_X of 0.5 and 0.9, respectively.
[5] This comparison is to the federal NAAQS, which is a 98th percentile threshold. The background concentration is the 3-year average of the 8th highest daily maximum 1-hour concentration, over the years 2022, 2023, and 2024.
[6] The thresholds for PM_{10} and $PM_{2.5}$ are incremental thresholds; therefore, the incremental concentration without background is compared to the threshold.

Source: *Refer to* ***Appendix A3.1.***

Table 38: Maximum Off-Site Pollutant Concentrations from Construction (Mitigated)

Pollutant	Averaging Time	Maximum Modeled Concentration	Background Concentration (µg/m³)[1]	Total Ground Level Concentration (µg/m³)	Threshold (µg/m³)[2]	Threshold Federal or State	Threshold Exceeded?[3]
NO_2[4]	1-hour	131.14	117.42	248.56	339	State	No
	1-hour[4, 5]	60.03	102.24	162.27	188	Federal	No
	Annual	2.23	26.35	28.58	57	State	No
					100	Federal	No
CO	1-hour	261	6,256	6,518	23,000	State	No
					40,000	Federal	No
	8-hour	42	5,631	5,673	10,000	State/ Federal	No
PM_{10}[6]	24-hour	5.48	--	5.48	5	Federal	**Yes**
	Annual	0.83	--	0.83	1	Federal	No
$PM_{2.5}$[6]	24-hour	1.10	--	1.10	1.2	Federal	No
	Annual	0.29	--	0.29	0.3	Federal	No

Notes:
[1] Background concentrations are from the Barstow Monitoring Station (2022 – 2024). Note that CO is no longer monitored and the above data is the latest available (2019 – 2021).
[2] Ambient air quality thresholds are the NAAQS and CAAQS provided in **Table 4**. All thresholds are shown in micrograms per cubic meter (µg/m³) for comparison to modeled concentrations.
[3] Exceedances of the NAAQS and CAAQS are indicated in bold.
[4] NO_2 concentrations were calculated per Tier 2 ARM2 ratios in U.S. EPA's 40 CFR Part 51 Appendix W, § 4.2.3.4. Conversion of NO_X to NO_2 use U.S. EPA minimum and maximum default values NO_2/NO_X of 0.5 and 0.9, respectively.
[5] This comparison is to the federal NAAQS, which is a 98th percentile threshold. The background concentration is the 3-year average of the 8th highest daily maximum 1-hour concentration, over the years 2022, 2023, and 2024.
[6] The thresholds for PM_{10} and $PM_{2.5}$ are incremental thresholds; therefore, the incremental concentration without background is compared to the threshold.

Source: *Refer to* ***Appendix A3.1.***

Figure 10: Construction Mitigated PM_{10} 24-Hour Concentration Isopleth

Localized Concentrations of Operations Emissions of Criteria Pollutants

BIG Footprint

Dispersion modeling of on-site and off-site BIG operational emissions was performed to assess impacts to air concentrations within BIG's vicinity (i.e., a minimum distance of 3.5 miles from the BIG footprint). These concentrations were modeled for BIG Opening Year 2028, Interim Year 2033, and Horizon Year 2048. The U.S. EPA dispersion model AERMOD, version 24142, was used to predict maximum ambient pollutant concentrations based on mass emissions modeled for each analysis year within BIG's vicinity. **Table 39: Maximum Off-Site Concentration from Operations (Unmitigated)** presents the maximum off-site ground level concentrations of criteria pollutants estimated for BIG. As shown in **Table 39,** unmitigated BIG operations would exceed the NAAQS for NO_2 (1-hour) in 2048.

BIG operations would include Tier 4 locomotives, renewable diesel fuels, and electric cargo handling equipment. Additionally, BIG operations would be required to implement **MM BIG AQ-7** through **MM BIG AQ-14 (**see **Section 7.0)**, which require onsite sweeping of paved areas, renewable diesel for RTG cranes, truck idling limits and truck route signage, Tier 4 emergency backup generators, and truck efficiency measures such as compliance with CARB's Carl Moyer Efficiency Program and U.S. EPA's Smart Way Program, electric landscaping equipment, electric truck charging stations, and future EV charging infrastructure. Implementation of mitigation would minimize operational emissions. Mitigated operational pollutant concentrations are shown in **Table 40: Maximum Off-Site Concentration from Operations (Mitigated)**. As shown in **Table 40**, operational concentrations would not exceed the NAAQS or CAAQS in any of the analysis years with implementation of **MM BIG AQ-7** through **MM BIG AQ-14**.

Table 39: Maximum Off-Site Concentration from Operations (Unmitigated)

Pollutant	Averaging Time	Maximum Modeled Concentration[7]	Background Concentration (µg/m³)[1]	Total Ground Level Concentration (µg/m³)	Threshold		Threshold Exceeded?[3]
					(µg/m³)[2]	Federal or State	
2028 OPERATIONS							
NO_2[4]	1-hour	97.82	117.42	215.24	339	State	No
	1-hour[4, 5]	60.74	102.24	162.98	188	Federal	No
	Annual	2.91	26.35	29.25	57	State	No
					100	Federal	No
CO	1-hour	509	6,256	6,765	23,000	State	No
					40,000	Federal	No
	8-hour	204	5,631	5,835	10,000	State/ Federal	No
PM_{10}[6]	24-hour	1.03	--	1.03	5	Federal	No
	Annual	0.32	--	0.32	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.49	--	0.49	1.2	Federal	No
	Annual	0.18	--	0.18	0.3	Federal	No
2033 OPERATIONS							
NO_2[4]	1-hour	102.09	117.42	219.52	339	State	No
	1-hour[4, 5]	72.03	102.87	174.27	188	Federal	No
	Annual	3.26	26.35	29.60	57	State	No

Table 39: Maximum Off-Site Concentration from Operations (Unmitigated)							
Pollutant	**Averaging Time**	**Maximum Modeled Concentration[7]**	**Background Concentration (µg/m³)[1]**	**Total Ground Level Concentration (µg/m³)**	**Threshold**		**Threshold Exceeded?[3]**
					(µg/m³)[2]	**Federal or State**	
					100	Federal	No
CO	1-hour	510	6,256	6,766	23,000	State	No
					40,000	Federal	No
	8-hour	205	5,631	5,835	10,000	State/ Federal	No
PM_{10} [6]	24-hour	1.21	--	1.21	5	Federal	No
	Annual	0.38	--	0.38	1	Federal	No
$PM_{2.5}$ [6]	24-hour	0.53	--	0.53	1.2	Federal	No
	Annual	0.19	--	0.19	0.3	Federal	No
2048 OPERATIONS							
NO_2 [4]	1-hour	123.57	117.42	241.00	339	State	No
	1-hour [4, 5]	88.70	102.24	190.85	188	Federal	**Yes**
	Annual	4.16	26.35	30.51	57	State	No
					100	Federal	No
CO	1-hour	509	6,256	6,765	23,000	State	No
					40,000	Federal	No
	8-hour	203	5,631	5,834	10,000	State/ Federal	No
PM_{10} [6]	24-hour	1.89	--	1.89	5	Federal	No
	Annual	0.61	--	0.61	1	Federal	No
$PM_{2.5}$ [6]	24-hour	0.80	--	0.80	1.2	Federal	No
	Annual	0.29	--	0.29	0.3	Federal	No

Notes:

[1] Background concentrations are from the Barstow Monitoring Station (2022 – 2024). Note that CO is no longer monitored and the above data is the latest available (2019 – 2021).

[2] Ambient air quality thresholds are the NAAQS and CAAQS provided in **Table 4**. All thresholds are shown in micrograms per cubic meter (µg/m³) for comparison to modeled concentrations.

[3] Exceedances of the NAAQS and CAAQS are indicated in **bold**.

[4] NO_2 concentrations were calculated per Tier 2 ARM2 ratios in U.S. EPA's 40 CFR Part 51 Appendix W, § 4.2.3.4. Conversion of NO_X to NO_2 use U.S. EPA minimum and maximum default values NO_2/NO_X of 0.5 and 0.9, respectively.

[5] This comparison is to the federal NAAQS, which is a 98th percentile threshold. The background concentration is the 3-year average of the 8th highest daily maximum 1-hour concentration, over the years 2022, 2023, and 2024.

[6] The thresholds for PM_{10} and $PM_{2.5}$ are incremental thresholds; therefore, the incremental concentration without background is compared to the threshold.

[7] The Barstow Yard switcher replacement was conservatively not considered in the NAAQS and CAAQS modeling for the unmitigated project. Unlike the HRA, the NAAQS and CAAQS modeling is the max concentration at the fenceline and the switcher replacement would not substantially change the BIG concentrations.

Source: *Refer to **Appendix A3.2.***

Table 40: Maximum Off-Site Concentration from Operations (Mitigated)							
Pollutant	Averaging Time	Maximum Modeled Concentration[7]	Background Concentration ($\mu g/m^3$)[1]	Total Ground Level Concentration ($\mu g/m^3$)	Threshold ($\mu g/m^3$)[2]	Federal or Sate	Threshold Exceeded?[3]
2028 OPERATIONS							
NO_2[4]	1-hour	78.12	117.42	195.54	339	State	No
	1-hour[4, 5]	48.72	102.24	150.96	188	Federal	No
	Annual	2.18	26.35	28.53	57	State	No
					100	Federal	No
CO	1-hour	67	6,256	6,324	23,000	State	No
					40,000	Federal	No
	8-hour	13	5,631	5,644	10,000	State/ Federal	No
PM_{10}[6]	24-hour	0.58	--	0.58	5	Federal	No
	Annual	0.29	--	0.29	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.45	--	0.45	1.2	Federal	No
	Annual	0.16	--	0.16	0.3	Federal	No
2033 OPERATIONS							
NO_2[4]	1-hour	81.94	117.42	199.39	339	State	No
	1-hour[4, 5]	59.73	102.24	161.97	188	Federal	No
	Annual	2.40	26.35	28.74	57	State	No
					100	Federal	No
CO	1-hour	73	6,256	6,329	23,000	State	No
					40,000	Federal	No
	8-hour	22	5,631	5,653	10,000	State/ Federal	No
PM_{10}[6]	24-hour	1.10	--	1.10	5	Federal	No
	Annual	0.35	--	0.35	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.49	--	0.49	1.2	Federal	No
	Annual	0.18	--	0.18	0.3	Federal	No
2048 OPERATIONS							
NO_2[4]	1-hour	102.79	117.42	220.22	339	State	No
	1-hour[4, 5]	75.96	102.24	178.20	188	Federal	No
	Annual	4.16	26.35	30.50	57	State	No
					100	Federal	No
CO	1-hour	94	6,256	6,350	23,000	State	No
					40,000	Federal	No
	8-hour	28	5,631	5,659	10,000	State/ Federal	No
PM_{10}[6]	24-hour	1.82	--	1.82	5	Federal	No
	Annual	0.59	--	0.59	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.77	--	0.77	1.2	Federal	No
	Annual	0.28	--	0.28	0.3	Federal	No

Table 40: Maximum Off-Site Concentration from Operations (Mitigated)							
Pollutant	Averaging Time	Maximum Modeled Concentration[7]	Background Concentration ($\mu g/m^3$)[1]	Total Ground Level Concentration ($\mu g/m^3$)	Threshold		Threshold Exceeded?[3]
					($\mu g/m^3$)[2]	Federal or Sate	
Notes: [1] Background concentrations are from the Barstow Monitoring Station (2022 – 2024). Note that CO is no longer monitored and the above data is the latest available (2019 – 2021). [2] Ambient air quality thresholds are the NAAQS and CAAQS provided in **Table 4.** All thresholds are shown in micrograms per cubic meter ($\mu g/m^3$) for comparison to modeled concentrations. [3] Exceedances of the NAAQS and CAAQS are indicated in bold. [4] NO_2 concentrations were calculated per Tier 2 ARM2 ratios in U.S. EPA's 40 CFR Part 51 Appendix W, § 4.2.3.4. Conversion of NO_X to NO_2 use U.S. EPA minimum and maximum default values NO_2/NO_X of 0.5 and 0.9, respectively. [5] This comparison is to the federal NAAQS, which is a 98th percentile threshold. The background concentration is the 3-year average of the 8th highest daily maximum 1-hour concentration, over the years 2022, 2023, and 2024. [6] The thresholds for PM_{10} and $PM_{2.5}$ are incremental thresholds; therefore, the incremental concentration without background is compared to the threshold. [7] The Barstow Yard switcher replacement was conservatively not considered in the NAAQS and CAAQS modeling for the unmitigated project. Unlike the HRA, the NAAQS and CAAQS modeling is the max concentration at the fenceline and the switcher replacement would not substantially change the BIG concentrations.							
Source: *Refer to* ***Appendix A3.2***.							

Rail Corridor Concentrations

Localized effects of BIG-related Corridor emissions and the associated increases in criteria pollutants were modeled for worst-case segment in the SCAB and two segments in the MDAB. The analyzed segments include one location in the SCAB (based on the SRA with the highest background concentration) and two locations in the MDAB (one west of BIG and one east of BIG). The SCAB worst-case segment is based on existing background ambient air quality concentrations as measured by the South Coast AQMD and CARB. There are fewer monitoring stations in the MDAB and the Barstow Monitoring Station measured by MDAQMD has the highest background concentrations and was conservatively used to evaluate impacts in the MDAB.

As noted above, the SCAB segment with the highest background concentrations was selected to provide a conservative analysis. The two locations in the MDAB include a segment west of BIG and a segment east of BIG. Segments east and west of BIG were selected because train volumes and associated emissions at these locations are different. Therefore, both of these segments were analyzed to disclose impacts from different emissions increases east and west of BIG.

South Coast AQMD Segment

Dispersion modeling of off-site BIG operational emissions was performed to assess impacts to air concentrations along the rail corridor within the SCAB. The segment modeled is located within SRA 12, which has been identified as the worst-case railroad segment because it has the highest background concentrations. These concentrations were modeled for BIG Opening Year (2028), Interim Year (2033), and Horizon Year (2048). **Table 41: Corridor – SCAQMD Segment Operations** presents the maximum off-site ground level concentrations of criteria pollutants estimated along the worst-case rail segment within SRA 12 of the SCAB. As shown in **Table 41**, unmitigated BIG operations would not exceed the NAAQS and CAAQS for NO_2 (1-hour), PM_{10} (24-hour and annual), and $PM_{2.5}$ (24-hour and annual) in 2028, 2033, and 2048.

Table 41: Corridor – SCAQMD Segment Operations							
Pollutant	**Averaging Time**	**Maximum Modeled Concentration**	**Background Concentration (µg/m³)[1]**	**Total Ground Level Concentration (µg/m³)**	**Threshold**		**Threshold Exceeded?[3]**
					(µg/m³)[2]	**Federal or Sate**	
2028 – SCAQMD Segment							
NO_2[4]	1-hour	1.08	128.34	129.42	339	State	No
	1-hour[4, 5]	1.07	99.92	100.99	188	Federal	No
	Annual	0.35	27.10	27.44	57	State	No
					100	Federal	No
CO	1-hour	2.07	4,926	4,928	23,000	State	No
					40,000	Federal	No
	8-hour	1.84	4,239	4,241	10,000	State/ Federal	No
PM_{10}[6]	24-hour	0.003	--	0.003	5	Federal	No
	Annual	0.001	--	0.001	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.002	--	0.002	1.2	Federal	No
	Annual	0.001	--	0.001	0.3	Federal	No
2033 – SCAQMD Segment							
NO_2[4]	1-hour	1.27	128.34	129.61	339	State	No
	1-hour[4, 5]	1.25	99.92	101.18	188	Federal	No
	Annual	0.40	27.10	27.50	57	State	No
					100	Federal	No
CO	1-hour	2.68	4,926	4,929	23,000	State	No
					40,000	Federal	No
	8-hour	2.39	4,239	4,241	10,000	State/ Federal	No
PM_{10}[6]	24-hour	0.003	--	0.003	5	Federal	No
	Annual	0.002	--	0.002	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.003	--	0.003	1.2	Federal	No
	Annual	0.002	--	0.002	0.3	Federal	No
2048 – SCAQMD Segment							
NO_2[4]	1-hour	1.88	128.34	130.22	339	State	No
	1-hour[4, 5]	1.86	99.92	101.78	188	Federal	No
	Annual	0.60	27.10	27.70	57	State	No
					100	Federal	No
CO	1-hour	3.20	4,926	4,929	23,000	State	No
					40,000	Federal	No
	8-hour	2.85	4,239	4,242	10,000	State/ Federal	No
PM_{10}[6]	24-hour	0.011	--	0.011	5	Federal	No
	Annual	0.006	--	0.006	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.010	--	0.010	1.2	Federal	No
	Annual	0.006	--	0.006	0.3	Federal	No

Notes:
[1] Background concentrations are from the South Central L.A. Monitoring Station.
[2] Ambient air quality thresholds are the NAAQS and CAAQS provided in **Table 4.** All thresholds are shown in micrograms per cubic meter (µg/m³) for comparison to modeled concentrations.

Table 41: Corridor – SCAQMD Segment Operations							
Pollutant	Averaging Time	Maximum Modeled Concentration	Background Concentration (µg/m³)[1]	Total Ground Level Concentration (µg/m³)	Threshold		Threshold Exceeded?[3]
					(µg/m³)[2]	Federal or Sate	
[3] Exceedances of the NAAQS and CAAQS are indicated in bold. [4] NO_2 concentrations were calculated per Tier 2 ARM2 ratios in U.S. EPA's 40 CFR Part 51 Appendix W, § 4.2.3.4. Conversion of NO_X to NO_2 use U.S. EPA minimum and maximum default values NO_2/NO_X of 0.5 and 0.9, respectively. [5] This comparison is to the federal NAAQS, which is a 98th percentile threshold. The background concentration is the 3-year average of the 8th highest daily maximum 1-hour concentration, over the years 2022, 2023, and 2024. [6] The thresholds for PM_{10} and $PM_{2.5}$ are incremental thresholds; therefore, the incremental concentration without background is compared to the threshold.							
Source: *Refer to* ***Appendix A3.3.***							

MDAQMD West of BIG

Dispersion modeling of off-site BIG operational emissions was performed to assess impacts to air concentrations along the rail corridor west of the BIG Footprint to the Silver Lakes Community. This segment is located closest to sensitive receptors that are not adjacent to the BIG footprint. The concentrations were modeled for BIG Opening Year 2028, Interim Year 2033, and Horizon Year 2048. **Table 42: Corridor – MDAQMD West of BIG Segment Operations** presents the maximum off-site ground level concentrations of criteria pollutants estimated along the rail segment west of BIG to the Silver Lakes Community. As shown in **Table 42**, unmitigated BIG operations would not exceed the NAAQS or CAAQS in any of the analysis years.

Table 42: Corridor – MDAQMD West of BIG Segment Operations							
Pollutant	Averaging Time	Maximum Modeled Concentration[7]	Background Concentration (µg/m³)[1]	Total Ground Level Concentration (µg/m³)	Threshold		Threshold Exceeded?[3]
					(µg/m³)[2]	Federal or Sate	
2028 – MDAQMD West of BIG Segment Operations							
NO_2[4]	1-hour	0.39	117.42	117.81	339	State	No
	1-hour[4, 5]	0.36	102.24	102.60	188	Federal	No
	Annual	0.04	26.35	26.38	57	State	No
					100	Federal	No
CO	1-hour	4.30	6,256	6,260	23,000	State	No
					40,000	Federal	No
	8-hour	1.91	5,631	5,632	10,000	State/Fed.	No
PM_{10}[6]	24-hour	-1.0E-04	--	-1.0E-04	5	Federal	No
	Annual	-6.0E-06	--	-6.0E-06	1	Federal	No
$PM_{2.5}$[6]	24-hour	-8.4E-05	--	-8.4E-05	1.2	Federal	No
	Annual	-5.9E-06	--	-5.9E-06	0.3	Federal	No
2033 – MDAQMD West of BIG Segment Operations							
NO_2[4]	1-hour	0.98	117.42	118.42	339	State	No
	1-hour[4, 5]	0.90	102.24	103.16	188	Federal	No
	Annual	0.04	23.35	23.38	57	State	No
					100	Federal	No
CO	1-hour	5.87	6,256	6,262	23,000	State	No

Table 42: Corridor – MDAQMD West of BIG Segment Operations							
Pollutant	Averaging Time	Maximum Modeled Concentration[7]	Background Concentration (µg/m³)[1]	Total Ground Level Concentration (µg/m³)	Threshold (µg/m³)[2]	Threshold Federal or Sate	Threshold Exceeded?[3]
					40,000	Federal	No
	8-hour	2.60	5,631	5,633	10,000	State/Fed.	No
PM_{10}[6]	24-hour	-4.9E-05	--	-4.9E-05	5	Federal	No
	Annual	-2.8E-06	--	-2.8E-06	1	Federal	No
$PM_{2.5}$[6]	24-hour	-3.9E-05	--	-3.9E-05	1.2	Federal	No
	Annual	-2.7E-06	--	-2.7E-06	0.3	Federal	No
2048 – MDAQMD West of BIG Segment Operations							
NO_2[4]	1-hour	0.35	117.42	117.83	339	State	No
	1-hour[4, 5]	0.32	102.24	102.62	188	Federal	No
	Annual	0.03	26.35	26.38	57	State	No
					100	Federal	No
CO	1-hour	6.16	6,256	6,262	23,000	State	No
					40,000	Federal	No
	8-hour	2.72	5,631	5,633	10,000	State/Fed.	No
PM_{10}[6]	24-hour	-9.6E-05	--	-9.6E-05	5	Federal	No
	Annual	-5.6E-06	--	-5.6E-06	1	Federal	No
$PM_{2.5}$[6]	24-hour	-7.8E-05	--	-7.8E-05	1.2	Federal	No
	Annual	-5.4E-06	--	-5.4E-06	0.3	Federal	No

Notes:
[1] Background concentrations are from the Barstow Monitoring Station (2022 – 2024). Note that CO is no longer monitored and the above data is the latest available (2019 – 2021).
[2] Ambient air quality thresholds are the NAAQS and CAAQS provided in **Table 4.** All thresholds are shown in micrograms per cubic meter (µg/m³) for comparison to modeled concentrations.
[3] Exceedances of the NAAQS and CAAQS are indicated in bold.
[4] NO_2 concentrations were calculated per Tier 2 ARM2 ratios in U.S. EPA's 40 CFR Part 51 Appendix W, § 4.2.3.4. Conversion of NO_X to NO_2 use U.S. EPA minimum and maximum default values NO_2/NO_X of 0.5 and 0.9, respectively.
[5] This comparison is to the federal NAAQS, which is a 98th percentile threshold. The background concentration is the 3-year average of the 8th highest daily maximum 1-hour concentration, over the years 2022, 2023, and 2024.
[6] The thresholds for PM_{10} and $PM_{2.5}$ are incremental thresholds; therefore, the incremental concentration without background is compared to the threshold.
[7] The Barstow Yard switcher replacement was conservatively not considered in the NAAQS and CAAQS modeling for the unmitigated project. Unlike the HRA, the NAAQS and CAAQS modeling is the max concentration at the fenceline and the switcher replacement would not substantially change the BIG concentrations.

Source: *Refer to **Appendix A3.4.***

MDAQMD East of BIG

Dispersion modeling of off-site BIG operational emissions was performed to assess impacts to air concentrations along the rail corridor east of the BIG footprint. This segment is located closest to sensitive receptors that are not adjacent to the BIG footprint. The concentrations were modeled for BIG Opening Year 2028, Interim Year 2033, and Horizon Year 2048. **Table 43: Corridor – MDAQMD East of BIG Segment Operations** presents the maximum off-site ground level concentrations of criteria pollutants estimated along the rail segment east of BIG. As shown in **Table 43**, unmitigated BIG operations would not exceed the NAAQS or CAAQS in any of the analysis years.

Table 43: Corridor – MDAQMD East of BIG Segment Operations							
Pollutant	Averaging Time	Maximum Modeled Concentration[7]	Background Concentration (µg/m³)[1]	Total Ground Level Concentration (µg/m³)	Threshold (µg/m³)[2]	Threshold Federal or Sate	Threshold Exceeded?[3]
2028 – MDAQMD East of BIG Segment Operations							
NO_2[4]	1-hour	16.81	117.42	134.24	339	State	No
	1-hour[4, 5]	13.14	102.24	115.39	188	Federal	No
	Annual	0.56	26.35	26.90	57	State	No
					100	Federal	No
CO	1-hour	5	6,256	6,261	23,000	State	No
					40,000	Federal	No
	8-hour	2	5,631	5,632	10,000	State/Fed.	No
PM_{10}[6]	24-hour	0.04	--	0.04	5	Federal	No
	Annual	0.01	--	0.01	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.04	--	0.04	1.2	Federal	No
	Annual	0.01	--	0.01	0.3	Federal	No
2033 – MDAQMD East of BIG Segment Operations							
NO_2[4]	1-hour	21.66	117.42	139.08	339	State	No
	1-hour[4, 5]	16.39	102.24	119.17	188	Federal	No
	Annual	0.72	26.35	27.07	57	State	No
					100	Federal	No
CO	1-hour	6	6,256	6,263	23,000	State	No
					40,000	Federal	No
	8-hour	2	5,631	5,633	10,000	State/Fed.	No
PM_{10}[6]	24-hour	0.05	--	0.05	5	Federal	No
	Annual	0.01	--	0.01	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.05	--	0.05	1.2	Federal	No
	Annual	0.01	--	0.01	0.3	Federal	No
2048 – MDAQMD East of BIG Segment Operations							
NO_2[4]	1-hour	20.49	117.42	137.92	339	State	No
	1-hour[4, 5]	16.02	102.24	118.26	188	Federal	No
	Annual	0.68	26.35	27.03	57	State	No
					100	Federal	No
CO	1-hour	7	6,256	6,263	23,000	State	No
					40,000	Federal	No
	8-hour	3	5,631	5,633	10,000	State/Fed.	No
PM_{10}[6]	24-hour	0.04	--	0.04	5	Federal	No
	Annual	0.01	--	0.01	1	Federal	No
$PM_{2.5}$[6]	24-hour	0.04	--	0.04	1.2	Federal	No
	Annual	0.01	--	0.01	0.3	Federal	No

Notes:

[1] Background concentrations are from the Barstow Monitoring Station (2022 – 2024). Note that CO is no longer monitored and the above data is the latest available (2019 – 2021).

[2] Ambient air quality thresholds are the NAAQS and CAAQS provided in **Table 4.** All thresholds are shown in micrograms per cubic meter (µg/m³) for comparison to modeled concentrations.

[3] Exceedances of the NAAQS and CAAQS are indicated in bold.

[4] NO_2 concentrations were calculated per Tier 2 ARM2 ratios in U.S. EPA's 40 CFR Part 51 Appendix W, § 4.2.3.4. Conversion of NO_X to NO_2 use U.S. EPA minimum and maximum default values NO_2/NO_X of 0.5 and 0.9, respectively.

Table 43: Corridor – MDAQMD East of BIG Segment Operations							
Pollutant	Averaging Time	Maximum Modeled Concentration[7]	Background Concentration (µg/m³)[1]	Total Ground Level Concentration (µg/m³)	Threshold		Threshold Exceeded?[3]
					(µg/m³)[2]	Federal or Sate	
[5] This comparison is to the federal NAAQS, which is a 98th percentile threshold. The background concentration is the 3-year average of the 8th highest daily maximum 1-hour concentration, over the years 2022, 2023, and 2024. [6] The thresholds for PM_{10} and $PM_{2.5}$ are incremental thresholds; therefore, the incremental concentration without background is compared to the threshold. [7] The Barstow Yard switcher replacement was conservatively not considered in the NAAQS and CAAQS modeling for the unmitigated project. Unlike the HRA, the NAAQS and CAAQS modeling is the max concentration at the fenceline and the switcher replacement would not substantially change the BIG concentrations.							
Sources: *Refer to* ***Appendix A3.5***							

6.6 CO Hot spots

An analysis of CO "hot spots" (CO exceedances are caused by vehicular emissions, primarily when vehicles are idling at intersections) is needed to determine whether the change in an intersection's level-of-service resulting from BIG would have the potential to exceed CAAQS or NAAQS.

BIG is in a rural area and as shown in the operational analysis, above, BIG CO concentrations would not exceed the 1-hour or 8-hour NAAQS or CAAQS when compared with background concentrations. Thus, BIG would not have the potential to cause an intersection to reach the volume of traffic required to generate a CO hot spot. Note that the Barstow Yard switcher replacements would not affect CO hotspots because Tier 4 emission standards primarily reduce NO_X and particulate matter, but CO emission rates are unchanged.

6.7 Asbestos

BIG would acquire various properties, many of which may contain structures which need to be removed. Many of the structures within BIG footprint may have been built with structural and building materials that contain asbestos.

The demolition of structures with asbestos-containing materials is subject to National Emission Standards for HAPs limitations and would require an asbestos inspection BIG would comply with the MDAQMD asbestos requirements, including submission of an asbestos survey and notification of demolition form. Strict compliance with existing asbestos regulations would prevent a substantial effect from asbestos. Additionally, The County is not designated by California Geological Survey as areas likely to contain NOA (California Department of Conservation, 2000). Therefore, NOA would not likely be disturbed during BIG construction.

6.8 Valley Fever

As discussed above, Valley Fever is not highly endemic to The County with an incident rate of 1.8 cases per 100,000 people (CDPH, 2017, p. 8). In contrast, in 2016 the statewide annual incident rate was 13.7 per 100,000 people. The California counties considered highly endemic for Valley Fever include Kern (251.7 per 100,000), Kings (157.3 per 100,000), San Luis Obispo (82.8 per 100,000), Fresno (60.8 per

100,000), Tulare (45.3 per 100,000), Madera (31.5 per 100,000), and San Joaquin (25.3 per 100,000), and accounted for 70 percent of the reported cases in 2016 (CDPH, 2017, p. 7-8).

Even if present at the site, construction activities may not result in increased incidence of Valley Fever. Propagation of Valley Fever is dependent on climatic conditions, with the potential for growth and surface exposure highest following early seasonal rains and long dry spells. Valley Fever spores can be released when filaments are disturbed by earthmoving activities, although receptors must be exposed to and inhale the spores to be at increased risk of developing Valley Fever. Moreover, exposure to Valley Fever does not guarantee that an individual will become ill—approximately 60 percent of people exposed to the fungal spores are asymptomatic and show no signs of an infection (USGS, 2000, p. 4).

To reduce fugitive dust from BIG and minimize adverse air quality impacts, BIG would employ dust control measures in accordance with the MDAQMD Rules 401 and 403.2, which limit the amount of fugitive dust generated during construction and would also be required to comply with **MM BIG AQ-1,** which requires controls for fugitive dust emissions. These requirements are consistent with California Department of Public Health recommendations for the implementation of dust control measures, including regular application of water during soil-disturbance activities, to minimize impacts related to Valley Fever (CDPH, 2013, p. 4-5). Further, regulations designed to minimize exposure to Valley Fever hazards are included in Title 8 of the CCR and would be complied with during BIG's construction phase (California Department of Industrial Relations, 2025).

BIG would not result in a significant impact attributable to Valley Fever exposure based on its geographic location and compliance with applicable regulatory standards and dust control measures, which will serve to minimize the release of and exposure to fungal spores. Therefore, impacts associated with Valley Fever exposure for sensitive receptors would be less than significant.

6.9 Potential Impacts of Toxic Air Contaminants

BIG Footprint

The health effects discussion is guided by the emissions analysis and HRA. The emissions analysis involves construction and operational activity data, and emission factors, which are used to estimate emissions for all BIG sources.

The HRA analyzes BIG TAC emissions and human exposure to the emissions during 9-, 20-, 30-, and 70-year periods, each starting the year after the baseline and reflecting OEHHA-recommended exposure durations for different receptor types. The impacts evaluated address three types of health effects (individual lifetime cancer risk, chronic non-cancer HI, and acute non-caner HI). A threshold exceedance indicates a substantial contribution to adverse health effects related to TAC exposure.

This analysis examines project impacts resulting from BIG construction and operations from the commencement of construction in 2025 for a 30-year exposure duration for sensitive/residential receptors, 25-year exposure duration for worker receptors, and 9-year exposure duration for school-site student receptors. Because cancerous health risks result from long exposure periods, construction health

risk and operational health risk are analyzed both separately and combined, based on the sources listed in **Table 22**.

Risk Uncertainty. HRAs such as the one presented in this analysis are not intended to quantify estimates of the absolute health risk or expected disease incidence for a population, Rather, HRAs such as this one are conducted to allow for comparisons of the potential health risks of different alternative to each other and the significance criteria (OEHHA, 2015, P.1-2). Consistent with agency guidelines and standard approaches to regulatory risk assessment, this risk assessment used health-protective (high-end/conservative) assumptions to provide a margin of safety with respect to human health (OEHHA, 2015, p.1-7).

What is a Carcinogenic Risk Assessment?

Individual cancer risk is the additional probability a person exposed to a toxic pollutant may have of developing cancer after long-term exposure to a project-related TAC. The individual cancer risk does not mean that a person *will* develop cancer from estimated exposures to toxic air pollutants, nor should it be interpreted as the number of people that will develop cancer at a specific location. The individual cancer risk is based on continual long-term exposure and estimated annual concentrations that may, or may not, vary in real time for the location or person under evaluation. Cancer risk is typically expressed as the chance of an individual developing cancer if a million people were exposed continuously for a specified duration (e.g. 30-years) to the same concentration of toxic emissions being evaluated.

Modeled pollutant concentrations will vary based on many factors. Some of the factors include how the pollutant is released (type of source [i.e., truck, locomotive, etc.]; height, speed, and temperature of release; terrain in the surrounding area; presence of buildings), wind direction and speed, and proximity of receptors.

As described above, this analysis uses a 10 in one million cancer (carcinogenic) risk threshold. Expressed as a probability, 10 in one million is 0.00001 or 0.001 percent. To provide context, the following is a list of risks associated with other known activities (risk of occurrence in an individual's lifetime):

Occurrence	**Lifetime Risk**
• Contracting cancer (from all sources)	• 250,000 in a million
• Dying of cancer	• 140,000 in a million
• Dying in a car accident	• 12,000 in a million
• Dying from a fall	• 4,600 in a million
• Dying from excessive heat	• 73 in a million
• Being struck by lighting	• 7.4 in a million

(Source: San Joaquin Valley Air Pollution Control District. 2015. *Guidance for Assessing and Mitigating Air Quality Impacts*, p. 100).

As shown above, the 10 in one million threshold is conservative in protecting public health. For instance, the chance of contracting cancer from a project with a risk of 10 in a million is, on the face of it, less than significant when compared to the 250,000 in a million overall chance of contracting cancer from all sources.[31]

It is important to note the following conservative modeling assumptions: exposure duration is based on continual heavy-duty truck operation along nearby roadways while the majority of heavy-duty truck activity along roadways would occur during daytime hours, exposure of residential receptors begin during the third trimester in utero while that may only represent a fraction of the population present in the surrounding area, and receptors would be located outdoors in the same location and continuously exposed to toxic contaminants for a specific duration without consideration of time spent indoors. Exposure would be reduced when factoring in that a majority of the heavy-duty truck trips along nearby roadways would occur during daytime hours, residential receptors may relocate to the project area later in life and begin exposure as an adult, and a majority of a receptor's time is spent indoors with windows closed and HVAC filtration that further reduces indoor pollutant concentrations.

While the level of significance for the purposes of this analysis is 10 in one million (0.001 percent), the MDAQMD considers a risk of 100 in one million (0.01 percent) to be a "significant risk". The MDAQMD's Air Toxics Program Public Notification Procedures identifies 10 in one million for lifetime Maximum Individual Cancer Risk (MICR) as the level for informing the public per the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (Air Toxics Act; Health and Safety Code [H&S Code] §§ 44300-44384). The Air Toxics Act does not require emissions or health risk reductions. The MDAQMD's Air Toxics "Hot Spots" Program Risk Reduction Audit And Plan Procedures identifies 100 in one million as the level of risk considered a "significant risk" and would require a risk reduction audit and plan.

Table 44: Carcinogenic Risk Assessment (Construction Only) shows the unmitigated health risk for BIG construction. The exposure duration for construction is approximately 2.8-years. The unmitigated construction risk assessment includes existing regulations summarized in **Table 9** above. **Table 9** also shows mitigated construction risk. Unmitigated and mitigated construction risk would exceed the 10 in one million incremental threshold at residential and worker receptors. See **Figure 11: Construction Health Risk Assessment (Unmitigated)** and **Figure 12: Construction Health Risk Assessment (Mitigated)**. As noted above, unmitigated risk would be minimized with **MM BIG AQ-3** through **MM BIG AQ-6**, which would reduce construction exhaust emissions (i.e., DPM) by requiring Tier 4 offroad equipment, renewable diesel, newer model year on-road construction trucks, and the minimization of batch plant emissions. Construction carcinogenic risk would remain above the 10 in one million threshold despite the implementation of mitigation measures.

[31] The 250,000 in a million overall chance of contracting cancer from all sources may also be a conservative. The South Coast AQMD's Multiple Air Toxics Exposure Study V (August 2021) notes that in the U.S. population, the chances of developing cancer over a lifetime is 38.4 percent. This translates into a risk of about 384,000 in a million over a lifetime.

Table 44: Carcinogenic Risk Assessment (Construction Only)				
Receptor Location[1,2]	Risk per Million			Threshold Exceeded?
	Unmitigated Cancer Risk	Mitigated Cancer Risk	Significance Threshold	
Maximally Exposed Individual Resident (MEIR)	45.84	24.52	10	Yes
Maximally Exposed Individual Worker (MEIW)	21.98	13.11	10	Yes
Maximally Exposed Student Receptor	10.47	5.96	10	No
Maximally Exposed Park Receptor	2.57	1.64	10	No
Notes: 1. Receptors described here reflect the receptor shown in **Table 27** with the highest carcinogenic risk 2. Sensitive receptor locations can be seen in **Figure 9.**				
Source: *Refer to* ***Appendix A4.1***				

Table 45: Carcinogenic Risk Assessment (Operations Only) shows the unmitigated and mitigated health risk for BIG operations. Based on OEHHA Risk Assessment Guidelines, the exposure duration for a resident is 30 years, beginning with the third trimester; the exposure duration for workers is 25-years, and the exposure duration for students is 9-years. The unmitigated operational risk assessment includes existing regulations summarized in **Table 9** above.

Table 45: Carcinogenic Risk Assessment (Operations Only)					
Receptor Location[1,2]	Risk per Million			Significance Threshold	Threshold Exceeded?
	Unmitigated Cancer Risk		Mitigated Cancer Risk		
	Without Barstow Switcher Replacement	With Barstow Switcher Replacement			
Maximally Exposed Individual Resident (MEIR)	42.63	40.17	39.97	10	Yes
Maximally Exposed Individual Worker (MEIW)	5.33	5.09	4.04	10	No
Maximally Exposed Student Receptor	6.38	6.26	3.90	10	No
Maximally Exposed Park Receptor	5.88	5.69	3.68	10	No
Notes: 1. Receptors described here reflect the receptor shown in Table 27 with the highest carcinogenic risk 2. Sensitive receptor locations can be seen in Figure 9.					
Sources: *Refer to* ***Appendix A4.2***					

As shown in **Table 45**, unmitigated operations would exceed the MDAQMD threshold of 10 in one million. See **Figure 13: Operations Health Risk Assessment – West Leads (Unmitigated)**, **Figure 14: Operations Health Risk Assessment – BIG and East Leads (Unmitigated)**, **Figure 15: Operations Health Risk Assessment – East of BIG (Unmitigated)**, **Figure 16: Operations Health Risk Assessment – East of BIG (Unmitigated with Switcher Replacement), Figure 17: Operations Health Risk Assessment – West Leads (Mitigated), Figure 18: Operations Health Risk Assessment – BIG and East Leads (Mitigated),** and **Figure 19: Operations Health Risk Assessment – East of BIG (Mitigated)**. These impacts would be reduced with implementation of **LOR AQ-3**, which minimizes construction idling. **MM BIG AQ-3** through **MM BIG AQ-6** would reduce cancer causing emissions from BIG construction and **MM BIG AQ-8** through **MM BIG AQ-14** would reduce cancer causing emissions from BIG operations. Impacts would remain above MDAQMD's thresholds after mitigation is applied. Unmitigated and mitigated risk would exceed the 10 in one million

incremental threshold at residential receptors during operations. However, the risk for student, worker, and park receptors would be less than significant.

Table 46: Carcinogenic Risk Assessment (Construction and Operations) shows the unmitigated and mitigated health risk associated with a continued exposure starting from the beginning of BIG construction for 2.8-years and the operational exposure continuing for the remaining time (e.g., 27.2-years for residential exposure). See **Figure 20: Combined Construction and Operational Health Risk Assessment – West Leads (Unmitigated)**, **Figure 21: Combined Construction and Operational Health Risk Assessment – BIG and East Leads (Unmitigated)**, **Figure 22: Combined Construction and Operational Health Risk Assessment – East of BIG (Unmitigated)**, **Figure 24: Combined Construction and Operational Health Risk Assessment – West Leads (Mitigated)**, **Figure 23: Combined Construction and Operational Health Risk Assessment – East of BIG (Unmitigated with Switcher Replacement)**, **Figure 25: Combined Construction and Operational Health Risk Assessment – BIG and East Leads (Mitigated)**, and **Figure 26: Combined Construction and Operational Health Risk Assessment – East of BIG (Mitigated)**.

Unmitigated and mitigated risk would exceed the 10 in one million incremental threshold at residential receptors. As noted above, unmitigated risk would be minimized with **LOR AQ-3**. The risk for student, worker, and park receptors would be less than significant.

As discussed above, individual residential cancer risk is calculated assuming that an individual would be exposed to the same concentration of a pollutant for a duration of 30 years without consideration of time spent indoors. Exposure would be reduced when factoring in time spent indoors with windows closed. With high summer temperatures in the City of Barstow, the use of air conditioning is likely to reduce indoor temperatures. With consideration of time spent indoors and the likelihood that windows would be closed and air conditioning would be used during the summer months, risk would be lower than what is shown in **Table 46.**

Table 46: Carcinogenic Risk Assessment (Construction and Operations)

Receptor Location	Risk per Million[1]			Significance Threshold	Threshold Exceeded?
	Unmitigated Cancer Risk		Mitigated Cancer Risk		
	Without Barstow Switcher Replacement	With Barstow Switcher Replacement			
Maximally Exposed Individual Resident (MEIR)	64.58	64.04	40.03	10	**Yes**
Maximally Exposed Individual Worker (MEIW)	26.47	26.28	16.36	10	**Yes**
Maximally Exposed Student Receptor	15.20	15.09	8.50	10	No
Maximally Exposed Park Receptor	6.46	6.27	3.96	10	No

Notes:

[1] The combined construction and operational risk is not the sum of the individual risk for each because the combined scenario assumes continuous exposure with different start ages, exposure durations, breathing rates, and age sensitivity factors. For example, the operations only scenario assumes 30 years of operational exposure whereas the combined risk is 2.8 years of construction + 27.2 years of operations.

Sources: Refer to ***Appendix A4.3***

The cancer risk isopleths are shown below**.** In addition, the estimated point of maximum impact and maximum individual lifetime cancer risk may not be replicated by air monitoring.

Figure 11: Construction Health Risk Assessment (Unmitigated)

Figure 12: Construction Health Risk Assessment (Mitigated)

Figure 13: Operations Health Risk Assessment – West Leads (Unmitigated)

Figure 14: Operations Health Risk Assessment – BIG and East Leads (Unmitigated)

Figure 15: Operations Health Risk Assessment – East of BIG (Unmitigated)

Figure 16: Operations Health Risk Assessment – East of BIG (Unmitigated with Switcher Replacement)

Figure 17: Operations Health Risk Assessment – West Leads (Mitigated)

Figure 18: Operations Health Risk Assessment – BIG and East Leads (Mitigated)

Figure 19: Operations Health Risk Assessment – East of BIG (Mitigated)

Figure 20: Combined Construction and Operational Health Risk Assessment – West Leads (Unmitigated)

Figure 21: Combined Construction and Operational Health Risk Assessment – BIG and East Leads (Unmitigated)

Figure 22: Combined Construction and Operational Health Risk Assessment – East of BIG (Unmitigated)

Figure 23: Combined Construction and Operational Health Risk Assessment – East of BIG (Unmitigated with Switcher Replacement)

Figure 24: Combined Construction and Operational Health Risk Assessment – West Leads (Mitigated)

Figure 25: Combined Construction and Operational Health Risk Assessment – BIG and East Leads (Mitigated)

Figure 26: Combined Construction and Operational Health Risk Assessment – East of BIG (Mitigated)

Population Cancer Burden

What is Population Cancer Burden?

Population cancer burden represents the number of excess cancer cases that could occur in the population assuming a worst-case 70-year exposure duration, beginning from the third trimester in utero. Population cancer burden quantifies the estimated increase in the number of cancer cases by multiplying the individual cancer risk (calculated using the conservative assumptions discussed above) by the exposed population. This assumes that the population would be exposed to BIG contaminants continuously for 70-years beginning in the third trimester in utero. This is a conservative assumption because the calculation does not consider members of the population beginning their exposure as adults, resulting in members of the population being exposed to less than 70-years of BIG construction and operations (i.e., households moving out of the area).

Table 47: Population Cancer Burden at 70 Year Exposure summarizes population cancer unmitigated and mitigated (refer to **Section 7.0**) burden by census tract. The cancer burden calculation provides an estimate of the increased number of cancer cases as a result of exposures to TAC emissions. The total cancer burden is the product of the number of persons in a population area (such as a census tract) and the estimated individual risk from TACs in that population area and then summed over all of the population areas. The unmitigated cancer burden includes the LORs noted above, as well as the existing regulations summarized in **Table 9** above.

Table 47: Population Cancer Burden at 70 Year Exposure

Census Tract ID	2048 Population	Unmitigated Risk at the Centroid	Unmitigated Burden	Mitigated Risk at the Centroid	Mitigated Burden
11801	4,787	1.16E-05	0.06	7.54E-06	0.04
11802	3,875	2.27E-05	0.09	1.54E-05	0.06
11602	1,862	4.22E-07	0.00	2.48E-07	0.00
11900	3,078	1.39E-06	0.00	8.03E-07	0.00
9400	4,657	6.66E-06	0.03	3.64E-06	0.02
11700	1,693	3.66E-07	0.00	1.97E-07	0.00
9300	1,411	4.01E-06	0.01	2.18E-06	0.00
Total Cancer Burden		-	**0.19**	-	**0.12**
Significance Threshold		-	0.5	-	0.5
Threshold Exceeded?		-	No	-	No

Sources:
Census data from the 2020 Decennial Census official population.
*Refer to **Appendix A4.4***

Chronic Hazard Index

What is Chronic Hazard Index?

Chronic HI measures the likelihood that chronic noncancer health effects including cardiovascular disease, diabetes, and respiratory health illnesses would occur. A chronic HI below 1.0 indicates that exposure to a TAC is not expected to cause adverse noncancer health effects. Chronic HI is calculated by dividing the pollutant concentration by the chronic REL. RELs are published by OEHHA for various TACs. For respiratory

risk, the chronic REL is the airborne concentration of a substance that is not expected to cause adverse health effects in the general population, even with continuous exposure over a lifetime.

The significance thresholds for TAC exposure also require an evaluation of non-cancer risk stated in terms of a HI. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. RELs are designed to protect sensitive individuals within the population.

Unmitigated and mitigated (refer to **Section 7.0**) chronic non-carcinogenic impacts are shown in **Table 48: Chronic Hazard Assessment Results** for the worst-case peak receptor. A chronic HI of 1.0 is considered individually significant. The HI is calculated by dividing the chronic exposure by the REL. The chronic hazard was calculated based on the highest annual average concentration at the maximally exposed individual receptor. The highest worst-case chronic HI associated with unmitigated DPM emissions from BIG in year 2028 would be 0.08. Therefore, even without mitigation, non-carcinogenic hazards are calculated to be less than the MDAQMD significance threshold of 1.0 at all receptors a less than significant impact would occur. With mitigation the chronic hazard would be reduced to 0.06. Impacts would be less than significant.

Table 48: Chronic Hazard Assessment Results at Peak Receptor

Emissions Sources	Concentration ($\mu g/m^3$)[1,2]	Chronic Hazard
2028 Unmitigated	0.38	0.08
2028 Mitigated[2]	0.29	0.06
2033 Unmitigated	0.20	0.04
2033 Mitigated[2]	0.19	0.04
2048 Unmitigated	0.63	0.13
2048 Mitigated[2]	0.63	0.13
Threshold	N/A	1
Threshold Exceeded?	**N/A**	**No**

Note:
[1] The reported pollutant concentration (annual period) is at the closest receptor (maximally exposed individual receptor).
[2] Impacts would not exceed applicable thresholds and mitigation is not required. However, mitigation is required to reduce criteria pollutant emissions impacts and mitigated results are included for disclosure purposes. The mitigated exposure scenario shows the risk with **MM BIG AQ-1** through **MM BIG AQ-10**.
Refer to Appendix A4.5

Risk Uncertainty. As discussed above, HRAs such as the one presented in this analysis are not intended to provide estimates of the absolute health risk or expected incidence of disease in a population. Rather, HRAs are conducted to allow comparisons of the potential health impacts of different alternatives to each other and to significance criteria (OEHHA, 2015, p. 1-2). Consistent with agency guidelines and standard approaches to regulatory risk assessment, this risk assessment used health-protective (conservative) assumptions to provide a margin of safety with respect to human health (OEHHA, 2015, p. 1-7).

Improvements in the Corridor

As previously discussed, **Table 41** shows that BIG would not increase PM pollutant emissions in the Corridor within the SCAB (i.e., the South Coast AQMD's jurisdiction). DPM is the primary TAC of concern because it is the most potent TAC emitted from diesel exhaust and includes hundreds of chemicals. DPM is a subset of PM_{10}; however, locomotive emission factors are only available for PM_{10} and not DPM. Therefore, although DPM is a subset of PM_{10} exhaust, this analysis conservatively assumes all PM_{10} exhaust emissions are DPM.[32] **Table 49: Unmitigated Net Operational DPM Emissions Along Corridor (Tons per Year)** shows that BIG would reduce PM_{10} (DPM) emissions in the Corridor. BIG's DPM emission reduction occur from the Tier 4 dedicated fleet from the Ports to BIG's intermodal facility, and increasing the renewable diesel blend from one percent to nine percent. Therefore, BIG would improve DPM emissions in the Corridor and would result in a beneficial impact. Thus, there is no potential cancer risk, hazard index, or cancer burden impacts in the Corridor west of BIG.

Table 49: Unmitigated Net Operational DPM Emissions Along Corridor (Tons per Year)

Source	DPM (as Tons per Year of PM_{10} Exhaust)		
	2028	2033	2048
West of BIG (Within Mojave Desert Air Basin)[1]			
Operations – Corridor Emissions Without BIG	17.85	17.71	16.86
Operations – Corridor Emissions With BIG	17.74	17.66	16.76
Change	-0.11	-0.05	-0.10
Within South Coast Air Basin			
Operations – Corridor Emissions Without BIG	37.16	37.04	35.47
Operations – Corridor Emissions With BIG	36.77	36.74	35.47
Change	-0.39	-0.29	0.00

Notes:
1. As shown in Figure 14 ,impacts above 10 in a million cease along the rail Corridor approximately two miles east of BIG. As there are no other emissions associated with BIG other than the Corridor, and because there are few sensitive receptors along the Corridor east of BIG, there are no potential additional significant impacts east of BIG.

Source: SCAB only Corridor emissions per EnSafe. 2025. *BNSF Barstow International Gateway Corridor Emissions Analysis;* refer to **Appendix B**

Impact 5.3-4 Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

6.10 Construction

The sensitive receptors nearest BIG are approximately 120 feet southeast of the BIG footprint; see **Table 27**. Odors would only be a potential concern within the BIG footprint. During construction-related activities, some odors (not substantial pollutant concentrations) that may be detected are those typical of construction vehicles (e.g., diesel exhaust from grading and construction equipment). These odors are

[32] More than 90 percent of DPM is less than 1 um in diameter and is a subset of PM2.5 and PM2.5 comprises a portion of PM10. Thus, assuming PM10 as the surrogate for DPM constitutes a conservative analysis. Source: CARB. ND. *Inhalable Particulate Matter and Health (PM2.5 and PM10)*. https://ww2.arb.ca.gov/resources/inhalable-particulate-matter-and-health#:~:text=Fine%20particulate%20matter%20is%20defined,comprises%20a%20portion%20of%20PM10. CAPCOA and CARB. 2024 (July). *Non-Vehicular Diesel Engine Risk Assessment Guidance*. https://ww2.arb.ca.gov/sites/default/files/classic/ab2588/2024%20DICE%20Screening%20Risk%20Guidelines.pdf.

a temporary short-term impact that is typical of construction projects and would disperse rapidly. Therefore, BIG would not result in emissions leading to odors that would adversely affect a substantial number of people.

6.11 Operations

CARB's *Air Quality and Land Use Handbook* identifies the sources of the most common odor complaints received by local air districts (CARB, 2005a, p. 34). Typical sources include sewage treatment plants, landfills, recycling facilities, petroleum refineries, and livestock operations. BIG does not contain any of the land uses identified as typically associated with emissions of objectionable odors.

BIG operations would generate air pollutants because of the exhaust from diesel fuel combustion. The maintenance activities and locomotive idling would generate the most diesel emissions. The chemical species found in diesel exhaust include some that are known to produce odors and that can result in the characteristic diesel exhaust odor with which most people are familiar.

As show in **Table 27**, the sensitive receptors nearest BIG are approximately 120 feet southeast of the BIG footprint. Receptors next to the east lead tracks are currently adjacent to the existing BNSF tracks. Thus, these receptors would experience the incremental increase from being closer to the proposed tracks. The grading proposed for BIG involves lowering the existing grade by up to approximately 37 feet from Main Street. Therefore, receptors near the intermodal facility would be substantially buffered from idling train exhaust odors by terrain differences, the proposed slope, and the proposed storage areas.

The mobile nature of most BIG emission sources would help to disperse odors. All line-haul locomotives entering the BIG footprint would be equipped with AESS technology, which would limit idling time for any single location to 15 minutes, after which the AESS will cause all but one locomotive to shut down. Thus, with AESS technology, idling and odors from diesel emissions would be minimized.

Although offensive odors rarely cause physical harm, they can be unpleasant and generate citizen complaints. MDAQMD Rule 402 (nuisance) places general limitations on nuisances including odors. Specifically, Rule 402 prohibits the discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. These limitations are based on complaints and enforced by the local air pollution control officer. Moreover, the distance between BIG emission sources and the nearest sensitive receptor is expected to be enough to allow for adequate dispersion of these emissions to below objectionable odor levels.

Given the rural nature of the BIG footprint and that BIG would not generate substantial odors, BIG would be likely to result in minor changes in the overall odor environment in the vicinity above baseline conditions. As such, the potential is low for BIG to produce objectionable odors that would substantially affect a sensitive receptor and impacts would be less than significant.

Mitigation Measures: No mitigation is required.

7.0 MITIGATION MEASURES

MM BIG AQ-1 **Fugitive Dust Emissions**. During construction, the contractor shall employ the following measures to minimize and control fugitive dust emissions. The contractor shall prepare a fugitive dust control plan that complies with MDAQMD Rule 403, which, at a minimum, shall describe how each measure would be employed, identify the individual responsible for ensuring implementation, and address the following components unless alternative measures are approved by the MDAQMD.

- Water unpaved road surface shall be maintained with adequate moisture.
- Limit vehicle travel speed on unpaved roads to 25 miles per hour for loaded haul trucks which may be exceeded if visible fugitive dust is not generated.
- Reduce non-essential dust-generating activities when average wind speed exceeds 25 mph.
- Stabilize disturbed surface areas, including storage piles, that are not being used for over two weeks, by using water, a chemical stabilizer/suppressant, hydro mulch, or by covering with a tarp or other suitable cover or vegetative ground cover, to control fugitive dust emissions effectively. In areas adjacent to organic farms, the Contractor would use non-chemical means of dust suppression. Use of a water truck during visible dusting episodes is considered sufficient for compliance with this measure. For disturbed surface areas, project-related dust generating activities should be based on the difference between upwind and downwind dust (i.e., the metric should be no more dust than currently exiting the site).
- For buildings up to 6 stories in height, wet all exterior surfaces of buildings during demolition.

MM BIG AQ-2 **Low VOC Paint (Construction and Operations).** During construction and operations, BIG shall utilize “Super-Compliant” low VOC paints. Super-Compliant low VOC paints shall be no more than 10g/L of VOC. Prior to issuance of building permits, the City of Barstow Building and Safety Department shall confirm that plans include the following specifications:

- All architectural coatings will be super-compliant low VOC paints.
- Recycle leftover paint. Take any leftover paint to a hazardous waste center; do not mix leftover water-based and oil-based paints.
- Keep lids closed on all paint containers when not in use to prevent VOC emissions and excessive odors.
- For water-based paints, clean up with water only. Whenever possible, do not rinse the cleanup water down the drain or pour it directly into the ground or the storm drain. Set aside the can of cleanup water and take it to the hazardous waste center (www.cleanup.org).
- Use compliant low-VOC cleaning solvents to clean paint application equipment.

- Keep all paint- and solvent-laden rags in sealed containers to prevent VOC emissions.
- Contractors shall construct/build with materials that do not require painting and use pre-painted construction materials to the extent practicable.
- Use high-pressure/low volume paint applicators with a minimum transfer efficiency of at least 50 percent or other application techniques with equivalent or higher transfer efficiency.

MM BIG AQ-3 **Reduce Exhaust Emissions from Off-Road Construction Equipment.** Prior to issuance of construction contracts, BNSF or its designee shall incorporate the following off-riad construction equipment exhaust emissions requirements into the contract specifications:

- All heavy-duty diesel off-road construction equipment used during the construction phase shall meet Tier 4 Final engine requirements, except for specialized equipment, such as Caterpillar 657 Scrapers, Caterpillar 777 Articulated Off-Highway Trucks, track laying machines, ballast regulators, and other specialized rail equipment that are not available as Tier 4. In the event that non-specialized construction equipment cannot meet to Tier 4 Final engine certification, the Project representative or contractor must demonstrate through future documentation with written findings that no Tier 4 equipment of that type are reasonably available. Alternative strategies may include, but would not be limited to, construction equipment with Tier 4 Interim or reduction in the number and/or horsepower rating of construction equipment and/or limiting the number of construction equipment operating at the same time.
- A copy of each unit's certified tier specification and shall be made available to the City in quarterly reports.

MM BIG AQ-4 **Renewable Diesel (Construction).** During construction, the Contractor shall use renewable diesel fuel to minimize and control exhaust emissions from heavy-duty diesel-fueled construction equipment and off-road heavy diesel trucks, except that traditional diesel can be used where renewable diesel is not available from suppliers within 200 miles of the BIG footprint. Renewable diesel shall meet the most recent ASTM D975 specification for Ultra Low Sulfur Diesel and have a carbon intensity no greater than 50 percent of diesel with the lowest carbon intensity among petroleum fuels sold in California. The Contractor shall provide the City with quarterly reports of renewable diesel purchase records and equipment and vehicle fuel consumption. The construction contract shall identify the quantity of traditional diesel purchased and fully document the availability and price of renewable diesel to meet BIG demand.

MM BIG AQ-5 **Reduce Exhaust Emissions from On-Road Construction Equipment.** Prior to issuance of construction contracts, the general contractor shall incorporate the following material-hauling heavy truck fleet mix requirements into the contract specifications:

- All on-road trucks used to haul construction materials shall consist of an average fleet mix of equipment model year 2010 or newer, but no less than the average fleet mix for the current calendar year as set forth in the CARB's EMFAC2021 database.

- The contractor shall provide documentation to BNSF of efforts to secure such a fleet mix.
- The contractor shall keep a written record of the fleet mix for on-road construction equipment during BIG construction and provide the City with annual reports documenting compliance.

MM BIG AQ-6 **Reduce the Potential Impact of Concrete and Asphalt Batch Plants.** Prior to the construction or arrival of a batch plant on site, the contractor shall provide the City with documentation demonstrating that batch plants are sited at least 1,000 feet from sensitive receptors, including places such as daycare centers, hospitals, senior care facilities, residences, parks, and other areas where people may congregate. Batch plants shall implement control measures required by MDAQMD as part of the Permit to Construct in order to reduce fugitive dust such as water sprays, enclosures, hoods, curtains, shrouds, movable and telescoping chutes, central dust collection systems, and other suitable technology, to reduce emissions to be equivalent to the U.S. EPA AP-42 controlled emission factors for batch plants. The contractor shall provide a copy of the MDAQMD permit application to the City that each batch plant meets this standard during operation.

MM BIG AQ-7 **Sweep Paved Areas.** During operations, accessible paved areas such as parking lots, internal roadways, the container yard, chassis storage area, and cargo handling areas shall be swept.

MM BIG AQ-8 **Renewable Diesel RTG Cranes.** Rubber Tired Gantry (RTG) cranes shall be powered with renewable diesel. BNSF shall provide the City of Barstow with evidence demonstrating use of renewable diesel for RTG cranes prior to the issuance of certificate of occupancy.

MM BIG AQ-9 **Truck Idling Limits and Truck Route Signage.** Prior to the issuance of a tenant occupancy permit, the Planning Division shall confirm that all truck access gates and loading docks within the project site shall have posted signage posted that states:

- Truck drivers shall turn off engines when not in use.
- Truck drivers shall shut down the engine after two minutes of continuous idling operation. Once the vehicle is stopped, the transmission is set to “neutral” or “park”, and the parking brake is engaged.
- Telephone numbers of the building facilities manager, the Mojave Desert AQMD, and CARB to report violations.
- Signs shall also inform truck drivers about the health effects of diesel particulates, the California Air Resources Board diesel idling regulations, and the importance of being a good neighbor by not parking in residential areas.
- Clearly mark truck routes with trailblazer signs, so that trucks will not travel next to or near sensitive land uses (e.g., residences, schools, day care centers, etc.).
- Reduce overnight truck parking near off-site sensitive land uses by providing overnight truck parking inside the proposed Project site.

- The Operator shall designate an officer to monitor trucks on-site for compliance. Signs and drive aisle pavement markings shall clearly identify the on-site circulation pattern to minimize unnecessary on-site vehicular travel.
- Additionally, signs shall be provided at every truck exit driveway showing directional information to the off-site truck route. To the extent feasible, the Project shall direct trucks away from sensitive receptors. All signage installed as part of the Project shall be legible, durable, and weather-proof.

This mitigation measure applies only to tenant improvements and not the building shell approvals.

MM BIG AQ-10 Tier 4 Emergency Back-Up Generators. Prior to the issuance of a tenant occupancy permit, the Planning Division shall confirm that the Project plans and specifications require all standard emergency generators to meet California Air Resources Board Tier 4 Final emissions standards. A copy of each unit's Best Available Control Technology (BACT) documentation (certified tier specification) and CARB or Mojave Desert AQMD operating permit (if applicable) shall be provided to the City. This mitigation measure applies only to tenant improvements and not the building shell approvals.

MM BIG AQ-11 Carl Moyer Truck Efficiency Improvements. Prior to the issuance of a tenant occupancy permit, the Planning Division shall confirm that tenant lease agreements include specifications that require vendor trucks for the industrial buildings include energy efficiency improvement features through the Carl Moyer Program—including truck modernization, retrofits, and/or aerodynamic kits and low rolling resistance tires— to reduce fuel consumption. This mitigation measure applies only to tenant improvements and not the building shell approvals.

MM BIG AQ-12 U.S. EPA Smart Way Program. Prior to the issuance of a tenant occupancy permit, the Planning Division shall confirm that tenant lease agreements include specifications that require tenants to enroll in the United States Environmental Protection Agency's SmartWay program, and tenants shall be required to use carriers that are SmartWay carriers. This mitigation measure applies only to tenant improvements and not the building shell approvals.

MM BIG AQ-13 Electric Landscape Equipment. Prior to the issuance of occupancy permits, the implementing entity shall confirm that agreements for landscaping services include contractual language that all handheld landscaping equipment used onsite shall be 100 percent electrically powered. This mitigation measure applies only to tenant permits and not the building shell approvals.

MM BIG AQ-14 Future EV Charging Infrastructure. Prior to the issuance of a building permit for transload warehouse facility tenant improvements, the implementing entity shall confirm that the BIG transload facility is designed to include the following:

- Prior to issuance of a Building Permit for the Shell Design, the buildings' electrical room shall be sufficiently sized to hold additional panels that may be needed to supply power for the future installation of EV truck charging stations on the site. Conduit should be installed from the electrical room to tractor trailer parking spaces in a logical location(s) on the site determined by the Project Applicant during

construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available and the buildings are being served by trucks with electric-powered engines.

7.1 Mitigation Measures Considered but Determined Infeasible

No additional feasible mitigation measures were identified that could reduce emissions below those shown above. Mitigation measure feasibility for each major source category is discussed below.

Construction

Additional mitigation measures for BIG were considered for addressing impacts related to construction. These measures were evaluated in terms of whether they were capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors. The measures below were evaluated and determined to be infeasible for consideration as enforceable mitigations:

1. Extend the construction schedule and limit construction equipment and usage

   Extending the construction schedule or limiting construction equipment and/or usage could reduce on-site emissions, however, it was determined that this would not be a feasible measure, as increasing the length of the construction schedule would delay the opening year of BIG and thus delay BIG's benefits. Furthermore, extending construction activities would extend the duration of impacts that affect other operations, access, and improvements of the beneficial effects of BIG (nationally reducing truck miles travelled, reducing greenhouse gas emissions, improving existing flooding conditions, etc.). Finally, other environmental impacts could increase as a result of extending the construction schedule, including visual impacts from construction lighting, biological impacts due to longer potential to affect sensitive species, noise impacts due to extended duration of noise-generating activities, and transportation due to longer road closures.

2. Require electric construction equipment and vehicles

Electric equipment would eliminate on-site emissions associated with diesel equipment exhaust (other emissions, such as particulate matter from fugitive dust, would still occur). However, commercialization of this technology for construction equipment is in its earliest stages. Alternative fuel and electric construction equipment (including excavators, wheel loaders, and soil compactors) that are commercially available are compact, light- to medium-duty, and have limited capacity and capabilities when viewed in the context of a major construction project like BIG. The vast majority of earth moving activities at BIG would require heavy-duty capabilities beyond those of the zero-emissions equipment recommended by the MDAQMD and the South Coast AQMD. Based on an understanding of the current marketplace, there are currently no zero emissions or near zero emissions equipment available for the earthwork operations necessary to construct BIG based on the general capabilities of the available zero emissions and near zero emissions equipment. Other considerations such as operational demands and the need for charging infrastructure also would limit the feasibility of electrified equipment. The types of heavy-duty on-road trucks for the activities required for the BIG construction (e.g., soil import/export, transport of steel and pre-cast concrete structure elements and materials) are typically larger trucks (Class 8 trucks with a

displacement greater than 10 liters) than those currently available with zero emission or near-zero emission technology. However, renewable diesel fuel shall be used to minimize and control exhaust emissions from heavy -duty diesel-fueled construction equipment and heavy diesel trucks, except where renewable diesel is not available from suppliers (within 200 miles of BIG).

Because small equipment types account for only a minor fraction of total BIG construction emissions, a requirement for their use would provide little emissions reduction benefit. Technological innovations likely will be slowly adapted for larger equipment and vehicles based on market demand and economic considerations. Development of larger electrified equipment and vehicles is unlikely to occur during the construction duration of BIG, as concepts of heavy-duty equipment and vehicles have only recently been announced by manufacturers, and widespread commercial availability is unlikely before the 2030s (construction to be completed by 2028), long after BIG construction is complete. Therefore, a requirement that all equipment and vehicles be electric as a potential mitigation measure would not be feasible for the BIG construction period.

Operations

Additional mitigation measures for BIG were considered for addressing impacts related to operations. These measures were evaluated in terms of whether they were capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors. The measures below were evaluated and determined to be infeasible based on these factors:

1. Battery Electric Locomotives (BELs) – Linehaul from Ports to IMF -

The majority of freight locomotives in the United States are diesel-fueled. Alternatives to diesel fueled locomotives are in production or being tested. Zero-emissions (ZE) linehaul locomotives can be accomplished using one of three potential processes (catenary lines, hydrogen fuel cells, or battery electric), with the battery electric locomotive (BEL) technology currently being the most technologically advanced way of implementing a ZE locomotive. Catenary lines are impractical since this would involve laying thousands of miles of electrifies lines the distance of the rail and hydrogen fuel cells, although promising, is not feasible based on technological progress (decades from being a feasible fuel source). BELs use batteries instead of diesel to provide power to the locomotive's traction motors. Linehaul locomotives have a fuel capacity of 5,000 US gallons and converting the fuel to energy represents approximately 200 megawatt-hours (MWh) of available energy capacity on board the locomotive. Diesel engines are about 40% efficient in converting the fuel to energy, which means diesel locomotives have an effective or "useable" energy capacity of 75-80 MWh. By contrast, batteries are approximately 90% efficient at converting energy to work, however, they have a much smaller energy capacity, as discussed below.

In order to meet the demands of BIG, based on the analysis and route modeling, a BEL with a battery of a minimum of 15MWh capacity would be required to replace each diesel fueled locomotive in order to complete the portion of an eastbound trip from the Long Beach port through the Cajon Pass to BIG.

Currently, the largest BEL built for a North American rail operator was 2.4MWh. There is nothing higher than the 2.4MWh that has been deployed in North America. The largest locomotive built for international operations that could operate on the North American rail network contains approximately 7MWh of energy. To provide more energy to a locomotive would require multiple battery tenders (additional railcars included solely to carry batteries to extend the overall power of the locomotives) to reach the desired range. Therefore, the largest BEL currently available would have less than one-tenth of the energy capacity of the diesel locomotive linehaul units. Furthermore, battery tenders are extremely heavy, presenting ongoing maintenance concerns to mainline track segments, and inclusion of three to four battery tenders means three to four fewer railcars with goods being transported, which reduces the economic viability of every train trip that the train would make.

There is no supply chain for either a BEL of this size or for battery tenders to increase their power, and there is no established maintenance process or safety protocol that has yet been adopted by the North American rail industry. Introduction of new locomotive propulsion systems is governed by the Federal Railroad Administration. The safety case for battery-electric locomotives is still pending and will need to be approved by the agency for operation by a North American operator. That process is expected to take several years.

Furthermore, the power needed for recharging and the time necessary to recharge creates additional challenges for BIG. Assuming manufacturers can develop a BEL of sufficient energy capacity and it was market ready, the power draw needed to support these units would struggle to meet the demand. BELs traveling from the Ports would arrive at BIG with empty or nearly-empty batteries. Charging the 15MWh batteries could take over 12 hours, using expected-to-be-available 1MW charging solutions currently under development. A train equipped with four locomotives would require a power capacity of 4MW per train. If higher-power chargers become available (e.g. 6MW systems utilized in European ferry systems), the charging time would be shortened to approximately two hours, but the power need would be a staggering 24MW, or more than one-third of the entire facility power allotment – simply to charge one train of four locomotives. This would require transmission-level electrical delivery service to accomplish BIG required charging demands. Additionally, this calculation is only for the power demand to charge a single train's worth of BELs; for the dedicated fleet from the Ports to BIG's intermodal facility, BIG is anticipated to receive approximately three trains per day in 2028, increasing to approximately five trains per day in 2048. Each train would require between four to five BELs, and there would be overlap between multiple trains charging their BELs at a given time. In 2048, this would mean approximately 18 BELs charging per day and a corresponding approximately 18MW in additional energy demand.

BIG is allotted a "power budget" of 66MW peak energy demand for the facility by SCE, which has been allocated to support the current proposed electrical demand for the site, including electric wide span cranes, electric hostlers, and other electric cargo handling equipment. Through incorporation of electric hostlers, electric RMG cranes, electric forklifts, charging for employee electric vehicles, hybrid electric RTGs, and lighting, heating, air conditioning, and other typical electrical demands, BIG has already maximized the allocated power budget. SCE has indicated that BIG would be required to move to transmission-level service in order to supply additional power to the site. This process would take approximately 7-10 years from the time that the linehaul BEL and charging technology is approved and

available. Given the power budget is for peak energy demand, additional solar generation would not enable BNSF to go beyond this power budget, as solar does not generate energy during nighttime, and cloud cover or other weather conditions could also reduce the energy generation during daytime. Because BIG would operate 24 hours per day, BIG must consider only power from the grid as the power budget, and would supplement this power with energy from solar during daytime.

In order to support operations and prevent delays, a significant support fleet of BEL locomotives would be required beyond just the replacements to each diesel fueled locomotives. This support fleet would be needed to prevent train delays and be powered and ready to add to a train for departure. Factors that contribute to a large support fleet are charging times, undefined train schedules that can lead to departure bunching, and labor agreements that have scheduled on-duty times effecting the ability to transfer power from recharge pads to trains efficiently.

In order to support operations and prevent delays a significant support fleet of BEL locomotives would be required beyond just the replacements to each diesel fueled locomotives. This support fleet would be needed to prevent train delays and be powered and ready to add to a train for departure. Factors that contribute to a large support fleet are charging times, undefined train schedules that can lead to departure bunching, and labor agreements that have scheduled on-duty times effecting the ability to transfer power from recharge pads to trains efficiently.

Finally, this mitigation is not legally feasible due to federal preemption. See *Friends of Eel River v. North Coast Railroad Authority* (2017) 3 Cal.5th 677, *Association of Irritated Residents v Kern County Bd. of Supervisors* (2017) 17 Cal.App.5th 708; *American Railroads v. South Coast Air Quality Management District* (2010) 622 F.3d 1094.

No Class I Railroads are currently using BEL linehaul locomotives as part of their active fleet. In fact, BNSF is the only Class I Railroad that has tested a BEL linehaul locomotive. Therefore, with the lack of availability, the demand on the electrical system/long lead time for power delivery and the inefficiency of the current system, this measure is infeasible.

2. Battery Electric Locomotives (BELs) – Switchers at the Block Swap Yard

While not yet commercially viable or operationally proven for the type of switching operation at BIG, battery-electric locomotives (BELs) would require a capacity of at least 2 MWh to provide the power necessary to perform locomotive switching tasks for at least a full shift. Switchers at BIG would need to operate around the clock in order to support the needs of the facility. In order to provide adequate time to charge the locomotives, high-speed chargers would be required to be utilized to charge the locomotive batteries between operating shifts. To recharge a 2MWh battery, it would require 2MW of constant power per locomotive (anticipated as a 1 hour charge time). Assuming the expected-to-be available 1 MW charging solutions currently under development, the chargers will have a constant draw of 1MW and can temporarily reach 4.5MW. This means that charging just three locomotives at one time could equate to 20% of the entire facility's power budget (13.5/66 MW) and would be roughly equivalent to the entire power capacity of one of the three circuits providing power to BIG. It is anticipated that BIG would utilize approximately eight switchers to support the facility in 2028, potentially peaking at 36MW of power if all locomotives are charged at the same time. In 2048, the number of switchers to support the facility

increases to twelve. Therefore, adding BEL switchers would significantly impact the power demand for the BIG facility.

If BIG adopted lower-power chargers (e.g. commercially-available 400kw chargers) it would take approximately six hours to charge a single locomotive. To maintain operational fluidity and flexibility, BIG would require three times as many battery-electric switchers to operate the facility. One third of the fleet would operate each shift while a third would be actively charging with a reserve third in support for power outages, periods of high volume, locomotive maintenance, and crew availability during shift changes. In 2048, this would require commissioning 24 electric switcher locomotives. Positioning twelve fully-charged locomotives across the yard while moving twelve depleted locomotives to the charger and supporting a reserve fleet of 12 locomotives could cause significant congestion and hamper fluidity within the rail yard. Furthermore, simultaneously charging twelve locomotives at 400kw each would increase BIG power demand by almost 5MW. As electrical costs vary widely in California, based on time of use and rates, electricity cost could result in cost that would exceed the costs of diesel. Further, given the limited use of switcher locomotes, reduced fuel costs would be offset by the additional cost of the electric locomotives.

Furthermore, to date, only one switcher of this size (2.4 MWh) has been built for US operations as a prototype. No 2.4 MWh or higher switcher has been built. There is no supply chain for this equipment and there is no established maintenance process or safety protocol that has been adopted by the North American rail industry. Introduction of new locomotive propulsion systems is governed by the Federal Railroad Administration. The safety case for battery-electric locomotives is still pending and will need to be approved by the agency for operation by a North American operator. That process would take several years.

BNSF has been working with SCE on BIG power supply since 2022 to analyze the capacity of Barstow's electrical infrastructure. Because charging an electric vehicle fleet and cargo handling equipment that operates 24/7 creates significant demands on the electrical grid, SCE conducted an extensive internal review to confirm that the system could reliably serve the load, even when portions of the distribution system were being maintained. After several iterations, SCE confirmed that BIG could be supplied using new feeders from the existing Tortilla Substation. These new feeders will be able to cross-connect to existing feeders within Barstow to meet SCE's reliability requirements. This avoided the need for a new substation in Barstow.

BIG is allotted a "power budget" of 66 MW for the facility by SCE, which has been allocated to support the current proposed electrical demand for the site, including electric wide span cranes, electric hostlers, and other electric cargo handling equipment. SCE has indicated that BIG would be required to move to transmission-level service in order to supply additional power to the site. This process would take approximately 7-10 years from the time that the switcher BEL and charging technology is approved and available. Therefore, with the lack of availability, the demand on the electrical system/long lead time for power delivery and the inefficiency of the current system, this measure is infeasible.

3. Zero/Near Zero Emission Trucks

BIG would use electric hostlers for the movements between the intermodal facility and the transload warehouses, however a small percentage of diesel trucks are assumed to transport containers directly to the intermodal facility as the use of zero/near-zero emission trucks have been determined to be infeasible.

As an initial matter, given the actions of Congress and the Trump administration, California has no legal ability to mandate zero/near zero emission truck technology under the former Advanced Clean Truck Rule or any other regulation. Given this revocation, as deliveries are made to BIG's intermodal facility from a variety of customers or independent trucking contractors throughout Southern California, the Central Valley, Arizona and Nevada. It is entirely speculative that zero emission/near zero emission trucks will be widely in use with customers or independent trucking contractors within a reasonable period of time. Further, given the multitude of origins of these trucks, the necessary charging infrastructure does not exist along the many anticipated trucking routes in California or elsewhere in the region. Moreover, because of the revocation of the Advanced Clean Truck Rule, there is no basis to find that such critical infrastructure will exist in a reasonable period of time. As noted above, there are also concerns about power availability; BIG is allotted a "power budget" of 66MW for the facility by SCE, which has been allocated to support the current proposed electrical demand for the site, including electric wide span cranes, electric hostlers, and other electric cargo handling equipment. Should BIG require all trucks accessing the site to be electric, this could only be accommodated by either removing or converting an electric component in order to reduce electric demand, or supplying additional power to the site. SCE has indicated that BIG would be required to move to transmission-level service in order to supply additional power to the site. This process would take approximately 7-10 years from the time that the eRTG and charging technology is approved and available.

Additionally, the rail yard lacks space for the necessary infrastructure for truck charging due to spatial constraints from the grade-separated crossing, slope, and rail tracks. All available space is dedicated to stacking containers, employee parking, or buildings. In addition to the power constraints identified above, BIG would need to locate the truck charging within the container yard north of the mainline tracks in order to accommodate electric truck charging. This would require electric trucks to enter the rail yard, drop off their container, and then go north to the container yard to charge. The grade-separated crossing is designed to be dedicated to electric hostlers draying containers between the rail yard and transload warehouse center, and adding electric trucks cause congestion and operational inefficiencies.

Finally, BNSF has no ability to mandate the make-up of the trucking fleets used by its existing customers or independent trucking companies used by its customers and a mandate that access to BIG be limited to only zero/near zero emission trucks would significantly impede BNSF's ability to attract future customers and thus render the entirety of BIG impractical.

Therefore, for all the above reasons. the potential zero/near zero truck mitigation measure would not be feasible for the BIG.

4. Hybrid Electric Rubber Tire Gantry Cranes (RTGs) vs. Electric RTG Cranes (eRTGs)

BIG would use hybrid electric Rubber Tire Gantry Cranes (RTGs) as well as Electric Rail Mounted Cranes (RMGs). RTGs provide the operational flexibility needed on-site in conjunction with the electric RMGs. The RTGs are not fixed to a track or to any charging infrastructure, for instance conductor bars (fixed infrastructure where the crane collects power) or cable reeling drums/power cables (cable connection to the power source) that would limit movement. RTGs can move the entire length of a track, be repositioned to other tracks, or move around the site as necessary providing significant operational benefits. Additionally, RTGs can be relocated for service and don't affect the efficiency of operations if equipment or the track is out of service. The RTGs would be used in conjunction with fully electric RMGs, which are fixed to the track and have limited mobility. Any breakdown of an RMG or maintenance of rail/track, would stop all operation on that track and take all equipment out of service until the crane or the electrical supply was repaired. RTGs have the flexibility to be moved around the site, even where track is out of service.

BIG would utilize a hybrid electric RTG vs the battery or electric RTGs (eRTGs) as the battery capacity of eRTGs do not have the capacity for the operational needs of the BIG. Currently, the only eRTG is new (introduced in April 2025) that has not been tested or is currently in use. This RTG has 2 battery types available: liquid cooled with 4 hr = 222kWh capacity or liquid-cooled with 8-hr = 296kWh capacity. The stated battery charging time is 1 hour at the full rated charging power with a charging rate of 1C. If the batteries and charging operate at full capacity as specified, each crane would require a minimum of 3 to 6 hours of downtime per day for charging under optimal charging conditions. BIG is not considered to be within the optimal conditions for battery electric equipment as battery charging efficiency would be susceptible to degradation in hot conditions.

Additionally, BIG would use approximately 11 RTGs. The facility would operate 24 hours a day and 7 days a week with minimal down time for charging RTGs. It is expected that BIG would utilize 1MW chargers for each crane, resulting in a minimum of 11 MW draw if all cranes are charged simultaneously. RTGs would all be moved to a centralized charging location at the beginning/end of each shift. Relocating the RTGs would reduce operational time for each crane and could take a considerable amount of time if a crane has to move several miles to a charger, given the intermodal tracks are approximately three miles long. The alternative would include utilizing trackside charging stations which would eliminate the need to relocate the cranes for charging, but would create fixed infrastructure choke points, rendering parts of the track unusable while the cranes are charging, reducing the effective capacity of the facility.

Moreover, BIG is allotted a "power budget" of 66MW for the facility by SCE, which has been allocated to support the current proposed electrical demand for the site, including electric wide span cranes, electric hostlers, and other electric cargo handling equipment. SCE has indicated that BIG would be required to move to transmission-level service in order to supply additional power to the site. This process would take approximately 7-10 years from the time that the eRTG and charging technology is approved and available.

For all of these reasons, the potential mitigation measure was determined infeasible.

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Appendix A

Air Quality and Greenhouse Emissions Modeling Data

APPENDIX A

Criteria Pollutant and GHG Emissions Calculations

APPENDIX A1

Construction Emissions Calculations

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Daily Construction Emissions Summary

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	363.85	3,036.12	2,899.60	7.88	127.73	117.51	336.14	2,258.17	2,899.57	7.88	67.32	58.17
Fugitive Dust	-	-	-	-	2,555.51	803.48	-	-	-	-	838.60	285.80
On-Road Mobile Sources	21.34	149.45	328.53	1.76	12.77	5.35	21.34	149.45	328.53	1.76	12.77	5.35
Total	**385.19**	**3,185.57**	**3,228.13**	**9.64**	**2,696.01**	**926.34**	**357.48**	**2,407.62**	**3,228.10**	**9.64**	**918.69**	**349.33**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	726.07	6,162.60	5,791.98	15.13	265.59	244.35	654.95	4,179.29	5,790.58	15.13	129.15	109.66
Fugitive Dust	-	-	-	-	4,624.45	2,045.10	-	-	-	-	1,393.70	742.63
On-Road Mobile Sources	29.69	337.89	445.99	3.61	27.17	11.59	29.69	337.89	445.99	3.61	27.17	11.59
Train Material Deliveries	21.67	583.70	142.23	0.50	13.45	13.04	21.67	583.70	142.23	0.50	13.45	13.04
Paving and Architectural Coatings	162.74	-	-	-	-	-	162.74	-	-	-	-	-
Asphalt Batching	43.47	86.15	1,222.70	14.42	320.03	24.83	43.47	86.15	1,222.70	14.42	320.03	24.83
Total	**983.63**	**7,170.34**	**7,602.90**	**33.66**	**5,250.68**	**2,338.91**	**912.51**	**5,187.04**	**7,601.50**	**33.66**	**1,883.50**	**901.75**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	125.16	919.21	1,011.53	2.86	37.84	34.81	115.24	548.00	1,010.23	2.86	16.55	13.34
Fugitive Dust	-	-	-	-	2,694.43	550.35	-	-	-	-	754.83	180.70
On-Road Mobile Sources	17.81	207.28	267.11	2.20	16.63	7.10	17.81	207.28	267.11	2.20	16.63	7.10
Paving and Architectural Coatings	807.81	-	-	-	-	-	161.39	-	-	-	-	-
Total	**950.78**	**1,126.49**	**1,278.64**	**5.07**	**2,748.90**	**592.26**	**294.44**	**755.28**	**1,277.34**	**5.07**	**788.01**	**201.13**

Construction Year 2028

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	54.04	114.64	133.65	0.29	25.08	23.08	53.60	64.52	133.52	0.29	16.41	14.72
Fugitive Dust	-	-	-	-	447.98	92.39	-	-	-	-	123.42	28.28
On-Road Mobile Sources	17.29	207.28	224.77	2.18	16.63	7.10	17.29	207.28	224.77	2.18	16.63	7.10
Total	**71.32**	**321.92**	**358.42**	**2.47**	**489.69**	**122.56**	**70.89**	**271.81**	**358.30**	**2.47**	**156.46**	**50.09**

Total Emissions

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	385.19	3,185.57	3,228.13	9.64	2,696.01	926.34	357.48	2,407.62	3,228.10	9.64	918.69	349.33
2026	983.63	7,170.34	7,602.90	33.66	5,250.68	2,338.91	912.51	5,187.04	7,601.50	33.66	1,883.50	901.75
2027	950.78	1,126.49	1,278.64	5.07	2,748.90	592.26	294.44	755.28	1,277.34	5.07	788.01	201.13
2028	71.32	321.92	358.42	2.47	489.69	122.56	70.89	271.81	358.30	2.47	156.46	50.09
Maximum	**983.63**	**7,170.34**	**7,602.90**	**33.66**	**5,250.68**	**2,338.91**	**912.51**	**5,187.04**	**7,601.50**	**33.66**	**1,883.50**	**901.75**

Annual Construction Emissions Summary

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	14.89	124.87	119.97	0.32	5.28	4.86	13.64	86.37	119.94	0.32	2.63	2.22
Fugitive Dust	-	-	-	-	145.57	72.07	-	-	-	-	45.79	26.22
On-Road Mobile Sources	0.93	5.42	12.72	0.07	0.54	0.23	0.93	5.42	12.72	0.07	0.54	0.23
Total	**15.81**	**130.29**	**132.69**	**0.39**	**151.40**	**77.15**	**14.56**	**91.79**	**132.66**	**0.39**	**48.96**	**28.67**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	48.63	391.22	384.74	1.03	17.02	15.65	44.39	261.41	384.48	1.03	8.28	6.99
Fugitive Dust	-	-	-	-	675.17	258.09	-	-	-	-	171.65	55.31
On-Road Mobile Sources	3.84	38.20	52.36	0.44	3.33	1.42	3.84	38.20	52.36	0.44	3.33	1.42
Train Material Deliveries	2.38	64.21	15.65	0.06	1.48	1.43	2.38	64.21	15.65	0.06	1.48	1.43
Paving and Architectural Coatings	0.08	-	-	-	-	-	0.08	-	-	-	-	-
Asphalt Batching	5.09	10.08	143.06	1.69	37.44	2.91	5.09	10.08	143.06	1.69	37.44	2.91
Total	**60.02**	**503.70**	**595.80**	**3.21**	**734.44**	**279.50**	**55.78**	**373.89**	**595.54**	**3.21**	**222.19**	**68.06**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	13.25	80.14	87.44	0.23	4.81	4.43	12.21	40.60	87.38	0.23	2.29	1.91
Fugitive Dust	-	-	-	-	228.62	61.63	-	-	-	-	84.98	20.83
On-Road Mobile Sources	1.61	22.01	21.93	0.24	1.82	0.78	1.61	22.01	21.93	0.24	1.82	0.78
Paving and Architectural Coatings	105.02	-	-	-	-	-	20.98	-	-	-	-	-
Total	**119.88**	**102.15**	**109.37**	**0.47**	**235.24**	**66.84**	**34.80**	**62.61**	**109.31**	**0.47**	**89.09**	**23.52**

Construction Year 2028

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Off-Road Equipment Exhaust	3.62	7.68	8.95	0.02	1.68	1.55	3.59	4.32	8.95	0.02	1.10	0.99
Fugitive Dust	-	-	-	-	30.01	6.19	-	-	-	-	8.27	1.89
On-Road Mobile Sources	0.24	1.86	3.29	0.02	0.17	0.07	0.24	1.86	3.29	0.02	0.17	0.07
Total	**3.86**	**9.54**	**12.24**	**0.04**	**31.87**	**7.81**	**3.83**	**6.18**	**12.23**	**0.04**	**9.54**	**2.95**

Total Emissions

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	15.81	130.29	132.69	0.39	151.40	77.15	14.56	91.79	132.66	0.39	48.96	28.67
2026	60.02	503.70	595.80	3.21	734.44	279.50	55.78	373.89	595.54	3.21	222.19	68.06
2027	119.88	102.15	109.37	0.47	235.24	66.84	34.80	62.61	109.31	0.47	89.09	23.52
2028	3.86	9.54	12.24	0.04	31.87	7.81	3.83	6.18	12.23	0.04	9.54	2.95
Maximum	**119.88**	**503.70**	**595.80**	**3.21**	**734.44**	**279.50**	**55.78**	**373.89**	**595.54**	**3.21**	**222.19**	**68.06**

Construction GHG Emissions Summary

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Source	**Unmitigated**	**Mitigated**
Off-Road Equipment Exhaust	31,438.81	11,946.75
On-Road Mobile Sources	7,288.04	7,288.04
Total	**38,726.85**	**19,234.79**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Source	**Unmitigated**	**Mitigated**
Off-Road Equipment Exhaust	100,956.18	38,363.35
On-Road Mobile Sources	43,980.75	43,980.75
Train Material Deliveries	5,494.99	5,494.99
Asphalt Batching	11,811.99	11,811.99
Total	**162,243.91**	**99,651.08**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Source	**Unmitigated**	**Mitigated**
Off-Road Equipment Exhaust	22,611.80	8,592.48
On-Road Mobile Sources	23,697.39	23,697.39
Total	**46,309.19**	**32,289.88**

Construction Year 2028

	GHG Emissions ($MTCO_2e$ per year)	
Source	**Unmitigated**	**Mitigated**
Off-Road Equipment Exhaust	1,973.41	749.90
On-Road Mobile Sources	2,286.13	2,286.13
Total	**4,259.54**	**3,036.03**

Total Emissions

	GHG Emissions ($MTCO_2e$ per year)	
Construction Year	**Unmitigated**	**Mitigated**
2025	38,726.85	19,234.79
2026	162,243.91	99,651.08
2027	46,309.19	32,289.88
2028	4,259.54	3,036.03
Total	**251,539.49**	**154,211.78**
Amortized	**8,384.65**	**5,140.39**

Appendix A1.2: Equipment Exhaust

Daily Construction Emissions Summary - South Main Lines

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	7.15	59.40	56.30	0.16	2.46	2.26	6.82	50.17	56.30	0.16	1.46	1.30
Mass Grading	23.75	189.53	187.38	0.52	7.91	7.27	21.93	106.83	187.38	0.52	3.56	2.72
Bridges and Box Culverts	5.12	36.83	44.86	0.13	1.48	1.36	4.96	17.00	44.73	0.13	0.61	0.41
Total	**36.02**	**285.75**	**288.54**	**0.81**	**11.84**	**10.89**	**33.71**	**173.99**	**288.42**	**0.81**	**5.63**	**4.43**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mass Grading	23.75	189.53	187.38	0.52	7.91	7.27	21.93	106.83	187.38	0.52	3.56	2.72
Bridges and Box Culverts	5.12	36.83	44.86	0.13	1.48	1.36	4.96	17.00	44.73	0.13	0.61	0.41
Fine Grading/ Subballast Placement	16.02	125.63	132.36	0.35	5.32	4.90	14.05	29.43	132.36	0.35	1.37	0.69
Track and Signal Work	10.30	45.78	55.74	0.15	3.86	3.55	10.21	22.61	55.43	0.15	2.23	1.86
Total	**55.19**	**397.77**	**420.33**	**1.15**	**18.56**	**17.08**	**51.15**	**175.86**	**419.90**	**1.15**	**7.78**	**5.68**

Total Emissions

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	36.02	285.75	288.54	0.81	11.84	10.89	33.71	173.99	288.42	0.81	5.63	4.43
2026	55.19	397.77	420.33	1.15	18.56	17.08	51.15	175.86	419.90	1.15	7.78	5.68
Maximum	**55.19**	**397.77**	**420.33**	**1.15**	**18.56**	**17.08**	**51.15**	**175.86**	**419.90**	**1.15**	**7.78**	**5.68**

Annual Construction Emissions Summary - South Main Lines

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	0.12	1.01	0.96	0.00	0.04	0.04	0.12	0.85	0.96	0.00	0.02	0.02
Mass Grading	1.07	8.53	8.43	0.02	0.36	0.33	0.99	4.81	8.43	0.02	0.16	0.12
Bridges and Box Culverts	0.23	1.66	2.02	0.01	0.07	0.06	0.22	0.76	2.01	0.01	0.03	0.02
Total	**1.42**	**11.20**	**11.41**	**0.03**	**0.46**	**0.43**	**1.33**	**6.42**	**11.40**	**0.03**	**0.21**	**0.16**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mass Grading	1.19	9.48	9.37	0.03	0.40	0.36	1.10	5.34	9.37	0.03	0.18	0.14
Bridges and Box Culverts	0.32	2.28	2.78	0.01	0.09	0.08	0.31	1.05	2.77	0.01	0.04	0.03
Fine Grading/ Subballast Placement	0.18	1.38	1.46	0.00	0.06	0.05	0.15	0.32	1.46	0.00	0.02	0.01
Track and Signal Work	0.67	2.98	3.62	0.01	0.25	0.23	0.66	1.47	3.60	0.01	0.14	0.12
Total	**2.35**	**16.12**	**17.23**	**0.05**	**0.80**	**0.73**	**2.22**	**8.19**	**17.20**	**0.05**	**0.38**	**0.29**

Total Emissions

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	1.42	11.20	11.41	0.03	0.46	0.43	1.33	6.42	11.40	0.03	0.21	0.16
2026	2.35	16.12	17.23	0.05	0.80	0.73	2.22	8.19	17.20	0.05	0.38	0.29
Maximum	**2.35**	**16.12**	**17.23**	**0.05**	**0.80**	**0.73**	**2.22**	**8.19**	**17.20**	**0.05**	**0.38**	**0.29**

Annual Construction GHG Emissions Summary - South Main Lines

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Demolition, Site Preparation, Mobilization	264.51	100.51
Mass Grading	2,305.68	876.16
Bridges and Box Culverts	555.22	210.99
Total	3,125.41	1,187.65

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Mass Grading	2,561.86	973.51
Bridges and Box Culverts	764.98	290.69
Fine Grading/ Subballast Placement	374.33	142.25
Track and Signal Work	969.17	368.28
Total	4,670.34	1,774.73

Total Emissions

	GHG Emissions ($MTCO_2e$ per year)	
Construction Year	**Unmitigated**	**Mitigated**
2025	3,125.41	1,187.65
2026	4,670.34	1,774.73
Total	7,795.75	2,962.38

Construction Emissions - South Main Lines: Demolition, Site Preparation, Mobilization

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	34	0	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	1	3	450	0.38
Generators	4	2	20	0.74
Dump Trucks	5	10	376	0.38
Water Trucks	2	4	376	0.38
Dozer	1	8	419	0.40
Loader	1	3	360	0.36
657 Scraper	2	10	1051	0.48

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.11	0.83	1.42	0.00	0.03	0.03	0.11	0.34	1.42	0.00	0.02	0.01
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	2.20	14.26	16.60	0.05	0.54	0.50	2.20	14.26	16.60	0.05	0.54	0.50
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Dozer	0.78	7.28	5.74	0.01	0.35	0.33	0.44	0.89	5.74	0.01	0.06	0.03
Loader	0.13	0.99	1.21	0.00	0.04	0.04	0.13	0.26	1.21	0.00	0.02	0.01
657 Scraper	3.56	33.59	28.31	0.08	1.39	1.28	3.56	33.59	28.31	0.08	1.39	1.28
Total	**7.15**	**59.40**	**56.30**	**0.16**	**2.46**	**2.26**	**6.82**	**50.17**	**56.30**	**0.16**	**2.08**	**1.85**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Dump Trucks	0.04	0.24	0.28	0.00	0.01	0.01	0.04	0.24	0.28	0.00	0.01	0.01
Water Trucks	0.01	0.04	0.05	0.00	0.00	0.00	0.01	0.01	0.05	0.00	0.00	0.00
Dozer	0.01	0.12	0.10	0.00	0.01	0.01	0.01	0.02	0.10	0.00	0.00	0.00
Loader	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
657 Scraper	0.06	0.57	0.48	0.00	0.02	0.02	0.06	0.57	0.48	0.00	0.02	0.02
Total	**0.12**	**1.01**	**0.96**	**0.00**	**0.04**	**0.04**	**0.12**	**0.85**	**0.96**	**0.00**	**0.04**	**0.03**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Excavator	6.33	2.40
Generators	0.82	0.31
Dump Trucks	91.17	34.64
Water Trucks	14.59	5.54
Dozer	15.73	5.98
Loader	4.84	1.84
657 Scraper	131.04	49.79
Total	264.51	100.51

Construction Emissions - South Main Lines: Mass Grading

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	90	100	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	2	10	450	0.38
Generators	4	2	20	0.74
Grader	1	10	250	0.41
Dump Trucks	4	10	376	0.38
Grapple/Pump Truck	1	1	376	0.38
Water Trucks	20	10	376	0.38
Rollers	1	1	325	0.38
Dozer	4	10	419	0.40
Loader	2	10	360	0.36
657 Scraper	4	10	1051	0.48

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.73	5.53	9.49	0.03	0.22	0.20	0.73	2.26	9.49	0.03	0.15	0.08
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.48	4.53	3.48	0.01	0.20	0.18	0.34	0.68	3.48	0.01	0.05	0.02
Dump Trucks	1.76	11.41	13.28	0.04	0.44	0.40	1.76	11.41	13.28	0.04	0.44	0.40
Grapple/Pump Truck	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.09	0.33	0.00	0.01	0.00
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	0.04	0.42	0.67	0.00	0.02	0.02	0.04	0.08	0.67	0.00	0.01	0.00
Dozer	3.89	36.38	28.70	0.05	1.77	1.63	2.22	4.43	28.70	0.05	0.30	0.15
Loader	0.86	6.59	8.05	0.02	0.29	0.27	0.86	1.71	8.05	0.02	0.11	0.06
657 Scraper	7.12	67.18	56.62	0.16	2.77	2.55	7.12	67.18	56.62	0.16	2.77	2.55
Total	**23.75**	**189.53**	**187.38**	**0.52**	**7.91**	**7.27**	**21.93**	**106.83**	**187.38**	**0.52**	**5.09**	**3.89**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.73	5.53	9.49	0.03	0.22	0.20	0.73	2.26	9.49	0.03	0.15	0.08
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.48	4.53	3.48	0.01	0.20	0.18	0.34	0.68	3.48	0.01	0.05	0.02
Dump Trucks	1.76	11.41	13.28	0.04	0.44	0.40	1.76	11.41	13.28	0.04	0.44	0.40
Grapple/Pump Truck	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.09	0.33	0.00	0.01	0.00
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	0.04	0.42	0.67	0.00	0.02	0.02	0.04	0.08	0.67	0.00	0.01	0.00
Dozer	3.89	36.38	28.70	0.05	1.77	1.63	2.22	4.43	28.70	0.05	0.30	0.15
Loader	0.86	6.59	8.05	0.02	0.29	0.27	0.86	1.71	8.05	0.02	0.11	0.06
657 Scraper	7.12	67.18	56.62	0.16	2.77	2.55	7.12	67.18	56.62	0.16	2.77	2.55
Total	**23.75**	**189.53**	**187.38**	**0.52**	**7.91**	**7.27**	**21.93**	**106.83**	**187.38**	**0.52**	**5.09**	**3.89**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.03	0.25	0.43	0.00	0.01	0.01	0.03	0.10	0.43	0.00	0.01	0.00
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.02	0.20	0.16	0.00	0.01	0.01	0.02	0.03	0.16	0.00	0.00	0.00
Dump Trucks	0.08	0.51	0.60	0.00	0.02	0.02	0.08	0.51	0.60	0.00	0.02	0.02
Grapple/Pump Truck	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Water Trucks	0.40	2.57	2.99	0.01	0.10	0.09	0.40	0.85	2.99	0.01	0.06	0.03
Rollers	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Dozer	0.17	1.64	1.29	0.00	0.08	0.07	0.10	0.20	1.29	0.00	0.01	0.01
Loader	0.04	0.30	0.36	0.00	0.01	0.01	0.04	0.08	0.36	0.00	0.01	0.00
657 Scraper	0.32	3.02	2.55	0.01	0.12	0.11	0.32	3.02	2.55	0.01	0.12	0.11
Total	**1.07**	**8.53**	**8.43**	**0.02**	**0.36**	**0.33**	**0.99**	**4.81**	**8.43**	**0.02**	**0.23**	**0.18**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Excavator	0.04	0.28	0.47	0.00	0.01	0.01	0.04	0.11	0.47	0.00	0.01	0.00
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.02	0.23	0.17	0.00	0.01	0.01	0.02	0.03	0.17	0.00	0.00	0.00
Dump Trucks	0.09	0.57	0.66	0.00	0.02	0.02	0.09	0.57	0.66	0.00	0.02	0.02
Grapple/Pump Truck	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Rollers	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Dozer	0.19	1.82	1.44	0.00	0.09	0.08	0.11	0.22	1.44	0.00	0.01	0.01
Loader	0.04	0.33	0.40	0.00	0.01	0.01	0.04	0.09	0.40	0.00	0.01	0.00
657 Scraper	0.36	3.36	2.83	0.01	0.14	0.13	0.36	3.36	2.83	0.01	0.14	0.13
Total	**1.19**	**9.48**	**9.37**	**0.03**	**0.40**	**0.36**	**1.10**	**5.34**	**9.37**	**0.03**	**0.25**	**0.19**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Excavator	111.65	42.43
Generators	2.17	0.83
Grader	36.62	13.92
Dump Trucks	193.07	73.36
Grapple/Pump Truck	4.83	1.83
Water Trucks	965.33	366.82
Rollers	4.78	1.82
Dozer	208.16	79.10
Loader	85.35	32.43
657 Scraper	693.73	263.62
Total	**2,305.68**	**876.16**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Excavator	124.05	47.14
Generators	2.41	0.92
Grader	40.69	15.46
Dump Trucks	214.52	81.52
Grapple/Pump Truck	5.36	2.04
Water Trucks	1,072.59	407.58
Rollers	5.31	2.02
Dozer	231.29	87.89
Loader	94.84	36.04
657 Scraper	770.81	292.91
Total	**2,561.86**	**973.51**

Construction Emissions - South Main Lines: Bridges and Box Culverts

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	90	124	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Auger Boring Machine	1	3	83	0.50
Crane	1	7	367	0.29
Excavator	2	10	236	0.38
Generators	4	2	20	0.74
Grader	1	3	250	0.41
Light Carts	8	8	20	0.74
Dump Trucks	3	10	376	0.38
Grapple/Pump Truck	3	8	376	0.38
Water Trucks	2	10	376	0.38
Rollers	1	3	150	0.38
Dozer	1	3	190	0.40
Loader	2	10	265	0.36
Skid Steer	1	4	90	0.37

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.02	0.19	0.34	0.00	0.01	0.01	0.02	0.08	0.34	0.00	0.01	0.00
Crane	0.30	2.96	2.41	0.01	0.14	0.13	0.25	0.49	2.41	0.01	0.03	0.02
Excavator	0.38	2.90	4.98	0.01	0.12	0.11	0.38	1.19	4.98	0.01	0.08	0.04
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.14	1.36	1.05	0.00	0.06	0.05	0.10	0.20	1.05	0.00	0.01	0.01
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	1.32	8.55	9.96	0.03	0.33	0.30	1.32	8.55	9.96	0.03	0.33	0.30
Grapple/Pump Truck	1.06	6.84	7.97	0.03	0.26	0.24	1.06	2.27	7.97	0.03	0.15	0.08
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Rollers	0.06	0.59	0.93	0.00	0.03	0.03	0.06	0.11	0.93	0.00	0.01	0.00
Dozer	0.13	1.24	0.98	0.00	0.06	0.06	0.08	0.15	0.98	0.00	0.01	0.01
Loader	0.63	4.85	5.92	0.01	0.22	0.20	0.63	1.26	5.92	0.01	0.08	0.04
Skid Steer	0.04	0.51	0.89	0.00	0.02	0.01	0.04	0.09	0.76	0.00	0.01	0.00
Total	**5.12**	**36.83**	**44.86**	**0.13**	**1.48**	**1.36**	**4.96**	**17.00**	**44.73**	**0.13**	**0.87**	**0.58**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.02	0.19	0.34	0.00	0.01	0.01	0.02	0.08	0.34	0.00	0.01	0.00
Crane	0.30	2.96	2.41	0.01	0.14	0.13	0.25	0.49	2.41	0.01	0.03	0.02
Excavator	0.38	2.90	4.98	0.01	0.12	0.11	0.38	1.19	4.98	0.01	0.08	0.04
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.14	1.36	1.05	0.00	0.06	0.05	0.10	0.20	1.05	0.00	0.01	0.01
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	1.32	8.55	9.96	0.03	0.33	0.30	1.32	8.55	9.96	0.03	0.33	0.30
Grapple/Pump Truck	1.06	6.84	7.97	0.03	0.26	0.24	1.06	2.27	7.97	0.03	0.15	0.08
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Rollers	0.06	0.59	0.93	0.00	0.03	0.03	0.06	0.11	0.93	0.00	0.01	0.00
Dozer	0.13	1.24	0.98	0.00	0.06	0.06	0.08	0.15	0.98	0.00	0.01	0.01
Loader	0.63	4.85	5.92	0.01	0.22	0.20	0.63	1.26	5.92	0.01	0.08	0.04
Skid Steer	0.04	0.51	0.89	0.00	0.02	0.01	0.04	0.09	0.76	0.00	0.01	0.00
Total	**5.12**	**36.83**	**44.86**	**0.13**	**1.48**	**1.36**	**4.96**	**17.00**	**44.73**	**0.13**	**0.87**	**0.58**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Crane	0.01	0.13	0.11	0.00	0.01	0.01	0.01	0.02	0.11	0.00	0.00	0.00

Excavator		0.02	0.13	0.22	0.00	0.01	0.00	0.02	0.05	0.22	0.00	0.00	0.00
Generators		0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader		0.01	0.06	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Light Carts		0.01	0.04	0.11	0.00	0.00	0.00	0.01	0.03	0.11	0.00	0.00	0.00
Dump Trucks		0.06	0.38	0.45	0.00	0.01	0.01	0.06	0.38	0.45	0.00	0.01	0.01
Grapple/Pump Truck		0.05	0.31	0.36	0.00	0.01	0.01	0.05	0.10	0.36	0.00	0.01	0.00
Water Trucks		0.04	0.26	0.30	0.00	0.01	0.01	0.04	0.09	0.30	0.00	0.01	0.00
Rollers		0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Dozer		0.01	0.06	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Loader		0.03	0.22	0.27	0.00	0.01	0.01	0.03	0.06	0.27	0.00	0.00	0.00
Skid Steer		0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
	Total	**0.23**	**1.66**	**2.02**	**0.01**	**0.07**	**0.06**	**0.22**	**0.76**	**2.01**	**0.01**	**0.04**	**0.03**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Auger Boring Machine	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Crane	0.02	0.18	0.15	0.00	0.01	0.01	0.02	0.03	0.15	0.00	0.00	0.00
Excavator	0.02	0.18	0.31	0.00	0.01	0.01	0.02	0.07	0.31	0.00	0.00	0.00
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.01	0.08	0.06	0.00	0.00	0.00	0.01	0.01	0.06	0.00	0.00	0.00
Light Carts	0.01	0.06	0.15	0.00	0.00	0.00	0.01	0.04	0.15	0.00	0.00	0.00
Dump Trucks	0.08	0.53	0.62	0.00	0.02	0.02	0.08	0.53	0.62	0.00	0.02	0.02
Grapple/Pump Truck	0.07	0.42	0.49	0.00	0.02	0.01	0.07	0.14	0.49	0.00	0.01	0.00
Water Trucks	0.05	0.35	0.41	0.00	0.01	0.01	0.05	0.12	0.41	0.00	0.01	0.00
Rollers	0.00	0.04	0.06	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
Dozer	0.01	0.08	0.06	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
Loader	0.04	0.30	0.37	0.00	0.01	0.01	0.04	0.08	0.37	0.00	0.01	0.00
Skid Steer	0.00	0.03	0.06	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Total	**0.32**	**2.28**	**2.78**	**0.01**	**0.09**	**0.08**	**0.31**	**1.05**	**2.77**	**0.01**	**0.05**	**0.04**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	4.47	1.70
Crane	24.48	9.30
Excavator	58.55	22.25
Generators	2.17	0.83
Grader	10.99	4.18
Light Carts	14.96	5.68
Dump Trucks	144.80	55.02
Grapple/Pump Truck	115.84	44.02
Water Trucks	96.53	36.68
Rollers	6.62	2.51
Dozer	7.08	2.69
Loader	62.83	23.87
Skid Steer	5.91	2.25
Total	**555.22**	**210.99**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	6.16	2.34
Crane	33.73	12.82
Excavator	80.67	30.66
Generators	2.99	1.14
Grader	15.14	5.75
Light Carts	20.61	7.83
Dump Trucks	199.50	75.81
Grapple/Pump Truck	159.60	60.65
Water Trucks	133.00	50.54
Rollers	9.12	3.46
Dozer	9.75	3.71
Loader	86.56	32.89
Skid Steer	8.14	3.09
Total	**764.98**	**290.69**

Construction Emissions - South Main Lines: Fine Grading/Subballast Placement

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	22	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Generators	4	2	20	0.74
Grader	8	10	250	0.41
Water Trucks	20	10	376	0.38
Rollers	8	10	150	0.38
Dozer	4	10	190	0.40

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	3.86	36.27	27.87	0.07	1.59	1.46	2.71	5.42	27.87	0.07	0.36	0.18
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	1.57	15.66	24.71	0.04	0.75	0.69	1.51	3.02	24.71	0.04	0.20	0.10
Dozer	1.76	16.50	13.01	0.02	0.80	0.74	1.01	2.01	13.01	0.02	0.13	0.07
Total	**16.02**	**125.63**	**132.36**	**0.35**	**5.32**	**4.90**	**14.05**	**29.43**	**####**	**0.35**	**1.96**	**0.98**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.04	0.40	0.31	0.00	0.02	0.02	0.03	0.06	0.31	0.00	0.00	0.00
Water Trucks	0.10	0.63	0.73	0.00	0.02	0.02	0.10	0.21	0.73	0.00	0.01	0.01
Rollers	0.02	0.17	0.27	0.00	0.01	0.01	0.02	0.03	0.27	0.00	0.00	0.00
Dozer	0.02	0.18	0.14	0.00	0.01	0.01	0.01	0.02	0.14	0.00	0.00	0.00
Total	**0.18**	**1.38**	**1.46**	**0.00**	**0.06**	**0.05**	**0.15**	**0.32**	**1.46**	**0.00**	**0.02**	**0.01**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Generators	0.53	0.20
Grader	71.62	27.22
Water Trucks	235.97	89.67
Rollers	43.14	16.39
Dozer	23.07	8.77
Total	**374.33**	**142.25**

Construction Emissions - South Main Lines: Track and Signal Work

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	130	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Crane	1	5	367	0.29
Excavator	2	10	236	0.38
Generators	4	2	20	0.74
Light Carts	8	8	20	0.74
Dump Trucks	3	10	376	0.38
Grapple/Pump Truck	4	10	376	0.38
Water Trucks	2	10	376	0.38
Other	1	2	82	0.42
Track Laying Machine	1	3	525	0.42
Paving Equipment	1	2	89	0.36
Dozer	1	3	190	0.40
Loader	3	10	265	0.36
Skid Steer	1	10	90	0.37

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.22	2.11	1.72	0.00	0.10	0.09	0.18	0.35	1.72	0.00	0.02	0.01
Excavator	0.38	2.90	4.98	0.01	0.12	0.11	0.38	1.19	4.98	0.01	0.08	0.04
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	1.32	8.55	9.96	0.03	0.33	0.30	1.32	8.55	9.96	0.03	0.33	0.30
Grapple/Pump Truck	1.76	11.41	13.28	0.04	0.44	0.40	1.76	3.78	13.28	0.04	0.25	0.13
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Other	0.02	0.22	0.21	0.00	0.01	0.01	0.02	0.05	0.21	0.00	0.00	0.00
Track Laying Machine	4.38	3.79	3.79	0.00	2.19	2.01	4.38	3.79	3.79	0.00	2.19	2.01
Paving Equipment	0.02	0.18	0.27	0.00	0.01	0.01	0.02	0.04	0.27	0.00	0.00	0.00
Dozer	0.13	1.24	0.98	0.00	0.06	0.06	0.08	0.15	0.98	0.00	0.01	0.01
Loader	0.95	7.27	8.89	0.02	0.32	0.30	0.95	1.89	8.89	0.02	0.13	0.06
Skid Steer	0.10	1.28	2.22	0.00	0.04	0.04	0.10	0.22	1.91	0.00	0.01	0.01
Total	**10.30**	**45.78**	**55.74**	**0.15**	**3.86**	**3.55**	**10.21**	**22.61**	**55.43**	**0.15**	**3.18**	**2.65**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.01	0.14	0.11	0.00	0.01	0.01	0.01	0.02	0.11	0.00	0.00	0.00
Excavator	0.02	0.19	0.32	0.00	0.01	0.01	0.02	0.08	0.32	0.00	0.01	0.00
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Light Carts	0.01	0.06	0.16	0.00	0.00	0.00	0.01	0.04	0.16	0.00	0.00	0.00
Dump Trucks	0.09	0.56	0.65	0.00	0.02	0.02	0.09	0.56	0.65	0.00	0.02	0.02
Grapple/Pump Truck	0.11	0.74	0.86	0.00	0.03	0.03	0.11	0.25	0.86	0.00	0.02	0.01
Water Trucks	0.06	0.37	0.43	0.00	0.01	0.01	0.06	0.12	0.43	0.00	0.01	0.00
Other	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Track Laying Machine	0.28	0.25	0.25	0.00	0.14	0.13	0.28	0.25	0.25	0.00	0.14	0.13
Paving Equipment	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Dozer	0.01	0.08	0.06	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
Loader	0.06	0.47	0.58	0.00	0.02	0.02	0.06	0.12	0.58	0.00	0.01	0.00
Skid Steer	0.01	0.08	0.14	0.00	0.00	0.00	0.01	0.01	0.12	0.00	0.00	0.00
Total	**0.67**	**2.98**	**3.62**	**0.01**	**0.25**	**0.23**	**0.66**	**1.47**	**3.60**	**0.01**	**0.21**	**0.17**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Crane	25.26	9.60
Excavator	84.57	32.14
Generators	3.14	1.19
Light Carts	21.60	8.21
Dump Trucks	209.15	79.48
Grapple/Pump Truck	278.87	105.97
Water Trucks	139.44	52.99
Other	3.39	1.29
Track Laying Machine	32.58	12.38
Paving Equipment	3.46	1.32
Dozer	10.23	3.89
Loader	136.13	51.73
Skid Steer	21.35	8.11
Total	**969.17**	**368.28**

Daily Construction Emissions Summary - Intermodal Facility

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	44.98	371.70	354.77	0.98	15.51	14.27	42.05	301.96	354.77	0.98	8.76	7.77
Mass Grading	141.55	1,233.17	1,132.05	2.93	52.80	48.58	127.24	858.06	1,132.05	2.93	26.07	22.29
Drainage and Underground	15.75	108.67	131.79	0.39	4.37	4.02	15.59	78.15	131.79	0.39	2.34	1.90
Bridges and Box Culverts	9.05	69.69	82.50	0.22	2.88	2.65	8.52	32.63	81.88	0.22	1.11	0.79
Fine Grading/ Suballast Replacement	17.81	142.68	148.69	0.38	6.10	5.61	15.35	32.04	148.69	0.38	1.49	0.75
Total	**229.13**	**1,925.91**	**1,849.79**	**4.91**	**81.66**	**75.13**	**208.75**	**1,302.83**	**1,849.17**	**4.91**	**39.77**	**33.50**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mass Grading	141.55	1,233.17	1,132.05	2.93	52.80	48.58	127.24	858.06	1,132.05	2.93	26.07	22.29
Drainage and Underground	15.75	108.67	131.79	0.39	4.37	4.02	15.59	78.15	131.79	0.39	2.34	1.90
Bridges and Box Culverts	9.05	69.69	82.50	0.22	2.88	2.65	8.52	32.63	81.88	0.22	1.11	0.79
Fine Grading/ Suballast Replacement	17.81	142.68	148.69	0.38	6.10	5.61	15.35	32.04	148.69	0.38	1.49	0.75
Building and Paving	4.36	34.08	40.49	0.10	1.38	1.27	4.05	16.64	39.86	0.10	0.54	0.40
Track and Signal Work	9.32	31.38	37.36	0.09	4.02	3.69	9.17	16.57	37.33	0.09	2.45	2.15
Total	**197.83**	**1,619.67**	**1,572.87**	**4.12**	**71.55**	**65.83**	**179.92**	**1,034.09**	**1,571.60**	**4.12**	**34.00**	**28.29**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Building and Paving	4.36	34.08	40.49	0.10	1.38	1.27	4.05	16.64	39.86	0.10	0.54	0.40
Track and Signal Work	9.32	31.38	37.36	0.09	4.02	3.69	9.17	16.57	37.33	0.09	2.45	2.15
Total	**13.68**	**65.46**	**77.85**	**0.19**	**5.40**	**4.97**	**13.22**	**33.21**	**77.19**	**0.19**	**2.99**	**2.56**

Total Emissions

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	229.13	1,925.91	1,849.79	4.91	81.66	75.13	208.75	1,302.83	1,849.17	4.91	39.77	33.50
2026	197.83	1,619.67	1,572.87	4.12	71.55	65.83	179.92	1,034.09	1,571.60	4.12	34.00	28.29
2027	13.68	65.46	77.85	0.19	5.40	4.97	13.22	33.21	77.19	0.19	2.99	2.56
Maximum	**229.13**	**1,925.91**	**1,849.79**	**4.91**	**81.66**	**75.13**	**208.75**	**1,302.83**	**1,849.17**	**4.91**	**39.77**	**33.50**

Annual Construction Emissions Summary - Intermodal Facility

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	0.76	6.32	6.03	0.02	0.26	0.24	0.71	5.13	6.03	0.02	0.15	0.13
Mass Grading	8.92	77.69	71.32	0.18	3.33	3.06	8.02	54.06	71.32	0.18	1.64	1.40
Drainage and Underground	0.80	5.54	6.72	0.02	0.22	0.21	0.79	3.99	6.72	0.02	0.12	0.10
Bridges and Box Culverts	0.35	2.72	3.22	0.01	0.11	0.10	0.33	1.27	3.19	0.01	0.04	0.03
Fine Grading/ Suballast Replacement	0.27	2.14	2.23	0.01	0.09	0.08	0.23	0.48	2.23	0.01	0.02	0.01
Total	**11.11**	**94.41**	**89.52**	**0.24**	**4.02**	**3.70**	**10.09**	**64.93**	**89.49**	**0.24**	**1.98**	**1.68**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading	1.13	9.87	9.06	0.02	0.42	0.39	1.02	6.86	9.06	0.02	0.21	0.18
Drainage and Underground	1.45	10.00	12.12	0.04	0.40	0.37	1.43	7.19	12.12	0.04	0.22	0.18
Bridges and Box Culverts	0.94	7.25	8.58	0.02	0.30	0.28	0.89	3.39	8.52	0.02	0.12	0.08
Fine Grading/ Suballast Replacement	1.00	7.99	8.33	0.02	0.34	0.31	0.86	1.79	8.33	0.02	0.08	0.04
Building and Paving	0.64	5.03	5.97	0.02	0.20	0.19	0.60	2.45	5.88	0.02	0.08	0.06
Track and Signal Work	1.26	4.25	5.06	0.01	0.54	0.50	1.24	2.25	5.06	0.01	0.33	0.29
Total	**6.43**	**44.38**	**49.12**	**0.13**	**2.21**	**2.04**	**6.04**	**23.94**	**48.96**	**0.13**	**1.03**	**0.83**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Building and Paving	0.03	0.26	0.30	0.00	0.01	0.01	0.03	0.12	0.30	0.00	0.00	0.00
Track and Signal Work	0.01	0.05	0.06	0.00	0.01	0.01	0.01	0.02	0.06	0.00	0.00	0.00
Total	**0.05**	**0.30**	**0.36**	**0.00**	**0.02**	**0.02**	**0.04**	**0.15**	**0.35**	**0.00**	**0.01**	**0.01**

Total Emissions

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	11.11	94.41	89.52	0.24	4.02	3.70	10.09	64.93	89.49	0.24	1.98	1.68
2026	6.43	44.38	49.12	0.13	2.21	2.04	6.04	23.94	48.96	0.13	1.03	0.83
2027	0.05	0.30	0.36	0.00	0.02	0.02	0.04	0.15	0.35	0.00	0.01	0.01
Maximum	**11.11**	**94.41**	**89.52**	**0.24**	**4.02**	**3.70**	**10.09**	**64.93**	**89.49**	**0.24**	**1.98**	**1.68**

Annual Construction GHG Emissions Summary - Intermodal Facility

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Demolition, Site Preparation, Mobilization	1,641.78	623.88
Mass Grading	18,126.09	6,887.91
Drainage and Underground	1,968.05	747.86
Bridges and Box Culverts	836.10	317.72
Fine Grading/ Suballast Replacement	557.34	211.79
Total	**23,129.36**	**8,789.16**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Mass Grading	2,301.73	874.66
Drainage and Underground	3,550.20	1,349.08
Bridges and Box Culverts	2,229.60	847.25
Fine Grading/ Suballast Replacement	2,080.74	790.68
Building and Paving	1,478.77	561.93
Track and Signal Work	1,201.82	456.69
Total	**12,842.86**	**4,880.29**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Building and Paving	75.19	28.57
Track and Signal Work	13.30	5.06
Total	**88.50**	**33.63**

Total Emissions

	GHG Emissions ($MTCO_2e$ per year)	
Construction Year	**Unmitigated**	**Mitigated**
2025	23,129.36	8,789.16
2026	12,842.86	4,880.29
2027	88.50	33.63
Total	**36,060.71**	**13,703.07**

Construction Emissions - Intermodal Facility: Demolition, Site Preparation, Mobilization

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	34	0	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	3	10	450	0.38
Generators	4	2	20	0.74
Dump Trucks	36	10	376	0.38
Water Trucks	2	4	376	0.38
Dozer	7	10	419	0.40
Loader	3	10	360	0.36
657 Scraper	11	10	1051	0.48

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	1.10	8.29	14.24	0.04	0.33	0.30	1.10	3.39	14.24	0.04	0.23	0.11
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	15.84	102.65	119.51	0.39	3.92	3.60	15.84	102.65	119.51	0.39	3.92	3.60
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Dozer	6.80	63.67	50.23	0.08	3.10	2.86	3.88	7.76	50.23	0.08	0.52	0.26
Loader	1.28	9.88	12.07	0.03	0.44	0.40	1.28	2.57	12.07	0.03	0.17	0.09
657 Scraper	19.58	184.75	155.70	0.43	7.63	7.02	19.58	184.75	155.70	0.43	7.63	7.02
Total	**44.98**	**371.70**	**354.77**	**0.98**	**15.51**	**14.27**	**42.05**	**301.96**	**354.77**	**0.98**	**12.51**	**11.10**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.02	0.14	0.24	0.00	0.01	0.01	0.02	0.06	0.24	0.00	0.00	0.00
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Dump Trucks	0.27	1.75	2.03	0.01	0.07	0.06	0.27	1.75	2.03	0.01	0.07	0.06
Water Trucks	0.01	0.04	0.05	0.00	0.00	0.00	0.01	0.01	0.05	0.00	0.00	0.00
Dozer	0.12	1.08	0.85	0.00	0.05	0.05	0.07	0.13	0.85	0.00	0.01	0.00
Loader	0.02	0.17	0.21	0.00	0.01	0.01	0.02	0.04	0.21	0.00	0.00	0.00
657 Scraper	0.33	3.14	2.65	0.01	0.13	0.12	0.33	3.14	2.65	0.01	0.13	0.12
Total	**0.76**	**6.32**	**6.03**	**0.02**	**0.26**	**0.24**	**0.71**	**5.13**	**6.03**	**0.02**	**0.21**	**0.19**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Excavator	63.27	24.04
Generators	0.82	0.31
Dump Trucks	656.42	249.44
Water Trucks	14.59	5.54
Dozer	137.62	52.29
Loader	48.37	18.38
657 Scraper	720.70	273.87
Total	**1,641.78**	**623.88**

Construction Emissions - Intermodal Facility: Mass Grading

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	126	16	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	13	10	450	0.38
Generators	4	2	20	0.74
Grader	1	7	250	0.41
Dump Trucks	41	10	376	0.38
Water Trucks	20	10	376	0.38
Rollers	1	7	325	0.38
Dozer	34	10	419	0.40
Loader	16	10	360	0.36
657 Scraper	39	10	1051	0.48

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	4.75	35.94	61.69	0.16	1.43	1.31	4.75	14.70	61.69	0.16	0.98	0.49
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.34	3.17	2.44	0.01	0.14	0.13	0.24	0.47	2.44	0.01	0.03	0.02
Dump Trucks	18.04	116.91	136.11	0.45	4.46	4.10	18.04	116.91	136.11	0.45	4.46	4.10
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	0.30	2.97	4.68	0.01	0.14	0.13	0.29	0.57	4.68	0.01	0.04	0.02
Dozer	33.04	309.25	243.96	0.40	15.07	13.87	18.84	37.69	243.96	0.40	2.51	1.26
Loader	6.85	52.71	64.39	0.15	2.34	2.15	6.85	13.71	64.39	0.15	0.91	0.46
657 Scraper	69.40	655.02	552.02	1.53	27.04	24.87	69.40	655.02	552.02	1.53	27.04	24.87
Total	**141.55**	**1,233.17**	**1,132.05**	**2.93**	**52.80**	**48.58**	**127.24**	**858.06**	**1,132.05**	**2.93**	**37.24**	**31.85**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	4.75	35.94	61.69	0.16	1.43	1.31	4.75	14.70	61.69	0.16	0.98	0.49
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.34	3.17	2.44	0.01	0.14	0.13	0.24	0.47	2.44	0.01	0.03	0.02
Dump Trucks	18.04	116.91	136.11	0.45	4.46	4.10	18.04	116.91	136.11	0.45	4.46	4.10
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	0.30	2.97	4.68	0.01	0.14	0.13	0.29	0.57	4.68	0.01	0.04	0.02
Dozer	33.04	309.25	243.96	0.40	15.07	13.87	18.84	37.69	243.96	0.40	2.51	1.26
Loader	6.85	52.71	64.39	0.15	2.34	2.15	6.85	13.71	64.39	0.15	0.91	0.46
657 Scraper	69.40	655.02	552.02	1.53	27.04	24.87	69.40	655.02	552.02	1.53	27.04	24.87
Total	141.55	1,233.17	1,132.05	2.93	52.80	48.58	127.24	858.06	1,132.05	2.93	37.24	31.85

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.30	2.26	3.89	0.01	0.09	0.08	0.30	0.93	3.89	0.01	0.06	0.03
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.02	0.20	0.15	0.00	0.01	0.01	0.01	0.03	0.15	0.00	0.00	0.00
Dump Trucks	1.14	7.37	8.57	0.03	0.28	0.26	1.14	7.37	8.57	0.03	0.28	0.26
Water Trucks	0.55	3.59	4.18	0.01	0.14	0.13	0.55	1.19	4.18	0.01	0.08	0.04
Rollers	0.02	0.19	0.30	0.00	0.01	0.01	0.02	0.04	0.30	0.00	0.00	0.00
Dozer	2.08	19.48	15.37	0.03	0.95	0.87	1.19	2.37	15.37	0.03	0.16	0.08
Loader	0.43	3.32	4.06	0.01	0.15	0.14	0.43	0.86	4.06	0.01	0.06	0.03
657 Scraper	4.37	41.27	34.78	0.10	1.70	1.57	4.37	41.27	34.78	0.10	1.70	1.57
Total	**8.92**	**77.69**	**71.32**	**0.18**	**3.33**	**3.06**	**8.02**	**54.06**	**71.32**	**0.18**	**2.35**	**2.01**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.04	0.29	0.49	0.00	0.01	0.01	0.04	0.12	0.49	0.00	0.01	0.00
Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Dump Trucks	0.14	0.94	1.09	0.00	0.04	0.03	0.14	0.94	1.09	0.00	0.04	0.03

Water Trucks		0.07	0.46	0.53	0.00	0.02	0.02	0.07	0.15	0.53	0.00	0.01	0.01
Rollers		0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
Dozer		0.26	2.47	1.95	0.00	0.12	0.11	0.15	0.30	1.95	0.00	0.02	0.01
Loader		0.05	0.42	0.52	0.00	0.02	0.02	0.05	0.11	0.52	0.00	0.01	0.00
657 Scraper		0.56	5.24	4.42	0.01	0.22	0.20	0.56	5.24	4.42	0.01	0.22	0.20
	Total	**1.13**	**9.87**	**9.06**	**0.02**	**0.42**	**0.39**	**1.02**	**6.86**	**9.06**	**0.02**	**0.30**	**0.25**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Excavator	1,015.97	386.07
Generators	3.04	1.16
Grader	35.89	13.64
Dump Trucks	2,770.49	1,052.79
Water Trucks	1,351.46	513.55
Rollers	46.84	17.80
Dozer	2,477.10	941.30
Loader	955.95	363.26
657 Scraper	9,469.35	3,598.35
Total	**18,126.09**	**6,887.91**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Excavator	129.01	49.02
Generators	0.39	0.15
Grader	4.56	1.73
Dump Trucks	351.81	133.69
Water Trucks	171.61	65.21
Rollers	5.95	2.26
Dozer	314.55	119.53
Loader	121.39	46.13
657 Scraper	1,202.46	456.93
Total	**2,301.73**	**874.66**

Construction Emissions - Intermodal Facility: Drainage and Underground

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	102	184	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Crane	1	6	367	0.29
Excavator	7	10	236	0.38
Generators	4	2	20	0.74
Dump Trucks	23	10	376	0.38
Water Trucks	2	10	376	0.38
Loader	9	10	265	0.36
Trenchers	1	9	115	0.50

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.26	2.54	2.07	0.00	0.12	0.11	0.21	0.42	2.07	0.00	0.03	0.01
Excavator	1.34	10.15	17.42	0.05	0.40	0.37	1.34	4.15	17.42	0.05	0.28	0.14
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	10.12	65.58	76.35	0.25	2.50	2.30	10.12	65.58	76.35	0.25	2.50	2.30
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Loader	2.84	21.82	26.66	0.06	0.97	0.89	2.84	5.68	26.66	0.06	0.38	0.19
Trenchers	0.28	2.70	2.28	0.00	0.16	0.14	0.17	0.34	2.28	0.00	0.02	0.01
Total	**15.75**	**108.67**	**131.79**	**0.39**	**4.37**	**4.02**	**15.59**	**78.15**	**131.79**	**0.39**	**3.34**	**2.72**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.26	2.54	2.07	0.00	0.12	0.11	0.21	0.42	2.07	0.00	0.03	0.01
Excavator	1.34	10.15	17.42	0.05	0.40	0.37	1.34	4.15	17.42	0.05	0.28	0.14
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	10.12	65.58	76.35	0.25	2.50	2.30	10.12	65.58	76.35	0.25	2.50	2.30
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Loader	2.84	21.82	26.66	0.06	0.97	0.89	2.84	5.68	26.66	0.06	0.38	0.19
Trenchers	0.28	2.70	2.28	0.00	0.16	0.14	0.17	0.34	2.28	0.00	0.02	0.01
Total	**15.75**	**108.67**	**131.79**	**0.39**	**4.37**	**4.02**	**15.59**	**78.15**	**131.79**	**0.39**	**3.34**	**2.72**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.01	0.13	0.11	0.00	0.01	0.01	0.01	0.02	0.11	0.00	0.00	0.00
Excavator	0.07	0.52	0.89	0.00	0.02	0.02	0.07	0.21	0.89	0.00	0.01	0.01
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Dump Trucks	0.52	3.34	3.89	0.01	0.13	0.12	0.52	3.34	3.89	0.01	0.13	0.12
Water Trucks	0.04	0.29	0.34	0.00	0.01	0.01	0.04	0.10	0.34	0.00	0.01	0.00
Loader	0.14	1.11	1.36	0.00	0.05	0.05	0.14	0.29	1.36	0.00	0.02	0.01
Trenchers	0.01	0.14	0.12	0.00	0.01	0.01	0.01	0.02	0.12	0.00	0.00	0.00
Total	**0.80**	**5.54**	**6.72**	**0.02**	**0.22**	**0.21**	**0.79**	**3.99**	**6.72**	**0.02**	**0.17**	**0.14**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.02	0.23	0.19	0.00	0.01	0.01	0.02	0.04	0.19	0.00	0.00	0.00
Excavator	0.12	0.93	1.60	0.00	0.04	0.03	0.12	0.38	1.60	0.00	0.03	0.01
Generators	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Dump Trucks	0.93	6.03	7.02	0.02	0.23	0.21	0.93	6.03	7.02	0.02	0.23	0.21

Water Trucks		0.08	0.52	0.61	0.00	0.02	0.02	0.08	0.17	0.61	0.00	0.01	0.01
Loader		0.26	2.01	2.45	0.01	0.09	0.08	0.26	0.52	2.45	0.01	0.03	0.02
Trenchers		0.03	0.25	0.21	0.00	0.01	0.01	0.02	0.03	0.21	0.00	0.00	0.00
	Total	**1.45**	**10.00**	**12.12**	**0.04**	**0.40**	**0.37**	**1.43**	**7.19**	**12.12**	**0.04**	**0.31**	**0.25**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	23.78	9.04
Excavator	232.26	88.26
Generators	2.46	0.94
Dump Trucks	1,258.14	478.09
Water Trucks	109.40	41.57
Loader	320.43	121.76
Trenchers	21.57	8.20
Total	**1,968.05**	**747.86**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	42.90	16.30
Excavator	418.97	159.21
Generators	4.44	1.69
Dump Trucks	2,269.59	862.45
Water Trucks	197.36	75.00
Loader	578.03	219.65
Trenchers	38.92	14.79
Total	**3,550.20**	**1,349.08**

Construction Emissions - Intermodal Facility: Bridges and Box Culverts

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	78	208	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Auger Boring Machine	1	8	83	0.50
Crane	3	10	367	0.29
Excavator	5	10	236	0.38
Generators	4	2	20	0.74
Grader	1	8	250	0.41
Light Carts	8	8	20	0.74
Dump Trucks	7	10	376	0.38
Grapple/Pump Truck	1	6	376	0.38
Water Trucks	2	10	376	0.38
Rollers	1	8	150	0.38
Dozer	1	8	190	0.40
Loader	4	10	265	0.36
Skid Steer	2	10	90	0.37

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.06	0.52	0.89	0.00	0.02	0.02	0.06	0.22	0.89	0.00	0.01	0.01
Crane	1.31	12.68	10.34	0.02	0.59	0.55	1.06	2.11	10.34	0.02	0.14	0.07
Excavator	0.96	7.25	12.44	0.03	0.29	0.26	0.96	2.97	12.44	0.03	0.20	0.10
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.39	3.63	2.79	0.01	0.16	0.15	0.27	0.54	2.79	0.01	0.04	0.02
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	3.08	19.96	23.24	0.08	0.76	0.70	3.08	19.96	23.24	0.08	0.76	0.70
Grapple/Pump Truck	0.26	1.71	1.99	0.01	0.07	0.06	0.26	0.57	1.99	0.01	0.04	0.02
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Rollers	0.16	1.57	2.47	0.00	0.07	0.07	0.15	0.30	2.47	0.00	0.02	0.01
Dozer	0.35	3.30	2.60	0.00	0.16	0.15	0.20	0.40	2.60	0.00	0.03	0.01
Loader	1.26	9.70	11.85	0.03	0.43	0.40	1.26	2.52	11.85	0.03	0.17	0.08
Skid Steer	0.19	2.55	4.44	0.01	0.08	0.07	0.19	0.44	3.82	0.01	0.03	0.01
Total	**9.05**	**69.69**	**82.50**	**0.22**	**2.88**	**2.65**	**8.52**	**32.63**	**81.88**	**0.22**	**1.59**	**1.12**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.06	0.52	0.89	0.00	0.02	0.02	0.06	0.22	0.89	0.00	0.01	0.01
Crane	1.31	12.68	10.34	0.02	0.59	0.55	1.06	2.11	10.34	0.02	0.14	0.07
Excavator	0.96	7.25	12.44	0.03	0.29	0.26	0.96	2.97	12.44	0.03	0.20	0.10
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.39	3.63	2.79	0.01	0.16	0.15	0.27	0.54	2.79	0.01	0.04	0.02
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	3.08	19.96	23.24	0.08	0.76	0.70	3.08	19.96	23.24	0.08	0.76	0.70
Grapple/Pump Truck	0.26	1.71	1.99	0.01	0.07	0.06	0.26	0.57	1.99	0.01	0.04	0.02
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Rollers	0.16	1.57	2.47	0.00	0.07	0.07	0.15	0.30	2.47	0.00	0.02	0.01
Dozer	0.35	3.30	2.60	0.00	0.16	0.15	0.20	0.40	2.60	0.00	0.03	0.01
Loader	1.26	9.70	11.85	0.03	0.43	0.40	1.26	2.52	11.85	0.03	0.17	0.08
Skid Steer	0.19	2.55	4.44	0.01	0.08	0.07	0.19	0.44	3.82	0.01	0.03	0.01
Total	**9.05**	**69.69**	**82.50**	**0.22**	**2.88**	**2.65**	**8.52**	**32.63**	**81.88**	**0.22**	**1.59**	**1.12**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Crane	0.05	0.49	0.40	0.00	0.02	0.02	0.04	0.08	0.40	0.00	0.01	0.00
Excavator	0.04	0.28	0.49	0.00	0.01	0.01	0.04	0.12	0.49	0.00	0.01	0.00
Generators	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00

Grader		0.02	0.14	0.11	0.00	0.01	0.01	0.01	0.02	0.11	0.00	0.00	0.00
Light Carts		0.00	0.04	0.09	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.00	0.00
Dump Trucks		0.12	0.78	0.91	0.00	0.03	0.03	0.12	0.78	0.91	0.00	0.03	0.03
Grapple/Pump Truck		0.01	0.07	0.08	0.00	0.00	0.00	0.01	0.02	0.08	0.00	0.00	0.00
Water Trucks		0.03	0.22	0.26	0.00	0.01	0.01	0.03	0.07	0.26	0.00	0.00	0.00
Rollers		0.01	0.06	0.10	0.00	0.00	0.00	0.01	0.01	0.10	0.00	0.00	0.00
Dozer		0.01	0.13	0.10	0.00	0.01	0.01	0.01	0.02	0.10	0.00	0.00	0.00
Loader		0.05	0.38	0.46	0.00	0.02	0.02	0.05	0.10	0.46	0.00	0.01	0.00
Skid Steer		0.01	0.10	0.17	0.00	0.00	0.00	0.01	0.02	0.15	0.00	0.00	0.00
	Total	**0.35**	**2.72**	**3.22**	**0.01**	**0.11**	**0.10**	**0.33**	**1.27**	**3.19**	**0.01**	**0.06**	**0.04**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_x**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_x**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Auger Boring Machine	0.01	0.05	0.09	0.00	0.00	0.00	0.01	0.02	0.09	0.00	0.00	0.00
Crane	0.14	1.32	1.08	0.00	0.06	0.06	0.11	0.22	1.08	0.00	0.01	0.01
Excavator	0.10	0.75	1.29	0.00	0.03	0.03	0.10	0.31	1.29	0.00	0.02	0.01
Generators	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Grader	0.04	0.38	0.29	0.00	0.02	0.02	0.03	0.06	0.29	0.00	0.00	0.00
Light Carts	0.01	0.10	0.25	0.00	0.00	0.00	0.01	0.07	0.25	0.00	0.00	0.00
Dump Trucks	0.32	2.08	2.42	0.01	0.08	0.07	0.32	2.08	2.42	0.01	0.08	0.07
Grapple/Pump Truck	0.03	0.18	0.21	0.00	0.01	0.01	0.03	0.06	0.21	0.00	0.00	0.00
Water Trucks	0.09	0.59	0.69	0.00	0.02	0.02	0.09	0.20	0.69	0.00	0.01	0.01
Rollers	0.02	0.16	0.26	0.00	0.01	0.01	0.02	0.03	0.26	0.00	0.00	0.00
Dozer	0.04	0.34	0.27	0.00	0.02	0.02	0.02	0.04	0.27	0.00	0.00	0.00
Loader	0.13	1.01	1.23	0.00	0.04	0.04	0.13	0.26	1.23	0.00	0.02	0.01
Skid Steer	0.02	0.27	0.46	0.00	0.01	0.01	0.02	0.05	0.40	0.00	0.00	0.00
Total	**0.94**	**7.25**	**8.58**	**0.02**	**0.30**	**0.28**	**0.89**	**3.39**	**8.52**	**0.02**	**0.17**	**0.12**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	10.33	3.92
Crane	90.93	34.55
Excavator	126.86	48.21
Generators	1.88	0.72
Grader	25.39	9.65
Light Carts	12.96	4.93
Dump Trucks	292.82	111.27
Grapple/Pump Truck	25.10	9.54
Water Trucks	83.66	31.79
Rollers	15.29	5.81
Dozer	16.36	6.22
Loader	108.90	41.38
Skid Steer	25.61	9.73
Total	**836.10**	**317.72**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	27.53	10.46
Crane	242.47	92.14
Excavator	338.30	128.55
Generators	5.02	1.91
Grader	67.71	25.73
Light Carts	34.57	13.14
Dump Trucks	780.84	296.72
Grapple/Pump Truck	66.93	25.43
Water Trucks	223.10	84.78
Rollers	40.79	15.50
Dozer	43.63	16.58
Loader	290.41	110.36
Skid Steer	68.31	25.96
Total	**2,229.60**	**847.25**

Construction Emissions - Intermodal Facility: Fine Grading/ Subballast Placement

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	30	112	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Grader	10	10	250	0.41
Light Carts	4	2	20	0.74
Water Trucks	20	10	376	0.38
Rollers	10	10	150	0.38
Dozer	5	10	190	0.40

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	4.83	45.34	34.84	0.08	1.98	1.82	3.39	6.78	34.84	0.08	0.45	0.23
Light Carts	0.02	0.12	0.30	0.00	0.00	0.00	0.02	0.08	0.30	0.00	0.00	0.00
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	1.96	19.57	30.89	0.05	0.94	0.86	1.88	3.77	30.89	0.05	0.25	0.13
Dozer	2.20	20.62	16.27	0.03	1.01	0.92	1.26	2.51	16.27	0.03	0.17	0.08
Total	**17.81**	**142.68**	**148.69**	**0.38**	**6.10**	**5.61**	**15.35**	**32.04**	**148.69**	**0.38**	**2.13**	**1.07**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	4.83	45.34	34.84	0.08	1.98	1.82	3.39	6.78	34.84	0.08	0.45	0.23
Light Carts	0.02	0.12	0.30	0.00	0.00	0.00	0.02	0.08	0.30	0.00	0.00	0.00
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	1.96	19.57	30.89	0.05	0.94	0.86	1.88	3.77	30.89	0.05	0.25	0.13
Dozer	2.20	20.62	16.27	0.03	1.01	0.92	1.26	2.51	16.27	0.03	0.17	0.08
Total	**17.81**	**142.68**	**148.69**	**0.38**	**6.10**	**5.61**	**15.35**	**32.04**	**148.69**	**0.38**	**2.13**	**1.07**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	0.07	0.68	0.52	0.00	0.03	0.03	0.05	0.10	0.52	0.00	0.01	0.00
Light Carts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Trucks	0.13	0.86	1.00	0.00	0.03	0.03	0.13	0.28	1.00	0.00	0.02	0.01
Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rollers	0.03	0.29	0.46	0.00	0.01	0.01	0.03	0.06	0.46	0.00	0.00	0.00
Dozer	0.03	0.31	0.24	0.00	0.02	0.01	0.02	0.04	0.24	0.00	0.00	0.00
Total	**0.27**	**2.14**	**2.23**	**0.01**	**0.09**	**0.08**	**0.23**	**0.48**	**2.23**	**0.01**	**0.03**	**0.02**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	0.27	2.54	1.95	0.00	0.11	0.10	0.19	0.38	1.95	0.00	0.03	0.01
Light Carts	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Water Trucks	0.49	3.19	3.72	0.01	0.12	0.11	0.49	1.06	3.72	0.01	0.07	0.04
Rollers	0.11	1.10	1.73	0.00	0.05	0.05	0.11	0.21	1.73	0.00	0.01	0.01
Dozer	0.12	1.15	0.91	0.00	0.06	0.05	0.07	0.14	0.91	0.00	0.01	0.00
Total	**1.00**	**7.99**	**8.33**	**0.02**	**0.34**	**0.31**	**0.86**	**1.79**	**8.33**	**0.02**	**0.12**	**0.06**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Grader	122.08	46.39
Light Carts	0.62	0.24
Water Trucks	321.78	122.27
Rollers	73.53	27.94
Dozer	39.33	14.95
Total	**557.34**	**211.79**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Grader	455.76	173.19
Light Carts	2.33	0.88
Water Trucks	1,201.30	456.49
Rollers	274.52	104.32
Dozer	146.83	55.80
Total	**2,080.74**	**790.68**

Construction Emissions - Intermodal Facility: Building and Paving

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	295	15	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Auger Boring Machine	1	4	83	0.50
Crane	1	7	367	0.29
Excavator	2	10	36	0.38
Generators	4	2	20	0.74
Grader	1	10	250	0.41
Light Carts	8	8	20	0.74
Dump Trucks	4	10	376	0.38
Grapple/Pump Truck	1	3	376	0.38
Water Trucks	1	10	376	0.38
Rollers	1	10	136	0.38
Dozer	1	10	100	0.40
Loader	2	10	150	0.36
Skid Steer	2	10	90	0.37
Tractor/Loaders/Backhoes	1	4	84	0.37

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.03	0.26	0.45	0.00	0.01	0.01	0.03	0.11	0.45	0.00	0.01	0.00
Crane	0.30	2.96	2.41	0.01	0.14	0.13	0.25	0.49	2.41	0.01	0.03	0.02
Excavator	0.06	0.44	0.76	0.00	0.02	0.02	0.06	0.18	0.76	0.00	0.01	0.01
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.48	4.53	3.48	0.01	0.20	0.18	0.34	0.68	3.48	0.01	0.05	0.02
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	1.76	11.41	13.28	0.04	0.44	0.40	1.76	11.41	13.28	0.04	0.44	0.40
Grapple/Pump Truck	0.13	0.86	1.00	0.00	0.03	0.03	0.13	0.28	1.00	0.00	0.02	0.01
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Rollers	0.18	1.77	2.80	0.00	0.08	0.08	0.17	0.34	2.80	0.00	0.02	0.01
Dozer	0.23	2.17	1.71	0.00	0.11	0.10	0.13	0.26	1.71	0.00	0.02	0.01
Loader	0.36	2.75	3.35	0.01	0.12	0.11	0.36	0.71	3.35	0.01	0.05	0.02
Skid Steer	0.19	2.55	4.44	0.01	0.08	0.07	0.19	0.44	3.82	0.01	0.03	0.01
Tractor/Loaders/Backhoes	0.04	0.40	0.68	0.00	0.02	0.02	0.04	0.08	0.68	0.00	0.01	0.00
Total	**4.36**	**34.08**	**40.49**	**0.10**	**1.38**	**1.27**	**4.05**	**16.64**	**39.86**	**0.10**	**0.77**	**0.57**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.03	0.26	0.45	0.00	0.01	0.01	0.03	0.11	0.45	0.00	0.01	0.00
Crane	0.30	2.96	2.41	0.01	0.14	0.13	0.25	0.49	2.41	0.01	0.03	0.02
Excavator	0.06	0.44	0.76	0.00	0.02	0.02	0.06	0.18	0.76	0.00	0.01	0.01
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.48	4.53	3.48	0.01	0.20	0.18	0.34	0.68	3.48	0.01	0.05	0.02
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	1.76	11.41	13.28	0.04	0.44	0.40	1.76	11.41	13.28	0.04	0.44	0.40
Grapple/Pump Truck	0.13	0.86	1.00	0.00	0.03	0.03	0.13	0.28	1.00	0.00	0.02	0.01
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Rollers	0.18	1.77	2.80	0.00	0.08	0.08	0.17	0.34	2.80	0.00	0.02	0.01
Dozer	0.23	2.17	1.71	0.00	0.11	0.10	0.13	0.26	1.71	0.00	0.02	0.01
Loader	0.36	2.75	3.35	0.01	0.12	0.11	0.36	0.71	3.35	0.01	0.05	0.02
Skid Steer	0.19	2.55	4.44	0.01	0.08	0.07	0.19	0.44	3.82	0.01	0.03	0.01
Tractor/Loaders/Backhoes	0.04	0.40	0.68	0.00	0.02	0.02	0.04	0.08	0.68	0.00	0.01	0.00
Total	**4.36**	**34.08**	**40.49**	**0.10**	**1.38**	**1.27**	**4.05**	**16.64**	**39.86**	**0.10**	**0.77**	**0.57**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Auger Boring Machine	0.00	0.04	0.07	0.00	0.00	0.00	0.00	0.02	0.07	0.00	0.00	0.00
Crane	0.04	0.44	0.36	0.00	0.02	0.02	0.04	0.07	0.36	0.00	0.00	0.00
Excavator	0.01	0.07	0.11	0.00	0.00	0.00	0.01	0.03	0.11	0.00	0.00	0.00
Generators	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Grader	0.07	0.67	0.51	0.00	0.03	0.03	0.05	0.10	0.51	0.00	0.01	0.00
Light Carts	0.02	0.14	0.36	0.00	0.00	0.00	0.02	0.09	0.36	0.00	0.00	0.00
Dump Trucks	0.26	1.68	1.96	0.01	0.06	0.06	0.26	1.68	1.96	0.01	0.06	0.06
Grapple/Pump Truck	0.02	0.13	0.15	0.00	0.00	0.00	0.02	0.04	0.15	0.00	0.00	0.00
Water Trucks	0.06	0.42	0.49	0.00	0.02	0.01	0.06	0.14	0.49	0.00	0.01	0.00
Rollers	0.03	0.26	0.41	0.00	0.01	0.01	0.03	0.05	0.41	0.00	0.00	0.00
Dozer	0.03	0.32	0.25	0.00	0.02	0.01	0.02	0.04	0.25	0.00	0.00	0.00
Loader	0.05	0.40	0.49	0.00	0.02	0.02	0.05	0.11	0.49	0.00	0.01	0.00
Skid Steer	0.03	0.38	0.65	0.00	0.01	0.01	0.03	0.06	0.56	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.01	0.06	0.10	0.00	0.00	0.00	0.01	0.01	0.10	0.00	0.00	0.00
Total	**0.64**	**5.03**	**5.97**	**0.02**	**0.20**	**0.19**	**0.60**	**2.45**	**5.88**	**0.02**	**0.11**	**0.08**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Auger Boring Machine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Excavator	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Light Carts	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Dump Trucks	0.01	0.09	0.10	0.00	0.00	0.00	0.01	0.09	0.10	0.00	0.00	0.00
Grapple/Pump Truck	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Water Trucks	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Rollers	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Dozer	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Loader	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Skid Steer	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Total	**0.03**	**0.26**	**0.30**	**0.00**	**0.01**	**0.01**	**0.03**	**0.12**	**0.30**	**0.00**	**0.01**	**0.00**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	19.53	7.42
Crane	80.24	30.49
Excavator	29.28	11.12
Generators	7.12	2.71
Grader	120.04	45.62
Light Carts	49.03	18.63
Dump Trucks	632.83	240.47
Grapple/Pump Truck	47.46	18.04
Water Trucks	158.21	60.12
Rollers	65.56	24.91
Dozer	40.71	15.47
Loader	116.57	44.30
Skid Steer	96.88	36.81
Tractor/Loaders/Backhoes	15.33	5.82
Total	**1,478.77**	**561.93**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	0.99	0.38
Crane	4.08	1.55
Excavator	1.49	0.57
Generators	0.36	0.14
Grader	6.10	2.32
Light Carts	2.49	0.95
Dump Trucks	32.18	12.23
Grapple/Pump Truck	2.41	0.92
Water Trucks	8.04	3.06
Rollers	3.33	1.27
Dozer	2.07	0.79
Loader	5.93	2.25
Skid Steer	4.93	1.87
Tractor/Loaders/Backhoes	0.78	0.30
Total	**75.19**	**28.57**

Construction Emissions - Intermodal Facility: Track and Signal Work

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	271	3	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Crane	1	9	367	0.29
Excavator	2	10	236	0.38
Generators	4	2	20	0.74
Light Carts	8	8	20	0.74
Dump Trucks	2	10	376	0.38
Grapple/Pump Truck	1	1	376	0.38
Water Trucks	1	10	376	0.38
Other	1	3	82	0.42
Track Laying Machine	1	4	525	0.42
Paving Equipment	1	3	89	0.36
Dozer	1	4	190	0.40
Loader	3	10	265	0.36
Skid Steer	1	1	90	0.37

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.39	3.81	3.10	0.01	0.18	0.16	0.32	0.63	3.10	0.01	0.04	0.02
Excavator	0.38	2.90	4.98	0.01	0.12	0.11	0.38	1.19	4.98	0.01	0.08	0.04
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	5.70	6.64	0.02	0.22	0.20
Grapple/Pump Truck	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.09	0.33	0.00	0.01	0.00
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Other	0.03	0.33	0.32	0.00	0.02	0.01	0.03	0.07	0.32	0.00	0.00	0.00
Track Laying Machine	5.83	5.06	5.06	0.01	2.92	2.68	5.83	5.06	5.06	0.01	2.92	2.68
Paving Equipment	0.03	0.27	0.40	0.00	0.01	0.01	0.03	0.06	0.40	0.00	0.00	0.00
Dozer	0.18	1.65	1.30	0.00	0.08	0.07	0.10	0.20	1.30	0.00	0.01	0.01
Loader	0.95	7.27	8.89	0.02	0.32	0.30	0.95	1.89	8.89	0.02	0.13	0.06
Skid Steer	0.01	0.13	0.22	0.00	0.00	0.00	0.01	0.02	0.19	0.00	0.00	0.00
Total	**9.32**	**31.38**	**37.36**	**0.09**	**4.02**	**3.69**	**9.17**	**16.57**	**37.33**	**0.09**	**3.51**	**3.08**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.39	3.81	3.10	0.01	0.18	0.16	0.32	0.63	3.10	0.01	0.04	0.02
Excavator	0.38	2.90	4.98	0.01	0.12	0.11	0.38	1.19	4.98	0.01	0.08	0.04
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	5.70	6.64	0.02	0.22	0.20
Grapple/Pump Truck	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.09	0.33	0.00	0.01	0.00
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Other	0.03	0.33	0.32	0.00	0.02	0.01	0.03	0.07	0.32	0.00	0.00	0.00
Track Laying Machine	5.83	5.06	5.06	0.01	2.92	2.68	5.83	5.06	5.06	0.01	2.92	2.68
Paving Equipment	0.03	0.27	0.40	0.00	0.01	0.01	0.03	0.06	0.40	0.00	0.00	0.00
Dozer	0.18	1.65	1.30	0.00	0.08	0.07	0.10	0.20	1.30	0.00	0.01	0.01
Loader	0.95	7.27	8.89	0.02	0.32	0.30	0.95	1.89	8.89	0.02	0.13	0.06
Skid Steer	0.01	0.13	0.22	0.00	0.00	0.00	0.01	0.02	0.19	0.00	0.00	0.00
Total	**9.32**	**31.38**	**37.36**	**0.09**	**4.02**	**3.69**	**9.17**	**16.57**	**37.33**	**0.09**	**3.51**	**3.08**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.05	0.52	0.42	0.00	0.02	0.02	0.04	0.09	0.42	0.00	0.01	0.00
Excavator	0.05	0.39	0.67	0.00	0.02	0.01	0.05	0.16	0.67	0.00	0.01	0.01
Generators	0.00	0.02	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Light Carts	0.02	0.13	0.33	0.00	0.00	0.00	0.02	0.08	0.33	0.00	0.00	0.00

Dump Trucks		0.12	0.77	0.90	0.00	0.03	0.03	0.12	0.77	0.90	0.00	0.03	0.03
Grapple/Pump Truck		0.01	0.04	0.04	0.00	0.00	0.00	0.01	0.01	0.04	0.00	0.00	0.00
Water Trucks		0.06	0.39	0.45	0.00	0.01	0.01	0.06	0.13	0.45	0.00	0.01	0.00
Other		0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Track Laying Machine		0.79	0.69	0.69	0.00	0.40	0.36	0.79	0.69	0.69	0.00	0.40	0.36
Paving Equipment		0.00	0.04	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Dozer		0.02	0.22	0.18	0.00	0.01	0.01	0.01	0.03	0.18	0.00	0.00	0.00
Loader		0.13	0.99	1.20	0.00	0.04	0.04	0.13	0.26	1.20	0.00	0.02	0.01
Skid Steer		0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
	Total	**1.26**	**4.25**	**5.06**	**0.01**	**0.54**	**0.50**	**1.24**	**2.25**	**5.06**	**0.01**	**0.47**	**0.42**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Crane	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Carts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dump Trucks	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Grapple/Pump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Track Laying Machine	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00
Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dozer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Loader	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Skid Steer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.01**	**0.05**	**0.06**	**0.00**	**0.01**	**0.01**	**0.01**	**0.02**	**0.06**	**0.00**	**0.01**	**0.00**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	94.77	36.01
Excavator	176.31	67.00
Generators	6.54	2.49
Light Carts	45.04	17.11
Dump Trucks	290.67	110.45
Grapple/Pump Truck	14.53	5.52
Water Trucks	145.34	55.23
Other	10.61	4.03
Track Laying Machine	90.54	34.41
Paving Equipment	10.83	4.11
Dozer	28.42	10.80
Loader	283.78	107.84
Skid Steer	4.45	1.69
Total	**1,201.82**	**456.69**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	1.05	0.40
Excavator	1.95	0.74
Generators	0.07	0.03
Light Carts	0.50	0.19
Dump Trucks	3.22	1.22
Grapple/Pump Truck	0.16	0.06
Water Trucks	1.61	0.61
Other	0.12	0.04
Track Laying Machine	1.00	0.38
Paving Equipment	0.12	0.05
Dozer	0.31	0.12
Loader	3.14	1.19
Skid Steer	0.05	0.02
Total	**13.30**	**5.06**

Annual Construction Emissions Summary - Block Swap Yard

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	2.08	17.16	16.33	0.05	0.72	0.66	1.94	14.07	16.33	0.05	0.41	0.36
Total	**2.08**	**17.16**	**16.33**	**0.05**	**0.72**	**0.66**	**1.94**	**14.07**	**16.33**	**0.05**	**0.41**	**0.36**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mass Grading	26.42	233.20	211.59	0.54	10.02	9.22	23.61	165.59	211.59	0.54	4.98	4.31
Drainage and Underground	0.56	3.80	4.70	0.01	0.15	0.14	0.56	2.56	4.70	0.01	0.08	0.06
Bridges and Box Culverts	1.02	7.77	9.26	0.02	0.32	0.30	0.96	3.69	9.19	0.02	0.13	0.09
Fine Grading/ Subballast Placement	1.86	15.86	15.92	0.04	0.71	0.65	1.50	3.08	15.92	0.04	0.14	0.07
Total	**29.85**	**260.63**	**241.47**	**0.62**	**11.21**	**10.31**	**26.63**	**174.93**	**241.41**	**0.62**	**5.33**	**4.53**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Drainage and Underground	0.11	0.74	0.92	0.00	0.03	0.03	0.11	0.50	0.92	0.00	0.02	0.01
Bridges and Box Culverts	0.20	1.52	1.81	0.00	0.06	0.06	0.19	0.72	1.80	0.00	0.02	0.02
Fine Grading/ Subballast Placement	2.67	22.86	22.95	0.05	1.02	0.94	2.16	4.44	22.95	0.05	0.21	0.10
Track and Signal Work	3.49	6.98	8.07	0.02	1.65	1.52	3.46	3.79	8.06	0.02	1.08	0.97
Total	6.48	32.10	33.75	0.08	2.76	2.54	5.91	9.46	33.73	0.08	1.33	1.10

Construction Year 2028

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Track and Signal Work	2.34	4.67	5.40	0.01	1.10	1.02	2.32	2.54	5.40	0.01	0.72	0.65
Total	2.34	4.67	5.40	0.01	1.10	1.02	2.32	2.54	5.40	0.01	0.72	0.65

Total Emissions

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	2.08	17.16	16.33	0.05	0.72	0.66	1.94	14.07	16.33	0.05	0.41	0.36
2026	29.85	260.63	241.47	0.62	11.21	10.31	26.63	174.93	241.41	0.62	5.33	4.53
2027	6.48	32.10	33.75	0.08	2.76	2.54	5.91	9.46	33.73	0.08	1.33	1.10
2028	2.34	4.67	5.40	0.01	1.10	1.02	2.32	2.54	5.40	0.01	0.72	0.65
Maximum	**29.85**	**260.63**	**241.47**	**0.62**	**11.21**	**10.31**	**26.63**	**174.93**	**241.41**	**0.62**	**5.33**	**4.53**

Daily Construction Emissions Summary - Block Swap Yard

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	122.23	1,009.54	960.66	2.67	42.09	38.73	114.30	827.67	960.66	2.67	23.92	21.30
Total	**122.23**	**1,009.54**	**960.66**	**2.67**	**42.09**	**38.73**	**114.30**	**827.67**	**960.66**	**2.67**	**23.92**	**21.30**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mass Grading	562.19	4,961.60	4,501.93	11.52	213.30	196.23	502.42	3,523.21	4,501.93	11.52	105.96	91.70
Drainage and Underground	5.59	38.17	47.28	0.14	1.51	1.39	5.58	25.77	47.28	0.14	0.80	0.63
Bridges and Box Culverts	10.20	78.12	93.03	0.25	3.23	2.97	9.64	37.08	92.41	0.25	1.26	0.89
Fine Grading/ Subballast Placement	29.22	249.82	250.77	0.58	11.16	10.27	23.61	48.55	250.77	0.58	2.26	1.13
Total	**607.20**	**5,327.70**	**4,893.00**	**12.49**	**229.20**	**210.87**	**541.26**	**3,634.60**	**4,892.38**	**12.49**	**110.30**	**94.35**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Drainage and Underground	5.59	38.17	47.28	0.14	1.51	1.39	5.58	25.77	47.28	0.14	0.80	0.63
Bridges and Box Culverts	10.20	78.12	93.03	0.25	3.23	2.97	9.64	37.08	92.41	0.25	1.26	0.89
Fine Grading/ Subballast Placement	29.22	249.82	250.77	0.58	11.16	10.27	23.61	48.55	250.77	0.58	2.26	1.13
Track and Signal Work	34.94	69.77	80.67	0.17	16.49	15.17	34.56	37.93	80.61	0.17	10.78	9.69
Total	79.95	435.88	471.75	1.14	32.39	29.80	73.39	149.33	471.06	1.14	15.11	12.34

Construction Year 2028

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Track and Signal Work	34.94	69.77	80.67	0.17	16.49	15.17	34.56	37.93	80.61	0.17	10.78	9.69
Total	34.94	69.77	80.67	0.17	16.49	15.17	34.56	37.93	80.61	0.17	10.78	9.69

Total Emissions

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	122.23	1,009.54	960.66	2.67	42.09	38.73	114.30	827.67	960.66	2.67	23.92	21.30
2026	607.20	5,327.70	4,893.00	12.49	229.20	210.87	541.26	3,634.60	4,892.38	12.49	110.30	94.35
2027	79.95	435.88	471.75	1.14	32.39	29.80	73.39	149.33	471.06	1.14	15.11	12.34
2028	34.94	69.77	80.67	0.17	16.49	15.17	34.56	37.93	80.61	0.17	10.78	9.69
Maximum	**607.20**	**5,327.70**	**4,893.00**	**12.49**	**229.20**	**210.87**	**541.26**	**3,634.60**	**4,892.38**	**12.49**	**110.30**	**94.35**

Annual Construction GHG Emissions Summary - Blockswap Yard

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Demolition, Site Preparation, Mobilization	4,456.60	1,693.51
Total	**4,456.60**	**1,693.51**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Mass Grading	53,104.92	20,179.87
Drainage and Underground	1,386.29	526.79
Bridges and Box Culverts	2,416.87	918.41
Fine Grading/ Subballast Placement	3,607.06	1,370.68
Total	**60,515.14**	**22,995.75**

Construction Year 2027

	GHG Emissions (metric tons CO_2e per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Drainage and Underground	271.68	103.24
Bridges and Box Culverts	473.66	179.99
Fine Grading/ Subballast Placement	5,197.57	1,975.08
Track and Signal Work	1,677.53	637.46
Total	**7,620.44**	**2,895.77**

Construction Year 2028

	GHG Emissions (metric tons CO_2e per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Track and Signal Work	1,123.95	427.10
Total	**1,123.95**	**427.10**

Total Emissions

	GHG Emissions ($MTCO_2e$ per year)	
Construction Year	**Unmitigated**	**Mitigated**
2025	4,456.60	1,693.51
2026	60,515.14	22,995.75
2027	7,620.44	2,895.77
2028	1,123.95	427.10
	60,515.14	22,995.75
Total	**134,231.26**	**51,007.88**

Construction Emissions - Block Swap Yard: Demolition, Site Preparation, Mobilization

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	34	0	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	7	10	450	0.38
Generators	4	2	20	0.74
Dump Trucks	101	10	376	0.38
Water Trucks	2	4	376	0.38
Dozer	19	10	419	0.40
Loader	7	10	360	0.36
657 Scraper	30	10	1051	0.48

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	2.56	19.35	33.22	0.09	0.77	0.71	2.56	7.92	33.22	0.09	0.53	0.26
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	44.45	287.99	335.29	1.10	10.98	10.11	44.45	287.99	335.29	1.10	10.98	10.11
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Dozer	18.46	172.82	136.33	0.22	8.42	7.75	10.53	21.06	136.33	0.22	1.40	0.70
Loader	3.00	23.06	28.17	0.07	1.02	0.94	3.00	6.00	28.17	0.07	0.40	0.20
657 Scraper	53.39	503.86	424.63	1.18	20.80	19.13	53.39	503.86	424.63	1.18	20.80	19.13
Total	**122.23**	**1,009.54**	**960.66**	**2.67**	**42.09**	**38.73**	**114.30**	**827.67**	**960.66**	**2.67**	**34.17**	**30.43**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.04	0.33	0.56	0.00	0.01	0.01	0.04	0.13	0.56	0.00	0.01	0.00
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Dump Trucks	0.76	4.90	5.70	0.02	0.19	0.17	0.76	4.90	5.70	0.02	0.19	0.17
Water Trucks	0.01	0.04	0.05	0.00	0.00	0.00	0.01	0.01	0.05	0.00	0.00	0.00
Dozer	0.31	2.94	2.32	0.00	0.14	0.13	0.18	0.36	2.32	0.00	0.02	0.01
Loader	0.05	0.39	0.48	0.00	0.02	0.02	0.05	0.10	0.48	0.00	0.01	0.00
657 Scraper	0.91	8.57	7.22	0.02	0.35	0.33	0.91	8.57	7.22	0.02	0.35	0.33
Total	**2.08**	**17.16**	**16.33**	**0.05**	**0.72**	**0.66**	**1.94**	**14.07**	**16.33**	**0.05**	**0.58**	**0.52**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Excavator	147.62	56.10
Generators	0.82	0.31
Dump Trucks	1,841.63	699.82
Water Trucks	14.59	5.54
Dozer	373.53	141.94
Loader	112.85	42.88
657 Scraper	1,965.55	746.91
Total	**4,456.60**	**1,693.51**

Construction Emissions - Block Swap Yard: Mass Grading

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	94	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	51	10	450	0.38
Generators	4	2	20	0.74
Grader	3	10	250	0.41
Dump Trucks	172	10	376	0.38
Water Trucks	20	10	376	0.38
Rollers	3	10	325	0.38
Dozer	142	10	419	0.40
Loader	66	10	360	0.36
657 Scraper	163	10	1051	0.48

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	18.64	140.99	242.02	0.65	5.60	5.15	18.64	57.68	242.02	0.65	3.85	1.92
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	1.45	13.60	10.45	0.02	0.59	0.55	1.02	2.03	10.45	0.02	0.14	0.07
Dump Trucks	75.70	490.45	570.98	1.88	18.71	17.21	75.70	490.45	570.98	1.88	18.71	17.21
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	1.28	12.72	20.08	0.03	0.61	0.56	1.23	2.45	20.08	0.03	0.16	0.08
Dozer	137.99	1,291.57	1,018.88	1.67	62.95	57.92	78.70	157.40	1,018.88	1.67	10.49	5.25
Loader	28.24	217.42	265.61	0.64	9.65	8.88	28.24	56.57	265.61	0.64	3.77	1.89
657 Scraper	290.08	2,737.65	2,307.15	6.41	113.00	103.96	290.08	2,737.65	2,307.15	6.41	113.00	103.96
Total	**562.19**	**4,961.60**	**4,501.93**	**11.52**	**213.30**	**196.23**	**502.42**	**3,523.21**	**4,501.93**	**11.52**	**151.38**	**131.00**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Equipment	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_x	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.88	6.63	11.37	0.03	0.26	0.24	0.88	2.71	11.37	0.03	0.18	0.09
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.07	0.64	0.49	0.00	0.03	0.03	0.05	0.10	0.49	0.00	0.01	0.00
Dump Trucks	3.56	23.05	26.84	0.09	0.88	0.81	3.56	23.05	26.84	0.09	0.88	0.81
Water Trucks	0.41	2.68	3.12	0.01	0.10	0.09	0.41	0.89	3.12	0.01	0.06	0.03
Rollers	0.06	0.60	0.94	0.00	0.03	0.03	0.06	0.12	0.94	0.00	0.01	0.00
Dozer	6.49	60.70	47.89	0.08	2.96	2.72	3.70	7.40	47.89	0.08	0.49	0.25
Loader	1.33	10.22	12.48	0.03	0.45	0.42	1.33	2.66	12.48	0.03	0.18	0.09
657 Scraper	13.63	128.67	108.44	0.30	5.31	4.89	13.63	128.67	108.44	0.30	5.31	4.89
Total	**26.42**	**233.20**	**211.59**	**0.54**	**10.02**	**9.22**	**23.61**	**165.59**	**211.59**	**0.54**	**7.11**	**6.16**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Excavator	2,973.49	1,129.93
Generators	2.27	0.86
Grader	114.75	43.61
Dump Trucks	8,670.79	3,294.90
Water Trucks	1,008.23	383.13
Rollers	149.76	56.91
Dozer	7,718.10	2,932.88
Loader	2,941.82	1,117.89
657 Scraper	29,525.71	11,219.77
Total	**53,104.92**	**20,179.87**

Construction Emissions - Block Swap Yard: Drainage and Underground

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	199	39	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Crane	1	1	367	0.29
Excavator	3	10	236	0.38
Generators	4	2	20	0.74
Dump Trucks	7	10	376	0.38
Grapple/Pump Truck	1	1	376	0.38
Water Trucks	2	10	376	0.38
Loader	3	10	265	0.36

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.04	0.42	0.34	0.00	0.02	0.02	0.04	0.07	0.34	0.00	0.00	0.00
Excavator	0.57	4.35	7.47	0.02	0.17	0.16	0.57	1.78	7.47	0.02	0.12	0.06
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	3.08	19.96	23.24	0.08	0.76	0.70	3.08	19.96	23.24	0.08	0.76	0.70
Grapple/Pump Truck	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.09	0.33	0.00	0.01	0.00
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Loader	0.95	7.27	8.89	0.02	0.32	0.30	0.95	1.89	8.89	0.02	0.13	0.06
Total	**5.59**	**38.17**	**47.28**	**0.14**	**1.51**	**1.39**	**5.58**	**25.77**	**47.28**	**0.14**	**1.15**	**0.89**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.04	0.42	0.34	0.00	0.02	0.02	0.04	0.07	0.34	0.00	0.00	0.00
Excavator	0.57	4.35	7.47	0.02	0.17	0.16	0.57	1.78	7.47	0.02	0.12	0.06
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	3.08	19.96	23.24	0.08	0.76	0.70	3.08	19.96	23.24	0.08	0.76	0.70
Grapple/Pump Truck	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.09	0.33	0.00	0.01	0.00
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Loader	0.95	7.27	8.89	0.02	0.32	0.30	0.95	1.89	8.89	0.02	0.13	0.06
Total	**5.59**	**38.17**	**47.28**	**0.14**	**1.51**	**1.39**	**5.58**	**25.77**	**47.28**	**0.14**	**1.15**	**0.89**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Excavator	0.06	0.43	0.74	0.00	0.02	0.02	0.06	0.18	0.74	0.00	0.01	0.01
Generators	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Dump Trucks	0.31	1.99	2.31	0.01	0.08	0.07	0.31	1.99	2.31	0.01	0.08	0.07
Grapple/Pump Truck	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Water Trucks	0.09	0.57	0.66	0.00	0.02	0.02	0.09	0.19	0.66	0.00	0.01	0.01
Loader	0.09	0.72	0.88	0.00	0.03	0.03	0.09	0.19	0.88	0.00	0.01	0.01
Total	**0.56**	**3.80**	**4.70**	**0.01**	**0.15**	**0.14**	**0.56**	**2.56**	**4.70**	**0.01**	**0.11**	**0.09**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Excavator	0.01	0.08	0.15	0.00	0.00	0.00	0.01	0.03	0.15	0.00	0.00	0.00
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00

Dump Trucks		0.06	0.39	0.45	0.00	0.01	0.01	0.06	0.39	0.45	0.00	0.01	0.01
Grapple/Pump Truck		0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Water Trucks		0.02	0.11	0.13	0.00	0.00	0.00	0.02	0.04	0.13	0.00	0.00	0.00
Loader		0.02	0.14	0.17	0.00	0.01	0.01	0.02	0.04	0.17	0.00	0.00	0.00
	Total	**0.11**	**0.74**	**0.92**	**0.00**	**0.03**	**0.03**	**0.11**	**0.50**	**0.92**	**0.00**	**0.02**	**0.02**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	7.73	2.94
Excavator	194.20	73.79
Generators	4.80	1.82
Dump Trucks	747.06	283.88
Grapple/Pump Truck	10.67	4.06
Water Trucks	213.44	81.11
Loader	208.38	79.19
Total	**1,386.29**	**526.79**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	1.52	0.58
Excavator	38.06	14.46
Generators	0.94	0.36
Dump Trucks	146.41	55.64
Grapple/Pump Truck	2.09	0.79
Water Trucks	41.83	15.90
Loader	40.84	15.52
Total	**271.68**	**103.24**

Construction Emissions - Block Swap Yard: Bridges and Box Culverts

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	199	39	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Auger Boring Machine	1	9	83	0.50
Crane	3	10	367	0.29
Excavator	6	10	236	0.38
Generators	4	2	20	0.74
Grader	1	9	250	0.41
Light Carts	8	8	20	0.74
Dump Trucks	8	10	376	0.38
Grapple/Pump Truck	1	8	376	0.38
Water Trucks	2	10	376	0.38
Rollers	1	9	150	0.38
Dozer	1	9	190	0.40
Loader	5	10	265	0.36
Skid Steer	2	10	90	0.37

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.07	0.58	1.01	0.00	0.02	0.02	0.07	0.25	1.01	0.00	0.02	0.01
Crane	1.31	12.68	10.34	0.02	0.59	0.55	1.06	2.11	10.34	0.02	0.14	0.07
Excavator	1.15	8.70	14.93	0.04	0.35	0.32	1.15	3.56	14.93	0.04	0.24	0.12
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.43	4.08	3.14	0.01	0.18	0.16	0.31	0.61	3.14	0.01	0.04	0.02
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	3.52	22.81	26.56	0.09	0.87	0.80	3.52	22.81	26.56	0.09	0.87	0.80
Grapple/Pump Truck	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Rollers	0.18	1.76	2.78	0.00	0.08	0.08	0.17	0.34	2.78	0.00	0.02	0.01
Dozer	0.40	3.71	2.93	0.00	0.18	0.17	0.23	0.45	2.93	0.00	0.03	0.02
Loader	1.58	12.12	14.81	0.04	0.54	0.50	1.58	3.15	14.81	0.04	0.21	0.11
Skid Steer	0.19	2.55	4.44	0.01	0.08	0.07	0.19	0.44	3.82	0.01	0.03	0.01
Total	**10.20**	**78.12**	**93.03**	**0.25**	**3.23**	**2.97**	**9.64**	**37.08**	**92.41**	**0.25**	**1.80**	**1.28**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.07	0.58	1.01	0.00	0.02	0.02	0.07	0.25	1.01	0.00	0.02	0.01
Crane	1.31	12.68	10.34	0.02	0.59	0.55	1.06	2.11	10.34	0.02	0.14	0.07
Excavator	1.15	8.70	14.93	0.04	0.35	0.32	1.15	3.56	14.93	0.04	0.24	0.12
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.43	4.08	3.14	0.01	0.18	0.16	0.31	0.61	3.14	0.01	0.04	0.02
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	3.52	22.81	26.56	0.09	0.87	0.80	3.52	22.81	26.56	0.09	0.87	0.80
Grapple/Pump Truck	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Rollers	0.18	1.76	2.78	0.00	0.08	0.08	0.17	0.34	2.78	0.00	0.02	0.01
Dozer	0.40	3.71	2.93	0.00	0.18	0.17	0.23	0.45	2.93	0.00	0.03	0.02
Loader	1.58	12.12	14.81	0.04	0.54	0.50	1.58	3.15	14.81	0.04	0.21	0.11
Skid Steer	0.19	2.55	4.44	0.01	0.08	0.07	0.19	0.44	3.82	0.01	0.03	0.01
Total	**10.20**	**78.12**	**93.03**	**0.25**	**3.23**	**2.97**	**9.64**	**37.08**	**92.41**	**0.25**	**1.80**	**1.28**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.01	0.06	0.10	0.00	0.00	0.00	0.01	0.02	0.10	0.00	0.00	0.00
Crane	0.13	1.26	1.03	0.00	0.06	0.05	0.11	0.21	1.03	0.00	0.01	0.01
Excavator	0.11	0.87	1.49	0.00	0.03	0.03	0.11	0.35	1.49	0.00	0.02	0.01
Generators	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Grader	0.04	0.41	0.31	0.00	0.02	0.02	0.03	0.06	0.31	0.00	0.00	0.00
Light Carts	0.01	0.10	0.24	0.00	0.00	0.00	0.01	0.06	0.24	0.00	0.00	0.00

Dump Trucks		0.35	2.27	2.64	0.01	0.09	0.08	0.35	2.27	2.64	0.01	0.09	0.08
Grapple/Pump Truck		0.04	0.23	0.26	0.00	0.01	0.01	0.04	0.08	0.26	0.00	0.01	0.00
Water Trucks		0.09	0.57	0.66	0.00	0.02	0.02	0.09	0.19	0.66	0.00	0.01	0.01
Rollers		0.02	0.18	0.28	0.00	0.01	0.01	0.02	0.03	0.28	0.00	0.00	0.00
Dozer		0.04	0.37	0.29	0.00	0.02	0.02	0.02	0.05	0.29	0.00	0.00	0.00
Loader		0.16	1.21	1.47	0.00	0.05	0.05	0.16	0.31	1.47	0.00	0.02	0.01
Skid Steer		0.02	0.25	0.44	0.00	0.01	0.01	0.02	0.04	0.38	0.00	0.00	0.00
	Total	**1.02**	**7.77**	**9.26**	**0.02**	**0.32**	**0.30**	**0.96**	**3.69**	**9.19**	**0.02**	**0.18**	**0.13**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Auger Boring Machine	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Crane	0.03	0.25	0.20	0.00	0.01	0.01	0.02	0.04	0.20	0.00	0.00	0.00
Excavator	0.02	0.17	0.29	0.00	0.01	0.01	0.02	0.07	0.29	0.00	0.00	0.00
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Grader	0.01	0.08	0.06	0.00	0.00	0.00	0.01	0.01	0.06	0.00	0.00	0.00
Light Carts	0.00	0.02	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Dump Trucks	0.07	0.44	0.52	0.00	0.02	0.02	0.07	0.44	0.52	0.00	0.02	0.02
Grapple/Pump Truck	0.01	0.04	0.05	0.00	0.00	0.00	0.01	0.01	0.05	0.00	0.00	0.00
Water Trucks	0.02	0.11	0.13	0.00	0.00	0.00	0.02	0.04	0.13	0.00	0.00	0.00
Rollers	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Dozer	0.01	0.07	0.06	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
Loader	0.03	0.24	0.29	0.00	0.01	0.01	0.03	0.06	0.29	0.00	0.00	0.00
Skid Steer	0.00	0.05	0.09	0.00	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.00
Total	**0.20**	**1.52**	**1.81**	**0.00**	**0.06**	**0.06**	**0.19**	**0.72**	**1.80**	**0.00**	**0.04**	**0.02**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	29.64	11.26
Crane	231.98	88.15
Excavator	388.39	147.59
Generators	4.80	1.82
Grader	72.88	27.69
Light Carts	33.07	12.57
Dump Trucks	853.78	324.44
Grapple/Pump Truck	85.38	32.44
Water Trucks	213.44	81.11
Rollers	43.90	16.68
Dozer	46.96	17.84
Loader	347.30	131.98
Skid Steer	65.35	24.83
Total	**2,416.87**	**918.41**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	5.81	2.21
Crane	45.46	17.28
Excavator	76.12	28.92
Generators	0.94	0.36
Grader	14.28	5.43
Light Carts	6.48	2.46
Dump Trucks	167.32	63.58
Grapple/Pump Truck	16.73	6.36
Water Trucks	41.83	15.90
Rollers	8.60	3.27
Dozer	9.20	3.50
Loader	68.06	25.86
Skid Steer	12.81	4.87
Total	**473.66**	**179.99**

Construction Emissions - Block Swap Yard: Fine Grading/ Subballast Placement

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	127	183	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Grader	20	10	250	0.41
Light Carts	4	2	20	0.74
Water Trucks	20	10	376	0.38
Rollers	20	10	150	0.38
Dozer	11	10	190	0.40
Loader	4	10	150	0.36
Trenchers	4	10	115	0.50

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	9.65	90.68	69.69	0.17	3.97	3.65	6.78	13.56	69.69	0.17	0.90	0.45
Light Carts	0.02	0.12	0.30	0.00	0.00	0.00	0.02	0.08	0.30	0.00	0.00	0.00
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	3.93	39.14	61.77	0.10	1.87	1.72	3.77	7.54	61.77	0.10	0.50	0.25
Dozer	4.85	45.37	35.79	0.06	2.21	2.03	2.76	5.53	35.79	0.06	0.37	0.18
Loader	0.71	5.49	6.71	0.02	0.24	0.22	0.71	1.43	6.71	0.02	0.10	0.05
Trenchers	1.26	11.99	10.12	0.02	0.69	0.64	0.76	1.52	10.12	0.02	0.10	0.05
Total	**29.22**	**249.82**	**250.77**	**0.58**	**11.16**	**10.27**	**23.61**	**48.55**	**250.77**	**0.58**	**3.23**	**1.62**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	9.65	90.68	69.69	0.17	3.97	3.65	6.78	13.56	69.69	0.17	0.90	0.45
Light Carts	0.02	0.12	0.30	0.00	0.00	0.00	0.02	0.08	0.30	0.00	0.00	0.00
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	3.93	39.14	61.77	0.10	1.87	1.72	3.77	7.54	61.77	0.10	0.50	0.25
Dozer	4.85	45.37	35.79	0.06	2.21	2.03	2.76	5.53	35.79	0.06	0.37	0.18
Loader	0.71	5.49	6.71	0.02	0.24	0.22	0.71	1.43	6.71	0.02	0.10	0.05
Trenchers	1.26	11.99	10.12	0.02	0.69	0.64	0.76	1.52	10.12	0.02	0.10	0.05
Total	**29.22**	**249.82**	**250.77**	**0.58**	**11.16**	**10.27**	**23.61**	**48.55**	**250.77**	**0.58**	**3.23**	**1.62**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	0.61	5.76	4.43	0.01	0.25	0.23	0.43	0.86	4.43	0.01	0.06	0.03
Light Carts	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Water Trucks	0.56	3.62	4.22	0.01	0.14	0.13	0.56	1.20	4.22	0.01	0.08	0.04
Rollers	0.25	2.49	3.92	0.01	0.12	0.11	0.24	0.48	3.92	0.01	0.03	0.02
Dozer	0.31	2.88	2.27	0.00	0.14	0.13	0.18	0.35	2.27	0.00	0.02	0.01
Loader	0.05	0.35	0.43	0.00	0.02	0.01	0.05	0.09	0.43	0.00	0.01	0.00
Trenchers	0.08	0.76	0.64	0.00	0.04	0.04	0.05	0.10	0.64	0.00	0.01	0.00
Total	**1.86**	**15.86**	**15.92**	**0.04**	**0.71**	**0.65**	**1.50**	**3.08**	**15.92**	**0.04**	**0.21**	**0.10**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Grader	0.88	8.30	6.38	0.02	0.36	0.33	0.62	1.24	6.38	0.02	0.08	0.04
Light Carts	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Water Trucks	0.81	5.22	6.07	0.02	0.20	0.18	0.81	1.73	6.07	0.02	0.12	0.06
Rollers	0.36	3.58	5.65	0.01	0.17	0.16	0.34	0.69	5.65	0.01	0.05	0.02
Dozer	0.44	4.15	3.27	0.01	0.20	0.19	0.25	0.51	3.27	0.01	0.03	0.02

Loader		0.07	0.50	0.61	0.00	0.02	0.02	0.07	0.13	0.61	0.00	0.01	0.00
Trenchers		0.12	1.10	0.93	0.00	0.06	0.06	0.07	0.14	0.93	0.00	0.01	0.00
	Total	**2.67**	**22.86**	**22.95**	**0.05**	**1.02**	**0.94**	**2.16**	**4.44**	**22.95**	**0.05**	**0.30**	**0.15**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Grader	1,033.60	392.77
Light Carts	2.64	1.00
Water Trucks	1,362.18	517.63
Rollers	622.58	236.58
Dozer	366.29	139.19
Loader	100.37	38.14
Trenchers	119.38	45.37
Total	**3,607.06**	**1,370.68**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Grader	1,489.37	565.96
Light Carts	3.80	1.44
Water Trucks	1,962.83	745.88
Rollers	897.10	340.90
Dozer	527.81	200.57
Loader	144.63	54.96
Trenchers	172.03	65.37
Total	**5,197.57**	**1,975.08**

Construction Emissions - Block Swap Yard: Track and Signal Work

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	0	200	134

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	5	10	236	0.38
Generators	4	2	20	0.74
Light Carts	8	8	20	0.74
Dump Trucks	1	1	376	0.38
Grapple/Pump Truck	2	10	376	0.38
Water Trucks	1	10	376	0.38
Other	1	9	82	0.42
Track Laying Machine	2	10	525	0.42
Paving Equipment	1	9	89	0.36
Dozer	2	10	190	0.40
Loader	7	10	265	0.36
Skid Steer	1	2	90	0.37

Daily Emissions

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.96	7.25	12.44	0.03	0.29	0.26	0.96	2.97	12.44	0.03	0.20	0.10
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.29	0.33	0.00	0.01	0.01
Grapple/Pump Truck	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Other	0.10	0.98	0.97	0.00	0.05	0.04	0.10	0.21	0.97	0.00	0.01	0.01
Track Laying Machine	29.17	25.28	25.28	0.03	14.58	13.42	29.17	25.28	25.28	0.03	14.58	13.42
Paving Equipment	0.09	0.82	1.20	0.00	0.04	0.03	0.09	0.19	1.20	0.00	0.01	0.01
Dozer	0.88	8.25	6.51	0.01	0.40	0.37	0.50	1.01	6.51	0.01	0.07	0.03
Loader	2.21	16.97	20.74	0.05	0.75	0.69	2.21	4.42	20.74	0.05	0.29	0.15
Skid Steer	0.02	0.26	0.44	0.00	0.01	0.01	0.02	0.04	0.38	0.00	0.00	0.00
Total	**34.94**	**69.77**	**80.67**	**0.17**	**16.49**	**15.17**	**34.56**	**37.93**	**80.61**	**0.17**	**15.40**	**13.84**

Construction Year 2028

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.96	7.25	12.44	0.03	0.29	0.26	0.96	2.97	12.44	0.03	0.20	0.10
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.29	0.33	0.00	0.01	0.01
Grapple/Pump Truck	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Other	0.10	0.98	0.97	0.00	0.05	0.04	0.10	0.21	0.97	0.00	0.01	0.01
Track Laying Machine	29.17	25.28	25.28	0.03	14.58	13.42	29.17	25.28	25.28	0.03	14.58	13.42
Paving Equipment	0.09	0.82	1.20	0.00	0.04	0.03	0.09	0.19	1.20	0.00	0.01	0.01
Dozer	0.88	8.25	6.51	0.01	0.40	0.37	0.50	1.01	6.51	0.01	0.07	0.03
Loader	2.21	16.97	20.74	0.05	0.75	0.69	2.21	4.42	20.74	0.05	0.29	0.15
Skid Steer	0.02	0.26	0.44	0.00	0.01	0.01	0.02	0.04	0.38	0.00	0.00	0.00
Total	**34.94**	**69.77**	**80.67**	**0.17**	**16.49**	**15.17**	**34.56**	**37.93**	**80.61**	**0.17**	**15.40**	**13.84**

Annual Emissions

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.10	0.72	1.24	0.00	0.03	0.03	0.10	0.30	1.24	0.00	0.02	0.01
Generators	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Light Carts	0.01	0.10	0.24	0.00	0.00	0.00	0.01	0.06	0.24	0.00	0.00	0.00
Dump Trucks	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.00
Grapple/Pump Truck	0.09	0.57	0.66	0.00	0.02	0.02	0.09	0.19	0.66	0.00	0.01	0.01
Water Trucks	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.09	0.33	0.00	0.01	0.00
Other	0.01	0.10	0.10	0.00	0.00	0.00	0.01	0.02	0.10	0.00	0.00	0.00
Track Laying Machine	2.92	2.53	2.53	0.00	1.46	1.34	2.92	2.53	2.53	0.00	1.46	1.34
Paving Equipment	0.01	0.08	0.12	0.00	0.00	0.00	0.01	0.02	0.12	0.00	0.00	0.00

Dozer		0.09	0.82	0.65	0.00	0.04	0.04	0.05	0.10	0.65	0.00	0.01	0.00
Loader		0.22	1.70	2.07	0.00	0.08	0.07	0.22	0.44	2.07	0.00	0.03	0.01
Skid Steer		0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
	Total	**3.49**	**6.98**	**8.07**	**0.02**	**1.65**	**1.52**	**3.46**	**3.79**	**8.06**	**0.02**	**1.54**	**1.38**

Construction Year 2028

		Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment		**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Excavator		0.06	0.49	0.83	0.00	0.02	0.02	0.06	0.20	0.83	0.00	0.01	0.01
Generators		0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Light Carts		0.01	0.06	0.16	0.00	0.00	0.00	0.01	0.04	0.16	0.00	0.00	0.00
Dump Trucks		0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00
Grapple/Pump Truck		0.06	0.38	0.44	0.00	0.01	0.01	0.06	0.13	0.44	0.00	0.01	0.00
Water Trucks		0.03	0.19	0.22	0.00	0.01	0.01	0.03	0.06	0.22	0.00	0.00	0.00
Other		0.01	0.07	0.06	0.00	0.00	0.00	0.01	0.01	0.06	0.00	0.00	0.00
Track Laying Machine		1.95	1.69	1.69	0.00	0.98	0.90	1.95	1.69	1.69	0.00	0.98	0.90
Paving Equipment		0.01	0.05	0.08	0.00	0.00	0.00	0.01	0.01	0.08	0.00	0.00	0.00
Dozer		0.06	0.55	0.44	0.00	0.03	0.02	0.03	0.07	0.44	0.00	0.00	0.00
Loader		0.15	1.14	1.39	0.00	0.05	0.05	0.15	0.30	1.39	0.00	0.02	0.01
Skid Steer		0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
	Total	**2.34**	**4.67**	**5.40**	**0.01**	**1.10**	**1.02**	**2.32**	**2.54**	**5.40**	**0.01**	**1.03**	**0.93**

GHG Emissions

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Excavator	325.29	123.61
Generators	4.83	1.83
Light Carts	33.24	12.63
Dump Trucks	10.73	4.08
Grapple/Pump Truck	214.52	81.52
Water Trucks	107.26	40.76
Other	23.48	8.92
Track Laying Machine	334.11	126.96
Paving Equipment	23.97	9.11
Dozer	104.88	39.85
Loader	488.67	185.69
Skid Steer	6.57	2.50
Total	**1,677.53**	**637.46**

Construction Year 2028

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Excavator	217.94	82.82
Generators	3.23	1.23
Light Carts	22.27	8.46
Dump Trucks	7.19	2.73
Grapple/Pump Truck	143.73	54.62
Water Trucks	71.86	27.31
Other	15.73	5.98
Track Laying Machine	223.85	85.06
Paving Equipment	16.06	6.10
Dozer	70.27	26.70
Loader	327.41	124.42
Skid Steer	4.40	1.67
Total	**1,123.95**	**427.10**

Daily Construction Emissions Summary - North Main Lines

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilizatio	3.76	30.20	29.65	0.08	1.25	1.15	3.56	23.78	29.65	0.08	0.70	0.61
Total	**3.76**	**30.20**	**29.65**	**0.08**	**1.25**	**1.15**	**3.56**	**23.78**	**29.65**	**0.08**	**0.70**	**0.61**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mass Grading	25.57	208.65	202.63	0.55	8.78	8.08	23.46	119.18	202.63	0.55	3.96	3.06
Total	**25.57**	**208.65**	**202.63**	**0.55**	**8.78**	**8.08**	**23.46**	**119.18**	**202.63**	**0.55**	**3.96**	**3.06**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Bridges and Box Culverts	10.66	81.13	96.89	0.26	3.35	3.08	10.14	40.00	96.27	0.26	1.34	0.96
Fine Grading/ Subballast Placement	11.74	84.92	92.99	0.27	3.46	3.18	10.91	23.15	92.99	0.27	1.08	0.54
Track and Signal Work	19.10	44.86	52.98	0.13	8.59	7.90	19.04	26.59	52.92	0.13	5.63	5.03
Total	**41.50**	**210.91**	**242.85**	**0.66**	**15.40**	**14.17**	**40.09**	**89.74**	**242.17**	**0.66**	**8.05**	**6.53**

Construction Year 2028

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Track and Signal Work	19.10	44.86	52.98	0.13	8.59	7.90	19.04	26.59	52.92	0.13	5.63	5.03
Total	**19.10**	**44.86**	**52.98**	**0.13**	**8.59**	**7.90**	**19.04**	**26.59**	**52.92**	**0.13**	**5.63**	**5.03**

Total Emissions

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	3.76	30.20	29.65	0.08	1.25	1.15	3.56	23.78	29.65	0.08	0.70	0.61
2026	25.57	208.65	202.63	0.55	8.78	8.08	23.46	119.18	202.63	0.55	3.96	3.06
2027	41.50	210.91	242.85	0.66	15.40	14.17	40.09	89.74	242.17	0.66	8.05	6.53
2028	19.10	44.86	52.98	0.13	8.59	7.90	19.04	26.59	52.92	0.13	5.63	5.03
Maximum	**41.50**	**210.91**	**242.85**	**0.66**	**15.40**	**14.17**	**40.09**	**119.18**	**242.17**	**0.66**	**8.05**	**6.53**

Annual Construction Emissions Summary - North Main Lines

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Demolition, Site Preparation, Mobilization	0.06	0.51	0.50	0.00	0.02	0.02	0.06	0.40	0.50	0.00	0.01	0.01
Total	**0.06**	**0.51**	**0.50**	**0.00**	**0.02**	**0.02**	**0.06**	**0.40**	**0.50**	**0.00**	**0.01**	**0.01**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Mass Grading	1.20	9.81	9.52	0.03	0.41	0.38	1.10	5.60	9.52	0.03	0.19	0.14
Total	**1.20**	**9.81**	**9.52**	**0.03**	**0.41**	**0.38**	**1.10**	**5.60**	**9.52**	**0.03**	**0.19**	**0.14**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Bridges and Box Culverts	0.50	3.81	4.55	0.01	0.16	0.14	0.48	1.88	4.52	0.01	0.06	0.05
Fine Grading/ Subballast Placement	0.27	1.95	2.14	0.01	0.08	0.07	0.25	0.53	2.14	0.01	0.02	0.01
Track and Signal Work	0.19	0.45	0.53	0.00	0.09	0.08	0.19	0.27	0.53	0.00	0.06	0.05
Total	**0.96**	**6.21**	**7.22**	**0.02**	**0.32**	**0.30**	**0.92**	**2.68**	**7.19**	**0.02**	**0.14**	**0.11**

Construction Year 2028

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Track and Signal Work	1.28	3.01	3.55	0.01	0.58	0.53	1.28	1.78	3.55	0.01	0.38	0.34
Total	**1.28**	**3.01**	**3.55**	**0.01**	**0.58**	**0.53**	**1.28**	**1.78**	**3.55**	**0.01**	**0.38**	**0.34**

Total Emissions

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	0.06	0.51	0.50	0.00	0.02	0.02	0.06	0.40	0.50	0.00	0.01	0.01
2026	1.20	9.81	9.52	0.03	0.41	0.38	1.10	5.60	9.52	0.03	0.19	0.14
2027	0.96	6.21	7.22	0.02	0.32	0.30	0.92	2.68	7.19	0.02	0.14	0.11
2028	1.28	3.01	3.55	0.01	0.58	0.53	1.28	1.78	3.55	0.01	0.38	0.34
Maximum	**1.28**	**9.81**	**9.52**	**0.03**	**0.58**	**0.53**	**1.28**	**5.60**	**9.52**	**0.03**	**0.38**	**0.34**

Annual Construction GHG Emissions Summary - North Main Lines

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Demolition, Site Preparation, Mobilization	139.80	53.12
Total	**139.80**	**53.12**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Mass Grading	2,547.93	968.21
Total	**2,547.93**	**968.21**

Construction Year 2027

	GHG Emissions (metric tons CO_2e per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Drainage and Underground	1,194.55	453.93
Bridges and Box Culverts	608.60	231.27
Fine Grading/ Subballast Placement	126.79	48.18
Total	**1,929.94**	**733.38**

Construction Year 2028

	GHG Emissions (metric tons CO_2e per year)	
Construction Phase	**Unmitigated**	**Mitigated**
Fine Grading/ Subballast Placement	849.46	322.80
Total	**849.46**	**322.80**

Total Emissions

	GHG Emissions ($MTCO_2e$ per year)	
Construction Year	**Unmitigated**	**Mitigated**
2025	139.80	53.12
2026	2,547.93	968.21
2027	1,929.94	733.38
2028	849.46	322.80
Total	**5,467.12**	**2,077.51**

Construction Emissions - North Main Lines : Demolition, Site Preparation, Mobilization

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	34	0	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	1	2	450	0.38
Generators	4	2	20	0.74
Dump Trucks	3	10	376	0.38
Water Trucks	2	4	376	0.38
Dozer	1	5	419	0.40
Loader	1	2	360	0.36
657 Scraper	1	8	1051	0.48

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.07	0.55	0.95	0.00	0.02	0.02	0.07	0.23	0.95	0.00	0.02	0.01
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Dump Trucks	1.32	8.55	9.96	0.03	0.33	0.30	1.32	8.55	9.96	0.03	0.33	0.30
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Dozer	0.49	4.55	3.59	0.01	0.22	0.20	0.28	0.55	3.59	0.01	0.04	0.02
Loader	0.09	0.66	0.80	0.00	0.03	0.03	0.09	0.17	0.80	0.00	0.01	0.01
657 Scraper	1.42	13.44	11.32	0.03	0.55	0.51	1.42	13.44	11.32	0.03	0.55	0.51
Total	**3.76**	**30.20**	**29.65**	**0.08**	**1.25**	**1.15**	**3.56**	**23.78**	**29.65**	**0.08**	**1.00**	**0.87**

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Dump Trucks	0.02	0.15	0.17	0.00	0.01	0.01	0.02	0.15	0.17	0.00	0.01	0.01
Water Trucks	0.01	0.04	0.05	0.00	0.00	0.00	0.01	0.01	0.05	0.00	0.00	0.00
Dozer	0.01	0.08	0.06	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
Loader	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
657 Scraper	0.02	0.23	0.19	0.00	0.01	0.01	0.02	0.23	0.19	0.00	0.01	0.01
Total	**0.06**	**0.51**	**0.50**	**0.00**	**0.02**	**0.02**	**0.06**	**0.40**	**0.50**	**0.00**	**0.02**	**0.01**

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Excavator	4.22	1.60
Generators	0.82	0.31
Dump Trucks	54.70	20.79
Water Trucks	14.59	5.54
Dozer	9.83	3.74
Loader	3.22	1.23
657 Scraper	52.41	19.92
Total	**139.80**	**53.12**

Construction Emissions - North Main Lines : Mass Grading

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	94	0	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	2	10	450	0.38
Generators	4	2	20	0.74
Grader	1	1	250	0.41
Dump Trucks	2	10	376	0.38
Water Trucks	20	10	376	0.38
Rollers	1	1	325	0.38
Dozer	5	10	419	0.40
Loader	3	10	360	0.36
657 Scraper	5	10	1051	0.48

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.73	5.53	9.49	0.03	0.22	0.20	0.73	2.26	9.49	0.03	0.15	0.08
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.05	0.45	0.35	0.00	0.02	0.02	0.03	0.07	0.35	0.00	0.00	0.00
Dump Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	5.70	6.64	0.02	0.22	0.20
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	0.04	0.42	0.67	0.00	0.02	0.02	0.04	0.08	0.67	0.00	0.01	0.00
Dozer	4.86	45.48	35.88	0.06	2.22	2.04	2.77	5.54	35.88	0.06	0.37	0.18
Loader	1.28	9.88	12.07	0.03	0.44	0.40	1.28	2.57	12.07	0.03	0.17	0.09
657 Scraper	8.90	83.98	70.77	0.20	3.47	3.19	8.90	83.98	70.77	0.20	3.47	3.19
Total	**25.57**	**208.65**	**202.63**	**0.55**	**8.78**	**8.08**	**23.46**	**119.18**	**202.63**	**0.55**	**5.65**	**4.37**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.03	0.26	0.45	0.00	0.01	0.01	0.03	0.11	0.45	0.00	0.01	0.00
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Dump Trucks	0.04	0.27	0.31	0.00	0.01	0.01	0.04	0.27	0.31	0.00	0.01	0.01
Water Trucks	0.41	2.68	3.12	0.01	0.10	0.09	0.41	0.89	3.12	0.01	0.06	0.03
Rollers	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Dozer	0.23	2.14	1.69	0.00	0.10	0.10	0.13	0.26	1.69	0.00	0.02	0.01
Loader	0.06	0.46	0.57	0.00	0.02	0.02	0.06	0.12	0.57	0.00	0.01	0.00
657 Scraper	0.42	3.95	3.33	0.01	0.16	0.15	0.42	3.95	3.33	0.01	0.16	0.15
Total	**1.20**	**9.81**	**9.52**	**0.03**	**0.41**	**0.38**	**1.10**	**5.60**	**9.52**	**0.03**	**0.27**	**0.21**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Excavator	116.61	44.31
Generators	2.27	0.86
Grader	3.83	1.45
Dump Trucks	100.82	38.31
Water Trucks	1,008.23	383.13
Rollers	4.99	1.90
Dozer	271.76	103.27
Loader	133.72	50.81
657 Scraper	905.70	344.16
Total	**2,547.93**	**968.21**

Construction Emissions - North Main Lines : Bridges and Box Culverts

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	0	94	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Auger Boring Machine	1	8	83	0.50
Crane	3	10	367	0.29
Excavator	6	10	236	0.38
Generators	4	2	20	0.74
Grader	1	8	250	0.41
Light Carts	8	8	20	0.74
Dump Trucks	9	10	376	0.38
Grapple/Pump Truck	1	4	376	0.38
Water Trucks	2	10	376	0.38
Rollers	1	8	150	0.38
Dozer	1	8	190	0.40
Loader	6	10	265	0.36
Skid Steer	2	10	90	0.37

Daily Emissions

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.06	0.52	0.89	0.00	0.02	0.02	0.06	0.22	0.89	0.00	0.01	0.01
Crane	1.31	12.68	10.34	0.02	0.59	0.55	1.06	2.11	10.34	0.02	0.14	0.07
Excavator	1.15	8.70	14.93	0.04	0.35	0.32	1.15	3.56	14.93	0.04	0.24	0.12
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	0.39	3.63	2.79	0.01	0.16	0.15	0.27	0.54	2.79	0.01	0.04	0.02
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	3.96	25.66	29.88	0.10	0.98	0.90	3.96	25.66	29.88	0.10	0.98	0.90
Grapple/Pump Truck	0.18	1.14	1.33	0.00	0.04	0.04	0.18	0.38	1.33	0.00	0.03	0.01
Water Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	1.89	6.64	0.02	0.13	0.06
Rollers	0.16	1.57	2.47	0.00	0.07	0.07	0.15	0.30	2.47	0.00	0.02	0.01
Dozer	0.35	3.30	2.60	0.00	0.16	0.15	0.20	0.40	2.60	0.00	0.03	0.01
Loader	1.89	14.55	17.77	0.04	0.65	0.59	1.89	3.79	17.77	0.04	0.25	0.13
Skid Steer	0.19	2.55	4.44	0.01	0.08	0.07	0.19	0.44	3.82	0.01	0.03	0.01
Total	**10.66**	**81.13**	**96.89**	**0.26**	**3.35**	**3.08**	**10.14**	**40.00**	**96.27**	**0.26**	**1.92**	**1.38**

Annual Emissions

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Crane	0.06	0.60	0.49	0.00	0.03	0.03	0.05	0.10	0.49	0.00	0.01	0.00
Excavator	0.05	0.41	0.70	0.00	0.02	0.01	0.05	0.17	0.70	0.00	0.01	0.01
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.02	0.17	0.13	0.00	0.01	0.01	0.01	0.03	0.13	0.00	0.00	0.00
Light Carts	0.01	0.04	0.11	0.00	0.00	0.00	0.01	0.03	0.11	0.00	0.00	0.00
Dump Trucks	0.19	1.21	1.40	0.00	0.05	0.04	0.19	1.21	1.40	0.00	0.05	0.04
Grapple/Pump Truck	0.01	0.05	0.06	0.00	0.00	0.00	0.01	0.02	0.06	0.00	0.00	0.00
Water Trucks	0.04	0.27	0.31	0.00	0.01	0.01	0.04	0.09	0.31	0.00	0.01	0.00
Rollers	0.01	0.07	0.12	0.00	0.00	0.00	0.01	0.01	0.12	0.00	0.00	0.00
Dozer	0.02	0.16	0.12	0.00	0.01	0.01	0.01	0.02	0.12	0.00	0.00	0.00
Loader	0.09	0.68	0.84	0.00	0.03	0.03	0.09	0.18	0.84	0.00	0.01	0.01
Skid Steer	0.01	0.12	0.21	0.00	0.00	0.00	0.01	0.02	0.18	0.00	0.00	0.00
Total	**0.50**	**3.81**	**4.55**	**0.01**	**0.16**	**0.14**	**0.48**	**1.88**	**4.52**	**0.01**	**0.09**	**0.06**

GHG Emissions

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Auger Boring Machine	12.44	4.73
Crane	109.58	41.64
Excavator	183.46	69.72
Generators	2.27	0.86
Grader	30.60	11.63
Light Carts	15.62	5.94
Dump Trucks	453.70	172.41
Grapple/Pump Truck	20.16	7.66
Water Trucks	100.82	38.31
Rollers	18.43	7.00
Dozer	19.72	7.49
Loader	196.86	74.81
Skid Steer	30.87	11.73
Total	**1,194.55**	**453.93**

Construction Emissions - North Main Lines : Fine Grading/ Subballast Placement

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	0	46	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Generators	4	2	20	0.74
Grader	3	10	250	0.41
Water Trucks	20	10	376	0.38
Rollers	3	10	150	0.38
Dozer	2	10	190	0.40

Daily Emissions

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	1.45	13.60	10.45	0.02	0.59	0.55	1.02	2.03	10.45	0.02	0.14	0.07
Water Trucks	8.80	57.03	66.39	0.22	2.18	2.00	8.80	18.90	66.39	0.22	1.26	0.63
Rollers	0.59	5.87	9.27	0.02	0.28	0.26	0.57	1.13	9.27	0.02	0.08	0.04
Dozer	0.88	8.25	6.51	0.01	0.40	0.37	0.50	1.01	6.51	0.01	0.07	0.03
Total	**11.74**	**84.92**	**92.99**	**0.27**	**3.46**	**3.18**	**10.91**	**23.15**	**92.99**	**0.27**	**1.54**	**0.77**

Annual Emissions

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Grader	0.03	0.31	0.24	0.00	0.01	0.01	0.02	0.05	0.24	0.00	0.00	0.00
Water Trucks	0.20	1.31	1.53	0.01	0.05	0.05	0.20	0.43	1.53	0.01	0.03	0.01
Rollers	0.01	0.14	0.21	0.00	0.01	0.01	0.01	0.03	0.21	0.00	0.00	0.00
Dozer	0.02	0.19	0.15	0.00	0.01	0.01	0.01	0.02	0.15	0.00	0.00	0.00
Total	**0.27**	**1.95**	**2.14**	**0.01**	**0.08**	**0.07**	**0.25**	**0.53**	**2.14**	**0.01**	**0.04**	**0.02**

GHG Emissions

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Generators	1.11	0.42
Grader	56.16	21.34
Water Trucks	493.39	187.49
Rollers	33.83	12.85
Dozer	24.12	9.17
Total	**608.60**	**231.27**

Construction Emissions - North Main Lines : Track and Signal Work

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	0	20	134

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Crane	1	4	367	0.29
Excavator	2	10	236	0.38
Generators	4	2	20	0.74
Light Carts	8	8	20	0.74
Dump Trucks	2	10	376	0.38
Grapple/Pump Truck	3	10	376	0.38
Water Trucks	1	10	376	0.38
Other	1	10	82	0.42
Track Laying Machine	1	10	525	0.42
Paving Equipment	1	4	89	0.36
Dozer	1	1	190	0.40
Loader	3	10	265	0.36
Skid Steer	1	2	90	0.37

Daily Emissions

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.17	1.69	1.38	0.00	0.08	0.07	0.14	0.28	1.38	0.00	0.02	0.01
Excavator	0.38	2.90	4.98	0.01	0.12	0.11	0.38	1.19	4.98	0.01	0.08	0.04
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	5.70	6.64	0.02	0.22	0.20
Grapple/Pump Truck	1.32	8.55	9.96	0.03	0.33	0.30	1.32	2.83	9.96	0.03	0.19	0.09
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Other	0.12	1.09	1.07	0.00	0.05	0.05	0.11	0.23	1.07	0.00	0.02	0.01
Track Laying Machine	14.58	12.64	12.64	0.01	7.29	6.71	14.58	12.64	12.64	0.01	7.29	6.71
Paving Equipment	0.04	0.36	0.53	0.00	0.02	0.01	0.04	0.08	0.53	0.00	0.01	0.00
Dozer	0.04	0.41	0.33	0.00	0.02	0.02	0.03	0.05	0.33	0.00	0.00	0.00
Loader	0.95	7.27	8.89	0.02	0.32	0.30	0.95	1.89	8.89	0.02	0.13	0.06
Skid Steer	0.02	0.26	0.44	0.00	0.01	0.01	0.02	0.04	0.38	0.00	0.00	0.00
Total	**19.10**	**44.86**	**52.98**	**0.13**	**8.59**	**7.90**	**19.04**	**26.59**	**52.92**	**0.13**	**8.04**	**7.18**

Construction Year 2028

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.17	1.69	1.38	0.00	0.08	0.07	0.14	0.28	1.38	0.00	0.02	0.01
Excavator	0.38	2.90	4.98	0.01	0.12	0.11	0.38	1.19	4.98	0.01	0.08	0.04
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.88	5.70	6.64	0.02	0.22	0.20	0.88	5.70	6.64	0.02	0.22	0.20
Grapple/Pump Truck	1.32	8.55	9.96	0.03	0.33	0.30	1.32	2.83	9.96	0.03	0.19	0.09
Water Trucks	0.44	2.85	3.32	0.01	0.11	0.10	0.44	0.94	3.32	0.01	0.06	0.03
Other	0.12	1.09	1.07	0.00	0.05	0.05	0.11	0.23	1.07	0.00	0.02	0.01
Track Laying Machine	14.58	12.64	12.64	0.01	7.29	6.71	14.58	12.64	12.64	0.01	7.29	6.71
Paving Equipment	0.04	0.36	0.53	0.00	0.02	0.01	0.04	0.08	0.53	0.00	0.01	0.00
Dozer	0.04	0.41	0.33	0.00	0.02	0.02	0.03	0.05	0.33	0.00	0.00	0.00
Loader	0.95	7.27	8.89	0.02	0.32	0.30	0.95	1.89	8.89	0.02	0.13	0.06
Skid Steer	0.02	0.26	0.44	0.00	0.01	0.01	0.02	0.04	0.38	0.00	0.00	0.00
Total	**19.10**	**44.86**	**52.98**	**0.13**	**8.59**	**7.90**	**19.04**	**26.59**	**52.92**	**0.13**	**8.04**	**7.18**

Annual Emissions

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Excavator	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00

Generators		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Carts		0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Dump Trucks		0.01	0.06	0.07	0.00	0.00	0.00	0.01	0.06	0.07	0.00	0.00	0.00
Grapple/Pump Truck		0.01	0.09	0.10	0.00	0.00	0.00	0.01	0.03	0.10	0.00	0.00	0.00
Water Trucks		0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Other		0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Track Laying Machine		0.15	0.13	0.13	0.00	0.07	0.07	0.15	0.13	0.13	0.00	0.07	0.07
Paving Equipment		0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Dozer		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Loader		0.01	0.07	0.09	0.00	0.00	0.00	0.01	0.02	0.09	0.00	0.00	0.00
Skid Steer		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	**0.19**	**0.45**	**0.53**	**0.00**	**0.09**	**0.08**	**0.19**	**0.27**	**0.53**	**0.00**	**0.08**	**0.07**

Construction Year 2028

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Crane	0.01	0.11	0.09	0.00	0.01	0.00	0.01	0.02	0.09	0.00	0.00	0.00
Excavator	0.03	0.19	0.33	0.00	0.01	0.01	0.03	0.08	0.33	0.00	0.01	0.00
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Light Carts	0.01	0.06	0.16	0.00	0.00	0.00	0.01	0.04	0.16	0.00	0.00	0.00
Dump Trucks	0.06	0.38	0.44	0.00	0.01	0.01	0.06	0.38	0.44	0.00	0.01	0.01
Grapple/Pump Truck	0.09	0.57	0.67	0.00	0.02	0.02	0.09	0.19	0.67	0.00	0.01	0.01
Water Trucks	0.03	0.19	0.22	0.00	0.01	0.01	0.03	0.06	0.22	0.00	0.00	0.00
Other	0.01	0.07	0.07	0.00	0.00	0.00	0.01	0.02	0.07	0.00	0.00	0.00
Track Laying Machine	0.98	0.85	0.85	0.00	0.49	0.45	0.98	0.85	0.85	0.00	0.49	0.45
Paving Equipment	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Dozer	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Loader	0.06	0.49	0.60	0.00	0.02	0.02	0.06	0.13	0.60	0.00	0.01	0.00
Skid Steer	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Total	**1.28**	**3.01**	**3.55**	**0.01**	**0.58**	**0.53**	**1.28**	**1.78**	**3.55**	**0.01**	**0.54**	**0.48**

GHG Emissions

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	3.11	1.18
Excavator	13.01	4.94
Generators	0.48	0.18
Light Carts	3.32	1.26
Dump Trucks	21.45	8.15
Grapple/Pump Truck	32.18	12.23
Water Trucks	10.73	4.08
Other	2.61	0.99
Track Laying Machine	16.71	6.35
Paving Equipment	1.07	0.40
Dozer	0.52	0.20
Loader	20.94	7.96
Skid Steer	0.66	0.25
Total	**126.79**	**48.18**

Construction Year 2028

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	20.83	7.91
Excavator	87.18	33.13
Generators	3.23	1.23
Light Carts	22.27	8.46
Dump Trucks	143.73	54.62
Grapple/Pump Truck	215.59	81.92
Water Trucks	71.86	27.31
Other	17.48	6.64
Track Laying Machine	111.93	42.53
Paving Equipment	7.14	2.71
Dozer	3.51	1.34
Loader	140.32	53.32
Skid Steer	4.40	1.67
Total	**849.46**	**322.80**

Daily Construction Emissions Summary - Transload Warehouse

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	5.75	5.09
Total	**37.13**	**253.86**	**282.00**	**0.88**	**10.05**	**9.25**	**35.45**	**207.62**	**282.00**	**0.88**	**5.75**	**5.09**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	5.75	5.09
Civil Site Improvements	12.57	104.35	114.99	0.26	4.71	4.33	10.46	36.38	114.99	0.26	1.29	0.87
Total	**49.70**	**358.21**	**396.99**	**1.14**	**14.76**	**13.58**	**45.91**	**244.00**	**396.99**	**1.14**	**7.04**	**5.96**

Total Emissions

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2026	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	5.75	5.09
2027	49.70	358.21	396.99	1.14	14.76	13.58	45.91	244.00	396.99	1.14	7.04	5.96
Maximum	**49.70**	**358.21**	**396.99**	**1.14**	**14.76**	**13.58**	**45.91**	**244.00**	**396.99**	**1.14**	**7.04**	**5.96**

Annual Construction Emissions Summary - Transload Warehouse

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	2.80	19.17	21.29	0.07	0.76	0.70	2.68	15.68	21.29	0.07	0.43	0.38
Total	**2.80**	**19.17**	**21.29**	**0.07**	**0.76**	**0.70**	**2.68**	**15.68**	**21.29**	**0.07**	**0.43**	**0.38**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	2.28	15.61	17.34	0.05	0.62	0.57	2.18	12.77	17.34	0.05	0.35	0.31
Civil Site Improvements	1.42	11.79	12.99	0.03	0.53	0.49	1.18	4.11	12.99	0.03	0.15	0.10
Total	**3.70**	**27.40**	**30.34**	**0.08**	**1.15**	**1.06**	**3.36**	**16.88**	**30.34**	**0.08**	**0.50**	**0.41**

Total Emissions

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2026	2.80	19.17	21.29	0.07	0.76	0.70	2.68	15.68	21.29	0.07	0.43	0.38
2027	3.70	27.40	30.34	0.08	1.15	1.06	3.36	16.88	30.34	0.08	0.50	0.41
Maximum	**3.70**	**27.40**	**30.34**	**0.08**	**1.15**	**1.06**	**3.36**	**16.88**	**30.34**	**0.08**	**0.50**	**0.41**

Annual Construction GHG Emissions Summary - Transload Warehouse

Construction Year 2026

		GHG Emissions ($MTCO_2e$ per year)	
Construction Phase		**Unmitigated**	**Mitigated**
Warehouse Construction		6,478.00	2,461.64
	Total	**6,478.00**	**2,461.64**

Construction Year 2027

		GHG Emissions (metric tons CO_2e per year)	
Construction Phase		**Unmitigated**	**Mitigated**
Warehouse Construction		5,276.78	2,005.18
Civil Site Improvements		2,923.62	1,110.98
	Total	**8,200.41**	**3,116.15**

Total Emissions

		GHG Emissions ($MTCO_2e$ per year)	
Construction Year		**Unmitigated**	**Mitigated**
2026		6,478.00	2,461.64
2027		8,200.41	3,116.15
		8,200.41	3,116.15
	Total	**22,878.82**	**8,693.95**

Construction Emissions - Transload Warehouse: Warehouse Construction

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	151	123	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Generators	4	2	20	0.74
Grader	3	10	250	0.41
Light Carts	8	8	20	0.74
Dump Trucks	69	10	376	0.38
Grapple/Pump Truck	4	10	376	0.38
Water Trucks	2	4	376	0.38
Rollers	3	10	36	0.38
Dozer	3	10	419	0.40

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						itigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	1.45	13.60	10.45	0.02	0.59	0.55	1.02	2.03	10.45	0.02	0.14	0.07
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	30.37	196.75	229.06	0.75	7.50	6.90	30.37	196.75	229.06	0.75	7.50	6.90
Grapple/Pump Truck	1.76	11.41	13.28	0.04	0.44	0.40	1.76	3.78	13.28	0.04	0.25	0.13
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Rollers	0.14	1.41	2.22	0.00	0.07	0.06	0.14	0.27	2.22	0.00	0.02	0.01
Dozer	2.92	27.29	21.53	0.04	1.33	1.22	1.66	3.33	21.53	0.04	0.22	0.11
Total	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	8.21	7.27

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						itigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	1.45	13.60	10.45	0.02	0.59	0.55	1.02	2.03	10.45	0.02	0.14	0.07
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	30.37	196.75	229.06	0.75	7.50	6.90	30.37	196.75	229.06	0.75	7.50	6.90
Grapple/Pump Truck	1.76	11.41	13.28	0.04	0.44	0.40	1.76	3.78	13.28	0.04	0.25	0.13
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Rollers	0.14	1.41	2.22	0.00	0.07	0.06	0.14	0.27	2.22	0.00	0.02	0.01
Dozer	2.92	27.29	21.53	0.04	1.33	1.22	1.66	3.33	21.53	0.04	0.22	0.11
Total	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	8.21	7.27

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Grader	0.11	1.03	0.79	0.00	0.04	0.04	0.08	0.15	0.79	0.00	0.01	0.01
Light Carts	0.01	0.07	0.18	0.00	0.00	0.00	0.01	0.05	0.18	0.00	0.00	0.00
Dump Trucks	2.29	14.85	17.29	0.06	0.57	0.52	2.29	14.85	17.29	0.06	0.57	0.52
Grapple/Pump Truck	0.13	0.86	1.00	0.00	0.03	0.03	0.13	0.29	1.00	0.00	0.02	0.01
Water Trucks	0.03	0.17	0.20	0.00	0.01	0.01	0.03	0.06	0.20	0.00	0.00	0.00
Rollers	0.01	0.11	0.17	0.00	0.01	0.00	0.01	0.02	0.17	0.00	0.00	0.00
Dozer	0.22	2.06	1.63	0.00	0.10	0.09	0.13	0.25	1.63	0.00	0.02	0.01
Total	2.80	19.17	21.29	0.07	0.76	0.70	2.68	15.68	21.29	0.07	0.62	0.55

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.09	0.84	0.64	0.00	0.04	0.03	0.06	0.13	0.64	0.00	0.01	0.00
Light Carts	0.01	0.06	0.15	0.00	0.00	0.00	0.01	0.04	0.15	0.00	0.00	0.00
Dump Trucks	1.87	12.10	14.09	0.05	0.46	0.42	1.87	12.10	14.09	0.05	0.46	0.42
Grapple/Pump Truck	0.11	0.70	0.82	0.00	0.03	0.02	0.11	0.23	0.82	0.00	0.02	0.01
Water Trucks	0.02	0.14	0.16	0.00	0.01	0.00	0.02	0.05	0.16	0.00	0.00	0.00
Rollers	0.01	0.09	0.14	0.00	0.00	0.00	0.01	0.02	0.14	0.00	0.00	0.00
Rough Terrain Forklift	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dozer	0.18	1.68	1.32	0.00	0.08	0.08	0.10	0.20	1.32	0.00	0.01	0.01
Total	2.28	15.61	17.34	0.05	0.62	0.57	2.18	12.77	17.34	0.05	0.51	0.45

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Generators	3.64	1.38
Grader	184.34	70.05
Light Carts	25.09	9.54
Dump Trucks	5,587.64	2,123.30
Grapple/Pump Truck	323.92	123.09
Water Trucks	64.78	24.62
Rollers	26.65	10.13
Dozer	261.93	99.54
Total	**6,478.00**	**2,461.64**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Generators	2.97	1.13
Grader	150.16	57.06
Light Carts	20.44	7.77
Dump Trucks	4,551.52	1,729.58
Grapple/Pump Truck	263.86	100.27
Water Trucks	52.77	20.05
Rollers	21.71	8.25
Dozer	213.36	81.08
Total	**5,276.78**	**2,005.18**

Construction Emissions - Transload Warehouse: Civil Site Implementation

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	0	226	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Excavator	3	10	450	0.38
Generators	4	2	20	0.74
Grader	3	10	250	0.41
Light Carts	8	8	20	0.74
Dump Trucks	7	10	376	0.38
Water Trucks	2	4	376	0.38
Rollers	3	10	325	0.38
Dozer	3	10	419	0.40
Loader	3	10	360	0.36
Tractor/Loaders/Backhoes	1	2	84	0.37
Trenchers	3	10	115	0.50

Daily Emissions

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	1.10	8.29	14.24	0.04	0.33	0.30	1.10	3.39	14.24	0.04	0.23	0.11
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	1.45	13.60	10.45	0.02	0.59	0.55	1.02	2.03	10.45	0.02	0.14	0.07
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	3.08	19.96	23.24	0.08	0.76	0.70	3.08	19.96	23.24	0.08	0.76	0.70
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Rollers	1.28	12.72	20.08	0.03	0.61	0.56	1.23	2.45	20.08	0.03	0.16	0.08
Dozer	2.92	27.29	21.53	0.04	1.33	1.22	1.66	3.33	21.53	0.04	0.22	0.11
Loader	1.28	9.88	12.07	0.03	0.44	0.40	1.28	2.57	12.07	0.03	0.17	0.09
Tractor/Loaders/Backhoes	0.02	0.20	0.34	0.00	0.01	0.01	0.02	0.04	0.34	0.00	0.00	0.00
Trenchers	0.94	8.99	7.59	0.01	0.52	0.48	0.57	1.14	7.59	0.01	0.08	0.04
Total	12.57	104.35	114.99	0.26	4.71	4.33	10.46	36.38	114.99	0.26	1.84	1.25

Annual Emissions

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Excavator	0.12	0.94	1.61	0.00	0.04	0.03	0.12	0.38	1.61	0.00	0.03	0.01
Generators	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Grader	0.16	1.54	1.18	0.00	0.07	0.06	0.11	0.23	1.18	0.00	0.02	0.01
Light Carts	0.01	0.11	0.28	0.00	0.00	0.00	0.01	0.07	0.28	0.00	0.00	0.00
Dump Trucks	0.35	2.26	2.63	0.01	0.09	0.08	0.35	2.26	2.63	0.01	0.09	0.08
Water Trucks	0.04	0.26	0.30	0.00	0.01	0.01	0.04	0.09	0.30	0.00	0.01	0.00
Rollers	0.14	1.44	2.27	0.00	0.07	0.06	0.14	0.28	2.27	0.00	0.02	0.01
Dozer	0.33	3.08	2.43	0.00	0.15	0.14	0.19	0.38	2.43	0.00	0.03	0.01
Loader	0.15	1.12	1.36	0.00	0.05	0.05	0.15	0.29	1.36	0.00	0.02	0.01
Tractor/Loaders/Backhoes	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
Trenchers	0.11	1.02	0.86	0.00	0.06	0.05	0.06	0.13	0.86	0.00	0.01	0.00
Total	1.42	11.79	12.99	0.03	0.53	0.49	1.18	4.11	12.99	0.03	0.21	0.14

GHG Emissions

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	Unmitigated	Mitigated
Excavator	420.53	159.80
Generators	5.45	2.07
Grader	275.90	104.84
Light Carts	37.56	14.27
Dump Trucks	848.42	322.40

Water Trucks	96.96	36.85
Rollers	360.07	136.83
Dozer	392.03	148.97
Loader	321.49	122.17
Tractor/Loaders/Backhoes	5.87	2.23
Trenchers	159.34	60.55
Total	**2,923.62**	**1,110.98**

Emissions Summary - 33 kV Distribution

Daily Construction Emissions - Warehouse Construction

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	4.68	33.92	47.01	0.13	1.34	1.23	4.66	11.57	46.98	0.13	0.52	0.27
2026	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	5.75	5.09
2027	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	5.75	5.09
Maximum	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	5.75	5.09

Annual Construction Emissions - Warehouse Construction

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2025	0.22	1.59	2.21	0.01	0.06	0.06	0.22	0.54	2.21	0.01	0.02	0.01
2026	5.81	39.73	44.13	0.14	1.57	1.45	5.55	32.49	44.13	0.14	0.90	0.80
2027	2.02	13.84	15.37	0.05	0.55	0.50	1.93	11.32	15.37	0.05	0.31	0.28
Maximum	5.81	39.73	44.13	0.14	1.57	1.45	5.55	32.49	44.13	0.14	0.90	0.80

GHG Construction Emissions - Warehouse Construction

	GHG Emissions ($MTCO_2e$ per year)	
Construction Year	**Unmitigated**	**Mitigated**
2025	587.64	223.30
2026	13,427.91	5,102.61
2027	4,676.17	1,776.95
Total	13,427.91	5,102.61

Construction Emissions - 33 kV Distribution : Warehouse Construction

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days)	94	313	109	0

Equipment List

	2025				2026/2027			
Equipment	Unit Amount	Hours per Day	HP	LF	Unit Amount	Hours per Day	HP	LF
Auger Boring Machine	1	1	83	0.50	-	-	-	-
Crane	1	2	367	0.29	-	-	-	-
Excavator	3	10	450	0.38	-	-	-	-
Generators	4	2	20	0.74	4	2	20	0.74
Grader	-	-	-	-	3	10	250	0.41
Light Carts	8	8	20	0.74	8	8	20	0.74
Dump Trucks	1	1	376	0.38	69	10	376	0.38
Grapple/Pump Truck	3	10	376	0.38	4	10	376	0.38
Water Trucks	3	10	376	0.38	2	4	376	0.38
Other	1	5	200	0.42	-	-	-	-
Paving Equipment	3	10	89	0.36	-	-	-	-
Rollers	-	-	-	-	3	10	36	0.38
Dozer	-	-	-	-	3	10	419	0.40
Skid Steer	1	1	90	0.37	-	-	-	-
Tractor/Loaders/Backhoes	2	10	84	0.37	-	-	-	-

Daily Emissions

Construction Year 2025

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Auger Boring Machine	0.01	0.06	0.11	0.00	0.00	0.00	0.01	0.03	0.11	0.00	0.00	0.00
Crane	0.09	0.85	0.69	0.00	0.04	0.04	0.07	0.14	0.69	0.00	0.01	0.00
Excavator	1.10	8.29	14.24	0.04	0.33	0.30	1.10	3.39	14.24	0.04	0.23	0.11
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.04	0.29	0.33	0.00	0.01	0.01	0.04	0.29	0.33	0.00	0.01	0.01
Grapple/Pump Truck	1.32	8.55	9.96	0.03	0.33	0.30	1.32	2.83	9.96	0.03	0.19	0.09
Water Trucks	1.32	8.55	9.96	0.03	0.33	0.30	1.32	2.83	9.96	0.03	0.19	0.09
Other	0.14	1.33	1.31	0.00	0.06	0.06	0.14	0.28	1.31	0.00	0.02	0.01
Paving Equipment	0.29	2.72	4.00	0.01	0.12	0.11	0.29	0.64	4.00	0.01	0.04	0.02
Skid Steer	0.01	0.13	0.22	0.00	0.00	0.00	0.01	0.02	0.19	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.21	2.02	3.39	0.01	0.08	0.08	0.21	0.41	3.39	0.01	0.03	0.01
Total	**4.68**	**33.92**	**47.01**	**0.13**	**1.34**	**1.23**	**4.66**	**11.57**	**46.98**	**0.13**	**0.75**	**0.39**

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	1.45	13.60	10.45	0.02	0.59	0.55	1.02	2.03	10.45	0.02	0.14	0.07
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	30.37	196.75	229.06	0.75	7.50	6.90	30.37	196.75	229.06	0.75	7.50	6.90
Grapple/Pump Truck	1.76	11.41	13.28	0.04	0.44	0.40	1.76	3.78	13.28	0.04	0.25	0.13
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03
Rollers	0.14	1.41	2.22	0.00	0.07	0.06	0.14	0.27	2.22	0.00	0.02	0.01
Dozer	2.92	27.29	21.53	0.04	1.33	1.22	1.66	3.33	21.53	0.04	0.22	0.11
Total	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	8.21	7.27

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Grader	1.45	13.60	10.45	0.02	0.59	0.55	1.02	2.03	10.45	0.02	0.14	0.07
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	30.37	196.75	229.06	0.75	7.50	6.90	30.37	196.75	229.06	0.75	7.50	6.90
Grapple/Pump Truck	1.76	11.41	13.28	0.04	0.44	0.40	1.76	3.78	13.28	0.04	0.25	0.13
Water Trucks	0.35	2.28	2.66	0.01	0.09	0.08	0.35	0.76	2.66	0.01	0.05	0.03

Rollers		0.14	1.41	2.22	0.00	0.07	0.06	0.14	0.27	2.22	0.00	0.02	0.01
Dozer		2.92	27.29	21.53	0.04	1.33	1.22	1.66	3.33	21.53	0.04	0.22	0.11
	Total	37.13	253.86	282.00	0.88	10.05	9.25	35.45	207.62	282.00	0.88	8.21	7.27

Annual Emissions

Construction Year 2025

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Auger Boring Machine	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Crane	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
Excavator	0.05	0.39	0.67	0.00	0.02	0.01	0.05	0.16	0.67	0.00	0.01	0.01
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Light Carts	0.01	0.04	0.11	0.00	0.00	0.00	0.01	0.03	0.11	0.00	0.00	0.00
Dump Trucks	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Grapple/Pump Truck	0.06	0.40	0.47	0.00	0.02	0.01	0.06	0.13	0.47	0.00	0.01	0.00
Water Trucks	0.06	0.40	0.47	0.00	0.02	0.01	0.06	0.13	0.47	0.00	0.01	0.00
Other	0.01	0.06	0.06	0.00	0.00	0.00	0.01	0.01	0.06	0.00	0.00	0.00
Paving Equipment	0.01	0.13	0.19	0.00	0.01	0.01	0.01	0.03	0.19	0.00	0.00	0.00
Skid Steer	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.01	0.09	0.16	0.00	0.00	0.00	0.01	0.02	0.16	0.00	0.00	0.00
Total	**0.22**	**1.59**	**2.21**	**0.01**	**0.06**	**0.06**	**0.22**	**0.54**	**2.21**	**0.01**	**0.04**	**0.02**

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Generators	0.00	0.03	0.06	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
Grader	0.23	2.13	1.64	0.00	0.09	0.09	0.16	0.32	1.64	0.00	0.02	0.01
Light Carts	0.02	0.15	0.38	0.00	0.00	0.00	0.02	0.10	0.38	0.00	0.00	0.00
Dump Trucks	4.75	30.79	35.85	0.12	1.17	1.08	4.75	30.79	35.85	0.12	1.17	1.08
Grapple/Pump Truck	0.28	1.78	2.08	0.01	0.07	0.06	0.28	0.59	2.08	0.01	0.04	0.02
Water Trucks	0.06	0.36	0.42	0.00	0.01	0.01	0.06	0.12	0.42	0.00	0.01	0.00
Rollers	0.02	0.22	0.35	0.00	0.01	0.01	0.02	0.04	0.35	0.00	0.00	0.00
Dozer	0.46	4.27	3.37	0.01	0.21	0.19	0.26	0.52	3.37	0.01	0.03	0.02
Total	5.81	39.73	44.13	0.14	1.57	1.45	5.55	32.49	44.13	0.14	1.29	1.14

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Generators	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Grader	0.08	0.74	0.57	0.00	0.03	0.03	0.06	0.11	0.57	0.00	0.01	0.00
Light Carts	0.01	0.05	0.13	0.00	0.00	0.00	0.01	0.03	0.13	0.00	0.00	0.00
Dump Trucks	1.65	10.72	12.48	0.04	0.41	0.38	1.65	10.72	12.48	0.04	0.41	0.38
Grapple/Pump Truck	0.10	0.62	0.72	0.00	0.02	0.02	0.10	0.21	0.72	0.00	0.01	0.01
Water Trucks	0.02	0.12	0.14	0.00	0.00	0.00	0.02	0.04	0.14	0.00	0.00	0.00
Rollers	0.01	0.08	0.12	0.00	0.00	0.00	0.01	0.01	0.12	0.00	0.00	0.00
Dozer	0.16	1.49	1.17	0.00	0.07	0.07	0.09	0.18	1.17	0.00	0.01	0.01
Total	2.02	13.84	15.37	0.05	0.55	0.50	1.93	11.32	15.37	0.05	0.45	0.40

GHG Emissions

Construction Year 2025

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Auger Boring Machine	1.56	0.59
Crane	7.31	2.78
Excavator	174.91	66.47
Generators	2.27	0.86
Light Carts	15.62	5.94
Dump Trucks	5.04	1.92
Grapple/Pump Truck	151.23	57.47
Water Trucks	151.23	57.47
Other	14.96	5.68
Paving Equipment	37.55	14.27
Skid Steer	1.54	0.59
Tractor/Loaders/Backhoes	24.42	9.28
Total	**587.64**	**223.30**

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Generators	7.55	2.87
Grader	382.11	145.20
Light Carts	52.02	19.77
Dump Trucks	11,582.32	4,401.28
Grapple/Pump Truck	671.44	255.15
Water Trucks	134.29	51.03
Rollers	55.24	20.99
Dozer	542.95	206.32
Total	**13,427.91**	**5,102.61**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Generators	2.63	1.00
Grader	133.07	50.57
Light Carts	18.11	6.88
Dump Trucks	4,033.46	1,532.71
Grapple/Pump Truck	233.82	88.85
Water Trucks	46.76	17.77
Rollers	19.24	7.31
Dozer	189.08	71.85
Total	**4,676.17**	**1,776.95**

Daily Construction Emissions Summary - Solar

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	1.52	11.31	15.98	0.04	0.45	0.41	1.47	4.72	15.92	0.04	0.18	0.11
Total	**1.52**	**11.31**	**15.98**	**0.04**	**0.45**	**0.41**	**1.47**	**4.72**	**15.92**	**0.04**	**0.18**	**0.11**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	1.52	11.31	15.98	0.04	0.45	0.41	1.47	4.72	15.92	0.04	0.18	0.11
Total	**1.52**	**11.31**	**15.98**	**0.04**	**0.45**	**0.41**	**1.47**	**4.72**	**15.92**	**0.04**	**0.18**	**0.11**

Total Emissions

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2026	1.52	11.31	15.98	0.04	0.45	0.41	1.47	4.72	15.92	0.04	0.18	0.11
2027	1.52	11.31	15.98	0.04	0.45	0.41	1.47	4.72	15.92	0.04	0.18	0.11
Maximum	**1.52**	**11.31**	**15.98**	**0.04**	**0.45**	**0.41**	**1.47**	**4.72**	**15.92**	**0.04**	**0.18**	**0.11**

Annual Construction Emissions Summary - Solar

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	0.19	1.39	1.97	0.00	0.06	0.05	0.18	0.58	1.96	0.00	0.02	0.01
Total	**0.19**	**1.39**	**1.97**	**0.00**	**0.06**	**0.05**	**0.18**	**0.58**	**1.96**	**0.00**	**0.02**	**0.01**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Phase	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Warehouse Construction	0.04	0.28	0.40	0.00	0.01	0.01	0.04	0.12	0.40	0.00	0.00	0.00
Total	**0.04**	**0.28**	**0.40**	**0.00**	**0.01**	**0.01**	**0.04**	**0.12**	**0.40**	**0.00**	**0.00**	**0.00**

Total Emissions

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Annual Emissions (tons per year)					
Construction Year	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
2026	0.19	1.39	1.97	0.00	0.06	0.05	0.18	0.58	1.96	0.00	0.02	0.01
2027	0.04	0.28	0.40	0.00	0.01	0.01	0.04	0.12	0.40	0.00	0.00	0.00
Maximum	**0.19**	**1.39**	**1.97**	**0.00**	**0.06**	**0.05**	**0.18**	**0.58**	**1.96**	**0.00**	**0.02**	**0.01**

Annual Construction GHG Emissions Summary - Solar

	GHG Emissions ($MTCO_2e$ per year)	
Construction Phase	**Unmitigated**	**Mitigated**
2026	474.00	180.12
2027	96.34	36.61
Total	**570.34**	**216.73**

Construction Emissions - Solar: Warehouse Construction

Construction Year:	2025	2026	2027	2028
Overall Phase Duration (Days):	0	246	50	0

Equipment List

Equipment	Unit Amount	Hours per Day	HP	LF
Crane	1	1	367	0.29
Excavator	1	8	450	0.38
Generators	4	2	20	0.74
Light Carts	8	8	20	0.74
Dump Trucks	1	5	376	0.38
Grapple/Pump Truck	1	5	376	0.38
Water Trucks	1	6	376	0.38
Other	1	1	200	0.42
Paving Equipment	1	6	89	0.36
Dozer	1	1	419	0.40
Loader	1	2	360	0.36
Skid Steer	1	2	90	0.37
Tractor/Loaders/Backhoes	1	5	84	0.37

Daily Emissions

Construction Year 2026

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.04	0.42	0.34	0.00	0.02	0.02	0.04	0.07	0.34	0.00	0.00	0.00
Excavator	0.29	2.21	3.80	0.01	0.09	0.08	0.29	0.90	3.80	0.01	0.06	0.03
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.22	1.43	1.66	0.01	0.05	0.05	0.22	1.43	1.66	0.01	0.05	0.05
Grapple/Pump Truck	0.22	1.43	1.66	0.01	0.05	0.05	0.22	0.47	1.66	0.01	0.03	0.02
Water Trucks	0.26	1.71	1.99	0.01	0.07	0.06	0.26	0.57	1.99	0.01	0.04	0.02
Other	0.01	0.11	0.11	0.00	0.01	0.00	0.01	0.02	0.11	0.00	0.00	0.00
Paving Equipment	0.06	0.54	0.80	0.00	0.02	0.02	0.06	0.13	0.80	0.00	0.01	0.00
Dozer	0.10	0.91	0.72	0.00	0.04	0.04	0.06	0.11	0.72	0.00	0.01	0.00
Loader	0.09	0.66	0.80	0.00	0.03	0.03	0.09	0.17	0.80	0.00	0.01	0.01
Skid Steer	0.02	0.26	0.44	0.00	0.01	0.01	0.02	0.04	0.38	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.05	0.50	0.85	0.00	0.02	0.02	0.05	0.10	0.85	0.00	0.01	0.00
Total	**1.52**	**11.31**	**15.98**	**0.04**	**0.45**	**0.41**	**1.47**	**4.72**	**15.92**	**0.04**	**0.26**	**0.16**

Construction Year 2027

	Unmitigated Maximum Daily Emissions (pounds per day)						Mitigated Maximum Daily Emissions (pounds per day)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.04	0.42	0.34	0.00	0.02	0.02	0.04	0.07	0.34	0.00	0.00	0.00
Excavator	0.29	2.21	3.80	0.01	0.09	0.08	0.29	0.90	3.80	0.01	0.06	0.03
Generators	0.02	0.17	0.37	0.00	0.01	0.01	0.02	0.08	0.37	0.00	0.01	0.00
Light Carts	0.13	0.96	2.44	0.00	0.03	0.02	0.13	0.63	2.44	0.00	0.03	0.02
Dump Trucks	0.22	1.43	1.66	0.01	0.05	0.05	0.22	1.43	1.66	0.01	0.05	0.05
Grapple/Pump Truck	0.22	1.43	1.66	0.01	0.05	0.05	0.22	0.47	1.66	0.01	0.03	0.02
Water Trucks	0.26	1.71	1.99	0.01	0.07	0.06	0.26	0.57	1.99	0.01	0.04	0.02
Other	0.01	0.11	0.11	0.00	0.01	0.00	0.01	0.02	0.11	0.00	0.00	0.00
Paving Equipment	0.06	0.54	0.80	0.00	0.02	0.02	0.06	0.13	0.80	0.00	0.01	0.00
Dozer	0.10	0.91	0.72	0.00	0.04	0.04	0.06	0.11	0.72	0.00	0.01	0.00
Loader	0.09	0.66	0.80	0.00	0.03	0.03	0.09	0.17	0.80	0.00	0.01	0.01
Skid Steer	0.02	0.26	0.44	0.00	0.01	0.01	0.02	0.04	0.38	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.05	0.50	0.85	0.00	0.02	0.02	0.05	0.10	0.85	0.00	0.01	0.00
Total	**1.52**	**11.31**	**15.98**	**0.04**	**0.45**	**0.41**	**1.47**	**4.72**	**15.92**	**0.04**	**0.26**	**0.16**

Annual Emissions

Construction Year 2026

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$	ROG	NO_X	CO	SO_2	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Crane	0.01	0.05	0.04	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00
Excavator	0.04	0.27	0.47	0.00	0.01	0.01	0.04	0.11	0.47	0.00	0.01	0.00
Generators	0.00	0.02	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Light Carts	0.02	0.12	0.30	0.00	0.00	0.00	0.02	0.08	0.30	0.00	0.00	0.00
Dump Trucks	0.03	0.18	0.20	0.00	0.01	0.01	0.03	0.18	0.20	0.00	0.01	0.01

Grapple/Pump Truck	0.03	0.18	0.20	0.00	0.01	0.01	0.03	0.06	0.20	0.00	0.00	0.00
Water Trucks	0.03	0.21	0.24	0.00	0.01	0.01	0.03	0.07	0.24	0.00	0.00	0.00
Other	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Paving Equipment	0.01	0.07	0.10	0.00	0.00	0.00	0.01	0.02	0.10	0.00	0.00	0.00
Dozer	0.01	0.11	0.09	0.00	0.01	0.01	0.01	0.01	0.09	0.00	0.00	0.00
Loader	0.01	0.08	0.10	0.00	0.00	0.00	0.01	0.02	0.10	0.00	0.00	0.00
Skid Steer	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.01	0.06	0.10	0.00	0.00	0.00	0.01	0.01	0.10	0.00	0.00	0.00
Total	**0.19**	**1.39**	**1.97**	**0.00**	**0.06**	**0.05**	**0.18**	**0.58**	**1.96**	**0.00**	**0.03**	**0.02**

Construction Year 2027

	Unmitigated Maximum Annual Emissions (tons per year)						Mitigated Maximum Daily Emissions (tons per year)					
Equipment	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**	**ROG**	**NO_X**	**CO**	**SO_2**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
Crane	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Excavator	0.01	0.06	0.09	0.00	0.00	0.00	0.01	0.02	0.09	0.00	0.00	0.00
Generators	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Light Carts	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.02	0.06	0.00	0.00	0.00
Dump Trucks	0.01	0.04	0.04	0.00	0.00	0.00	0.01	0.04	0.04	0.00	0.00	0.00
Grapple/Pump Truck	0.01	0.04	0.04	0.00	0.00	0.00	0.01	0.01	0.04	0.00	0.00	0.00
Water Trucks	0.01	0.04	0.05	0.00	0.00	0.00	0.01	0.01	0.05	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Equipment	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Dozer	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Loader	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Skid Steer	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Tractor/Loaders/Backhoes	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Total	**0.04**	**0.28**	**0.40**	**0.00**	**0.01**	**0.01**	**0.04**	**0.12**	**0.40**	**0.00**	**0.01**	**0.00**

GHG Emissions

Construction Year 2026

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	9.56	3.63
Excavator	122.07	46.38
Generators	5.94	2.26
Light Carts	40.88	15.54
Dump Trucks	65.96	25.07
Grapple/Pump Truck	65.96	25.07
Water Trucks	79.16	30.08
Other	3.21	1.22
Paving Equipment	19.66	7.47
Dozer	14.22	5.41
Loader	23.33	8.87
Skid Steer	8.08	3.07
Tractor/Loaders/Backhoes	15.98	6.07
Total	**474.00**	**180.12**

Construction Year 2027

	GHG Emissions ($MTCO_2e$ per year)	
Equipment	**Unmitigated**	**Mitigated**
Crane	1.94	0.74
Excavator	24.81	9.43
Generators	1.21	0.46
Light Carts	8.31	3.16
Dump Trucks	13.41	5.09
Grapple/Pump Truck	13.41	5.09
Water Trucks	16.09	6.11
Other	0.65	0.25
Paving Equipment	3.99	1.52
Dozer	2.89	1.10
Loader	4.74	1.80
Skid Steer	1.64	0.62
Tractor/Loaders/Backhoes	3.25	1.23
Total	**96.34**	**36.61**

Construction Equipment Emission Factors Derived from OFFROAD 2021

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (MD)
Calendar Year: 2025
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Y	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	LF	ROG	NOX	CO	SO2	PM10 exhaust	PM2.5 exhaust	CO2
San Bernar	2025	Construction and Mining - Bore/Drill Rigs	Aggregate	75	Diesel	6.99E-06	8.46E-06	1.01E-05	9.39E-05	1.32E-04	1.40E-02	7.21E-06	6.63E-06	1.30E-07	1.15E-07	4.56E+02	2.67E+02	8.06E-01	1.86E+04	5.00E-01	2.80E-01	4.36E+00	3.11E+00	4.29E-03	2.39E-01	2.20E-01	4.64E+02
San Bernar	2025	Construction and Mining - Bore/Drill Rigs	Aggregate	100	Diesel	4.00E-05	4.84E-05	5.76E-05	1.11E-03	5.95E-04	1.78E-01	1.73E-05	1.60E-05	1.65E-06	1.45E-06	5.78E+03	2.73E+03	6.50E+00	2.25E+05	5.00E-01	1.17E-01	1.44E+00	2.68E+00	3.99E-03	4.20E-02	3.86E-02	4.31E+02
San Bernar	2025	Construction and Mining - Bore/Drill Rigs	Aggregate	175	Diesel	4.05E-05	4.90E-05	5.83E-05	1.26E-03	3.83E-04	2.25E-01	1.70E-05	1.57E-05	2.09E-06	1.84E-06	7.32E+03	1.88E+03	5.77E+00	2.80E+05	5.00E-01	9.87E-02	7.72E-01	2.53E+00	4.20E-03	3.43E-02	3.16E-02	4.54E+02
San Bernar	2025	Construction and Mining - Bore/Drill Rigs	Aggregate	300	Diesel	5.78E-05	7.00E-05	8.33E-05	6.52E-04	6.52E-04	3.24E-01	2.14E-05	1.97E-05	3.00E-06	2.65E-06	1.05E+04	1.95E+03	5.85E+00	4.07E+05	5.00E-01	7.91E-02	7.37E-01	7.37E-01	3.39E-03	2.42E-02	2.23E-02	3.66E+02
San Bernar	2025	Construction and Mining - Bore/Drill Rigs	Aggregate	600	Diesel	7.59E-05	9.18E-05	1.09E-04	8.82E-04	7.41E-04	4.66E-01	2.65E-05	2.44E-05	4.32E-06	3.82E-06	1.52E+04	1.52E+03	4.69E+00	5.91E+05	5.00E-01	6.65E-02	5.37E-01	6.39E-01	3.13E-03	1.92E-02	1.76E-02	3.38E+02
San Bernar	2025	Construction and Mining - Bore/Drill Rigs	Aggregate	750	Diesel	4.13E-05	4.99E-05	5.94E-05	6.79E-04	2.95E-04	3.74E-01	1.11E-05	1.02E-05	3.47E-06	3.06E-06	1.22E+04	7.31E+02	1.18E+00	4.66E+05	5.00E-01	6.03E-02	3.56E-01	8.20E-01	4.19E-03	1.33E-02	1.23E-02	4.52E+02
San Bernar	2025	Construction and Mining - Cranes	Aggregate	75	Diesel	1.14E-05	1.38E-05	1.64E-05	4.71E-05	9.75E-05	5.26E-03	9.85E-06	9.06E-06	4.84E-08	4.30E-08	1.71E+02	1.67E+02	4.75E-01	1.15E+04	2.90E-01	1.26E+00	8.88E+00	4.29E+00	4.41E-03	8.96E-01	8.25E-01	4.79E+02
San Bernar	2025	Construction and Mining - Cranes	Aggregate	100	Diesel	1.37E-04	1.66E-04	1.97E-04	1.61E-03	1.54E-03	2.27E-01	8.93E-05	8.21E-05	2.10E-06	1.86E-06	7.40E+03	5.62E+03	1.21E+01	4.98E+05	2.90E-01	3.37E-01	3.13E+00	3.28E+00	4.27E-03	1.81E-01	1.67E-01	4.62E+02
San Bernar	2025	Construction and Mining - Cranes	Aggregate	175	Diesel	3.66E-04	4.43E-04	5.27E-04	4.18E-03	4.13E-03	6.56E-01	2.24E-04	2.07E-04	6.07E-06	5.36E-06	2.13E+04	9.69E+03	2.08E+01	1.43E+06	2.90E-01	2.98E-01	2.78E+00	2.81E+00	4.08E-03	1.51E-01	1.39E-01	4.41E+02
San Bernar	2025	Construction and Mining - Cranes	Aggregate	300	Diesel	4.74E-04	5.74E-04	6.83E-04	3.26E-03	5.89E-03	1.12E+00	2.50E-04	2.30E-04	1.03E-05	9.15E-06	3.64E+04	1.12E+04	2.30E+01	2.44E+06	2.90E-01	1.96E-01	2.01E+00	1.11E+00	3.53E-03	8.52E-02	7.84E-02	3.81E+02
San Bernar	2025	Construction and Mining - Cranes	Aggregate	600	Diesel	6.43E-04	7.78E-04	9.26E-04	6.43E-03	7.54E-03	2.04E+00	3.06E-04	2.81E-04	1.88E-05	1.67E-05	6.62E+04	1.22E+04	2.40E+01	4.45E+06	2.90E-01	1.22E-01	1.18E+00	1.01E+00	2.95E-03	4.79E-02	4.40E-02	3.18E+02
San Bernar	2025	Construction and Mining - Cranes	Aggregate	750	Diesel	2.36E-05	2.86E-05	3.40E-05	2.01E-04	2.83E-04	3.96E-02	1.41E-05	1.29E-05	3.66E-07	3.24E-07	1.29E+03	1.37E+02	3.17E-01	8.65E+04	2.90E-01	3.19E-01	3.16E+00	2.24E+00	4.08E-03	1.57E-01	1.44E-01	4.41E+02
San Bernar	2025	Construction and Mining - Crawler Tractors	Aggregate	75	Diesel	1.66E-05	2.00E-05	2.38E-05	6.50E-05	1.59E-04	5.41E-03	1.16E-05	1.07E-05	4.96E-08	4.43E-08	1.76E+02	1.12E+02	5.06E-01	7.93E+03	4.30E-01	1.84E+00	1.45E+01	5.95E+00	4.55E-03	1.07E+00	9.81E-01	4.96E+02
San Bernar	2025	Construction and Mining - Crawler Tractors	Aggregate	100	Diesel	9.54E-04	1.15E-03	1.37E-03	9.76E-03	1.01E-02	1.37E+00	7.25E-04	6.67E-04	1.27E-05	1.12E-05	4.47E+04	2.30E+04	4.78E+01	2.01E+06	4.30E-01	3.87E-01	3.38E+00	3.27E+00	4.26E-03	2.43E-01	2.24E-01	4.60E+02
San Bernar	2025	Construction and Mining - Crawler Tractors	Aggregate	175	Diesel	7.06E-04	8.54E-04	1.02E-03	9.18E-03	7.71E-03	1.50E+00	4.31E-04	3.96E-04	1.39E-05	1.23E-05	4.89E+04	1.48E+04	3.17E+01	2.21E+06	4.30E-01	2.55E-01	2.30E+00	2.73E+00	4.15E-03	1.28E-01	1.18E-01	4.48E+02
San Bernar	2025	Construction and Mining - Crawler Tractors	Aggregate	300	Diesel	6.86E-04	8.30E-04	9.88E-04	5.24E-03	8.79E-03	1.58E+00	3.67E-04	3.37E-04	1.46E-05	1.29E-05	5.13E+04	1.13E+04	2.44E+01	2.31E+06	4.30E-01	1.89E-01	2.00E+00	1.19E+00	3.32E-03	8.36E-02	7.69E-02	3.59E+02
San Bernar	2025	Construction and Mining - Crawler Tractors	Aggregate	600	Diesel	1.56E-03	1.89E-03	2.25E-03	1.48E-02	1.71E-02	5.51E+00	6.77E-04	6.23E-04	5.10E-05	4.51E-05	1.79E+05	2.10E+04	4.32E+01	8.08E+06	4.30E-01	1.15E-01	1.04E+00	9.07E-01	3.12E-03	4.14E-02	3.81E-02	3.37E+02
San Bernar	2025	Construction and Mining - Crawler Tractors	Aggregate	750	Diesel	3.60E-05	4.36E-05	5.18E-05	2.05E-04	5.66E-04	5.55E-02	1.89E-05	1.74E-05	5.14E-07	4.55E-07	1.81E+03	1.32E+02	3.09E-01	8.20E+04	4.30E-01	3.38E-01	4.38E+00	1.59E+00	3.98E-03	1.47E-01	1.35E-01	4.31E+02
San Bernar	2025	Construction and Mining - Excavators	Aggregate	75	Diesel	3.37E-05	4.08E-05	4.85E-05	6.07E-04	4.57E-04	9.56E-02	2.52E-05	2.32E-05	8.85E-07	7.82E-07	3.11E+03	2.11E+03	2.84E+00	1.58E+05	3.80E-01	2.24E-01	2.51E+00	3.34E+00	4.86E-03	1.39E-01	1.28E-01	5.25E+02
San Bernar	2025	Construction and Mining - Excavators	Aggregate	100	Diesel	4.74E-04	5.74E-04	6.83E-04	1.01E-02	5.94E-03	1.52E+00	2.34E-04	2.16E-04	1.41E-05	1.25E-05	4.95E+04	3.08E+04	4.67E+01	2.52E+06	3.80E-01	1.62E-01	1.68E+00	2.84E+00	3.98E-03	6.62E-02	6.09E-02	4.30E+02
San Bernar	2025	Construction and Mining - Excavators	Aggregate	175	Diesel	8.53E-04	1.03E-03	1.23E-03	2.00E-02	7.55E-03	3.42E+00	3.72E-04	3.42E-04	3.17E-05	2.80E-05	1.11E+05	3.85E+04	6.34E+01	5.63E+06	3.80E-01	1.33E-01	9.77E-01	2.58E+00	4.09E-03	4.81E-02	4.43E-02	4.42E+02
San Bernar	2025	Construction and Mining - Excavators	Aggregate	300	Diesel	9.06E-04	1.10E-03	1.30E-03	9.09E-03	8.16E-03	4.36E+00	2.71E-04	2.49E-04	4.03E-05	3.56E-05	1.42E+05	3.28E+04	5.46E+01	7.17E+06	3.80E-01	9.72E-02	7.23E-01	8.05E-01	3.58E-03	2.40E-02	2.21E-02	3.86E+02
San Bernar	2025	Construction and Mining - Excavators	Aggregate	600	Diesel	1.40E-03	1.69E-03	2.01E-03	1.53E-02	1.05E-02	7.73E+00	3.71E-04	3.41E-04	7.16E-05	6.33E-05	2.51E+05	3.77E+04	5.73E+01	1.28E+07	3.80E-01	6.50E-02	4.04E-01	5.91E-01	2.76E-03	1.43E-02	1.31E-02	2.98E+02
San Bernar	2025	Construction and Mining - Excavators	Aggregate	750	Diesel	3.85E-05	4.65E-05	5.54E-05	3.22E-04	5.18E-04	1.13E-01	1.91E-05	1.76E-05	1.05E-06	9.24E-07	3.67E+03	3.02E+02	5.07E-01	1.85E+05	3.80E-01	1.79E-01	1.99E+00	1.24E+00	4.02E-03	7.34E-02	6.76E-02	4.34E+02
San Bernar	2025	Construction and Mining - Graders	Aggregate	75	Diesel	6.23E-06	7.54E-06	8.97E-06	2.55E-05	5.87E-05	2.76E-03	5.05E-06	4.64E-06	2.54E-08	2.26E-08	8.99E+01	5.91E+01	1.70E-01	4.12E+03	4.10E-01	1.37E+00	1.07E+01	4.65E+00	4.63E-03	9.20E-01	8.46E-01	5.03E+02
San Bernar	2025	Construction and Mining - Graders	Aggregate	100	Diesel	1.58E-04	1.91E-04	2.28E-04	1.42E-03	1.51E-03	1.87E-01	1.11E-04	1.02E-04	1.73E-06	1.53E-06	6.08E+03	3.24E+03	7.61E+00	2.90E+05	4.10E-01	4.77E-01	3.77E+00	3.54E+00	4.30E-03	2.77E-01	2.55E-01	4.66E+02
San Bernar	2025	Construction and Mining - Graders	Aggregate	175	Diesel	1.10E-03	1.34E-03	1.59E-03	1.34E-02	1.12E-02	2.08E+00	6.26E-04	5.76E-04	1.93E-05	1.71E-05	6.78E+04	2.15E+04	4.52E+01	3.19E+06	4.10E-01	2.86E-01	2.41E+00	2.88E+00	4.14E-03	1.34E-01	1.23E-01	4.47E+02
San Bernar	2025	Construction and Mining - Graders	Aggregate	300	Diesel	1.61E-03	1.94E-03	2.31E-03	9.94E-03	2.00E-02	4.31E+00	6.67E-04	6.14E-04	3.99E-05	3.53E-05	1.40E+05	3.09E+04	3.96E+01	6.64E+06	4.10E-01	1.70E-01	1.75E+00	8.67E-01	3.48E-03	5.82E-02	5.36E-02	3.76E+02
San Bernar	2025	Construction and Mining - Graders	Aggregate	600	Diesel	1.25E-04	1.51E-04	1.79E-04	5.68E-04	1.61E-03	2.71E-01	5.86E-05	5.39E-05	2.51E-06	2.22E-06	8.82E+03	1.26E+03	1.53E+00	4.19E+05	4.10E-01	1.61E-01	1.72E+00	6.08E-01	2.69E-03	6.28E-02	5.77E-02	2.90E+02
San Bernar	2025	Construction and Mining - Off-Highway Tractors	Aggregate	75	Diesel	1.52E-04	1.83E-04	2.18E-04	1.93E-03	1.67E-03	2.66E-01	9.76E-05	8.98E-05	2.46E-06	2.18E-06	8.66E+03	5.49E+03	9.25E+00	3.85E+05	4.40E-01	3.36E-01	3.06E+00	3.53E+00	4.51E-03	1.79E-01	1.64E-01	4.87E+02
San Bernar	2025	Construction and Mining - Off-Highway Tractors	Aggregate	100	Diesel	1.32E-04	1.59E-04	1.90E-04	2.63E-03	1.69E-03	3.95E-01	8.12E-05	7.47E-05	3.66E-06	3.23E-06	1.28E+04	7.20E+03	9.92E+00	5.68E+05	4.40E-01	1.66E-01	1.77E+00	2.75E+00	3.82E-03	8.49E-02	7.81E-02	4.13E+02
San Bernar	2025	Construction and Mining - Off-Highway Tractors	Aggregate	175	Diesel	1.54E-04	1.87E-04	2.22E-04	3.35E-03	1.44E-03	5.63E-01	6.89E-05	6.34E-05	5.21E-06	4.60E-06	1.83E+04	5.13E+03	7.28E+00	8.13E+05	4.40E-01	1.57E-01	1.20E+00	2.81E+00	4.37E-03	5.78E-02	5.31E-02	4.72E+02
San Bernar	2025	Construction and Mining - Off-Highway Tractors	Aggregate	300	Diesel	1.17E-04	1.42E-04	1.68E-04	1.02E-03	1.04E-03	4.74E-01	3.74E-05	3.44E-05	4.39E-06	3.88E-06	1.54E+04	3.21E+03	4.80E+00	6.85E+05	4.40E-01	1.11E-01	8.13E-01	8.02E-01	3.43E-03	2.93E-02	2.69E-02	3.71E+02
San Bernar	2025	Construction and Mining - Off-Highway Tractors	Aggregate	600	Diesel	3.15E-04	3.82E-04	4.54E-04	3.18E-03	2.27E-03	1.59E+00	7.79E-05	7.17E-05	1.47E-05	1.30E-05	5.18E+04	6.43E+03	9.08E+00	2.30E+06	4.40E-01	7.44E-02	4.43E-01	6.21E-01	2.88E-03	1.52E-02	1.40E-02	3.10E+02
San Bernar	2025	Construction and Mining - Off-Highway Tractors	Aggregate	750	Diesel	2.66E-05	3.22E-05	3.84E-05	1.39E-04	2.19E-04	6.66E-02	1.13E-05	1.04E-05	6.16E-07	5.45E-07	2.17E+03	1.52E+02	2.22E-01	9.68E+04	4.40E-01	2.13E-01	1.44E+00	9.18E-01	4.06E-03	7.45E-02	6.86E-02	4.39E+02
San Bernar	2025	Construction and Mining - Off-Highway Trucks	Aggregate	75	Diesel	5.13E-06	6.21E-06	7.39E-06	1.04E-04	4.33E-05	1.38E-02	7.06E-07	6.50E-07	1.28E-07	1.13E-07	4.50E+02	3.24E+02	2.20E-01	2.30E+04	3.80E-01	2.23E-01	1.56E+00	3.72E+00	4.60E-03	2.53E-02	2.33E-02	4.96E+02
San Bernar	2025	Construction and Mining - Off-Highway Trucks	Aggregate	100	Diesel	1.75E-05	2.11E-05	2.52E-05	2.66E-04	1.84E-04	3.62E-02	1.07E-05	9.81E-06	3.35E-07	2.96E-07	1.18E+03	6.73E+02	4.68E-01	5.94E+04	3.80E-01	2.74E-01	2.39E+00	3.44E+00	4.34E-03	1.38E-01	1.27E-01	4.69E+02
San Bernar	2025	Construction and Mining - Off-Highway Trucks	Aggregate	175	Diesel	4.05E-04	4.90E-04	5.84E-04	7.53E-03	3.09E-03	1.18E+00	1.52E-04	1.40E-04	1.10E-05	9.68E-06	3.85E+04	1.24E+04	8.61E+00	1.95E+06	3.80E-01	1.97E-01	1.24E+00	3.03E+00	4.41E-03	6.12E-02	5.63E-02	4.76E+02
San Bernar	2025	Construction and Mining - Off-Highway Trucks	Aggregate	300	Diesel	7.09E-04	8.57E-04	1.02E-03	5.67E-03	5.28E-03	2.41E+00	2.03E-04	1.87E-04	2.23E-05	1.97E-05	7.84E+04	1.89E+04	1.45E+01	3.98E+06	3.80E-01	1.32E-01	8.10E-01	8.70E-01	3.43E-03	3.11E-02	2.86E-02	3.70E+02
San Bernar	2025	Construction and Mining - Off-Highway Trucks	Aggregate	600	Diesel	2.87E-03	3.48E-03	4.14E-03	2.30E-02	2.13E-02	1.03E+01	7.54E-04	6.94E-04	9.57E-05	8.45E-05	3.36E+05	4.52E+04	3.23E+01	1.70E+07	3.80E-01	1.12E-01	6.83E-01	7.39E-01	3.07E-03	2.42E-02	2.23E-02	3.32E+02
San Bernar	2025	Construction and Mining - Off-Highway Trucks	Aggregate	750	Diesel	1.28E-03	1.55E-03	1.85E-03	1.06E-02	1.12E-02	3.54E+00	4.29E-04	3.94E-04	3.27E-05	2.89E-05	1.15E+05	8.74E+03	6.93E+00	5.81E+06	3.80E-01	2.06E-01	1.49E+00	1.40E+00	4.35E-03	5.70E-02	5.24E-02	4.70E+02
San Bernar	2025	Construction and Mining - Other	Aggregate	75	Diesel	8.17E-05	9.89E-05	1.18E-04	4.56E-04	8.63E-04	5.27E-02	6.61E-05	6.08E-05	4.86E-07	4.31E-07	1.71E+03	1.10E+03	3.48E+00	8.07E+04	4.20E-01	9.42E-01	8.21E+00	4.34E+00	4.63E-03	6.29E-01	5.79E-01	5.02E+02
San Bernar	2025	Construction and Mining - Other	Aggregate	100	Diesel	3.85E-04	4.66E-04	5.54E-04	5.50E-03	4.52E-03	8.24E-01	2.70E-04	2.48E-04	7.62E-06	6.74E-06	2.68E+04	1.52E+04	3.24E+01	1.25E+06	4.20E-01	2.42E-01	2.35E+00	2.86E+00	3.97E-03	1.40E-01	1.29E-01	4.29E+02
San Bernar	2025	Construction and Mining - Other	Aggregate	175	Diesel	1.79E-04	2.16E-04	2.57E-04	2.86E-03	1.99E-03	4.77E-01	1.04E-04	9.54E-05	4.42E-06	3.91E-06	1.55E+04	4.76E+03	1.12E+01	7.24E+05	4.20E-01	2.05E-01	1.89E+00	2.70E+00	4.18E-03	9.81E-02	9.03E-02	4.51E+02
San Bernar	2025	Construction and Mining - Other	Aggregate	300	Diesel	2.11E-04	2.55E-04	3.03E-04	1.68E-03	2.66E-03	6.46E-01	1.04E-04	9.55E-05	5.98E-06	5.29E-06	2.10E+04	4.41E+03	1.05E+01	9.77E+05	4.20E-01	1.52E-01	1.58E+00	9.99E-01	3.56E-03	6.18E-02	5.69E-02	3.85E+02
San Bernar	2025	Construction and Mining - Other	Aggregate	600	Diesel	6.07E-04	7.35E-04	8.75E-04	5.98E-03	6.66E-03	2.48E+00	2.53E-04	2.32E-04	2.30E-05	2.03E-05	8.08E+04	9.72E+03	2.11E+01	3.76E+06	4.20E-01	9.93E-02	9.00E-01	8.08E-01	3.11E-03	3.41E-02	3.14E-02	3.36E+02
San Bernar	2025	Construction and Mining - Other	Aggregate	750	Diesel	9.29E-05	1.12E-04	1.34E-04	8.11E-04	1.11E-03	3.86E-01	3.72E-05	3.43E-05	3.57E-06	3.16E-06	1.26E+04	9.46E+02	1.86E+00	5.83E+05	4.20E-01	1.25E-01	1.23E+00	9.02E-01	3.97E-03	4.14E-02	3.81E-02	4.29E+02
San Bernar	2025	Construction and Mining - Pavers	Aggregate	75	Diesel	5.39E-05	6.52E-05	7.76E-05	4.00E-04	5.29E-04	5.64E-02	4.53E-05	4.16E-05	5.21E-07	4.62E-07	1.84E+03	1.19E+03	3.05E+00	8.60E+04	4.20E-01	5.74E-01	4.66E+00	3.52E+00	4.59E-03	3.99E-01	3.67E-01	4.97E+02
San Bernar	2025	Construction and Mining - Pavers	Aggregate	100	Diesel	1.07E-04	1.29E-04	1.54E-04	1.79E-03	1.38E-03	2.74E-01	7.26E-05	6.68E-05	2.53E-06	2.24E-06	8.90E+03	5.12E+03	1.29E+01	4.15E+05	4.20E-01	1.99E-01	2.12E+00	2.76E+00	3.90E-03	1.12E-01	1.03E-01	4.21E+02
San Bernar	2025	Construction and Mining - Pavers	Aggregate	175	Diesel	1.31E-04	1.58E-04	1.88E-04	2.58E-03	1.44E-03	4.52E-01	6.83E-05	6.29E-05	4.18E-06	3.70E-06	1.47E+04	4.32E+03	1.09E+01	6.83E+05	4.20E-01	1.65E-01	1.50E+00	2.69E+00	4.36E-03	7.12E-02	6.55E-02	4.71E+02
San Bernar	2025	Construction and Mining - Pavers	Aggregate	300	Diesel	5.90E-05	7.14E-05	8.50E-05	6.51E-04	6.96E-04	3.43E-01	2.35E-05	2.16E-05	3.18E-06	2.81E-06	1.12E+04	2.37E+03	5.14E+00	5.19E+05	4.20E-01	7.92E-02	7.72E-01	7.22E-01	3.52E-03	2.60E-02	2.39E-02	3.80E+02
San Bernar	2025	Construction and Mining - Pavers	Aggregate	600	Diesel	1.26E-05	1.53E-05	1.82E-05	1.39E-04	1.47E-04	7.44E-02	4.49E-06	4.13E-06	6.90E-07	6.09E-07	2.42E+03	3.11E+02	6.87E-01	1.13E+05	4.20E-01	6.44E-02	6.22E-01	5.85E-01	2.91E-03	1.90E-02	1.74E-02	3.14E+02
San Bernar	2025	Construction and Mining - Pavers	Aggregate	750	Diesel	1.30E-06	1.58E-06	1.88E-06	2.40E-05	6.60E-06	1.32E-02	2.29E-07	2.11E-07	1.23E-07	1.08E-07	4.31E+02	2.67E+01	5.49E-02	2.00E+04	4.20E-01	6.21E-02	2.60E-01	9.44E-01	4.83E-03	9.02E-03	8.30E-03	5.21E+02
San Bernar	2025	Construction and Mining - Paving Equipment	Aggregate	75	Diesel	6.92E-06	8.37E-06	9.96E-06	3.94E-05	6.27E-05	4.92E-03	6.23E-06	5.73E-06	4.54E-08	4.03E-08	1.60E+02	1.30E+02	4.11E-01	8.78E+03	3.60E-01	7.90E-01	5.92E+00	3.72E+00	4.29E-03	5.88E-01	5.41E-01	4.65E+02
San Bernar	2025	Construction and Mining - Paving Equipment	Aggregate	100	Diesel	5.79E-05	7.00E-05	8.33E-05	1.18E-03	7.67E-04	1.82E-01	3.09E-05	2.85E-05	1.69E-06	1.49E-06	5.92E+03	3.62E+03	7.54E+00	3.23E+05	3.60E-01	1.78E-01	1.95E+00	3.01E+00	4.29E-03	7.87E-02	7.24E-02	4.63E+02
San Bernar	2025	Construction and Mining - Paving Equipment	Aggregate	175	Diesel	5.86E-05	7.09E-05	8.44E-05	1.11E-03	6.09E-04	1.89E-01	3.19E-05	2.94E-05	1.75E-06	1.54E-06	6.14E+03	2.29E+03	4.85E+00	3.35E+05	3.60E-01	1.63E-01	1.40E+00	2.54E+00	4.01E-03	7.32E-02	6.74E-02	4.33E+02
San Bernar	2025	Construction and Mining - Paving Equipment	Aggregate	300	Diesel	3.01E-05	3.64E-05	4.33E-05	2.61E-04	3.31E-04	1.25E-01	1.32E-05	1.21E-05	1.16E-06	1.02E-06	4.06E+03	9.64E+02	2.03E+00	2.21E+05	3.60E-01	1.16E-01	1.05E+00	8.29E-01	3.68E-03	4.20E-02	3.86E-02	3.97E+02
San Bernar	2025	Construction and Mining - Paving Equipment	Aggregate	600	Diesel	2.24E-05	2.72E-05	3.23E-05	2.73E-04	1.90E-04	1.43E-01	6.03E-06	5.55E-06	1.33E-06	1.17E-06	4.65E+03	6.44E+02	1.32E+00	2.54E+05	3.60E-01	6.47E-02	4.53E-01	6.49E-01	3.16E-03	1.44E-02	1.32E-02	3.41E+02
San Bernar	2025	Construction and Mining - Paving Equipment	Aggregate	750	Diesel	4.06E-06	4.91E-06	5.84E-06	4.88E-05	3.51E-05	2.65E-02	5.44E-07	5.00E-07	2.45E-07	2.17E-07	8.61E+02	7.35E+01	1.37E-01	4.69E+04	3.60E-01	8.19E-02	5.85E-01	8.15E-01	4.09E-03	9.08E-03	8.35E-03	4.42E+02
San Bernar	2025	Construction and Mining - Rollers	Aggregate	75	Diesel	2.07E-05	2.51E-05	2.99E-05	8.23E-05	2.01E-04	7.01E-03	1.44E-05	1.33E-05	6.44E-08	5.74E-08	2.28E+02	1.66E+02	7.06E-01	1.18E+04	3.80E-01	1.76E+00	1.41E+01	5.76E+00	4.51E-03	1.01E+00	9.29E-01	4.92E+02
San Bernar	2025	Construction and Mining - Rollers	Aggregate	100	Diesel	4.18E-04	5.05E-04	6.01E-04	7.07E-03	5.39E-03	1.09E+00	2.67E-04	2.45E-04	1.01E-05	8.92E-06	3.55E+04	2.09E+04	6.15E+01	1.83E+06	3.80E-01	2.10E-01	2.24E+00	2.94E+00	4.20E-03	1.11E-01	1.02E-01	4.54E+02
San Bernar	2025	Construction and Mining - Rollers	Aggregate	175	Diesel	2.26E-04	2.73E-04	3.25E-04	6.27E-03	2.37E-03	1.14E+00	1.07E-04	9.80E-05	1.05E-05	9.29E-06	3.69E+04	1.32E+04	3.59E+01	1.90E+06	3.80E-01	1.03E-01	8.92E-01	2.36E+00	3.95E-03	4.00E-02	3.68E-02	4.27E+02
San Bernar	2025	Construction and Mining - Rollers	Aggregate	300	Diesel	6.28E-05	7.59E-05	9.04E-05	5.55E-04	7.93E-04	1.92E-01	3.16E-05	2.91E-05	1.78E-06	1.57E-06	6.24E+03	1.48E+03	4.66E+00	3.22E+05	3.80E-01	1.49E-01	1.56E+00	1.09E+00	3.49E-03	6.20E-02	5.71E-02	3.77E+02
San Bernar	2025	Construction and Mining - Rollers	Aggregate	600	Diesel	2.37E-05	2.87E-05	3.41E-05	2.85E-04	2.86E-04	1.06E-01	9.93E-06	9.13E-06	9.82E-07	8.67E-07	3.45E+03	5.03E+02	1.61E+00	1.77E+05	3.80E-01	8.28E-02	8.27E-01	8.24E-01	2.83E-03	2.87E-02	2.64E-02	3.06E+02
San Bernar	2025	Construction and Mining - Rough Terrain Forklifts	Aggregate	75	Diesel	2.73E-06	3.30E-06	3.93E-06	1.14E-05	2.71E-05	1.19E-03	1.99E-06	1.83E-06	1.09E-08	9.72E-09	3.86E+01	2.99E+01	1.30E-01	1.85E+03	4.00E-01	1.22E+00	1.00E+01	4.20E+00	4.04E-03	7.34E-01	6.75E-01	4.39E+02
San Bernar	2025	Construction and Mining - Rough Terrain Forklifts	Aggregate	100	Diesel	5.22E-04	6.32E-04	7.52E-04	1.72E-02	9.04E-03	2.81E+00	1.93E-04	1.78E-04	2.61E-05	2.30E-05	9.15E+04	4.56E+04	1.58E+02	4.39E+06	4.00E-01	1.15E-01	1.64E+00	3.12E+00	4.73E-03	3.50E-02	3.22E-02	5.10E+02
San Bernar	2025	Construction and Mining - Rough Terrain Forklifts	Aggregate	175	Diesel	1.68E-04	2.03E-04	2.41E-04	3.33E-03	1.67E-03	5.96E-01	1.14E-04	1.05E-04	5.52E-06	4.88E-06	1.94E+04	7.40E+03	2.61E+01	9.33E+05	4.00E-01	1.30E-01	1.06E+00	2.13E+00	3.53E-03	7.29E-02	6.70E-02	3.81E+02
San Bernar	2025	Construction and Mining - Rough Terrain Forklifts	Aggregate	300	Diesel	8.58E-06	1.04E-05	1.24E-05	8.79E-05	1.24E-04	4.66E-02	2.97E-06	2.74E-06	4.32E-07	3.81E-07	1.52E+03	3.44E+02	1.34E+00	7.28E+04	4.00E-01	8.33E-02	9.97E-01	7.05E-01	3.46E-03	2.39E-02	2.19E-02	3.74E+02
San Bernar	2025	Construction and Mining - Rough Terrain Forklifts	Aggregate	600	Diesel	1.78E-06	2.15E-06	2.56E-06	2.79E-05	1.54E-05	1.53E-02	2.67E-07	2.46E-07	1.42E-07	1.26E-07	4.99E+02	6.00E+01	2.28E-01	2.40E+04	4.00E-01	4.95E-02	3.53E-01	6.41E-01	3.27E-03	6.15E-03	5.65E-03	3.53E+02
San Bernar	2025	Construction and Mining - Rough Terrain Forklifts	Aggregate	750	Diesel	5.39E-07	6.53E-07	7.77E-07	5.41E-06	7.40E-06	2.89E-03	5.31E-08	4.88E-08	2.67E-08	2.36E-08	9.39E+01	7.23E+00	3.26E-02	4.52E+03	4.00E-01	9.96E-02	1.13E+00	8.25E-01	4.08E-03	8.10E-03	7.45E-03	4.41E+02
San Bernar	2025	Construction and Mining - Rubber Tired Dozers	Aggregate	75	Diesel	4.08E-05	4.93E-05	5.87E-05	3.10E-04	3.94E-04	3.84E-02	2.81E-05	2.58E-05	3.54E-07	3.14E-07	1.25E+03	8.38E+02	1.05E+00	6.10E+04	4.00E-01	6.49E-01	5.19E+00	4.08E+00	4.67E-03	3.70E-01	3.40E-01	5.05E+02
San Bernar	2025	Construction and Mining - Rubber Tired Dozers	Aggregate	100	Diesel	8.51E-05	1.03E-04	1.23E-04	7.24E-04	8.56E-04	9.24E-02	6.19E-05	5.69E-05	8.54E-07	7.56E-07	3.00E+03	1.74E+03	1.99E+00	1.46E+05	4.00E-01	4.89E-01	4.06E+00	3.44E+00	4.05E-03	2.94E-01	2.70E-01	4.38E+02
San Bernar	2025	Construction and Mining - Rubber Tired Dozers	Aggregate	175	Diesel	1.15E-04	1.39E-04	1.65E-04	9.81E-04	1.19E-03	1.40E-01	7.71E-05	7.09E-05	1.30E-06	1.15E-06	4.56E+03	1.56E+03	1.94E+00	2.23E+05	4.00E-01	4.21E-01	3.60E+00	2.97E+00	3.92E-03	2.33E-01	2.15E-01	4.24E+02
San Bernar	2025	Construction and Mining - Rubber Tired Dozers	Aggregate	300	Diesel	9.66E-05	1.17E-04	1.39E-04	7.03E-04	1.25E-03	1.43E-01	5.46E-05	5.02E-05	1.33E-06	1.17E-06	4.66E+03	1.04E+03	1.45E+00	2.28E+05	4.00E-01	3.09E-01	3.31E+00	1.86E+00	3.51E-03	1.44E-01	1.33E-01	3.79E+02
San Bernar	2025	Construction and Mining - Rubber Tired Dozers	Aggregate	600	Diesel	9.06E-04	1.10E-03	1.30E-03	8.58E-03	1.04E-02	1.57E+00	4.55E-04	4.19E-04	1.45E-05	1.28E-05	5.10E+04	6.75E+03	9.06E+00	2.48E+06	4.00E-01	2.24E-01	2.12E+00	1.75E+00	2.97E-03	9.30E-02	8.56E-02	3.21E+02
San Bernar	2025	Construction and Mining - Rubber Tired Dozers	Aggregate	750	Diesel	2.11E-05	2.56E-05	3.04E-05	1.21E-04	3.17E-04	5.81E-02	8.98E-06	8.26E-06	5.38E-07	4.75E-07	1.89E+03	1.39E+02	1.34E-01	9.24E+04	4.00E-01	2.03E-01	2.52E+00	9.65E-01	4.28E-03	7.14E-02	6.57E-02	4.62E+02
San Bernar	2025	Construction and Mining - Rubber Tired Loaders	Aggregate	75	Diesel	7.30E-07	8.83E-07	1.05E-06	2.86E-06	6.99E-06	2.38E-04	5.13E-07	4.72E-07	2.19E-09	1.95E-09	7.75E+00	6.58E+00	2.80E-02	4.14E+02	3.60E-01	1.65E+00	1.30E+01	5.34E+00	4.08E-03	9.56E-01	8.80E-01	4.45E+02
San Bernar	2025	Construction and Mining - Rubber Tired Loaders	Aggregate	100	Diesel	1.31E-03	1.59E-03	1.89E-03	1.72E-02	1.34E-02	2.37E+00	8.06E-04	7.41E-04	2.20E-05	1.94E-05	7.72E+04	4.84E+04	5.12E+01	4.17E+06	3.60E-01	3.02E-01	2.55E+00	3.28E+00	4.17E-03	1.53E-01	1.41E-01	4.51E+02
San Bernar	2025	Construction and Mining - Rubber Tired Loaders	Aggregate	175	Diesel	2.00E-03	2.42E-03	2.88E-03	3.52E-02	1.72E-02	5.63E+00	9.11E-04	8.39E-04	5.22E-05	4.61E-05	1.83E+05	6.55E+04	6.79E+01	9.83E+06	3.60E-01	1.94E-01	1.38E+00	2.83E+00	4.18E-03	7.31E-02	6.73E-02	4.52E+02

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (MD)
Calendar Year: 2025
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Y	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	LF	ROG	NOX	CO	SO2	PM10 exhaust	PM2.5 exhaust	CO2
San Bernar	2025	Construction and Mining - Rubber Tired Loaders	Aggregate	300	Diesel	2.30E-03	2.79E-03	3.32E-03	1.81E-02	2.33E-02	8.19E+00	7.73E-04	7.11E-04	7.58E-05	6.70E-05	2.66E+05	6.84E+04	6.27E+01	1.43E+07	3.60E-01	1.25E-01	1.04E+00	8.10E-01	3.40E-03	3.47E-02	3.19E-02	3.67E+02
San Bernar	2025	Construction and Mining - Rubber Tired Loaders	Aggregate	600	Diesel	3.28E-03	3.97E-03	4.73E-03	2.55E-02	2.95E-02	1.06E+01	1.11E-03	1.02E-03	9.84E-05	8.70E-05	3.46E+05	5.59E+04	5.56E+01	1.85E+07	3.60E-01	1.09E-01	8.09E-01	6.99E-01	2.70E-03	3.03E-02	2.79E-02	2.91E+02
San Bernar	2025	Construction and Mining - Rubber Tired Loaders	Aggregate	750	Diesel	2.96E-04	3.59E-04	4.27E-04	2.80E-03	2.23E-03	9.32E-01	8.18E-05	7.53E-05	8.63E-06	7.63E-06	3.03E+04	2.51E+03	2.52E+00	1.63E+06	3.60E-01	1.76E-01	1.09E+00	1.37E+00	4.22E-03	4.00E-02	3.68E-02	4.56E+02
San Bernar	2025	Construction and Mining - Scrapers	Aggregate	75	Diesel	1.66E-05	2.01E-05	2.40E-05	1.33E-04	1.59E-04	1.81E-02	1.27E-05	1.17E-05	1.67E-07	1.48E-07	5.89E+02	3.51E+02	7.48E-01	2.34E+04	4.80E-01	5.28E-01	4.16E+00	3.49E+00	4.39E-03	3.34E-01	3.07E-01	4.75E+02
San Bernar	2025	Construction and Mining - Scrapers	Aggregate	100	Diesel	6.92E-05	8.38E-05	9.97E-05	6.27E-04	8.55E-04	8.21E-02	6.20E-05	5.71E-05	7.59E-07	6.72E-07	2.67E+03	1.17E+03	1.99E+00	1.07E+05	4.80E-01	4.94E-01	5.04E+00	3.69E+00	4.47E-03	3.66E-01	3.36E-01	4.84E+02
San Bernar	2025	Construction and Mining - Scrapers	Aggregate	175	Diesel	4.44E-04	5.37E-04	6.40E-04	5.96E-03	4.86E-03	9.42E-01	2.53E-04	2.33E-04	8.72E-06	7.71E-06	3.07E+04	7.33E+03	1.65E+01	1.22E+06	4.80E-01	2.89E-01	2.61E+00	3.21E+00	4.69E-03	1.36E-01	1.25E-01	5.07E+02
San Bernar	2025	Construction and Mining - Scrapers	Aggregate	300	Diesel	6.12E-04	7.40E-04	8.81E-04	4.54E-03	7.10E-03	1.38E+00	3.21E-04	2.95E-04	1.27E-05	1.13E-05	4.48E+04	8.24E+03	1.90E+01	1.80E+06	4.80E-01	2.06E-01	1.98E+00	1.27E+00	3.55E-03	8.96E-02	8.24E-02	3.84E+02
San Bernar	2025	Construction and Mining - Scrapers	Aggregate	600	Diesel	4.94E-03	5.98E-03	7.11E-03	4.61E-02	5.58E-02	1.54E+01	2.16E-03	1.99E-03	1.43E-04	1.26E-04	5.02E+05	4.77E+04	9.70E+01	2.01E+07	4.80E-01	1.44E-01	1.35E+00	1.11E+00	3.44E-03	5.21E-02	4.80E-02	3.72E+02
San Bernar	2025	Construction and Mining - Scrapers	Aggregate	750	Diesel	1.63E-04	1.97E-04	2.34E-04	2.13E-03	2.47E-03	3.74E-01	1.02E-04	9.34E-05	3.47E-06	3.06E-06	1.22E+04	7.95E+02	1.55E+00	4.88E+05	4.80E-01	2.28E-01	2.85E+00	2.46E+00	4.01E-03	1.18E-01	1.08E-01	4.33E+02
San Bernar	2025	Construction and Mining - Skid Steer Loaders	Aggregate	75	Diesel	6.16E-04	7.45E-04	8.87E-04	1.74E-02	9.97E-03	2.82E+00	3.02E-04	2.77E-04	2.61E-05	2.31E-05	9.18E+04	6.82E+04	1.86E+02	4.81E+06	3.70E-01	1.30E-01	1.75E+00	3.05E+00	4.58E-03	5.28E-02	4.86E-02	4.94E+02
San Bernar	2025	Construction and Mining - Skid Steer Loaders	Aggregate	100	Diesel	2.72E-06	3.29E-06	3.92E-06	1.11E-05	2.73E-05	9.99E-04	1.84E-06	1.69E-06	9.18E-09	8.18E-09	3.25E+01	2.01E+01	8.58E-02	1.71E+03	3.70E-01	1.46E+00	1.21E+01	4.93E+00	4.08E-03	8.17E-01	7.51E-01	4.44E+02
San Bernar	2025	Construction and Mining - Skid Steer Loaders	Aggregate	175	Diesel	3.27E-06	3.95E-06	4.70E-06	1.04E-04	3.65E-05	1.91E-02	1.41E-06	1.29E-06	1.77E-07	1.56E-07	6.21E+02	2.14E+02	7.72E-01	3.26E+04	3.70E-01	9.43E-02	8.71E-01	2.49E+00	4.22E-03	3.36E-02	3.09E-02	4.56E+02
San Bernar	2025	Construction and Mining - Skid Steer Loaders	Aggregate	300	Diesel	3.02E-06	3.65E-06	4.35E-06	3.35E-05	4.02E-05	1.77E-02	1.24E-06	1.14E-06	1.64E-07	1.45E-07	5.77E+02	1.47E+02	4.86E-01	3.03E+04	3.70E-01	7.39E-02	8.15E-01	6.78E-01	3.33E-03	2.52E-02	2.31E-02	3.59E+02
San Bernar	2025	Construction and Mining - Skid Steer Loaders	Aggregate	600	Diesel	1.35E-06	1.64E-06	1.95E-06	9.72E-06	2.03E-05	5.12E-03	8.90E-07	8.19E-07	4.74E-08	4.19E-08	1.67E+02	1.85E+01	5.72E-02	8.73E+03	3.70E-01	1.32E-01	1.64E+00	7.86E-01	3.83E-03	7.19E-02	6.61E-02	4.14E+02
San Bernar	2025	Construction and Mining - Surfacing Equipment	Aggregate	75	Diesel	2.86E-06	3.46E-06	4.12E-06	2.17E-05	3.51E-05	3.00E-03	2.28E-06	2.10E-06	2.77E-08	2.46E-08	9.76E+01	9.71E+01	3.89E-01	6.23E+03	3.00E-01	5.24E-01	5.32E+00	3.28E+00	4.21E-03	3.46E-01	3.19E-01	4.55E+02
San Bernar	2025	Construction and Mining - Surfacing Equipment	Aggregate	100	Diesel	6.46E-06	7.82E-06	9.30E-06	1.89E-04	1.10E-04	3.07E-02	3.36E-06	3.09E-06	2.84E-07	2.51E-07	9.97E+02	7.04E+02	2.44E+00	6.34E+04	3.00E-01	1.23E-01	1.72E+00	2.95E+00	4.45E-03	5.26E-02	4.84E-02	4.81E+02
San Bernar	2025	Construction and Mining - Surfacing Equipment	Aggregate	175	Diesel	1.06E-05	1.28E-05	1.52E-05	1.48E-04	1.25E-04	2.51E-02	7.00E-06	6.44E-06	2.32E-07	2.05E-07	8.16E+02	3.79E+02	1.51E+00	5.23E+04	3.00E-01	2.12E-01	2.08E+00	2.46E+00	3.87E-03	1.16E-01	1.07E-01	4.18E+02
San Bernar	2025	Construction and Mining - Surfacing Equipment	Aggregate	300	Diesel	1.26E-05	1.53E-05	1.82E-05	1.19E-04	1.86E-04	4.83E-02	6.32E-06	5.81E-06	4.48E-07	3.96E-07	1.57E+03	4.47E+02	1.79E+00	1.01E+05	3.00E-01	1.26E-01	1.53E+00	9.77E-01	3.68E-03	5.20E-02	4.78E-02	3.98E+02
San Bernar	2025	Construction and Mining - Surfacing Equipment	Aggregate	600	Diesel	2.86E-05	3.46E-05	4.12E-05	3.51E-04	3.27E-04	1.73E-01	1.19E-05	1.09E-05	1.60E-06	1.42E-06	5.63E+03	8.95E+02	3.06E+00	3.61E+05	3.00E-01	7.11E-02	6.71E-01	7.22E-01	3.29E-03	2.44E-02	2.24E-02	3.55E+02
San Bernar	2025	Construction and Mining - Surfacing Equipment	Aggregate	750	Diesel	1.08E-05	1.31E-05	1.56E-05	1.44E-04	1.17E-04	7.60E-02	4.79E-06	4.41E-06	7.04E-07	6.22E-07	2.47E+03	2.48E+02	8.04E-01	1.59E+05	3.00E-01	7.80E-02	6.95E-01	8.58E-01	4.18E-03	2.85E-02	2.62E-02	4.52E+02
San Bernar	2025	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	75	Diesel	3.38E-04	4.09E-04	4.87E-04	1.36E-03	3.21E-03	1.34E-01	2.59E-04	2.38E-04	1.23E-06	1.09E-06	4.35E+03	3.21E+03	1.35E+01	2.28E+05	3.70E-01	1.52E+00	1.19E+01	5.06E+00	4.57E-03	9.63E-01	8.86E-01	4.97E+02
San Bernar	2025	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	100	Diesel	5.16E-03	6.24E-03	7.42E-03	1.11E-01	6.40E-02	1.68E+01	2.46E-03	2.27E-03	1.56E-04	1.38E-04	5.47E+05	3.43E+05	5.35E+02	2.86E+07	3.70E-01	1.63E-01	1.67E+00	2.89E+00	4.06E-03	6.42E-02	5.91E-02	4.39E+02
San Bernar	2025	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	175	Diesel	7.49E-04	9.07E-04	1.08E-03	1.73E-02	6.61E-03	2.93E+00	3.27E-04	3.01E-04	2.72E-05	2.40E-05	9.54E+04	3.50E+04	6.13E+01	5.02E+06	3.70E-01	1.33E-01	9.67E-01	2.53E+00	3.97E-03	4.79E-02	4.40E-02	4.29E+02
San Bernar	2025	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	300	Diesel	4.67E-04	5.65E-04	6.73E-04	4.23E-03	4.84E-03	1.82E+00	1.83E-04	1.69E-04	1.69E-05	1.49E-05	5.92E+04	1.50E+04	2.60E+01	3.11E+06	3.70E-01	1.13E-01	9.66E-01	8.42E-01	3.36E-03	3.66E-02	3.36E-02	3.63E+02
San Bernar	2025	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	600	Diesel	5.38E-04	6.51E-04	7.75E-04	5.33E-03	4.52E-03	2.40E+00	1.74E-04	1.60E-04	2.22E-05	1.96E-05	7.79E+04	1.22E+04	2.19E+01	4.10E+06	3.70E-01	7.97E-02	5.53E-01	6.52E-01	2.72E-03	2.13E-02	1.96E-02	2.93E+02
San Bernar	2025	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	750	Diesel	2.11E-05	2.55E-05	3.04E-05	2.91E-04	1.97E-04	8.82E-02	7.97E-06	7.33E-06	8.17E-07	7.22E-07	2.87E+03	2.47E+02	3.66E-01	1.58E+05	3.70E-01	1.23E-01	9.49E-01	1.41E+00	3.94E-03	3.85E-02	3.54E-02	4.26E+02
San Bernar	2025	Construction and Mining - Trenchers	Aggregate	75	Diesel	3.97E-05	4.81E-05	5.72E-05	2.21E-04	3.82E-04	2.59E-02	2.91E-05	2.68E-05	2.39E-07	2.12E-07	8.43E+02	4.65E+02	1.68E+00	3.28E+04	5.00E-01	9.13E-01	7.25E+00	4.20E+00	4.54E-03	5.53E-01	5.09E-01	4.93E+02
San Bernar	2025	Construction and Mining - Trenchers	Aggregate	100	Diesel	1.43E-04	1.74E-04	2.07E-04	1.62E-03	1.72E-03	2.37E-01	1.08E-04	9.91E-05	2.19E-06	1.94E-06	7.71E+03	3.53E+03	1.03E+01	2.95E+05	5.00E-01	3.26E-01	3.22E+00	3.05E+00	4.11E-03	2.02E-01	1.86E-01	4.44E+02
San Bernar	2025	Construction and Mining - Trenchers	Aggregate	175	Diesel	3.99E-05	4.83E-05	5.75E-05	4.02E-04	4.52E-04	6.22E-02	2.70E-05	2.48E-05	5.75E-07	5.09E-07	2.02E+03	5.71E+02	1.96E+00	7.79E+04	5.00E-01	3.20E-01	3.00E+00	2.67E+00	3.81E-03	1.79E-01	1.65E-01	4.12E+02
San Bernar	2025	Construction and Mining - Trenchers	Aggregate	300	Diesel	5.71E-05	6.91E-05	8.23E-05	3.66E-04	7.45E-04	1.25E-01	3.25E-05	2.99E-05	1.16E-06	1.02E-06	4.06E+03	6.92E+02	2.17E+00	1.56E+05	5.00E-01	2.21E-01	2.38E+00	1.17E+00	3.69E-03	1.04E-01	9.54E-02	3.99E+02
San Bernar	2025	Construction and Mining - Trenchers	Aggregate	600	Diesel	5.27E-05	6.38E-05	7.59E-05	5.93E-04	5.85E-04	1.93E-01	2.47E-05	2.27E-05	1.78E-06	1.58E-06	6.27E+03	6.24E+02	1.65E+00	2.40E+05	5.00E-01	1.13E-01	1.04E+00	1.05E+00	3.16E-03	4.36E-02	4.01E-02	3.41E+02
San Bernar	2025	Construction and Mining - Trenchers	Aggregate	750	Diesel	5.14E-06	6.21E-06	7.39E-06	9.78E-05	2.70E-05	5.42E-02	9.32E-07	8.57E-07	5.03E-07	4.44E-07	1.76E+03	1.02E+02	2.11E-01	6.79E+04	5.00E-01	5.36E-02	2.33E-01	8.44E-01	4.34E-03	8.04E-03	7.39E-03	4.68E+02
San Bernar	2025	Construction and Mining - Misc - Asphalt Pavers	Aggregate	100	Gasoline	1.12E-05	1.03E-05	1.24E-05	5.86E-04	2.99E-05	1.44E-02	1.01E-06	7.61E-07	1.40E-07	2.01E-07	5.73E+02	1.46E+02	3.70E-01	8.91E+03								
San Bernar	2025	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	100	Gasoline	1.10E-05	1.01E-05	1.21E-05	4.01E-04	3.51E-05	1.76E-02	1.23E-06	9.29E-07	1.70E-07	2.42E-07	6.90E+02	1.02E+02	1.02E+00	8.99E+03								
San Bernar	2025	Construction and Mining - Misc - Bore/Drill Rigs	Aggregate	175	Gasoline	2.57E-06	2.36E-06	2.82E-06	1.92E-04	1.36E-05	6.08E-03	4.36E-07	3.29E-07	6.04E-08	8.57E-08	2.45E+02	0.00E+00	2.40E-01	0.00E+00								
San Bernar	2025	Construction and Mining - Misc - Concrete/Industrial Saw	Aggregate	100	Gasoline	1.46E-05	1.34E-05	1.61E-05	7.14E-04	3.74E-05	3.46E-02	2.42E-06	1.83E-06	3.35E-07	4.74E-07	1.35E+03	2.92E+02	4.60E-01	1.93E+04								
San Bernar	2025	Construction and Mining - Misc - Cranes	Aggregate	100	Gasoline	1.69E-05	1.55E-05	1.86E-05	7.62E-04	4.47E-05	1.69E-02	1.18E-06	8.93E-07	1.64E-07	2.38E-07	6.79E+02	2.19E+02	5.00E-01	1.62E+04								
San Bernar	2025	Construction and Mining - Misc - Cranes	Aggregate	175	Gasoline	8.30E-07	7.64E-07	9.14E-07	3.91E-05	3.26E-06	1.11E-03	7.98E-08	6.03E-08	1.11E-08	1.53E-08	4.38E+01	0.00E+00	0.00E+00	0.00E+00								
San Bernar	2025	Construction and Mining - Misc - Dumpers/Tenders	Aggregate	100	Gasoline	9.37E-07	8.62E-07	1.03E-06	3.51E-05	2.95E-06	1.45E-03	1.01E-07	7.65E-08	1.40E-08	1.79E-08	5.11E+01	0.00E+00	1.50E-01	0.00E+00								
San Bernar	2025	Construction and Mining - Misc - Other	Aggregate	175	Gasoline	1.36E-05	1.25E-05	1.50E-05	1.15E-03	4.59E-05	3.59E-02	2.57E-06	1.94E-06	3.56E-07	5.01E-07	1.43E+03	2.63E+02	7.00E-01	3.31E+04								
San Bernar	2025	Construction and Mining - Misc - Paving Equipment	Aggregate	100	Gasoline	3.48E-06	3.20E-06	3.83E-06	1.75E-04	9.03E-06	8.00E-03	5.58E-07	4.21E-07	7.73E-08	1.09E-07	3.10E+02	8.03E+01	5.00E-01	5.30E+03								
San Bernar	2025	Construction and Mining - Misc - Rollers	Aggregate	100	Gasoline	7.97E-05	7.33E-05	8.77E-05	3.82E-03	1.96E-04	6.37E-02	4.44E-06	3.36E-06	6.16E-07	9.28E-07	2.65E+03	5.95E+02	9.20E-01	4.46E+04								
San Bernar	2025	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	100	Gasoline	1.47E-04	1.35E-04	1.61E-04	6.61E-03	3.88E-04	1.47E-01	1.03E-05	7.77E-06	1.42E-06	2.11E-06	6.02E+03	1.19E+03	2.88E+00	1.01E+05								
San Bernar	2025	Construction and Mining - Misc - Rough Terrain Forklifts	Aggregate	175	Gasoline	6.27E-06	5.77E-06	6.90E-06	2.96E-04	2.47E-05	8.44E-03	6.05E-07	4.57E-07	8.38E-08	1.20E-07	3.43E+02	0.00E+00	0.00E+00	0.00E+00								
San Bernar	2025	Construction and Mining - Misc - Rubber Tired Loaders	Aggregate	100	Gasoline	7.89E-05	7.26E-05	8.68E-05	3.95E-03	2.02E-04	7.76E-02	5.41E-06	4.09E-06	7.49E-07	1.11E-06	3.18E+03	8.43E+02	1.66E+00	6.07E+04								
San Bernar	2025	Construction and Mining - Misc - Skid Steer Loaders	Aggregate	100	Gasoline	6.25E-05	5.75E-05	6.88E-05	3.26E-03	1.61E-04	1.38E-01	9.61E-06	7.26E-06	1.33E-06	1.90E-06	5.42E+03	1.27E+03	4.10E+00	1.02E+05								
San Bernar	2025	Construction and Mining - Misc - Tractors/Loaders/Backh	Aggregate	100	Gasoline	4.41E-05	4.06E-05	4.85E-05	3.08E-03	1.15E-04	5.44E-02	3.79E-06	2.86E-06	5.25E-07	7.89E-07	2.25E+03	7.67E+02	8.90E-01	4.83E+04								
San Bernar	2025	Construction and Mining - Misc - Trenchers	Aggregate	100	Gasoline	6.09E-05	5.60E-05	6.70E-05	2.74E-03	1.62E-04	6.21E-02	4.33E-06	3.27E-06	6.00E-07	8.81E-07	2.51E+03	6.17E+02	1.51E+00	4.07E+04								
San Bernar	2025	Portable Equipment - Non-Rental Generator	Aggregate	75	Diesel	2.38E-04	2.88E-04	3.42E-04	3.68E-03	2.63E-03	5.04E-01	2.82E-05	2.60E-05	4.66E-06	4.12E-06	1.64E+04	1.69E+04	1.22E+01	1.02E+06	7.40E-01	1.02E-01	9.29E-01	1.30E+00	1.65E-03	9.98E-03	9.18E-03	1.78E+02
San Bernar	2025	Portable Equipment - Non-Rental Generator	Aggregate	100	Diesel	5.23E-04	6.32E-04	7.53E-04	7.09E-03	4.69E-03	9.16E-01	3.57E-04	3.29E-04	8.48E-06	7.50E-06	2.98E+04	1.99E+04	1.44E+01	1.86E+06	7.40E-01	1.42E-01	1.05E+00	1.59E+00	1.90E-03	8.01E-02	7.37E-02	2.06E+02
San Bernar	2025	Portable Equipment - Non-Rental Generator	Aggregate	175	Diesel	5.82E-04	7.04E-04	8.38E-04	1.39E-02	4.36E-03	2.13E+00	1.72E-04	1.58E-04	1.97E-05	1.74E-05	6.93E+04	2.61E+04	1.88E+01	4.33E+06	7.40E-01	6.90E-02	4.28E-01	1.36E+00	1.93E-03	1.69E-02	1.55E-02	2.09E+02
San Bernar	2025	Portable Equipment - Rental Generator	Aggregate	75	Diesel	6.46E-04	7.82E-04	9.30E-04	1.06E-02	7.51E-03	1.48E+00	5.72E-05	5.27E-05	1.37E-05	1.21E-05	4.82E+04	4.60E+04	3.10E+01	3.01E+06	7.40E-01	1.01E-01	9.74E-01	1.37E+00	1.78E-03	7.42E-03	6.83E-03	1.92E+02
San Bernar	2025	Portable Equipment - Rental Generator	Aggregate	100	Diesel	2.14E-04	2.60E-04	3.09E-04	4.48E-03	2.31E-03	6.07E-01	1.93E-04	1.77E-04	5.62E-06	4.97E-06	1.97E+04	1.31E+04	8.85E+00	1.23E+06	7.40E-01	8.83E-02	7.86E-01	1.53E+00	1.91E-03	6.56E-02	6.04E-02	2.07E+02
San Bernar	2025	Portable Equipment - Rental Generator	Aggregate	175	Diesel	6.89E-04	8.33E-04	9.92E-04	2.15E-02	3.76E-03	3.45E+00	1.05E-04	9.64E-05	3.19E-05	2.82E-05	1.12E+05	5.42E+04	3.65E+01	7.02E+06	7.40E-01	3.93E-02	1.78E-01	1.01E+00	1.51E-03	4.94E-03	4.55E-03	1.63E+02

Construction Emissions Equation

CARB OFFROAD Methodology

Daily Emissions

E = EF * Pop * Avg HP * Load * Activity / CF
E = Emissions (pounds/day)
EF = Emission Factor (grams/hp*h)
Pop = population (number of same equipment)
Avg Hp = maximum rated average horsepower
Load = load factor
Activity = hours of operation (hours/day)
CF = conversation factor = 453.6 grams/pound

Annual Emissions

E = Daily E * Activity / CF
E = Emissions (tons/year)
Daily E = Daily Emissions (pounds/day)
Activity = annual days of operation (days/year)
CF for pollutants = 2000 pounds/ton
CF for GHG emissions = 2204.62 pounds/MT

				Unmitigated EF (g/hph)							Mitigated EF (g/hph)						
Vehicle Category	**Equipment**	**HP**	**LF**	**ROG**	**NOX**	**CO**	**SO2**	**PM10 exhaust**	**PM2.5 exhaust**	**CO2**	**ROG**	**NOX**	**CO**	**SO2**	**PM10 exhaust**	**PM2.5 exhaust**	**CO2**
Construction and Mining - Bore/Drill Rigs	Bore/Drill Rigs	83	0.5	0.079902	0.706610508	1.222403	0.003691	0.025608	0.023559606	398.43404	0.079902098	0.3	1.222403	0.003691	0.020	0.01	398.4340404
Construction and Mining - Cranes	Cranes	367	0.29	0.185677	1.802044708	1.46869	0.003377	0.084262	0.07752142	364.833562	0.15	0.3	1.46869	0.003377	0.020	0.01	364.8335625
Construction and Mining - Crawler Tractors	Crawler Tractors	87	0.43	0.187258	1.72843421	1.556466	0.003468	0.089828	0.082641544	374.656465	0.15	0.3	1.556466	0.003468	0.020	0.01	374.6564653
Construction and Mining - Excavators	Excavators	36	0.38	0.09693	0.733330343	1.258794	0.003357	0.029119	0.02678912	362.461828	0.096929794	0.3	1.258794	0.003357	0.020	0.01	362.4618278
Generator Sets	Generator Sets	14	0.74	0.092455	0.66020719	1.412827	0.001886	0.032226	0.02964766	203.676415	0.092454819	0.3	1.412827	0.001886	0.020	0.01	203.6764151
Construction and Mining - Graders	Graders	148	0.41	0.213529	2.006556344	1.541917	0.003672	0.087742	0.080722254	396.722569	0.15	0.3	1.541917	0.003672	0.020	0.01	396.7225688
Light Carts	Generator Sets	14	0.74	0.061274	0.457387115	1.166144	0.001624	0.012259	0.01127783	175.326299	0.061273575	0.3	1.166144	0.001624	0.012258511	0.01	175.3262989
Construction and Mining - Off-Highway Tractors	Off-Highway Tractors	38	0.44	0.127599	1.005935881	1.499039	0.003469	0.046646	0.042914287	374.574023	0.127599233	0.3	1.499039	0.003469	0.02	0.01	374.5740234
Construction and Mining - Off-Highway Trucks	Off-Highway Trucks	376	0.38	0.139715	0.905240844	1.053888	0.003473	0.034527	0.031765131	375.077173	0.139714625	0.905240844	1.053888	0.003473	0.034527316	0.031765	375.0771726
Construction and Mining - Off-Highway Trucks	Off-Highway Trucks	376	0.38	0.139715	0.905240844	1.053888	0.003473	0.034527	0.031765131	375.077173	0.139714625	0.3	1.053888	0.003473	0.02	0.01	375.0771726
Construction and Mining - Off-Highway Trucks	Off-Highway Trucks	376	0.38	0.139715	0.905240844	1.053888	0.003473	0.034527	0.031765131	375.077173	0.139714625	0.3	1.053888	0.003473	0.02	0.01	375.0771726
Construction and Mining - Other	Other Construction Equipment	82	0.42	0.15212	1.439633121	1.413409	0.003505	0.069155	0.063622539	378.535645	0.15	0.3	1.413409	0.003505	0.02	0.01	378.5356447
Track Laying Machine	Track Laying Machine	525	0.42	3	2.6	2.6	0.003	1.5	1.38	378.5356	3	2.6	2.6	0.003	1.5	1.38	378.5356
Construction and Mining - Pavers	Pavers	81	0.42	0.160184	1.51396942	2.040685	0.003946	0.079041	0.072718073	426.128489	0.15	0.3	2.040685	0.003946	0.02	0.01	426.1284895
Construction and Mining - Paving Equipment	Paving Equipment	89	0.36	0.138657	1.282857551	1.88697	0.003846	0.057606	0.052997617	415.327569	0.138656895	0.3	1.88697	0.003846	0.02	0.01	415.3275691
Construction and Mining - Rollers	Rollers	36	0.38	0.156272	1.557383642	2.457867	0.003979	0.07446	0.06850337	429.711649	0.15	0.3	2.457867	0.003979	0.02	0.01	429.7116494
Construction and Mining - Rough Terrain Forklifts	Rough Terrain Forklifts	96	0.4	0.116845	1.528548175	2.901934	0.004497	0.041483	0.038164087	485.430716	0.116845147	0.3	2.6	0.004497	0.02	0.01	485.4307156
Construction and Mining - Rubber Tired Dozers	Rubber Tired Dozers	367	0.4	0.262996	2.461658083	1.941927	0.003189	0.119988	0.110389413	344.754512	0.15	0.3	1.941927	0.003189	0.02	0.01	344.7545123
Construction and Mining - Rubber Tired Loaders	Rubber Tired Loaders	150	0.36	0.149783	1.15299495	1.408525	0.003385	0.0512	0.047103664	365.618761	0.149783206	0.3	1.408525	0.003385	0.02	0.01	365.6187608
Construction and Mining - Scrapers	Scrapers	423	0.48	0.160013	1.5101463	1.272675	0.003534	0.062331	0.057344878	381.707659	0.15	0.3	1.272675	0.003534	0.02	0.01	381.7076595
Construction and Mining - Scrapers	Scraper	637	0.36	0.160013	1.5101463	1.272675	0.003534	0.062331	0.057344878	381.707659	0.160012829	1.5101463	1.272675	0.003534	0.06233139	0.057345	381.7076595
Construction and Mining - Skid Steer Loaders	Skid Steer Loaders	71	0.37	0.130297	1.736976541	3.023413	0.004564	0.05278	0.04855772	492.727839	0.130296692	0.3	2.6	0.004564	0.02	0.01	492.727839
Construction and Mining - Surfacing Equipment	Surfacing Equipment	399	0.3	0.09811	1.021144785	1.120213	0.003683	0.040594	0.037346163	397.601365	0.098109506	0.3	1.120213	0.003683	0.02	0.01	397.6013652
Construction and Mining - Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	84	0.37	0.154391	1.473028209	2.475177	0.003867	0.06077	0.05590816	417.637762	0.15	0.3	2.475177	0.003867	0.02	0.01	417.6377618
Construction and Mining - Trenchers	Trenchers	40	0.5	0.248443	2.364225373	1.996064	0.00378	0.136694	0.125758321	408.419389	0.15	0.3	1.996064	0.00378	0.02	0.01	408.419389

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (MD)
Calendar Year: 2025
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Vehicle Category	**Horsepower Bin**	**Fuel Consumption**	**Total_Activity_hpy**	**Total_Population**	**Horsepower_Hours_hhpy**	**ROG**	**NOX**	**CO**	**SO2**	**PM10 exhaust**	**PM2.5 exhaust**	**CO2**
Construction and Mining - Bore/Drill Rigs	75	455.9147661	266.78079	0.806468	18602.05215	5206.766	81183.79	57828.59	79.86386718	4438.81496	4083.709762	8630056.694
Construction and Mining - Bore/Drill Rigs	100	5783.196092	2733.8747	6.50215	224773.6698	26348.91	324058.9	603481.7	896.6883718	9441.03121	8685.748714	96809885.1
Construction and Mining - Bore/Drill Rigs	175	7320.913692	1876.8403	5.771288	280222.1031	27670.89	216273.8	709293.9	1178.073933	9612.03139	8843.068877	127170759.3
Construction and Mining - Bore/Drill Rigs	300	10537.81828	1952.7254	5.846894	407200.0612	32220.3	300134.4	300207.6	1381.554878	9864.71151	9075.534586	149135511
Construction and Mining - Bore/Drill Rigs	600	15173.28271	1524.0603	4.687596	591441.6564	39323.56	317362.4	377741	1851.110952	11342.8165	10435.39115	199812662.9
Construction and Mining - Bore/Drill Rigs	750	12175.48491	731.34785	1.1845	466315.541	28119.3	166120.7	382263.9	1952.760373	6224.04499	5726.12139	210749161.6
	2000			24.7989	1988555.084	158889.7	1405134	2430817	7340.052375	50923.4505	46849.57448	792308036.6
						0.079902	0.706611	1.222403	0.003691149	0.02560827	0.023559606	398.4340404
Construction and Mining - Cranes	75	171.0281741	167.24876	0.474777	11531.32451	14478.78	102389.5	49454.06	50.79951879	10336.0378	9509.154804	5519244.743
Construction and Mining - Cranes	100	7397.19229	5622.5741	12.09099	497776.0224	167581.7	1560254	1631605	2126.733819	90240.1312	83020.92067	229891361.6

Vehicle Category	Horsepower Bin	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	ROG	NOX	CO	SO2	PM10 exhaust	PM2.5 exhaust	CO2
Construction and Mining - Cranes	175	21324.55974	9694.1138	20.82688	1428884.99	425758.2	3971139	4020134	5833.660124	215875.418	198605.3847	630504434.9
Construction and Mining - Cranes	300	36362.50137	11153.854	22.9792	2441693.376	478260.6	4907358	2719722	8621.778465	208137.087	191486.1203	931441580.5
Construction and Mining - Cranes	600	66215.05709	12163.661	23.96041	4446078.754	541200.8	5246310	4474559	13112.00884	212831.104	195804.6159	1416039345
Construction and Mining - Cranes	750	1287.523247	136.56977	0.316518	86513.88572	27560.14	273234.3	194195.4	353.1674534	13567.1492	12481.7773	38175260.95
	2000			80.64877	8912478.353	1654840	16060684	13089670	30098.14822	750986.928	690907.9736	3251571228
						0.185677	1.802045	1.46869	0.00337708	0.08426241	0.07752142	364.8335625
Construction and Mining - Crawler Tractors	75	175.9714537	112.04533	0.505653	7934.628673	14570.22	115387.9	47233.18	36.10058375	8460.02659	7783.22446	3933691.762
Construction and Mining - Crawler Tractors	100	44661.119	22977.698	47.7561	2011449.737	778485	6805552	6579250	8560.098392	489039.516	449916.3545	925590265.4
Construction and Mining - Crawler Tractors	175	48910.38543	14770.007	31.71567	2206971.813	561814.9	5068295	6034523	9150.464793	283214.45	260557.294	988702506
Construction and Mining - Crawler Tractors	300	51251.80666	11262.517	24.4118	2313460.158	437564.3	4635116	2762504	7690.009561	193351.99	177883.8312	830808648.2
Construction and Mining - Crawler Tractors	600	179291.9952	20986.033	43.17714	8080749.066	933047.7	8428502	7330342	25226.5266	334587.041	307820.0777	2724064668
Construction and Mining - Crawler Tractors	750	1806.845503	132.45017	0.30901	82010.75853	27692.92	359583.5	130213.2	326.6561277	12046.5408	11082.81755	35315436.39
	2000			147.8754	14702576.16	2753175	25412436	22884065	50989.85606	1320699.56	1215043.599	5508415215
						0.187258	1.728434	1.556466	0.00346809	0.08982777	0.082641544	374.6564653
Construction and Mining - Excavators	75	3108.718404	2113.4322	2.842948	157577.0318	35306.53	395775.6	526092.3	766.5465656	21861.5804	20112.65394	82793470.27
Construction and Mining - Excavators	100	49498.28374	30830.28	46.72568	2520244.619	408626.4	4234129	7165010	10037.52694	166938.122	153583.072	1083993630
Construction and Mining - Excavators	175	111223.2054	38522.433	63.36115	5628551.855	751269.2	5496341	14537281	23040.86906	270830.194	249163.7787	2487778334
Construction and Mining - Excavators	300	141664.4556	32767.728	54.60712	7166503.083	696532.5	5181123	5772252	25628.16691	171989.654	158230.4812	2766763073
Construction and Mining - Excavators	600	251454.7345	37718.315	57.28118	12751607.89	828874.2	5157758	7531858	35162.27518	182038.157	167475.1044	3795706260
Construction and Mining - Excavators	750	3672.14759	302.1265	0.506664	185012.0018	33117.89	368420.1	229203.2	743.7041492	13587.3121	12500.32716	80323257.29
	2000			225.3247	28409496.49	2753727	20833546	35761696	95379.0888	827245.019	761065.4175	10297358024
						0.09693	0.73333	1.258794	0.003357296	0.02911861	0.02678912	362.4618278
Construction and Mining - Graders	75	89.86875549	59.11506	0.169716	4124.605861	5663.759	44087.82	19189.35	19.10116859	3792.72459	3489.306627	2075883.077
Construction and Mining - Graders	100	6078.123826	3240.7732	7.608935	290245.0678	138311.2	1092881	1028695	1249.408965	80428.2184	73993.96093	135162698.7
Construction and Mining - Graders	175	67790.21394	21520.935	45.22932	3186872.848	912665.3	7684371	9190765	13179.43405	427689.425	393474.2711	1424307136
Construction and Mining - Graders	300	140269.8582	30854.941	39.62869	6637782.917	1125901	11601437	5755351	23122.06671	386417.802	355504.3776	2497540439
Construction and Mining - Graders	600	8819.130495	1257.7799	1.527444	418921.4594	67619.66	722207.3	254640.4	1125.032279	26287.9441	24184.9086	121555206.3
	1250			94.16411	10537946.9	2250161	21144984	16248640	38695.04317	924616.114	850646.8248	4180641363
						0.213529	2.006556	1.541917	0.003671972	0.08774158	0.080722254	396.7225688
Construction and Mining - Off-Highway Tractors	75	8662.024169	5485.3703	9.248526	385473.9676	129390.5	1180968	1362267	1737.346493	68845.4472	63337.81143	187780075.8
Construction and Mining - Off-Highway Tractors	100	12843.70046	7200.7381	9.915086	568318.2975	94609.97	1003392	1560430	2171.582488	48235.951	44377.07494	234534681.6
Construction and Mining - Off-Highway Tractors	175	18297.99023	5128.0482	7.276618	812989.808	127267.1	979457.6	2282330	3551.837596	46963.5944	43206.50688	383531135
Construction and Mining - Off-Highway Tractors	300	15422.64749	3207.6211	4.80479	684813.5915	75806.03	556791.2	548937	2351.908776	20045.8224	18442.15657	253938922
Construction and Mining - Off-Highway Tractors	600	51761.97113	6429.5494	9.081885	2303342.969	171426.9	1020388	1430156	6623.681564	35008.6751	32207.9811	715055762
Construction and Mining - Off-Highway Tractors	750	2165.326514	152.16499	0.222187	96814.55518	20579.55	139555.4	88848.9	393.4282764	7215.2135	6637.996419	42500136
	2000			40.54909	4851753.188	619080	4880553	7272969	16829.78519	226314.704	208209.5273	1817340712
						0.127599	1.005936	1.499039	0.003468805	0.04664596	0.042914287	374.5740234
Construction and Mining - Off-Highway Trucks	75	449.9142779	323.78188	0.220145	23012.03414	5128.248	35792.58	85574.18	105.7446949	583.281053	536.6185685	11422004.99
Construction and Mining - Off-Highway Trucks	100	1177.980488	673.29969	0.467808	59384.24009	16246.62	141699.2	204129.2	257.5916464	8194.35246	7538.804262	27833783.87
Construction and Mining - Off-Highway Trucks	175	38490.96773	12379.66	8.613175	1953209.474	385284	2427819	5912988	8607.730911	119522.59	109960.7832	929677359.7
Construction and Mining - Off-Highway Trucks	300	78384.87845	18924.142	14.50205	3980795.912	523853	3223658	3463006	13635.17606	123930.81	114016.3449	1472434944
Construction and Mining - Off-Highway Trucks	600	336010.6082	45229.425	32.3338	16987999.98	1896814	11606340	12548980	52184.46008	411438.864	378523.7549	5635004682
Construction and Mining - Off-Highway Trucks	750	114989.5224	8738.1712	6.934569	5812499.187	1198817	8650927	8155107	25295.24179	331300.35	304796.3224	2732188910
	2000			63.07155	28816900.83	4026142	26086236	30369784	100085.9452	994970.248	915372.6282	10808561684
						0.139715	0.905241	1.053888	0.003473168	0.03452732	0.031765131	375.0771726
Construction and Mining - Other	75	1714.749113	1104.0104	3.478059	80654.73509	75963.03	662521.3	350154	373.3831337	50762.7716	46701.74985	40485703.68
Construction and Mining - Other	100	26796.5808	15150.433	32.3706	1247516.832	302382.9	2936987	3568323	4949.795313	175047.29	161043.5065	534818492.3
Construction and Mining - Other	175	15523.19503	4763.4993	11.22838	724409.6383	148200	1365512	1959248	3027.039715	71073.3383	65387.47127	326969202
Construction and Mining - Other	300	21015.49646	4412.828	10.51634	976792.0607	148338	1545815	975394.1	3480.074823	60380.7046	55550.2482	375845355
Construction and Mining - Other	600	80798.2395	9722.2588	21.14222	3756749.714	373217.3	3380279	3036722	11681.41997	128216.092	117958.8047	1261250647
Construction and Mining - Other	750	12551.42408	945.57846	1.862268	583185.701	72916.39	717986.8	526009	2317.107145	24143.858	22212.34937	250176611.7
	2000			80.59786	7369308.681	1121018	10609101	10415850	25828.8201	509624.054	468854.1299	2789546012
						0.15212	1.439633	1.413409	0.003504918	0.06915493	0.063622539	378.5356447
Construction and Mining - Pavers	75	1835.172388	1193.4465	3.049076	85965.09323	49373.39	400560.1	302588.3	394.7607356	34267.3204	31525.93477	42720907.55
Construction and Mining - Pavers	100	8898.261818	5117.911	12.88303	415207.4466	82580.79	881471.5	1147838	1619.842463	46420.8456	42707.17799	174977921.4
Construction and Mining - Pavers	175	14688.67878	4323.9991	10.90525	682859.7656	112545.5	1021668	1836760	2975.276175	48611.021	44722.1393	321289311.7
Construction and Mining - Pavers	300	11165.82271	2371.2597	5.136732	519241.2616	41100.15	400721.9	374755.4	1830.044245	13506.7967	12426.25296	197544629
Construction and Mining - Pavers	600	2421.237804	311.2792	0.686729	112735.0844	7262.937	70096.94	65947.31	328.1714056	2137.17835	1966.204079	35424265.53
Construction and Mining - Pavers	750	430.559443	26.721597	0.054938	20041.19743	1243.909	5204.643	18909.66	96.70266082	180.758827	166.2981213	10436113.34
	2000			32.71576	1836049.849	294106.6	2779723	3746799	7244.797684	145123.921	133514.0072	782393148.6
						0.160184	1.513969	2.040685	0.003945861	0.07904138	0.072718073	426.1284895
Construction and Mining - Paving Equipment	75	160.0822395	129.9175	0.411375	8781.247124	6936.791	51974.55	32658.89	37.6427449	5165.26598	4752.044705	4079649.934
Construction and Mining - Paving Equipment	100	5922.740693	3616.4178	7.541869	322590.7191	57443.15	628950.5	970097.8	1383.374229	25389.9136	23358.72054	149399259.2
Construction and Mining - Paving Equipment	175	6139.636004	2290.7895	4.854221	334881.2377	54483.49	468064.2	852122.3	1342.963372	24516.2168	22554.91942	145031609.1

Vehicle Category	Horsepower Bin	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	ROG	NOX	CO	SO2	PM10 exhaust	PM2.5 exhaust	CO2
Construction and Mining - Paving Equipment	300	4057.825605	963.77736	2.029448	220633.93	25540.35	231987.3	182979.1	810.9971255	9263.61056	8522.52172	87562904.91
Construction and Mining - Paving Equipment	600	4652.007318	643.79478	1.316399	253704.2289	16406.87	114932.5	164639.6	800.4594313	3644.35536	3352.806928	86401613.06
Construction and Mining - Paving Equipment	750	861.0321515	73.470807	0.137125	46866.20054	3838.534	27429.84	38199.61	191.8572635	425.443145	391.4076938	20708827.06
	2000			16.29044	1187457.563	164649.2	1523339	2240697	4567.294167	68404.8054	62932.421	493183863.2
						0.138657	1.282858	1.88697	0.00384628	0.05760611	0.052997617	415.3275691
Construction and Mining - Rollers	75	228.1475775	165.78087	0.706386	11763.81074	20679.54	166059.7	67817.07	53.08887607	11875.9858	10925.9069	5782818.577
Construction and Mining - Rollers	100	35471.84394	20946.049	61.45554	1827322.248	384054.1	4094358	5373238	7674.812904	202680.879	186466.4084	829026022.5
Construction and Mining - Rollers	175	36918.8475	13242.41	35.9409	1903962.29	195525.5	1698813	4488372	7527.161976	76250.5284	70150.48616	812592388.4
Construction and Mining - Rollers	300	6241.940283	1479.8595	4.662145	321520.2492	47927.5	500156.2	350027.4	1121.33581	19948.6736	18352.77972	121103738.5
Construction and Mining - Rollers	600	3447.067342	503.11179	1.610559	177008.5582	14653.79	146375.4	145780.1	501.5604589	5072.5501	4666.746089	54150147.89
	1250			104.3755	4241577.156	662840.4	6605763	10425235	16877.96003	315828.617	290562.3272	1822655116
						0.156272	1.557384	2.457867	0.003979171	0.07446018	0.06850337	429.7116494
Construction and Mining - Rough Terrain Forklifts	75	38.63998605	29.883389	0.13043	1850.95261	2256.111	18548.53	7777.88	7.471970296	1357.87795	1249.247711	812149.7602
Construction and Mining - Rough Terrain Forklifts	100	91495.45599	45637.33	157.5264	4393376.249	503487.8	7201506	13690793	20765.85392	153959.13	141642.3994	2241675091
Construction and Mining - Rough Terrain Forklifts	175	19395.98033	7402.3947	26.08592	933051.7757	120981	993207.9	1987363	3292.644378	67997.5983	62557.79045	355551208.1
Construction and Mining - Rough Terrain Forklifts	300	1515.381549	344.02247	1.336904	72823.49799	6063.275	72610.75	51370.65	252.0923422	1736.93535	1597.980525	27213251.51
Construction and Mining - Rough Terrain Forklifts	600	499.1023195	60.034618	0.228252	24007.34264	1187.436	8473.835	15392.43	78.44238634	147.557878	135.753248	8465948.885
Construction and Mining - Rough Terrain Forklifts	750	93.89308151	7.2317035	0.032607	4519.814719	450.2928	5103.35	3729.304	18.44686946	36.616917	33.68756367	1991348.696
	2000			185.3405	5429629.633	634425.9	8299450	15756426	24414.95187	225235.716	207216.8589	2635708998
						0.116845	1.528548	2.901934	0.004496615	0.0414827	0.038164087	485.4307156
Construction and Mining - Rubber Tired Dozers	75	1247.9802	838.46523	1.048412	61033.79763	39617.55	316599.3	249221.9	284.7536777	22553.3516	20749.08343	30826678.58
Construction and Mining - Rubber Tired Dozers	100	3004.501691	1743.8058	1.989295	145911.7428	71331.68	593034.2	501510.5	591.290131	42855.6285	39427.17825	63982255.96
Construction and Mining - Rubber Tired Dozers	175	4557.249809	1562.8639	1.93553	222789.5767	93695.06	802108.9	661307.6	873.4097395	51972.1381	47814.36701	94478605.31
Construction and Mining - Rubber Tired Dozers	300	4664.977694	1044.17	1.451648	227868.2717	70384.12	753302.5	423386.6	798.778407	32861.0686	30232.18314	86364635.92
Construction and Mining - Rubber Tired Dozers	600	51049.07623	6753.6829	9.059357	2476651.752	554782.1	5245167	4341324	7346.519484	230320.533	211894.8903	794064690.5
Construction and Mining - Rubber Tired Dozers	750	1889.52827	138.79786	0.134412	92416.65988	18792.1	232750.4	89211.87	395.2583893	6600.76635	6072.705039	42692796.96
	2000			15.61865	3226671.801	848602.6	7942963	6265962	10290.00983	387163.486	356190.4072	1112409663
						0.262996	2.461658	1.941927	0.003189048	0.11998849	0.110389413	344.7545123
Construction and Mining - Rubber Tired Loaders	75	7.754620562	6.5758828	0.02802	414.2806136	682.2727	5403.214	2211.766	1.690465044	396.153683	364.4613886	184201.1327
Construction and Mining - Rubber Tired Loaders	100	77211.48195	48428.582	51.21977	4165502.946	1255929	10609223	13646841	17376.43177	637385.538	586394.6949	1878019258
Construction and Mining - Rubber Tired Loaders	175	183277.3892	65523.806	67.8634	9826022.278	1905681	13560007	27780338	41118.88279	718396.434	660924.719	4441216361
Construction and Mining - Rubber Tired Loaders	300	266256.1429	68354.131	62.67978	14260804.99	1783831	14875969	11557168	48490.01292	494617.034	455047.6709	5236126294
Construction and Mining - Rubber Tired Loaders	600	345746.7449	55919.926	55.56281	18502192.02	2015061	14960664	12934304	49925.18045	561177.32	516283.1341	5391578134
Construction and Mining - Rubber Tired Loaders	750	30320.47315	2505.5428	2.521761	1625480.922	285389.8	1771110	2224141	6867.490968	65087.2297	59880.25128	741664021.1
	2000			239.8755	48380417.43	7246574	55782377	68145004	163779.6894	2477059.71	2278894.932	17688788269
						0.149783	1.152995	1.408525	0.003385248	0.05119963	0.047103664	365.6187608
Construction and Mining - Scrapers	75	588.7014832	350.74287	0.748012	23444.05428	12376.06	97636.73	81727.62	102.8337364	7819.94813	7194.352283	11127342.37
Construction and Mining - Scrapers	100	2671.64408	1170.53	1.9947	106632.2128	52654.26	537516.9	393891.5	477.1442651	38984.4166	35865.66329	51617647.04
Construction and Mining - Scrapers	175	30656.00872	7332.7985	16.48398	1219548.544	352369	3188570	3909815	5718.679852	165959.437	152682.6821	617903460.7
Construction and Mining - Scrapers	300	44770.7363	8243.2215	19.00506	1796839.876	370896.5	3560644	2275991	6385.755391	160966.081	148088.7944	689920598.1
Construction and Mining - Scrapers	600	501686.9717	47670.635	97.01998	20066557.38	2892951	27014380	22299968	69120.18944	1046217.14	962519.7666	7464783770
Construction and Mining - Scrapers	750	12178.47175	794.59239	1.551433	488074.0394	111232.5	1393376	1202410	1958.003254	57375.2368	52785.21789	211537105.3
	2000			136.8032	23701096.11	3792479	35792123	30163803	83762.60594	1477322.26	1359136.477	9046889923
						0.160013	1.510146	1.272675	0.003534124	0.06233139	0.057344878	381.7076595
Construction and Mining - Skid Steer Loaders	75	91820.40694	68190.011	186.0953	4812999.403	627708	8399329	14656204	22022.03998	254023.995	233702.0753	2377531247
Construction and Mining - Skid Steer Loaders	100	32.50742991	20.138879	0.085811	1705.091791	2493.464	20710.61	8411.116	6.957359756	1392.50688	1281.106332	757265.7791
Construction and Mining - Skid Steer Loaders	175	620.8644202	214.27768	0.772299	32624.25743	3077.354	28417.49	81364.15	137.6807367	1095.06245	1007.457457	14861945.5
Construction and Mining - Skid Steer Loaders	300	576.8658138	147.38303	0.486262	30258.56564	2236.183	24648.16	20514.33	100.6251477	761.332341	700.4257539	10861945.8
Construction and Mining - Skid Steer Loaders	600	166.564098	18.460639	0.057207	8728.190342	1155.718	14309.72	6857.057	33.44467984	627.473349	577.2754809	3611277.396
	1250			187.4969	4886315.508	636670.7	8487415	14773350	22300.7479	257900.37	237268.3403	2407623681
						0.130297	1.736977	3.023413	0.004563919	0.05278013	0.04855772	492.727839
Construction and Mining - Surfacing Equipment	75	97.63878912	97.075273	0.389241	6233.051638	3268.967	33145.37	20462.95	26.21103766	2158.59117	1985.903881	2836527.052
Construction and Mining - Surfacing Equipment	100	997.3758676	704.28293	2.439246	63408.23038	7769.521	109268.6	187369.4	282.2492842	3338.1347	3071.083922	30471303.22
Construction and Mining - Surfacing Equipment	175	816.3789023	379.04423	1.505067	52300.33864	11113.29	108709.6	128730.6	202.1848977	6092.45674	5605.060197	21842484.77
Construction and Mining - Surfacing Equipment	300	1572.484241	447.40495	1.79051	100738.3446	12661.02	154349.3	98425.28	370.9056886	5233.865	4815.1558	40049101.27
Construction and Mining - Surfacing Equipment	600	5626.826874	895.29711	3.062032	361344.8652	25674.88	242574.6	260778.7	1189.889296	8801.72519	8097.587179	128440123.1
Construction and Mining - Surfacing Equipment	750	2470.964897	247.52977	0.804432	158523.0175	12363.32	110201.3	136044.7	663.3479615	4517.95844	4156.521765	71598498.63
	2000			9.990528	742547.8479	72851	758248.9	831811.6	2734.788166	30142.7312	27731.31274	295238038.1
						0.09811	1.021145	1.120213	0.003682979	0.04059366	0.037346163	397.6013652
Construction and Mining - Tractors/Loaders/Backhoes	75	4348.021598	3209.3666	13.47608	228409.7026	347458.1	2724445	1156316	1043.630657	219861.864	202272.9147	113521698.8
Construction and Mining - Tractors/Loaders/Backhoes	100	547128.8972	343038.12	534.7667	28598582.22	4654211	47719864	82675692	116212.3021	1837398.43	1690406.553	12550036933
Construction and Mining - Tractors/Loaders/Backhoes	175	95401.14578	34974.747	61.33162	5023296.888	665870.2	4856208	12684654	19951.79388	240508.115	221267.4656	2154284406
Construction and Mining - Tractors/Loaders/Backhoes	300	59188.66157	14967.756	25.9956	3111536.25	350619.8	3004369	2621061	10451.18878	113743.689	104644.1939	1128466463
Construction and Mining - Tractors/Loaders/Backhoes	600	77934.18508	12190.899	21.85994	4104622.408	327021.5	2269724	2677426	11145.24884	87596.721	80588.9833	1203282151

Vehicle Category	Horsepower Bin	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	ROG	NOX	CO	SO2	PM10 exhaust	PM2.5 exhaust	CO2
Construction and Mining - Tractors/Loaders/Backhoes	750	2868.23595	247.03942	0.365739	157640.3419	19440.41	149635	221786.4	621.8843129	6068.25451	5582.794149	67144114.59
	2000			657.7956	41224087.81	6364621	60724244	1.02E+08	159426.0485	2505177.07	2304762.905	17216735766
						0.154391	1.473028	2.475177	0.003867303	0.06076974	0.05590816	417.6377618
Construction and Mining - Trenchers	75	843.4672889	464.86892	1.68488	32798.34886	29957.44	237950.4	137844.6	149.0019769	18147.147	16695.37521	16155239.71
Construction and Mining - Trenchers	100	7705.86056	3530.7019	10.25972	295216.2659	96092.94	950143.1	899496.3	1213.589206	59632.7711	54862.14941	131185349.7
Construction and Mining - Trenchers	175	2023.036584	570.89165	1.955665	77939.77479	24945.67	233710.4	207821.3	297.2291883	13946.1212	12830.43152	32133356.65
Construction and Mining - Trenchers	300	4063.998959	691.77805	2.166275	155803.5026	34366.02	370215	181942.9	574.9402432	16163.0592	14870.0145	62119467.78
Construction and Mining - Trenchers	600	6267.52087	623.63823	1.654793	240346.0516	27142.86	249045.3	252165.1	759.0790779	10487.6742	9648.660242	81966002.34
Construction and Mining - Trenchers	750	1764.560683	102.38626	0.21061	67886.06122	3637.925	15788.31	57285.94	294.3094945	545.490405	501.8511723	31761370.08
	2000			17.93194	869990.0049	216142.9	2056852	1736556	3288.149187	118922.263	109408.4821	355320786.2
						0.248443	2.364225	1.996064	0.003779525	0.13669383	0.125758321	408.419389
Portable Equipment - Non-Rental Generator	75	16386.24262	16874.805	12.16834	1024763.649	104173.1	952149.2	1332149	1689.277207	10222.1912	9404.415897	182526658.8
Portable Equipment - Non-Rental Generator	100	29795.40513	19942.951	14.38077	1863346.514	264420.7	1962665	2965089	3543.333737	149318.654	137373.1617	382980558.5
Portable Equipment - Non-Rental Generator	175	69309.37759	26079.244	18.80562	4334473.271	299168.8	1853587	5907019	8386.344373	73212.0886	67355.12147	905562684.1
	350			45.35474	7222583.434	667762.6	4768402	10204258	13618.95532	232752.934	214132.6991	1471069901
						0.092455	0.660207	1.412827	0.001885607	0.03222572	0.02964766	203.6764151
Portable Equipment - Rental Generator	75	48171.18929	46005.54	30.97397	3012532.21	305328.9	2935597	4130210	5355.44508	22361.1393	20572.24818	578589979.2
Portable Equipment - Rental Generator	100	19737.53872	13144.44	8.849705	1234347.169	109042.9	970124	1883674	2360.76371	81026.3113	74544.20643	254983141.8
Portable Equipment - Rental Generator	175	112179.8429	54220.815	36.50503	7015508.543	275715	1245550	7119686	10569.40301	34672.65	31898.838	1141019670
	350			76.32871	11262387.92	690086.8	5151271	13133569	18285.6118	138060.101	127015.2926	1974592791
						0.061274	0.457387	1.166144	0.0016236	0.01225851	0.01127783	175.3262989

Appendix A1.3: Fugitive Dust

Dust from Material Movement Summary - Unmitigated

Pounds/Day

	2025		2026		2027		2028	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main	506.42	154.47	619.07	240.71	19.00	26.23	0.00	0.00
Intermodal Facility	1,555.46	450.09	1,511.70	475.08	59.63	16.76	0.00	0.00
Block Swap Yard	225.68	147.28	1,484.20	1,125.86	1,086.08	234.31	226.37	49.47
North Main	76.84	16.72	140.23	50.81	380.56	75.89	221.61	42.91
Transload Warehouses	0.00	0.00	198.12	48.13	793.80	146.67	0.00	0.00
33 kV Distribution	191.11	34.93	374.84	58.04	241.14	33.84	0.00	0.00
Solar	0.00	0.00	296.29	46.46	114.23	16.66	0.00	0.00
Total	**2,555.51**	**803.48**	**4,624.45**	**2,045.10**	**2,694.43**	**550.35**	**447.98**	**92.39**

Tons/Year

	2025		2026		2027		2028	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main	30.05	8.17	75.16	16.11	0.00	0.00	0.00	0.00
Intermodal Facility	92.26	57.79	221.13	50.64	4.52	0.69	0.00	0.00
Block Swap Yard	6.92	3.07	250.05	165.46	130.05	34.34	15.17	3.31
North Main	4.39	0.85	21.30	6.84	43.68	9.88	14.85	2.88
Transload Warehouses	0.00	0.00	2.69	2.74	11.09	11.20	0.00	0.00
33 kV Distribution	11.95	2.19	58.66	9.08	26.92	3.77	0.00	0.00
Solar	0.00	0.00	46.16	7.22	12.36	1.75	0.00	0.00
Total	**145.57**	**72.07**	**675.17**	**258.09**	**228.62**	**61.63**	**30.01**	**6.19**

Dust from Material Movement Summary - Mitigated

Pounds/Day

	2025		2026		2027		2028	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main	146.41	51.39	188.06	86.72	7.41	10.23	0.00	0.00
Intermodal Facility	522.73	161.09	435.39	164.61	18.62	6.01	0.00	0.00
Block Swap Yard	95.48	58.41	490.70	427.26	304.21	77.68	62.64	15.42
North Main	22.19	5.18	41.34	18.03	107.22	24.88	60.78	12.86
Transload Warehouses	0.00	0.00	55.83	15.90	219.72	46.90	0.00	0.00
33 kV Distribution	51.79	9.73	101.75	16.68	65.98	9.98	0.00	0.00
Solar	0.00	0.00	80.63	13.44	31.68	5.02	0.00	0.00
Total	**838.60**	**285.80**	**1,393.70**	**742.63**	**754.83**	**180.70**	**123.42**	**28.28**

Tons/Year

	2025		2026		2027		2028	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main	8.47	2.63	20.96	5.16	0.00	0.00	0.00	0.00
Intermodal Facility	30.44	21.59	62.11	16.51	1.24	0.21	0.00	0.00
Block Swap Yard	2.45	1.15	45.33	24.25	33.27	7.82	4.20	1.03
North Main	1.20	0.24	6.22	2.39	12.38	3.32	4.07	0.86
Transload Warehouses	0.00	0.00	8.57	2.30	27.40	7.86	0.00	0.00
33 kV Distribution	3.23	0.61	15.92	2.61	7.33	1.11	0.00	0.00
Solar	0.00	0.00	12.54	2.08	3.37	0.51	0.00	0.00
Total	**45.79**	**26.22**	**171.65**	**55.31**	**84.98**	**20.83**	**8.27**	**1.89**

PM Emissions from Concrete Batching

		Tons (Uncontrolled)			Tons (Controlled)	
	Days	**CY**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
Intermodal Facility:	234	876,000	26.0172	9.01229	7.446	6.90016
Warehouse:	286	1,024,000	30.4128	10.5349	8.704	8.06595

Year	**2025**		**2026**		**2027**		**2028**	
Pollutant	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
Intermodal Facility								
Days	0	0	234	234	0	0	0	0
Tons (Uncontrolled)	0	0	26.017	9.012	0	0	0	0
Pounds/Day (Uncontrolled)	0	0	222.369	77.028	0	0	0	0
Tons (Controlled)	0	0	7.446	6.900	0	0	0	0
Pounds/Day (Controlled)	0	0	63.641	58.976	0	0	0	0
Warehouse								
Days	0	0	156	156	130.000	130.000	0	0
Tons (Uncontrolled)	0	0	16.589	5.746	13.824	4.789	0	0
Pounds/Day (Uncontrolled)	0	0	212.677	73.671	212.677	73.671	0	0
Tons (Controlled)	0	0	4.748	4.400	3.956	3.666	0	0
Pounds/Day (Controlled)	0	0	60.867	56.405	60.867	56.405	0	0
Total								
Tons (Uncontrolled)	0.00	0.00	42.606	14.759	13.824	4.789	0.00	0.00
Pounds/Day (Uncontrolled)	0.00	0.00	435.046	150.699	212.677	73.671	0.00	0.00
Tons (Controlled)	0.00	0.00	12.194	11.300	3.956	3.666	0.00	0.00
Pounds/Day (Controlled)	0.00	0.00	124.508	115.381	60.867	56.405	0.00	0.00

Plant Wide Emission Factors Per Yard of Central Mix Concrete

	Uncontrolled (lb/yd^3)			Controlled (lb/yd^3)		
Pollutant	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$
Aggregate delivery to ground storage	0.0064	0.0031	0.0031	0.0064	0.0031	0.0031
Sand delivery to ground storage	0.0015	0.0007	0.0007	0.0015	0.0007	0.0007
Aggregate transfer to conveyor	0.0064	0.0031	0.0031	0.0064	0.0031	0.0031
Sand transfer to conveyor	0.0015	0.0007	0.0007	0.0015	0.0007	0.0007
Aggregate transfer to elevated Storage	0.0064	0.0031	0.0031	0.0064	0.0031	0.0031
Sand transfer to elevated Storage	0.0015	0.0007	0.0007	0.0015	0.0007	0.0007
Cement delivery to silo	0.0002	0.0001	0.0001	0.0002	0.0001	0.0001
Cement supplement delivery to silo	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002
Weigh hopper loading	0.0079	0.0038	0.0038	0.0079	0.0038	0.0038
Central mix loading	0.1613	0.0439	0.005076	0.0051	0.0015	0.000254
Total	0.1934	0.0594	0.020576	0.0372	0.017	0.015754

Source: U.S. EPA, AP-42, Chapter 11.12, Table 11.12-6, Table 18.1, Table 18.3

Plant Wide Emission Factors Per Yard of Truck Mix Concrete

	Uncontrolled (lb/yd^3)			Controlled (lb/yd^3)		
Pollutant	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$
Aggregate delivery to ground storage	0.0064	0.0031	0.0031	0.0064	0.0031	0.0031
Sand delivery to ground storage	0.0015	0.0007	0.0007	0.0015	0.0007	0.0007
Aggregate transfer to conveyor	0.0064	0.0031	0.0031	0.0064	0.0031	0.0031
Sand transfer to conveyor	0.0015	0.0007	0.0007	0.0015	0.0007	0.0007
Aggregate transfer to elevated Storage	0.0064	0.0031	0.0031	0.0064	0.0031	0.0031
Sand transfer to elevated Storage	0.0015	0.0007	0.0007	0.0015	0.0007	0.0007
Cement delivery to silo	0.0002	0.0001	0.0001	0.0002	0.0001	0.0001
Cement supplement delivery to silo	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002
Weigh hopper loading	0.0079	0.0038	0.0038	0.0079	0.0038	0.0038
Truck mix loading	0.3152	0.0874	0.014946	0.02763	0.0074	0.000378
Total	0.3473	0.1029	0.030446	0.05973	0.0229	0.015878

Source: U.S. EPA, AP-42, Chapter 11.12, Table 11.12-5, Table 18.2, Table 18.42

PM Emissions from Grading Equipment Passes

Source: U.S EPA, AP-42, Chapter 11.9

E = EF x VMT

VMT = As / Wb x 43,560 (sf/ac) / 5,280 (ft/mi)

Where:

E =		emissions (lb)
PM_{10} EF =	1.542546	emission factor (lb/VMT)
$PM_{2.5}$ EF =	0.16655879	emission factor (lb/VMT)
VMT =	3162.5	vehicle miles traveled
As =	4600	acreage of the grading site (acre)
Wb =	12	blade width of the grading equipment (CalEEMod default is 12 ft based on Caterpillar's 140 motor grader)

					Work Days								
	Total Acres	Daily Acres Graded	Grader Passes	Trenching (CY)	2025	2025	2026	2026	2027	2027	2028	2028	Total
South Main													
Demo/Site Prep/Mobilization	46.5	3.5		0	34	34	0	0	0	0	0	0	34
Mass Grading	55.02	9	6	36	90	90	100	100	0	0	0	0	190
Bridges and Box Culverts	15	5	6	10,000	90	90	124	124	0	0	0	0	214
Fine Grading/Place Subballast	55.02	10	6	45,000	0	0	22	22	0	0	0	0	22
Track and Signal	160	5.5		9,100	0	0	130	130	0	0	0	0	130
Intermodal Facility													
Demo/Site Prep/Mobilization	387.5	35.5		0	34	34	0	0	0	0	0	0	34
Mass Grading	458.5	92	6	300	126	126	16	16	0	0	0	0	142
Drainage and Underground	34.5	9		450,000	102	102	184	184	0	0	0	0	286
Bridges and Box Culverts	60	8.5	6	40,000	78	78	208	208	0	0	0	0	286
Fine Grading/Place Subballast	458.5	12.5	6	375,000	30	30	112	112	0	0	0	0	142
Buildings/Pavement	400	6	6	750,000	0	0	295	295	15	15	0	0	310
Track and Signal	480	6.5		27,300	0	0	271	271	3	3	0	0	274
Block Swap Yard													
Demo/Site Prep/Mobilization	1085	45.6		0	34	34	0	0	0	0	0	0	34
Mass Grading	1283.8	295.5	6	840	0	0	94	94	0	0	0	0	94
Drainage and Underground	80.5	4		1,050,000	0	0	199	199	39	39	0	0	238
Bridges and Box Culverts	60	10	6	40,000	0	0	199	199	39	39	0	0	238
Fine Grading/Place Subballast	1283.8	29.5	6	1,050,000	0	0	127	127	183	183	0	0	310
Track and Signal	880	9.5		50,050	0	0	0	0	200	200	134	134	334
North Main													
Demo/Site Prep/Mobilization	31	4		0	34	34	0	0	0	0	0	0	34
Mass Grading	36.68	8.6	6	24	0	0	94	94	0	0	0	0	94
Bridges and Box Culverts	15	10.5	6	10,000	0	0	0	0	94	94	0	0	94
Fine Grading/Place Subballast	36.68	4	6	30,000	0	0	0	0	46	46	0	0	46
Track and Signal	80	7.5		4,550	0	0	0	0	20	20	134	134	154
Transload Warehouses													
Warehouse Construction	800	4.5	6	150,000	0	0	151	151	123	123	0	0	274
Civil Site Improvements	800	9.5	6	100,000	0	0	0	0	226	226	0	0	226
33 kV Distribution													
33kV Distribution	70	8.5		100,000	94	94	313	313	109	109	0	0	516
Solar													
Solar	180	5		143,400	0	0	246	246	50	50	0	0	296

		Pounds/Day							
		2025		2026		2027		2028	
Phase	VMT	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
EF (lb/VMT)		1.542546	0.16655879	1.542546	0.16655879	1.542546	0.16655879	1.542546	0.16655879
South Main									
Demo/Site Prep/Mobilization	2.40625	0	0	0	0	0	0	0	0
Mass Grading	6.1875	27.12648328	27.12648328	30.14053697	30.14053697	0	0	0	0
Bridges and Box Culverts	3.4375	13.38014492	13.38014492	18.43486633	18.43486633	0	0	0	0
Fine Grading/Place Subballast	6.875	0	0	63.6300225	63.6300225	0	0	0	0
Track and Signal	3.78125	0	0	0	0	0	0	0	0
Intermodal Facility									
Demo/Site Prep/Mobilization	24.40625	0	0	0	0	0	0	0	0
Mass Grading	63.25	519.436071	519.436071	65.960136	65.960136	0	0	0	0
Drainage and Underground	6.1875	0	0	0	0	0	0	0	0
Bridges and Box Culverts	5.84375	14.75059613	14.75059613	39.334923	39.334923	0	0	0	0
Fine Grading/Place Subballast	8.59375	16.80370313	16.80370313	62.733825	62.733825	0	0	0	0
Buildings/Pavement	4.125	0	0	36.33069027	36.33069027	1.847323234	1.847323234	0	0
Track and Signal	4.46875	0	0	0	0	0	0	0	0
Block Swap Yard									
Demo/Site Prep/Mobilization	31.35	0	0	0	0	0	0	0	0
Mass Grading	203.15625	0	0	1880.267165	1880.267165	0	0	0	0
Drainage and Underground	2.75	0	0	0	0	0	0	0	0
Bridges and Box Culverts	6.875	0	0	53.20325411	53.20325411	10.42676839	10.42676839	0	0
Fine Grading/Place Subballast	20.28125	0	0	76.89996106	76.89996106	110.8086053	110.8086053	0	0
Track and Signal	6.53125	0	0	0	0	0	0	0	0
North Main									
Demo/Site Prep/Mobilization	2.75	0	0	0	0	0	0	0	0
Mass Grading	5.9125	0	0	54.72181935	54.72181935	0	0	0	0
Bridges and Box Culverts	7.21875	0	0	0	0	66.81152363	66.81152363	0	0
Fine Grading/Place Subballast	2.75	0	0	0	0	25.452009	25.452009	0	0
Track and Signal	5.15625	0	0	0	0	0	0	0	0
Transload Warehouses									
Warehouse Construction	3.09375	0	0	15.77978113	15.77978113	12.853729	12.853729	0	0
Civil Site Improvements	6.53125	0	0	0	0	60.44852138	60.44852138	0	0
33 kV Distribution									
33kV Distribution	5.84375	0	0	0	0	0	0	0	0
Solar									
Solar	3.4375	0	0	0	0	0	0	0	0
Total Pounds per Day	--	**591.50**	**591.50**	**2,397.44**	**2,397.44**	**288.65**	**288.65**	**0.00**	**0.00**

Grading	Pounds/Day							
South Main	40.50662819	40.50662819	112.2054258	112.2054258	0	0	0	0
Intermodal Facility	550.9903703	550.9903703	204.3595743	204.3595743	1.847323234	1.847323234	0	0
Block Swap Yard	0	0	2010.37038	2010.37038	121.2353737	121.2353737	0	0
North Main	0	0	54.72181935	54.72181935	92.26353263	92.26353263	0	0
Transload Warehouses	0	0	15.77978113	15.77978113	73.30225037	73.30225037	0	0
33 kV Distribution	0	0	0	0	0	0	0	0
Solar	0	0	0	0	0	0	0	0

		Tons/Year							
		2025		2026		2027		2028	
Phase		PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main									
	Demo/Site Prep/Mobilization	0	0	0	0	0	0	0	0
	Mass Grading	1.220691747	1.220691747	1.507026849	1.507026849	0	0	0	0
	Bridges and Box Culverts	0.602106521	0.602106521	1.142961713	1.142961713	0	0	0	0
	Fine Grading/Place Subballast	0	0	0.699930248	0.699930248	0	0	0	0
	Track and Signal	0	0	0	0	0	0	0	0
Intermodal Facility									
	Demo/Site Prep/Mobilization	0	0	0	0	0	0	0	0
	Mass Grading	32.72447247	32.72447247	0.527681088	0.527681088	0	0	0	0
	Drainage and Underground	0	0	0	0	0	0	0	0
	Bridges and Box Culverts	0.575273249	0.575273249	4.090831992	4.090831992	0	0	0	0
	Fine Grading/Place Subballast	0.252055547	0.252055547	3.5130942	3.5130942	0	0	0	0
	Buildings/Pavement	0	0	5.358776814	5.358776814	0.013854924	0.013854924	0	0
	Track and Signal	0	0	0	0	0	0	0	0
Block Swap Yard									
	Demo/Site Prep/Mobilization	0	0	0	0	0	0	0	0
	Mass Grading	0	0	88.37255675	88.37255675	0	0	0	0
	Drainage and Underground	0	0	0	0	0	0	0	0
	Bridges and Box Culverts	0	0	5.293723784	5.293723784	0.203321984	0.203321984	0	0
	Fine Grading/Place Subballast	0	0	4.883147528	4.883147528	10.13898739	10.13898739	0	0
	Track and Signal	0	0	0	0	0	0	0	0
North Main		0	0	0	0	0	0	0	0
	Demo/Site Prep/Mobilization								
	Mass Grading	0	0	2.571925509	2.571925509	0	0	0	0
	Bridges and Box Culverts	0	0	0	0	3.14014161	3.14014161	0	0
	Fine Grading/Place Subballast	0	0	0	0	0.585396207	0.585396207	0	0
	Track and Signal	0	0	0	0	0	0	0	0
Transload Warehouses									
	Warehouse Construction	0	0	1.191373475	1.191373475	0.790504333	0.790504333	0	0
	Civil Site Improvements	0	0	0	0	6.830682915	6.830682915	0	0
33 kV Distribution									
	33kV Distribution	0	0	0	0	0	0	0	0
Solar									
	Solar	0	0	0	0	0	0	0	0
Total Tons per Year		**35.37**	**35.37**	**119.15**	**119.15**	**21.70**	**21.70**	**0.00**	**0.00**

Grading	Tons/Year							
South Main	1.822798269	1.822798269	3.349918809	3.349918809	0	0	0	0
Intermodal Facility	33.55180127	33.55180127	13.49038409	13.49038409	0.013854924	0.013854924	0	0
Block Swap Yard	0	0	98.54942806	98.54942806	10.34230937	10.34230937	0	0
North Main	0	0	2.571925509	2.571925509	3.725537817	3.725537817	0	0
Transload Warehouses	0	0	1.191373475	1.191373475	7.621187249	7.621187249	0	0
33 kV Distribution	0	0	0	0	0	0	0	0
Solar	0	0	0	0	0	0	0	0

PM Emissions from Trenching

AP-42, 13.2

EF = emission factor (lb/ton)
EF = K*(0.0032)*((U/5)^1.3)/((M/2)^1.4)

K_{PM10} = 0.35 PM_{10} particle size multiplier (AP-42 default)
$K_{PM2.5}$ = 0.053 $PM_{2.5}$ particle size multiplier (AP-42 default)
U = 2.6 mean wind speed (meters/second) *San Bernardino-Mojave Desert
M = 12 material moisture content (%) (The moisture contents of different materials are listed in AP-42 Table 13.2.4-1. CalEEMod uses the moisture content of cover (12%) as default).

EF_{PM10} = 3.89593E-05
$EF_{PM2.5}$ = 5.89954E-06

Pounds per Day

Phase	Tons	2025		2026		2027		2028	
		PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
EF (lb/ton)		3.89593E-05	5.89954E-06	3.89593E-05	5.89954E-06	3.89593E-05	5.89954E-06	3.89593E-05	5.89954E-06
South Main									
Demo/Site Prep/	0	0	0	0	0	0	0	0	0
Mass Grading	45.5099832	1.97004E-05	2.9832E-06	1.77303E-05	2.68488E-06	0	0	0	0
Bridges and Box (	12641.662	0.00547233	0.000828667	0.003971852	0.000601452	0	0	0	0
Fine Grading/Plac	56887.479	0	0	0.100740622	0.015255008	0	0	0	0
Track and Signal	11503.91242	0	0	0.003447568	0.00052206	0	0	0	0
Intermodal Facility									
Demo/Site Prep/	0	0	0	0	0	0	0	0	0
Mass Grading	379.24986	0.000117264	1.77572E-05	0.000923456	0.000139838	0	0	0	0
Drainage and Und	568874.79	0.217283694	0.032902959	0.120450743	0.018239684	0	0	0	0
Bridges and Box (	50566.648	0.025256908	0.003824617	0.00947134	0.001434232	0	0	0	0
Fine Grading/Plac	474062.325	0.615637132	0.093225051	0.164902803	0.024970996	0	0	0	0
Buildings/Pavem	948124.65	0	0	0.125214332	0.018961027	2.462548528	0.372900206	0	0
Track and Signal	34511.73726	0	0	0.004961445	0.000751304	0.448183832	0.067867837	0	0
Block Swap Yard									
Demo/Site Prep/	0	0	0	0	0	0	0	0	0
Mass Grading	1061.899608	0	0	0.000440115	6.6646E-05	0	0	0	0
Drainage and Und	1327374.51	0	0	0.25986693	0.039351278	1.325987669	0.200792418	0	0
Bridges and Box (	50566.648	0	0	0.009899693	0.001499096	0.050513816	0.007649235	0	0
Fine Grading/Plac	1327374.51	0	0	0.407193064	0.061660664	0.282587536	0.042791827	0	0
Track and Signal	63271.51831	0	0	0	0	0.012325055	0.001866366	0.018395605	0.00278562
North Main									
Demo/Site Prep/	0	0	0	0	0	0	0	0	0
Mass Grading	30.3399888	0	0	1.25747E-05	1.90417E-06	0	0	0	0
Bridges and Box (	12641.662	0	0	0	0	0.005239465	0.000793405	0	0
Fine Grading/Plac	37924.986	0	0	0	0	0.032120198	0.004863916	0	0
Track and Signal	5751.95621	0	0	0	0	0.011204596	0.001696696	0.001672328	0.000253238
Transload Warehouses									
Warehouse Const	189624.93	0	0	0.048924805	0.007408613	0.060062159	0.009095127	0	0
Civil Site Improve	126416.62	0	0	0	0	0.021792465	0.003300002	0	0
33 kV Distribution									
33kV Distribution	126416.62	0.05239465	0.007934047	0.015735134	0.002382749	0.045184377	0.006842206	0	0
Solar									
Solar	181281.4331	0	0	0.028709712	0.004347471	0.141251784	0.021389556	0	0
Total		**0.916181678**	**0.138736083**	**1.304883919**	**0.197596708**	**4.899001479**	**0.741848795**	**0.020067933**	**0.003038858**

	Pounds/Day							
South Main	0.00549203	0.00083165	0.108177772	0.016381206	0	0	0	0
Intermodal Facility	0.858294998	0.129970385	0.425924119	0.064497081	2.91073236	0.440768043	0	0
Block Swap Yard	0	0	0.677399801	0.102577684	1.671414076	0.253099846	0.018395605	0.00278562
North Main	0	0	1.25747E-05	1.90417E-06	0.048564259	0.007354016	0.001672328	0.000253238
Transload Warehouses	0	0	0.048924805	0.007408613	0.081854624	0.012395129	0	0
33 kV Distribution	0.05239465	0.007934047	0.015735134	0.002382749	0.045184377	0.006842206	0	0
Solar	0	0	0.028709712	0.004347471	0.141251784	0.021389556	0	0

Tons per Year

Phase	2025		2026		2027		2028	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main								
Demo/Site Prep/Mobilization	0	0	0	0	0	0	0	0
Mass Grading	8.86517E-07	1.34244E-07	8.86517E-07	1.34244E-07	0	0	0	0
Bridges and Box Culverts	0.000246255	3.729E-05	0.000246255	3.729E-05	0	0	0	0
Fine Grading/Place Subballast	0	0	0.001108147	0.000167805	0	0	0	0
Track and Signal	0	0	0.000224092	3.39339E-05	0	0	0	0
Intermodal Facility								
Demo/Site Prep/Mobilization	0	0	0	0	0	0	0	0
Mass Grading	7.38765E-06	1.1187E-06	7.38765E-06	1.1187E-06	0	0	0	0
Drainage and Underground	0.011081468	0.001678051	0.011081468	0.001678051	0	0	0	0
Bridges and Box Culverts	0.000985019	0.00014916	0.000985019	0.00014916	0	0	0	0
Fine Grading/Place Subballast	0.009234557	0.001398376	0.009234557	0.001398376	0	0	0	0
Buildings/Pavement	0	0	0.018469114	0.002796752	0.018469114	0.002796752	0	0
	0	0	0.00672276	0.000101802	0.000672276	0.000101802	0	0
Block Swap Yard								
Demo/Site Prep/Mobilization	0	0	0	0	0	0	0	0
Mass Grading	0	0	2.06854E-05	3.13236E-06	0	0	0	0
Drainage and Underground	0	0	0.02585676	0.003915452	0.02585676	0.003915452	0	0
Bridges and Box Culverts	0	0	0.000985019	0.00014916	0.000985019	0.00014916	0	0
Fine Grading/Place Subballast	0	0	0.02585676	0.003915452	0.02585676	0.003915452	0	0
Track and Signal	0	0	0	0	0.001232506	0.000186637	0.001232506	0.000186637
North Main								
Demo/Site Prep/Mobilization	0	0	0	0	0	0	0	0
Mass Grading	0	0	5.91012E-07	8.9496E-08	0	0	0	0
Bridges and Box Culverts	0	0	0	0	0.000246255	3.729E-05	0	0
Fine Grading/Place Subballast	0	0	0	0	0.000738765	0.00011187	0	0
Track and Signal	0	0	0	0	0.000112046	1.6967E-05	0.000112046	1.6967E-05
Transload Warehouses								
Warehouse Construction	0	0	0.003693823	0.00055935	0.003693823	0.00055935	0	0
Civil Site Improvements	0	0	0	0	0.002462549	0.0003729	0	0
33 kV Distribution								
33kV Distribution	0.002462549	0.0003729	0.002462549	0.0003729	0.002462549	0.0003729	0	0
Solar								
Solar	0	0	0.003531295	0.000534739	0.003531295	0.000534739	0	0
Total Tons per Year	**0.02**	**0.00**	**0.10**	**0.02**	**0.09**	**0.01**	**0.00**	**0.00**

	Tons/Year							
South Main	0.000247141	3.74243E-05	0.00157938	0.000239163	0	0	0	0
Intermodal Facility	0.021308432	0.003226705	0.040449822	0.006125259	0.01914139	0.002898553	0	0
Block Swap Yard	0	0	0.052719224	0.007983197	0.053931044	0.008166701	0.001232506	0.000186637
North Main	0	0	5.91012E-07	8.9496E-08	0.001097065	0.000166127	0.000112046	1.6967E-05

Transload Warehouses	0	0	0.003693823	0.00055935	0.006156371	0.000932251	0	0
33 kV Distribution	0.002462549	0.0003729	0.002462549	0.0003729	0.002462549	0.0003729	0	0
Solar	0	0	0.003531295	0.000534739	0.003531295	0.000534739	0	0

Notes:
Assumes 1.2641662 tons/CY based on a bulk density of 1.5 grams/cubic centimeter (per CalEEMod).

E = EF x TP

EF = emissions factor (lb/ton)
TP = throughput of loaded and unloaded materials (ton)

Grading+Trenching

	Pounds/Day		**Tons/Year**	
	PM_{10}	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
2025	592.41	591.64	35.40	35.38
2026	2398.741865	2397.634577	119.26	119.17
2027	293.5474814	289.3903287	21.79	21.72
2028	0.020067933	0.003038858	0.00	0.00

PM emissions from Bulldozing

AP-42, 11.9

EF_{PM10} = 0.47495993 lb/hour

$EF_{PM2.5}$ = 0.655794613 lb/hour

$EF_{PM10} = ((C_{PM15} \times S^{1.5})/M^{1.4}) \times F_{PM10}$

$EF_{PM2.5} = ((CTSP \times S^{1.2})/M^{1.3}) \times F_{PM2.5}$

Emissions (lb) = EF (lb/hour) X Hour

Where:

C_{TSP} =	5.7	emission factor
C_{PM15} =	1	emission factor
M =	7.9%	emission factor
S =	6.9%	emission factor
F_{PM10} =	0.75	emission factor
$F_{PM2.5}$ =	0.105	emission factor

	Number of Bulldozers				Daily Hours per Equipment				Work Days							
Phase	**2025**	**2026**	**2027**	**2028**	**2025**	**2026**	**2027**	**2028**	**2025**	**2025**	**2026**	**2026**	**2027**	**2027**	**2028**	**2028**
South Main																
1.1 Demo/Site Prep/Mobilizatior	1	0	0	0	8	0	0	0	34	34	0	0	0	0	0	0
1.2 Mass Grading	4	4	0	0	10	10	0	0	90	90	100	100	0	0	0	0
1.3 Bridges and Box Culverts	1	1	0	0	3	3	0	0	90	90	124	124	0	0	0	0
1.4 Fine Grading/Place Subballas	0	4	4	0	0	10	10	0	0	0	22	22	0	0	0	0
1.5 Track and Signal	0	1	0	0	0	3	0	0	0	0	130	130	0	0	0	0
Intermodal Facility																
2.1 Demo/Site Prep/Mobilizatior	7	0	0	0	10	0	0	0	34	34	0	0	0	0	0	0
2.2 Mass Grading	34	34	0	0	10	10	0	0	126	126	16	16	0	0	0	0
2.3 Drainage and Underground	0	0	0	0	0	0	0	0	102	102	184	184	0	0	0	0
2.4 Bridges and Box Culverts	1	1	0	0	10	10	0	0	78	78	208	208	0	0	0	0
2.5 Fine Grading/Place Subballas	5	5	0	0	10	10	0	0	30	30	112	112	0	0	0	0
2.6 Buildings/Pavement	0	1	1	0	0	10	10	0	0	0	295	295	15	15	0	0
2.7 Track and Signal	0	1	1	0	0	4	4	0	0	0	271	271	3	3	0	0
Block Swap Yard																
3.1 Demo/Site Prep/Mobilizatior	19	0	0	0	10	0	0	0	34	34	0	0	0	0	0	0
3.2 Mass Grading	0	142	0	0	0	10	0	0	0	0	94	94	0	0	0	0
3.3 Drainage and Underground	0	0	0	0	0	0	0	0	0	0	199	199	39	39	0	0
3.4 Bridges and Box Culverts	0	1	1	0	0	9	9	0	0	0	199	199	39	39	0	0
3.5 Fine Grading/Place Subballas	0	11	11	0	0	10	10	0	0	0	127	127	183	183	0	0
3.6 Track and Signal	0	0	2	2	0	0	10	10	0	0	0	0	200	200	134	134
North Main																
4.1 Demo/Site Prep/Mobilizatior	1	0	0	0	5	0	0	0	34	34	0	0	0	0	0	0
4.2 Mass Grading	0	5	0	0	0	10	0	0	0	0	94	94	0	0	0	0
4.3 Bridges and Box Culverts	0	0	1	0	0	0	8	0	0	0	0	0	94	94	0	0
4.4 Fine Grading/Place Subballas	0	0	2	0	0	0	10	0	0	0	0	0	46	46	0	0
4.5 Track and Signal	0	0	1	1	0	0	10	10	0	0	0	0	20	20	134	134
Transload Warehouses																
5.1 Warehouse Construction	0	3	3	0	0	10	10	0	0	0	151	151	123	123	0	0
5.2 Civil Site Improvements	0	0	3	0	0	0	10	0	0	0	0	0	226	226	0	0
33 kV Distribution																
6.1 33kV Distribution	0	0	0	0	0	0	0	0	94	94	313	313	109	109	0	0
Solar																
7.1 Solar	0	1	1	0	0	1	1	0	0	0	246	246	50	50	0	0

		Pounds per Day								Tons per Year							
		2025		2026		2027		2028		2025		2026		2027		2028	
Phase		PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
EF (lb/hour)		0.47495993	0.65579461	0.47495993	0.65579461	0.47495993	0.65579461	0.47495993	0.65579461								
South Main																	
1.1	Demo/Site Prep/Mobilizatior	3.79967944	5.24635691	0	0	0	0	0	0	0.06459455	0.08918807	0	0	0	0	0	0
1.2	Mass Grading	18.9983972	26.2317845	18.9983972	26.2317845	0	0	0	0	0.85492787	1.1804303	0.94991986	1.31158923	0	0	0	0
1.3	Bridges and Box Culverts	1.42487979	1.96738384	1.42487979	1.96738384	0	0	0	0	0.06411959	0.08853227	0.08834255	0.1219778	0	0	0	0
1.4	Fine Grading/Place Subballas	0	0	18.9983972	26.2317845	18.9983972	26.2317845	0	0	0	0	0.20898237	0.28854963	0	0	0	0
1.5	Track and Signal	0	0	1.42487979	1.96738384	0	0	0	0	0	0	0.09261719	0.12787995	0	0	0	0
Intermodal Facility																	
2.1	Demo/Site Prep/Mobilizatior	33.2471951	45.9056229	0	0	0	0	0	0	0.56520232	0.78039559	0	0	0	0	0	0
2.2	Mass Grading	161.486376	222.970168	161.486376	222.970168	0	0	0	0	10.1736417	14.0471206	1.29189101	1.78376135	0	0	0	0
2.3	Drainage and Underground	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.4	Bridges and Box Culverts	4.7495993	6.55794613	4.7495993	6.55794613	0	0	0	0	0.18523437	0.2557599	0.49395833	0.6820264	0	0	0	0
2.5	Fine Grading/Place Subballas	23.7479965	32.7897307	23.7479965	32.7897307	0	0	0	0	0.35621995	0.49184596	1.3298878	1.83622492	0	0	0	0
2.6	Buildings/Pavement	0	0	4.7495993	6.55794613	4.7495993	6.55794613	0	0	0	0	0.7005659	0.96729705	0.03562199	0.0491846	0	0
2.7	Track and Signal	0	0	1.89983972	2.62317845	1.89983972	2.62317845	0	0	0	0	0.25742828	0.35544068	0.00284976	0.00393477	0	0
Block Swap Yard																	
3.1	Demo/Site Prep/Mobilizatior	90.2423867	124.600976	0	0	0	0	0	0	1.53412057	2.1182166	0	0	0	0	0	0
3.2	Mass Grading	0	0	674.4431	931.228351	0	0	0	0	0	0	31.6988257	43.7677325	0	0	0	0
3.3	Drainage and Underground	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.4	Bridges and Box Culverts	0	0	4.27463937	5.90215152	4.27463937	5.90215152	0	0	0	0	0.42532662	0.58726408	0.08335547	0.11509195	0	0
3.5	Fine Grading/Place Subballas	0	0	52.2455923	72.1374074	52.2455923	72.1374074	0	0	0	0	3.31759511	4.58072537	4.78047169	6.60057278	0	0
3.6	Track and Signal	0	0	0	0	9.4991986	13.1158923	9.4991986	13.1158923	0	0	0	0	0.94991986	1.31158923	0.63644631	0.87876478
North Main																	
4.1	Demo/Site Prep/Mobilizatior	2.37479965	3.27897307	0	0	0	0	0	0	0.04037159	0.05574254	0	0	0	0	0	0
4.2	Mass Grading	0	0	23.7479965	32.7897307	0	0	0	0	0	0	1.11615583	1.54111734	0	0	0	0
4.3	Bridges and Box Culverts	0	0	0	0	3.79967944	5.24635691	0	0	0	0	0	0	0.17858493	0.24657877	0	0
4.4	Fine Grading/Place Subballas	0	0	0	0	9.4991986	13.1158923	0	0	0	0	0	0	0.21848157	0.30166552	0	0
4.5	Track and Signal	0	0	0	0	4.7495993	6.55794613	4.7495993	6.55794613	0	0	0	0	0.04749599	0.06557946	0.31822315	0.43938239
Transload Warehouses																	
5.1	Warehouse Construction	0	0	14.2487979	19.6738384	14.2487979	19.6738384	0	0	0	0	1.07578424	1.4853748	0.87630107	1.20994106	0	0
5.2	Civil Site Improvements	0	0	0	0	14.2487979	19.6738384	0	0	0	0	0	0	1.61011416	2.22314374	0	0
33 kV Distribution																	
6.1	33kV Distribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solar																	
7.1	Solar	0	0	0.47495993	0.65579461	0.47495993	0.65579461	0	0	0	0	0.05842007	0.08066274	0.011874	0.01639487	0	0
Total		**340.07**	**469.55**	**1,006.92**	**1,390.28**	**138.69**	**191.49**	**14.25**	**19.67**	**13.84**	**19.11**	**43.11**	**59.52**	**8.80**	**12.14**	**0.95**	**1.32**

	Pounds per Day								Tons per Year							
South Main	24.2229564	33.4455253	40.846554	56.3983367	18.9983972	26.2317845	0	0	0.98364201	1.35815064	1.33986196	1.8499966	0	0	0	0
Intermodal Facility	223.231167	308.223468	196.633411	271.49897	6.64943902	9.18112458	0	0	11.2802983	15.5751221	4.07373132	5.6247504	0.03847175	0.05311936	0	0
Block Swap Yard	90.2423867	124.600976	730.963332	1009.26791	66.0194302	91.1554512	9.4991986	13.1158923	1.53412057	2.1182166	35.4417474	48.9357219	5.81374702	8.02725396	0.63644631	0.87876478
North Main	2.37479965	3.27897307	23.7479965	32.7897307	18.0484773	24.9201953	4.7495993	6.55794613	0.04037159	0.05574254	1.11615583	1.54111734	0.44456249	0.61382376	0.31822315	0.43938239
Transload Warehouses	0	0	14.2487979	19.6738384	28.4975958	39.3476768	0	0	0	0	1.07578424	1.4853748	2.48641523	3.4330848	0	0
33 kV Distribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solar	0	0	0.47495993	0.65579461	0.47495993	0.65579461	0	0	0	0	0.05842007	0.08066274	0.011874	0.01639487	0	0

PM Emissions from Truck Loading and Storage Piles

AP-42, 13.2

$EF_{PM10} = K_{PM10} \times 0.0032 \times ((U/5)^{1.3} / (M/2)^{1.4}))$

$EF_{PM2.5} = K_{PM2.5} \times 0.0032 \times ((U/5)^{1.3} / (M/2)^{1.4}))$

Where:

EF_{PM10} =	3.89593E-05 lb/ton	K_{PM10}	0.35 particle size multiplier
$EF_{PM2.5}$ =	5.89954E-06 lb/ton	$K_{PM2.5}$ =	0.053 particle size multiplier
		U =	2.6 mean wind speed (m/s) *San Bernardino-Mojave Desert
		M =	12 material moisture content
		TP =	1.2641662 tons per cubic yard

Emissions (lb)= EF (lb/ton) x throughput of loaded and unloaded materials (ton)

E = EF x TP

	Work Days								cubic yards of soil				tons of soil			
Phase	**2025**	**2025**	**2026**	**2026**	**2027**	**2027**	**2028**	**2028**	**2025**	**2026**	**2027**	**2028**	**2025**	**2026**	**2027**	**2028**
South Main																
Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0	3858730.16	0	0	0	4878076.242	0	0	0
Mass Grading	90	90	100	100	0	0	0	0	10214285.7	11349206.35	0	0	12912554.76	14347283.06	0	0
Bridges and Box Culverts	90	90	124	124	0	0	0	0	10214285.7	14073015.87	0	0	12912554.76	17790631	0	0
Fine Grading/Place Subballast	0	0	22	22	0	0	0	0	0	2496825.397	0	0	0	3156402.274	0	0
Track and Signal	0	0	130	130	0	0	0	0	0	14753968.25	0	0	0	18651467.98	0	0
Intermodal Facility																
Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0	3858730.16	0	0	0	4878076.242	0	0	0
Mass Grading	126	126	16	16	0	0	0	0	14300000	1815873.016	0	0	18077576.66	2295565.29	0	0
Drainage and Underground	102	102	184	184	0	0	0	0	11576190.5	20882539.68	0	0	14634228.72	26399000.84	0	0
Bridges and Box Culverts	78	78	208	208	0	0	0	0	8852380.95	23606349.21	0	0	11190880.79	29842348.77	0	0
Fine Grading/Place Subballast	30	30	112	112	0	0	0	0	3404761.9	12711111.11	0	0	4304184.919	16068957.03	0	0
Buildings/Pavement	0	0	295	295	15	15	0	0	0	33480158.73	1702380.952	0	0	42324485.04	2152092.46	0
Track and Signal	0	0	271	271	3	3	0	0	0	30756349.21	340476.1905	0	0	38881137.1	430418.4919	0
Block Swap Yard																
Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0	3858730.16	0	0	0	4878076.242	0	0	0
Mass Grading	0	0	94	94	0	0	0	0	0	10668253.97	0	0	0	13486446.08	0	0
Drainage and Underground	0	0	199	199	39	39	0	0	0	22584920.63	4426190.476	0	0	28551093.3	5595440.395	0
Bridges and Box Culverts	0	0	199	199	39	39	0	0	0	22584920.63	4426190.476	0	0	28551093.3	5595440.395	0
Fine Grading/Place Subballast	0	0	127	127	183	183	0	0	0	14413492.06	20769047.62	0	0	18221049.49	26255528.01	0
Track and Signal	0	0	0	0	200	200	134	134	0	0	22698412.7	15207936.5	0	0	28694566.13	19225359.3
North Main																
Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0	3858730.16	0	0	0	4878076.242	0	0	0
Mass Grading	0	0	94	94	0	0	0	0	0	10668253.97	0	0	0	13486446.08	0	0
Bridges and Box Culverts	0	0	0	0	94	94	0	0	0	0	10668253.97	0	0	0	13486446.08	0
Fine Grading/Place Subballast	0	0	0	0	46	46	0	0	0	0	5220634.921	0	0	0	6599750.209	0
Track and Signal	0	0	0	0	20	20	134	134	0	0	2269841.27	15207936.5	0	0	2869456.613	19225359.3
Transload Warehouses																
Warehouse Construction	0	0	151	151	123	123	0	0	0	17137301.59	13959523.81	0	0	21664397.43	17647158.17	0
Civil Site Improvements	0	0	0	0	226	226	0	0	0	0	25649206.35	0	0	0	32424859.72	0
33 kV Distribution																
33kV Distribution	94	94	313	313	109	109	0	0	10668254	35523015.87	12370634.92	0	13486446.08	44906995.99	15638538.54	0
Solar																
Solar	0	0	246	246	50	50	0	0	0	27919047.62	5674603.175	0	0	35294316.34	7173641.532	0

	Pounds/Day								Tons/Year							
	2025		2026		2027		2028		2025		2026		2027		2028	
Phase	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
EF (lb/ton)	3.89593E-05	5.89954E-06	3.89593E-05	5.89954E-06	3.89593E-05	5.89954E-06	3.89593E-05	5.89954E-06								
South Main																
Demo/Site Prep/Mobilization	5.589594277	0.846424276	0	0	0	0	0	0	0.0950231	0.014389213	0	0	0	0	0	0
Mass Grading	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.25153174	0.038089092	0.279479714	0.04232121	0	0	0	0
Bridges and Box Culverts	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.25153174	0.038089092	0.346554845	0.05247831	0	0	0	0
Fine Grading/Place Subballast	0	0	5.589594277	0.846424276	0	0	0	0	0	0	0.061485537	0.00931067	0	0	0	0
Track and Signal	0	0	5.589594277	0.846424276	0	0	0	0	0	0	0.363323628	0.05501758	0	0	0	0
Intermodal Facility																
Demo/Site Prep/Mobilization	5.589594277	0.846424276	0	0	0	0	0	0	0.0950231	0.014389213	0	0	0	0	0	0
Mass Grading	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.35214444	0.053324729	0.044716754	0.00677139	0	0	0	0
Drainage and Underground	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.28506931	0.043167638	0.514242674	0.07787103	0	0	0	0
Bridges and Box Culverts	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.21799418	0.033010547	0.581317805	0.08802812	0	0	0	0
Fine Grading/Place Subballast	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.08384391	0.012696364	0.31301728	0.04739976	0	0	0	0
Buildings/Pavement	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.824465156	0.12484758	0.041921957	0.006348182	0	0
Track and Signal	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.757390025	0.11469049	0.008384391	0.001269636	0	0
Block Swap Yard																
Demo/Site Prep/Mobilization	5.589594277	0.846424276	0	0	0	0	0	0	0.0950231	0.014389213	0	0	0	0	0	0
Mass Grading	0	0	5.589594277	0.846424276	0	0	0	0	0	0	0.262710931	0.03978194	0	0	0	0
Drainage and Underground	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.556164631	0.08421922	0.108997088	0.016505273	0	0
Bridges and Box Culverts	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.556164631	0.08421922	0.108997088	0.016505273	0	0
Fine Grading/Place Subballast	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.354939237	0.05374794	0.511447876	0.077447821	0	0
Track and Signal	0	0	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.558959428	0.084642428	0.374502817	0.05671043
North Main																
Demo/Site Prep/Mobilization	5.589594277	0.846424276	0	0	0	0	0	0	0.0950231	0.014389213	0	0	0	0	0	0
Mass Grading	0	0	5.589594277	0.846424276	0	0	0	0	0	0	0.262710931	0.03978194	0	0	0	0
Bridges and Box Culverts	0	0	0	0	5.589594277	0.846424276	0	0	0	0	0	0	0.262710931	0.039781941	0	0
Fine Grading/Place Subballast	0	0	0	0	5.589594277	0.846424276	0	0	0	0	0	0	0.128560668	0.019467758	0	0
Track and Signal	0	0	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.055895943	0.008464243	0.374502817	0.05671043
Transload Warehouses																
Warehouse Construction	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.422014368	0.06390503	0.343760048	0.052055093	0	0
Civil Site Improvements	0	0	0	0	5.589594277	0.846424276	0	0	0	0	0	0	0.631624153	0.095645943	0	0
33 kV Distribution																
33kV Distribution	5.589594277	0.846424276	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0.26271093	0.039781941	0.874771504	0.1324654	0.304632888	0.046130123	0	0
Solar																
Solar	0	0	5.589594277	0.846424276	5.589594277	0.846424276	0	0	0	0	0.687520096	0.10411019	0.139739857	0.021160607	0	0
Total	**33.54**	**5.08**	**33.54**	**5.08**	**0.00**	**0.00**	**0.00**	**0.00**	**1.33**	**0.20**	**1.61**	**0.24**	**0.00**	**0.00**	**0.00**	**0.00**

PM Emissions from Demolition

AP-42, batch drop operations

EF_{PM10} = 0.000478655 lb/ton

$EF_{PM2.5}$ = 7.2482E-05 lb/ton

$EF_{PM10} = K_{PM10} \times 0.0032 \times ((U/5)^{1.3} / (M/2)^{1.4}))$

$EF_{PM2.5} = K_{PM2.5} \times 0.0032 \times ((U/5)^{1.3} / (M/2)^{1.4}))$

Where:

K_{PM10}	0.35	particle size multiplier
$K_{PM2.5}$ =	0.053	particle size multiplier
U =	2.6	mean wind speed (m/s)
M =	2	material moisture content
W =	7600	building waste (tons of debris)

Emissions (lb)= EF (lb/ton) x Building Waste (ton)

E = EF x W

	Tons of Debris							
Phase	**2025**	**2025**	**2026**	**2026**	**2027**	**2027**	**2028**	**2028**
South Main Demo/Site Prep/Mobilization	228	228	0	0	0	0	0	0
Intermodal F Demo/Site Prep/Mobilization	1900	1900	0	0	0	0	0	0
Block Swap Y Demo/Site Prep/Mobilization	5320	5320	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	152	152	0	0	0	0	0	0

	Work Days							
Phase	**2025**	**2025**	**2026**	**2026**	**2027**	**2027**	**2028**	**2028**
South Main Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0
Intermodal Fa Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0
Block Swap Y Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0

	Pounds/Day							
	2025		**2026**		**2027**		**2028**	
Phase	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
EF (lb/ton)	0.00047865	7.2482E-05	0.00047865	7.2482E-05	0.00047865	7.2482E-05	0.00047865	7.2482E-05
South Main Demo/Site Prep/Mobilization	0.0032098	0.000486056	0	0	0	0	0	0
Intermodal Fa Demo/Site Prep/Mobilization	0.02674835	0.004050465	0	0	0	0	0	0
Block Swap Y Demo/Site Prep/Mobilization	0.07489539	0.011341302	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	0.00213987	0.000324037	0	0	0	0	0	0
0 0	0	0	0	0	0	0	0	0
Total	**0.11**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

	Tons/Year							
	2025		**2026**		**2027**		**2028**	
Phase	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
South Main Demo/Site Prep/Mobilization	5.4567E-05	8.26295E-06	0	0	0	0	0	0
Intermodal Fa Demo/Site Prep/Mobilization	0.00045472	6.88579E-05	0	0	0	0	0	0
Block Swap Y Demo/Site Prep/Mobilization	0.00127322	0.000192802	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	3.6378E-05	5.50863E-06	0	0	0	0	0	0
0 0	0	0	0	0	0	0	0	0
Total Tons per Year	**1.82E-03**	**2.75E-04**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**0.00E+00**

PM Emissions from Debris Loading

AP-42, 13.2

Where:

EF_{PM10} =	0.0203	lb/ton	K_{PM10}	0.35	particle size multiplier
$EF_{PM2.5}$ =	0.003074	lb/ton	$K_{PM2.5}$ =	0.053	particle size multiplier
			EF_{L-TSP} =	0.058	

$EF_{PM10} = K_{PM10} \times EF_{L-TSP}$

$EF_{PM2.5} = K_{PM2.5} \times EF_{L-TSP}$

Emissions (lb)= EF (lb/ton) x square feet (ft^2) x 0.046 (ton/ft^2)

E = EF x SF x 0.046 (ton/ft^2)

	Square Feet							
Phase	**2025**	**2025**	**2026**	**2026**	**2027**	**2027**	**2028**	**2028**
South Main Demo/Site Prep/Mobilization	4,500	4500	0	0	0	0	0	0
Intermodal Fa Demo/Site Prep/Mobilization	37,500	37500	0	0	0	0	0	0
Block Swap Y: Demo/Site Prep/Mobilization	105,000	105000	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	3,000	3000	0	0	0	0	0	0

	Work Days							
Phase	**2025**	**2025**	**2026**	**2026**	**2027**	**2027**	**2028**	**2028**
South Main Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0
Intermodal Fa Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0
Block Swap Y: Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	34	34	0	0	0	0	0	0

Pounds/Day

	2025		2026		2027		2028	
Phase	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
EF (lb/ton)	0.0203	0.003074	0.0203	0.003074	0.0203	0.003074	0.0203	0.003074
South Main Demo/Site Prep/Mobilization	2.68676471	0.40685294	0	0	0	0	0	0
Intermodal Fa Demo/Site Prep/Mobilization	22.3897059	3.39044118	0	0	0	0	0	0
Block Swap Y: Demo/Site Prep/Mobilization	62.6911765	9.49323529	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	1.79117647	0.27123529	0	0	0	0	0	0
Total	**89.56**	**13.56**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Tons/Year

	2025		2025		2026		2026	
Phase	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
South Main Demo/Site Prep/Mobilization	0.045675	0.0069165	0	0	0	0	0	0
Intermodal Fa Demo/Site Prep/Mobilization	0.380625	0.0576375	0	0	0	0	0	0
Block Swap Y: Demo/Site Prep/Mobilization	1.06575	0.161385	0	0	0	0	0	0
North Main Demo/Site Prep/Mobilization	0.03045	0.004611	0	0	0	0	0	0
Total Tons per Year	**1.52**	**0.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

PM Emissions from Paved Road (EPA AP-42 13.2.1, equation 2)

E = (k*(sL)^0.91*(W)^1.02)*(1-P/4N)

	PM_{10}	$PM_{2.5}$	
E =			emission factor
k =	0.0022	0.00054	particle size multiplier (lb/vmt)
sL =	0.03	0.03	surface silt loading
W HHD =	16	16	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
W worker =	2.7	2.7	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
P =	0	0	Number of days per year with >0.01 inches of rain (Source: WRCC data for Barstow,https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabars+sca)
N =	365	365	Days per period

	VMT/Year			
Vehicle Type	**2025**	**2026**	**2027**	**2028**
HHD	3,540,240	24,987,900	14,397,300	1,215,000
Worker	6,547,450	23,512,125	8,547,175	1,592,500

		Work Days				
Phase		**2025**	**2026**	**2027**	**2028**	**Total**
South Main						
	Demo/Site Prep/Mobilizatio	34	0	0	0	34
	Mass Grading	90	100	0	0	190
	Bridges and Box Culverts	90	124	0	0	214
	Fine Grading/Place Subballa	0	22	0	0	22
	Track and Signal	0	130	0	0	130
Intermodal Facility						
	Demo/Site Prep/Mobilizatio	34	0	0	0	34
	Mass Grading	126	16	0	0	142
	Drainage and Underground	102	184	0	0	286
	Bridges and Box Culverts	78	208	0	0	286
	Fine Grading/Place Subballa	30	112	0	0	142
	Buildings/Pavement	0	295	15	0	310
	Track and Signal	0	271	3	0	274
Block Swap Yard						
	Demo/Site Prep/Mobilizatio	34	0	0	0	34
	Mass Grading	0	94	0	0	94
	Drainage and Underground	0	199	39	0	238
	Bridges and Box Culverts	0	199	39	0	238
	Fine Grading/Place Subballa	0	127	183	0	310
	Track and Signal	0	0	200	134	334
North Main						
	Demo/Site Prep/Mobilizatio	34	0	0	0	34
	Mass Grading	0	94	0	0	94
	Bridges and Box Culverts	0	0	94	0	94
	Fine Grading/Place Subballa	0	0	46	0	46
	Track and Signal	0	0	20	134	154
Transload Warehouses						
	Warehouse Construction	0	151	123	0	274
	Civil Site Improvements	0	0	226	0	226
33 kV Distribution						
	33kV Distribution	94	313	109	0	516
Solar						
	Solar	0	246	50	0	296
	Max Days/Year	126	313	226	134	516

lb/vmt rate		g/vmt rate	
PM_{10}	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
0.00153	0.00038	0.6941785	0.1703893
0.00066	0.00016	0.2987231	0.0733229
0.00025	0.00006	0.1130472	0.027748

Mitigation: Sweep Paved Roads 0.09 percent reduction

Unmitigated

lbs/day

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	42.9999118	10.5545238	122.177385	29.9889946	97.4940294	23.9303527	13.8764024	3.40602604
Worker	12.9507735	3.17882622	18.7215416	4.59528748	9.42558293	2.31355217	2.96188849	0.72700899
Total	**55.9506853**	**13.73335**	**140.898927**	**34.584282**	**106.919612**	**26.2439048**	**16.8382909**	**4.13303503**

tons/year

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	2.70899444	0.664935	19.1207608	4.69327765	11.0168253	2.70412985	0.92971896	0.22820374
Worker	0.81589873	0.20026605	2.92992126	0.71916249	1.06509087	0.2614314	0.19844653	0.0487096
Total	**3.52489317**	**0.86520105**	**22.0506821**	**5.41244014**	**12.0819162**	**2.96556125**	**1.12816549**	**0.27691335**

Mitigated

lbs/day

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	39.12992	9.6046167	111.18142	27.289985	88.719567	21.776621	12.627526	3.0994837
Worker	11.785204	2.8927319	17.036603	4.1817116	8.5772805	2.1053325	2.6953185	0.6615782
Total	**50.915124**	**12.497349**	**128.21802**	**31.471697**	**97.296847**	**23.881953**	**15.322845**	**3.7610619**

tons/year

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	2.4651849	0.6050908	17.399892	4.2708827	10.025311	2.4607582	0.8460443	0.2076654
Worker	0.7424678	0.1822421	2.6662283	0.6544379	0.9692327	0.2379026	0.1805863	0.0443257
Total	**3.2076528**	**0.787333**	**20.066121**	**4.9253205**	**10.994544**	**2.6986607**	**1.0266306**	**0.2519911**

PM Emissions from Unpaved Road (EPA AP-42 13.2.2, equation 1a)

$E = k\,(s/12)^a (W/3)^b$ 1 lb/VMT = 281.9 g/VKT

E=		size specific emission factor (lb/VMT)
s=	8.5	surface material silt content (%) (AP-42 mean value for construction sites, Table 13.2.2-1)
W HHD =	30	mean vehicle weight (tons) (based on EMFAC2014 User's Guide Appendix 4: Vehicle Categories)
W Vendor =	7	mean vehicle weight (tons) (based on EMFAC2014 User's Guide Appendix 4: Vehicle Categories)
W worker =	2.7	mean vehicle weight (tons) (based on EMFAC2014 User's Guide Appendix 4: Vehicle Categories)
M=	12	surface material misture content (%) (The moisture contents of different materials arelisted in AP-42 Table 13.2.4-1. CalEEMod uses the moisture content of cover(12%) as default.
S=	15	mean vehicle speed (mph)
K (PM10)=	1.5	lb/vmt, AP-42 Table 13.2.2-2
K (PM2.5)=	0.15	lb/vmt, AP-42 Table 13.2.2-2
a =	0.9	constant from AP-42 Table 13.2.2-2
b =	0.45	constant from AP-42 Table 13.2.2-2

VMT/Year

Vehicle Type	**2025**	**2026**	**2027**	**2028**
HHD	35,402	249,879	143,973	12,150
Worker	65,475	235,121	85,472	15,925

lb/vmt rate		**g/vmt rate**	
PM_{10}	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
3.0995966	0.3099597	1405.9534	140.59534
1.0488522	0.326322	475.75139	148.01719

% Paved	
0.99	paved
0.01	unpaved

Mitigation	% reduction	
Water Unpaved Construction Roads	0.55	0.45
Limit Vehicle Speeds on Unpaved Roads	0.44	0.56

Unmitigated

lbs/day

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	870.898075	87.0898075	2474.51786	247.451786	1974.59388	197.459388	281.045509	28.1045509
Worker	545.0244	169.569618	787.883208	245.128575	396.669179	123.412899	124.649041	38.7811817
Total	**1415.92247**	**256.659425**	**3262.40107**	**492.580361**	**2371.26306**	**320.872286**	**405.694551**	**66.8857327**

tons/year

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	54.8665787	5.48665787	387.262045	38.7262045	223.129108	22.3129108	18.8300491	1.88300491
Worker	34.3365372	10.6828859	123.303722	38.362622	44.8236172	13.9456576	8.35148577	2.59833918
Total	**89.2031159**	**16.1695438**	**510.565767**	**77.0888265**	**267.952725**	**36.2585684**	**27.1815349**	**4.48134409**

Mitigated

lbs/day

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	210.75733	21.075733	598.83332	59.883332	477.85172	47.785172	68.013013	6.8013013
Worker	131.8959	41.035848	190.66774	59.321115	95.993941	29.865921	30.165068	9.385046
Total	**342.65324**	**62.111581**	**789.50106**	**119.20445**	**573.84566**	**77.651093**	**98.178081**	**16.186347**

tons/year

	2025		2026		2027		2028	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	13.277712	1.3277712	93.717415	9.3717415	53.997244	5.3997244	4.5568719	0.4556872
Worker	8.309442	2.5852584	29.839501	9.2837545	10.847315	3.3748491	2.0210596	0.6287981
Total	**21.587154**	**3.9130296**	**123.55692**	**18.655496**	**64.84456**	**8.7745735**	**6.5779314**	**1.0844853**

Unmitigated - Paved and Unpaved Total

lbs/day

2025		2026		2027		2028	
PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
1471.87316	270.392775	3403.29999	527.164643	2478.18267	347.116191	422.532842	71.0187677

tons/year

2025		2025		2026		2027	
PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
92.7280091	17.0347448	532.616449	82.5012666	280.034641	39.2241296	28.3097004	4.75825744

Mitigated - Paved and Unpaved Total

lbs/day

2025		2026		2027		2028	
PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
393.56836	74.608929	917.71908	150.67614	671.14251	101.53305	113.50093	19.947409

tons/year

2025		2026		2027		2028	
PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
24.794807	4.7003626	143.62304	23.580817	75.839103	11.473234	7.604562	1.3364764

Unmitigated - Paved and Unpaved By Phase

lbs/day

	2025		2026		2027		2028	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main								
Demo/Site Prep/Mobilizatio	67.0826909	12.3235313	0	0	0	0	0	0
Mass Grading	177.571829	32.6211123	117.965338	18.2726046	0	0	0	0
Bridges and Box Culverts	177.571829	32.6211123	146.277019	22.6580297	0	0	0	0
Fine Grading/Place Subballas	0	0	25.9523743	4.01997301	0	0	0	0
Track and Signal	0	0	153.354939	23.754386	0	0	0	0
Intermodal Facility								
Demo/Site Prep/Mobilizatio	67.0826909	12.3235313	0	0	0	0	0	0
Mass Grading	248.60056	45.6695572	18.874454	2.92361674	0	0	0	0
Drainage and Underground	201.248073	36.970594	217.056221	33.6215925	0	0	0	0
Bridges and Box Culverts	153.895585	28.2716307	245.367902	38.0070176	0	0	0	0
Fine Grading/Place Subballas	59.1906096	10.8737041	132.121178	20.4653172	0	0	0	0
Buildings/Pavement	0	0	347.997746	53.9041836	32.4086661	4.53944452	0	0
Track and Signal	0	0	319.686065	49.5187585	6.48173322	0.9078889	0	0
Block Swap Yard								
Demo/Site Prep/Mobilizatio	67.0826909	12.3235313	0	0	0	0	0	0
Mass Grading	0	0	110.887417	17.1762483	0	0	0	0
Drainage and Underground	0	0	234.751022	36.3624832	84.2625318	11.8025558	0	0
Bridges and Box Culverts	0	0	234.751022	36.3624832	84.2625318	11.8025558	0	0
Fine Grading/Place Subballas	0	0	149.815979	23.2062079	395.385726	55.3812232	0	0
Track and Signal	0	0	0	0	432.115548	60.525927	211.266421	35.5093839
North Main								
Demo/Site Prep/Mobilizatio	67.0826909	12.3235313	0	0	0	0	0	0
Mass Grading	0	0	110.887417	17.1762483	0	0	0	0
Bridges and Box Culverts	0	0	0	0	203.094308	28.4471857	0	0
Fine Grading/Place Subballas	0	0	0	0	99.386576	13.9209632	0	0
Track and Signal	0	0	0	0	43.2115548	6.0525927	211.266421	35.5093839
Transload Warehouses								
Warehouse Construction	0	0	178.12766	27.591633	265.751062	37.2234451	0	0
Civil Site Improvements	0	0	0	0	488.290569	68.3942975	0	0
33 kV Distribution								
33kV Distribution	185.46391	34.0709395	369.231507	57.1932524	235.502974	32.9866302	0	0
Solar								
Solar	0	0	290.194731	44.9506073	108.028887	15.1314817	0	0
	1471.87316	**270.392775**	**3403.29999**	**527.164643**	**2478.18267**	**347.116191**	**422.532842**	**71.0187677**

Mitigated - Paved and Unpaved By Phase

lbs/day

	2025		2026		2027		2028	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main								
Demo/Site Prep/Mobilizatio	17.937432	3.400407	0	0	0	0	0	0
Mass Grading	47.481438	9.0010773	31.81002	5.2227433	0	0	0	0
Bridges and Box Culverts	47.481438	9.0010773	39.444425	6.4762017	0	0	0	0
Fine Grading/Place Subballas	0	0	6.9982044	1.1490035	0	0	0	0
Track and Signal	0	0	41.353026	6.7895663	0	0	0	0
Intermodal Facility								
Demo/Site Prep/Mobilizatio	17.937432	3.400407	0	0	0	0	0	0
Mass Grading	66.474013	12.601508	5.0896032	0.8356389	0	0	0	0
Drainage and Underground	53.812296	10.201221	58.530437	9.6098477	0	0	0	0
Bridges and Box Culverts	41.150579	7.8009336	66.164842	10.863306	0	0	0	0
Fine Grading/Place Subballas	15.827146	3.0003591	35.627223	5.8494725	0	0	0	0
Buildings/Pavement	0	0	93.839559	15.407093	8.776929	1.3278079	0	0
Track and Signal	0	0	86.205155	14.153634	1.7553858	0.2655616	0	0
Block Swap Yard								
Demo/Site Prep/Mobilizatio	17.937432	3.400407	0	0	0	0	0	0
Mass Grading	0	0	29.901419	4.9093787	0	0	0	0
Drainage and Underground	0	0	63.30194	10.393259	22.820015	3.4523006	0	0
Bridges and Box Culverts	0	0	63.30194	10.393259	22.820015	3.4523006	0	0
Fine Grading/Place Subballas	0	0	40.398726	6.632884	107.07853	16.199257	0	0
Track and Signal	0	0	0	0	117.02572	17.704106	56.750463	9.9737046
North Main								
Demo/Site Prep/Mobilizatio	17.937432	3.400407	0	0	0	0	0	0
Mass Grading	0	0	29.901419	4.9093787	0	0	0	0
Bridges and Box Culverts	0	0	0	0	55.002089	8.3209297	0	0
Fine Grading/Place Subballas	0	0	0	0	26.915916	4.0719443	0	0
Track and Signal	0	0	0	0	11.702572	1.7704106	56.750463	9.9737046
Transload Warehouses								
Warehouse Construction	0	0	48.03313	7.8863424	71.970818	10.888025	0	0
Civil Site Improvements	0	0	0	0	132.23906	20.00564	0	0
33 kV Distribution								
33kV Distribution	49.591724	9.4011252	99.565363	16.347187	63.779018	9.6487377	0	0
Solar								
Solar	0	0	78.25265	12.847948	29.25643	4.4260264	0	0
	393.56836	**74.608929**	**917.71908**	**150.67614**	**671.14251**	**101.53305**	**113.50093**	**19.947409**

		tons/year							
		2025		2026		2027		2028	
		PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main									
	Demo/Site Prep/Mobilizatio	4.22620953	0.77638247	0	0	0	0	0	0
	Mass Grading	11.1870252	2.05513008	18.4615754	2.85966262	0	0	0	0
	Bridges and Box Culverts	11.1870252	2.05513008	22.8923534	3.54598165	0	0	0	0
	Fine Grading/Place Subballas	0	0	4.06154658	0.62912578	0	0	0	0
	Track and Signal	0	0	24.000048	3.71756141	0	0	0	0
Intermodal Facility									
	Demo/Site Prep/Mobilizatio	4.22620953	0.77638247	0	0	0	0	0	0
	Mass Grading	15.6618353	2.87718211	2.95385206	0.45754602	0	0	0	0
	Drainage and Underground	12.6786286	2.32914742	33.9692987	5.26177922	0	0	0	0
	Bridges and Box Culverts	9.69542186	1.78111273	38.4000767	5.94809825	0	0	0	0
	Fine Grading/Place Subballas	3.72900841	0.68504336	20.6769644	3.20282214	0	0	0	0
	Buildings/Pavement	0	0	54.4616473	8.43600473	3.66217927	0.51295723	0	0
	Track and Signal	0	0	50.0308692	7.7496857	0.73243585	0.10259145	0	0
Block Swap Yard									
	Demo/Site Prep/Mobilizatio	4.22620953	0.77638247	0	0	0	0	0	0
	Mass Grading	0	0	17.3538808	2.68808286	0	0	0	0
	Drainage and Underground	0	0	36.738535	5.69072862	9.5216661	1.3336888	0	0
	Bridges and Box Culverts	0	0	36.738535	5.69072862	9.5216661	1.3336888	0	0
	Fine Grading/Place Subballas	0	0	23.4462007	3.63177153	44.6785871	6.25807822	0	0
	Track and Signal	0	0	0	0	48.8290569	6.83942975	14.1548502	2.37912872
North Main									
	Demo/Site Prep/Mobilizatio	4.22620953	0.77638247	0	0	0	0	0	0
	Mass Grading	0	0	17.3538808	2.68808286	0	0	0	0
	Bridges and Box Culverts	0	0	0	0	22.9496568	3.21453198	0	0
	Fine Grading/Place Subballas	0	0	0	0	11.2306831	1.57306884	0	0
	Track and Signal	0	0	0	0	4.88290569	0.68394297	14.1548502	2.37912872
Transload Warehouses									
	Warehouse Construction	0	0	27.8769788	4.31809056	30.02987	4.20624929	0	0
	Civil Site Improvements	0	0	0	0	55.1768343	7.72855561	0	0
33 kV Distribution									
	33kV Distribution	11.6842263	2.14646919	57.7847309	8.950744	26.611836	3.72748921	0	0
Solar									
	Solar	0	0	45.4154754	7.03477005	12.2072642	1.70985744	0	0
		92.7280091	**17.0347448**	**532.616449**	**82.5012666**	**280.034641**	**39.2241296**	**28.3097004**	**4.75825744**

		tons/year							
		2025		2026		2027		2028	
		PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
South Main									
	Demo/Site Prep/Mobilizatio	1.1300582	0.2142256	0	0	0	0	0	0
	Mass Grading	2.9913306	0.5670679	4.9782682	0.8173593	0	0	0	0
	Bridges and Box Culverts	2.9913306	0.5670679	6.1730525	1.0135256	0	0	0	0
	Fine Grading/Place Subballas	0	0	1.095219	0.1798191	0	0	0	0
	Track and Signal	0	0	6.4717486	1.0625671	0	0	0	0
Intermodal Facility									
	Demo/Site Prep/Mobilizatio	1.1300582	0.2142256	0	0	0	0	0	0
	Mass Grading	4.1878628	0.793895	0.7965229	0.1307775	0	0	0	0
	Drainage and Underground	3.3901747	0.6426769	9.1600134	1.5039412	0	0	0	0
	Bridges and Box Culverts	2.5924865	0.4914588	10.354798	1.7001074	0	0	0	0
	Fine Grading/Place Subballas	0.9971102	0.1890226	5.5756603	0.9154424	0	0	0	0
	Buildings/Pavement	0	0	14.685891	2.41121	0.991793	0.1500423	0	0
	Track and Signal	0	0	13.491107	2.2150438	0.1983586	0.0300085	0	0
Block Swap Yard									
	Demo/Site Prep/Mobilizatio	1.1300582	0.2142256	0	0	0	0	0	0
	Mass Grading	0	0	4.6795721	0.7683178	0	0	0	0
	Drainage and Underground	0	0	9.9067536	1.6265451	2.5786617	0.39011	0	0
	Bridges and Box Culverts	0	0	9.9067536	1.6265451	2.5786617	0.39011	0	0
	Fine Grading/Place Subballas	0	0	6.3224006	1.0380463	12.099874	1.830516	0	0
	Track and Signal	0	0	0	0	13.223906	2.000564	3.802281	0.6682382
North Main									
	Demo/Site Prep/Mobilizatio	1.1300582	0.2142256	0	0	0	0	0	0
	Mass Grading	0	0	4.6795721	0.7683178	0	0	0	0
	Bridges and Box Culverts	0	0	0	0	6.215236	0.9402651	0	0
	Fine Grading/Place Subballas	0	0	0	0	3.0414985	0.4601297	0	0
	Track and Signal	0	0	0	0	1.3223906	0.2000564	3.802281	0.6682382
Transload Warehouses									
	Warehouse Construction	0	0	7.5171849	1.2342126	8.1327024	1.2303468	0	0
	Civil Site Improvements	0	0	0	0	14.943014	2.2606373	0	0
33 kV Distribution									
	33kV Distribution	3.1242786	0.5922709	15.581979	2.5583347	7.207029	1.0903074	0	0
Solar									
	Solar	0	0	12.24654	2.0107039	3.3059766	0.500141	0	0
		24.794807	**4.7003626**	**143.62304**	**23.580817**	**75.839103**	**11.473234**	**7.604562**	**1.3364764**

Appendix A1.4: On-Road Mobile Sources

Construction Mobile Source Emissions Summary

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2025 Annual	Trucks	Onsite	0.02	0.30	0.25	0.00	0.00	0.00	0.02	0	0	39	41
(Tons/Year)		Offsite	0.13	5.11	1.68	0.05	0.40	0.17	0.27	0	1	4,888	5,095
(MT/yr for GHG)	Cars		0.78	0.01	10.78	0.02	0.14	0.05	0.88	0	0	2,131	2,152
2026 Annual	Trucks	Onsite	0.12	2.15	1.77	0.00	0.01	0.00	0.16	0	0	275	289
(Tons/Year)		Offsite	0.92	36.04	11.87	0.36	2.83	1.23	1.92	1	5	34,502	35,965
(MT/yr for GHG)	Cars		2.80	0.01	38.73	0.08	0.50	0.18	3.15	0	0	7,653	7,727
2027 Annual	Trucks	Onsite	0.07	1.24	1.02	0.00	0.00	0.00	0.09	0	0	159	167
(Tons/Year)		Offsite	0.53	20.76	6.84	0.20	1.63	0.71	1.10	0	3	19,879	20,722
(MT/yr for GHG)	Cars		1.02	0.01	14.08	0.03	0.18	0.07	1.15	0	0	2,782	2,809
2028 Annual	Trucks	Onsite	0.01	0.10	0.09	0.00	0.00	0.00	0.01	0	0	13	14
(Tons/Year)		Offsite	0.04	1.75	0.58	0.02	0.14	0.06	0.09	0	0	1,678	1,749
(MT/yr for GHG)	Cars		0.19	0.00	2.62	0.01	0.03	0.01	0.21	0	0	518	523

Total (Tons/Year)		ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2025		0.93	5.42	12.72	0.07	0.54	0.23	1.17	0	1	7,058	7,288
2026		3.84	38.20	52.36	0.44	3.33	1.42	5.23	1	5	42,430	43,981
2027		1.61	22.01	21.93	0.24	1.82	0.78	2.34	1	3	22,819	23,697
2028		0.24	1.86	3.29	0.02	0.17	0.07	0.31	0	0	2,209	2,286
	Total	6.62	67.48	90.29	0.77	5.86	2.49	9.06	2	9	74,517	77,252
	Amortized											2,575

Maximum Daily Emissions

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG
2025 Summer	Trucks	Onsite	0.42	7.19	5.90	0.01	0.02	0.01	0.58
(Lbs/Day)		Offsite	3.19	116.66	40.85	1.22	9.71	4.23	6.64
	Cars		17.72	17.16	281.77	0.53	3.03	1.12	19.89
2026 Summer	Trucks	Onsite	1.02	17.43	14.31	0.02	0.05	0.02	1.40
(Lbs/Day)		Offsite	7.74	282.74	99.00	2.95	23.54	10.24	16.08
	Cars		20.93	20.27	332.68	0.63	3.58	1.32	23.48
2027 Summer	Trucks	Onsite	0.63	10.72	8.80	0.01	0.03	0.01	0.86
(Lbs/Day)		Offsite	4.76	173.86	60.88	1.82	14.48	6.30	9.89
	Cars		12.42	12.03	197.43	0.37	2.12	0.78	13.93
2028 Summer	Trucks	Onsite	0.14	2.40	1.97	0.00	0.01	0.00	0.19
(Lbs/Day)		Offsite	1.07	39.00	13.66	0.41	3.25	1.41	2.22
	Cars		2.38	2.30	37.84	0.07	0.41	0.15	2.67

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG
2025 Winter	Trucks	Onsite	0.38	7.62	6.23	0.01	0.02	0.01	0.53
(Lbs/Day)		Offsite	3.14	122.27	40.78	1.22	9.71	4.23	6.57
	Cars		17.19	19.56	220.80	0.50	3.03	1.12	19.30
2026 Winter	Trucks	Onsite	0.91	18.48	15.09	0.02	0.05	0.03	1.28
(Lbs/Day)		Offsite	7.61	296.32	98.84	2.95	23.54	10.24	15.92
	Cars		20.30	23.09	260.69	0.59	3.58	1.32	22.78
2027 Winter	Trucks	Onsite	0.56	11.36	9.28	0.01	0.03	0.02	0.79
(Lbs/Day)		Offsite	4.68	182.21	60.78	1.82	14.48	6.30	9.79
	Cars		12.05	13.70	154.71	0.35	2.12	0.78	13.52
2028 Winter	Trucks	Onsite	0.56	11.36	9.28	0.01	0.03	0.02	0.79
(Lbs/Day)		Offsite	4.68	182.21	60.78	1.82	14.48	6.30	9.79
	Cars		12.05	13.70	154.71	0.35	2.12	0.78	13.52

	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG
Summer (pounds per day)							
2025	21.34	141.02	328.53	1.76	12.76	5.35	27.10
2026	29.69	320.43	445.99	3.61	27.17	11.58	40.96
2027	17.81	196.61	267.11	2.20	16.63	7.09	24.68
2028	3.59	43.71	53.47	0.48	3.66	1.57	5.08
Winter (pounds per day)							
2025	20.71	149.45	267.81	1.73	12.77	5.35	26.39
2026	28.82	337.89	374.63	3.57	27.17	11.59	39.98
2027	17.29	207.28	224.77	2.18	16.63	7.10	24.10
2028	17.29	207.28	224.77	2.18	16.63	7.10	24.10
Maximum (pounds per day)							
2025	21.34	149.45	328.53	1.76	12.77	5.35	27.10
2026	29.69	337.89	445.99	3.61	27.17	11.59	40.96
2027	17.81	207.28	267.11	2.20	16.63	7.10	24.68
2028	17.29	207.28	224.77	2.18	16.63	7.10	24.10

Construction Mobile Source Emissions - Offsite Trucks

		2025	2026	2027	2028
Peak Day					
	Truck Trips:	714	1,732	1,065	239
	VMT:	42,868	103,892	63,886	14,331
Annual					
	Truck Trips:	59,004	416,465	239,955	20,250
	VMT:	3,540,240	24,987,900	14,397,300	1,215,000
Trip Length (miles):		60			

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0.5	0.5	0	0	0	0	0

* Fleet mix per CalEEMod 2022 User Guide Appendix C: Calculation Details for CalEEMod, 4.6.4 Vehicle Fleet Mix, page C-20, April 2022.

Emissions Summary

Annual	Tons/Year							MT/Year			
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
2025	0.13	5.11	1.68	0.05	0.40	0.17	0.27	0.12	0.69	4,888.14	5,095.44
2026	0.92	36.04	11.87	0.36	2.83	1.23	1.92	0.83	4.84	34,501.70	35,964.86
2027	0.53	20.76	6.84	0.20	1.63	0.71	1.10	0.48	2.79	19,878.88	20,721.91
2028	0.04	1.75	0.58	0.02	0.14	0.06	0.09	0.04	0.24	1,677.59	1,748.74

Summer	Lbs/Day						
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
2025	3.19	116.66	40.85	1.22	9.71	4.23	6.64
2026	7.74	282.74	99.00	2.95	23.54	10.24	16.08
2027	4.76	173.86	60.88	1.82	14.48	6.30	9.89
2028	1.07	39.00	13.66	0.41	3.25	1.41	2.22

Winter	Lbs/Day						
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
2025	3.14	122.27	40.78	1.22	9.71	4.23	6.57
2026	7.61	296.32	98.84	2.95	23.54	10.24	15.92
2027	4.68	182.21	60.78	1.82	14.48	6.30	9.79
2028	1.05	40.87	13.63	0.41	3.25	1.41	2.20

Construction Mobile Source Emissions - On-Site Trucks

		2025	2026	2027	2028
Peak Day					
	Truck Trips:	714	1,732	1,065	239
	VMT:	71	173	106	24
Annual					
	Truck Trips:	59,004	416,465	239,955	20,250
	VMT:	5,900	41,647	23,996	2,025
Trip Length (miles):		0.1			

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0.5	0.5	0	0	0	0	0

* Fleet mix per CalEEMod 2022 User Guide Appendix C: Calculation Details for CalEEMod, 4.6.4 Vehicle Fleet Mix, page C-20, April 2022.

Emissions Summary

Annual	Tons/Year							MT/Year			
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
2025	0.02	0.30	0.25	0.00	0.00	0.00	0.02	0.00	0.01	39.02	41.00
2026	0.12	2.15	1.77	0.00	0.01	0.00	0.16	0.03	0.04	275.42	289.38
2027	0.07	1.24	1.02	0.00	0.00	0.00	0.09	0.02	0.03	158.69	166.73
2028	0.01	0.10	0.09	0.00	0.00	0.00	0.01	0.00	0.00	13.39	14.07

Summer	Lbs/Day						
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
2025	0.42	7.19	5.90	0.01	0.02	0.01	0.58
2026	1.02	17.43	14.31	0.02	0.05	0.02	1.40
2027	0.63	10.72	8.80	0.01	0.03	0.01	0.86
2028	0.14	2.40	1.97	0.00	0.01	0.00	0.19

Winter	Lbs/Day						
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
2025	0.38	7.62	6.23	0.01	0.02	0.01	0.53
2026	0.91	18.48	15.09	0.02	0.05	0.03	1.28
2027	0.56	11.36	9.28	0.01	0.03	0.02	0.79
2028	0.13	2.55	2.08	0.00	0.01	0.00	0.18

Construction Mobile Source Emissions - Cars (Max Daily)

		Peak Daily Worker Trips				Trip Length	VMT			
		2025	2026	2027	2028	(miles)	2025	2026	2027	2028
Passenger Cars:	Civil and Site V	245	435	410	150	35	8,575	15,225	14,350	5,250
	Bridges and Bc	0	425	150	0	35	0	14,875	5,250	0
	IMF Infrastruc	0	0	450	665	35	0	0	15,750	23,275
	Shoofly	0	143	133	0	35	0	4,988	4,638	0
	Track and Sign	0	203	218	160	35	0	7,088	7,613	5,600
	Hinkley Road F	438	438	0	0	35	15,313	15,313	0	0
Total:		*683*	*1,643*	*1,360*	*975*	-	23,888	57,488	47,600	34,125

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.25	0.50	0.25	0	0	0	0	0	0	0	0	0	0

Summer	Maximum Lbs/Day						
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
2025	5.91	5.72	93.90	0.18	1.01	0.37	6.63
2026	14.21	13.77	225.98	0.43	2.43	0.90	15.95
2027	11.77	11.40	187.11	0.35	2.01	0.74	13.21
2028	8.44	8.17	134.14	0.25	1.44	0.53	9.47

Winter	Maximum Lbs/Day						
	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
2025	5.73	6.52	73.58	0.17	1.01	0.37	6.43
2026	13.79	15.69	177.08	0.40	2.43	0.90	15.48
2027	11.42	12.99	146.63	0.33	2.01	0.74	12.81
2028	8.18	9.31	105.12	0.24	1.44	0.53	9.19

Construction Mobile Source Emissions Factors

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2024
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

		Emissions Rate (g/mile or g/trip)												
Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.00535541	0.00354187	0.01704149	0.128840145	0.021054064	0	0	0.419586828	0
A	CH4_RUNEX	0.002420159	0.0093256	0.003378678	0.004899566	0.003406421	0.001281459	0.00805362	0.055758887	0.035275237	2.342931649	0.173960165	1.103713866	0.009318354
A	CH4_STREX	0.063900457	0.115799143	0.078189375	0.099445994	0.022250966	0.0140529	0.01166022	6.31653E-08	0.025492772	0.013921844	0.171159514	0.006808097	0.026569978
A	CO_IDLEX	0	0	0	0	0.193608268	0.149058163	0.64974459	5.659084947	0.563028174	0	0	2.66813818	0
A	CO_RUNEX	0.727789429	1.914416965	0.9139569	1.126176368	0.671868072	0.279916256	0.35356722	0.380875023	0.927034983	32.90418649	12.94039258	4.475099002	1.161828426
A	CO_STREX	2.790825742	5.770605182	3.384100504	3.752136427	2.06167071	1.266456948	1.31466466	0.00308145	2.774009607	1.173710115	7.538888605	0.900126261	2.345304277
A	CO2_NBIO_IDLEX	0	0	0	0	8.75938943	13.49308231	142.22183	894.3126181	80.42324695	0	0	251.1794672	0
A	CO2_NBIO_RUNEX	265.307456	340.8270066	345.6348661	423.2456194	387.1001614	254.541867	1195.32949	1548.672645	1496.252414	2241.867446	192.4534519	1201.106072	1543.633515
A	CO2_NBIO_STREX	65.64608568	87.73254864	85.2046371	103.8617428	17.43544073	10.87059769	11.674968	0.038241825	22.70727924	11.86280224	47.46952029	5.458189501	22.31033255
A	NOX_IDLEX	0	0	0	0	0.0511324	0.08715058	0.75227425	4.455647388	0.311167963	0	0	1.26593272	0
A	NOX_RUNEX	0.038548862	0.176000894	0.072521968	0.116967893	0.103982125	0.056167393	0.80265596	1.661791613	1.093884284	0.507250258	0.561209228	2.643430485	1.35318173
A	NOX_STREX	0.22849296	0.424311935	0.315826603	0.424983318	0.421293643	0.272087284	1.30459348	2.614636078	0.702424542	0.11091014	0.132632819	0.234884427	0.294100163
A	PM10_IDLEX	0	0	0	0	0.000707968	0.0012621	0.00147217	0.002234377	0.000418287	0	0	0.001688059	0
A	PM10_PMBW	0.007702364	0.009828583	0.009346434	0.009455387	0.048875655	0.032936326	0.04297061	0.0784509	0.053261135	0.107318527	0.012000003	0.04678947	0.042799457
A	PM10_PMTW	0.008000002	0.008000002	0.008000002	0.008000002	0.005030857	0.002912798	0.012	0.035476744	0.012000003	0.029869266	0.004000001	0.010226122	0.013175332
A	PM10_RUNEX	0.001363686	0.002457035	0.001469483	0.00157259	0.000740465	0.000371446	0.00924025	0.0273609	0.018145884	0.000730124	0.002114927	0.014774654	0.033599807
A	PM10_STREX	0.002003539	0.003279614	0.002092664	0.002179349	0.000231547	0.000112454	0.00012847	9.93193E-07	0.000219865	8.23526E-05	0.003485897	5.27085E-05	0.000290743
A	PM25_IDLEX	0	0	0	0	0.000677342	0.001207502	0.00140797	0.002134421	0.000399798	0	0	0.001602653	0
A	PM25_PMBW	0.002695827	0.003440004	0.003271252	0.003309386	0.017106479	0.011527714	0.01503971	0.027457815	0.018641397	0.037561485	0.004200001	0.016376315	0.01497981
A	PM25_PMTW	0.002000001	0.002000001	0.002000001	0.002000001	0.001257714	0.0007282	0.003	0.008869186	0.003000001	0.007467317	0.001	0.00255653	0.003293833
A	PM25_RUNEX	0.001255512	0.00226113	0.001351834	0.001450665	0.000680831	0.000341531	0.00883242	0.026174138	0.017344491	0.000691491	0.001977867	0.01407581	0.032112577
A	PM25_STREX	0.001842181	0.003015569	0.001924135	0.002003908	0.000212899	0.000103397	0.00011813	9.13205E-07	0.000202158	7.57202E-05	0.003276178	4.84635E-05	0.000267327
A	ROG_DIURN	0.304036259	0.802898524	0.309388183	0.408794439	0.137198415	0.0832864	0.03551483	0.000274265	0.115587846	0.022614269	2.200121546	0.054575363	33.67826026
A	ROG_HTSK	0.085891966	0.205628739	0.082036547	0.102181688	0.033501119	0.020141702	0.00834	7.03104E-05	0.026990516	0.007006501	3.606729824	0.012964008	8.41945619
A	ROG_IDLEX	0	0	0	0	0.021626938	0.016943432	0.02672357	0.367211163	0.049359271	0	0	0.266171609	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.009216174	0.041782279	0.01333326	0.020824282	0.016977174	0.005882207	0.0246623	0.014376733	0.055302641	0.037395665	1.135373868	0.087985199	0.056305177
A	ROG_RUNLS	0.024269902	0.072334896	0.024683706	0.035122076	0.064944762	0.036375709	0.01909871	6.92682E-05	0.038269269	0.000515608	1.17772471	0.013132258	0.002024672
A	ROG_STREX	0.287319099	0.604331603	0.357527218	0.493481582	0.10811892	0.068043607	0.06225006	3.26166E-07	0.135143102	0.056511844	1.266469316	0.039317408	0.106904046
A	SO2_IDLEX	0	0	0	0	8.52179E-05	0.000129481	0.00131294	0.008080382	0.000734445	0	0	0.001436391	0
A	SO2_RUNEX	0.002622631	0.003369387	0.003416505	0.004181916	0.003826879	0.002516405	0.01138173	0.014249072	0.014047559	0.00210469	0.001902598	0.007686045	0.015139835
A	SO2_STREX	0.000648978	0.000867326	0.000842335	0.001026779	0.000172367	0.000107467	0.00011542	3.78059E-07	0.000224485	0.000117276	0.000469285	5.39598E-05	0.00022056
A	TOG_DIURN	0.304036259	0.802898524	0.309388183	0.408794439	0.137198415	0.0832864	0.03551483	0.000274265	0.115587846	0.022614269	2.200121546	0.054575363	33.67826026
A	TOG_HTSK	0.085891966	0.205628739	0.082036547	0.102181688	0.033501119	0.020141702	0.00834	7.03104E-05	0.026990516	0.007006501	3.606729824	0.012964008	8.41945619
A	TOG_IDLEX	0	0	0	0	0.030658032	0.023125788	0.0476384	0.530395238	0.077860352	0	0	0.747208431	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.013425779	0.06094034	0.019437239	0.030295826	0.024773053	0.008583302	0.03671535	0.071809086	0.100138964	2.395479732	1.367198174	1.210461224	0.075761614
A	TOG_RUNLS	0.024269902	0.072334896	0.024683706	0.035122076	0.064944762	0.036375709	0.01909871	6.92682E-05	0.038269269	0.000515608	1.17772471	0.013132258	0.002024672
A	TOG_STREX	0.314578248	0.661666379	0.391447232	0.540298725	0.118376609	0.074499185	0.06815598	3.5711E-07	0.147964686	0.061873356	1.376893108	0.043047612	0.117046474
A	N2O_IDLEX	0	0	0	0	0.000666365	0.001586564	0.02158957	0.142797764	0.010857048	0	0	0.036457094	0
A	N2O_RUNEX	0.004372417	0.012146299	0.006310693	0.009358607	0.005871915	0.003472813	0.13853956	0.245990619	0.124852951	0.42031904	0.03914264	0.157875095	0.062881359
A	N2O_STREX	0.030329834	0.040359635	0.035937628	0.040301829	0.034438037	0.021566113	0.00840896	1.30749E-05	0.021853868	0.01170652	0.007909994	0.006128038	0.032158024
S	CH4_IDLEX	0	0	0	0	0.00537293	0.003553236	0.01687048	0.129825644	0.021131029	0	0	0.419651542	0
S	CH4_RUNEX	0.00252641	0.009716964	0.003521999	0.00511679	0.00169405	0.002693049	0.0081072	0.055760128	0.035405424	0.342943446	0.173564292	1.103844507	0.009544368
S	CH4_STREX	0.05719259	0.102912815	0.070008055	0.088752611	0.021467367	0.013565647	0.01123992	6.04596E-08	0.024467254	0.012860428	0.152848133	0.00594168	0.025301568
S	CO_IDLEX	0	0	0	0	0.193608268	0.149058163	0.585233	5.584865651	0.55665327	0	0	2.655960923	0
S	CO_RUNEX	0.893752423	2.344308688	1.118805954	1.387099213	0.108937582	0.15122365	0.35957571	0.381242929	0.942207311	32.90545583	12.91557054	4.48851147	1.193400623
S	CO_STREX	2.387523809	4.902895424	2.893985781	3.205562837	1.967199674	1.209203366	1.24802884	0.00292923	2.610379119	1.026167536	6.818084828	0.704691458	2.195236759
S	CO2_NBIO_IDLEX	0	0	0	0	8.75938943	13.49308231	141.43163	884.2051937	79.73066689	0	0	254.2726199	0
S	CO2_NBIO_RUNEX	280.6159171	358.633965	361.5847171	440.613952	182.2160289	371.1769373	1195.34008	1548.673267	1496.27923	2241.869596	192.3752588	1201.130188	1543.688804
S	CO2_NBIO_STREX	64.89496469	86.11179979	84.28920246	102.7997716	17.27154507	10.77106467	11.5609562	0.03800026	22.42828845	11.61336829	45.83872201	5.131231895	22.05582254
S	NOX_IDLEX	0	0	0	0	0.0511324	0.08715058	0.73030025	4.252876333	0.298341169	0	0	1.295007033	0
S	NOX_RUNEX	0.033069001	0.151012822	0.062212627	0.100444395	0.518376607	0.710529998	0.7519389	1.568636258	1.018625356	0.504660985	0.489365531	2.47664219	1.258132849
S	NOX_STREX	0.213138128	0.396237052	0.294746638	0.397028838	0.403605497	0.260767966	1.3000206	2.614614084	0.689711409	0.105765106	0.12500013	0.231044209	0.280843486
S	PM10_IDLEX	0	0	0	0	0.000707968	0.0012621	0.00124988	0.001967703	0.000358757	0	0	0.001477065	0
S	PM10_PMBW	0.007702364	0.009828583	0.009346434	0.009455387	0.029124367	0.0580637	0.04297061	0.0784509	0.053261135	0.107318527	0.012000003	0.04678947	0.042799457
S	PM10_PMTW	0.008000002	0.008000002	0.008000002	0.008000002	0.004489657	0.0076654	0.012	0.035476744	0.012000003	0.029869266	0.004000001	0.010226122	0.013175332
S	PM10_RUNEX	0.001363686	0.002457035	0.001469483	0.00157259	0.008833376	0.014217682	0.00924025	0.0273609	0.018145884	0.000730124	0.002114927	0.014774654	0.033599807
S	PM10_STREX	0.002003539	0.003279614	0.002092664	0.002179349	0.000231547	0.000112454	0.00012847	9.93193E-07	0.000219865	8.23526E-05	0.003485897	5.27085E-05	0.000290743
S	PM25_IDLEX	0	0	0	0	0.000677342	0.001207502	0.00119529	0.001879283	0.000342842	0	0	0.001400787	0
S	PM25_PMBW	0.002695827	0.003440004	0.003271252	0.003309386	0.010193529	0.020322295	0.01503971	0.027457815	0.018641397	0.037561485	0.004200001	0.016376315	0.01497981
S	PM25_PMTW	0.002000001	0.002000001	0.002000001	0.002000001	0.001122414	0.00191635	0.003	0.008869186	0.003000001	0.007467317	0.001	0.00255653	0.003293833
S	PM25_RUNEX	0.001255512	0.00226113	0.001351834	0.001450665	0.008451248	0.013602632	0.00883242	0.026174138	0.017344491	0.000691491	0.001977867	0.01407581	0.032112577
S	PM25_STREX	0.001842181	0.003015569	0.001924135	0.002003908	0.000212899	0.000103397	0.00011813	9.13205E-07	0.000202158	7.57202E-05	0.003276178	4.84635E-05	0.000267327
S	ROG_DIURN	0.366786615	0.985051017	0.367227352	0.480526263	0.163359338	0.098173168	0.04418165	0.000369467	0.141865652	0.031302576	2.973998156	0.067348777	41.65204695
S	ROG_HTSK	0.090626956	0.219053951	0.086455193	0.107668679	0.035496442	0.021271595	0.00880685	7.54536E-05	0.028367154	0.007441737	3.732403289	0.013605879	9.005543599
S	ROG_IDLEX	0	0	0	0	0.021626938	0.016943432	0.02633107	0.388428671	0.050559422	0	0	0.266051452	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.009518289	0.04323398	0.013769368	0.021541701	0.036471906	0.05797975	0.02490819	0.014385432	0.055938102	0.037427251	1.122131951	0.088641922	0.057508628
S	ROG_RUNLS	0.02470445	0.073774408	0.025092607	0.035654058	0.066282392	0.037035398	0.01944773	7.13998E-05	0.038758391	0.000527596	1.185654395	0.013121004	0.002072545
S	ROG_STREX	0.254215631	0.531709544	0.316514963	0.435516951	0.10395106	0.065456662	0.05978441	3.13084E-07	0.129378909	0.051947401	1.119746482	0.034295929	0.102021176
S	SO2_IDLEX	0	0	0	0	8.52179E-05	0.000129481	0.00130558	0.00798467	0.000727887	0	0	0.001465682	0
S	SO2_RUNEX	0.002773971	0.003545426	0.003574185	0.00435362	0.001726589	0.00351709	0.01138184	0.014249078	0.014047824	0.002104711	0.001901825	0.007686284	0.015140382
S	SO2_STREX	0.000641553	0.000851303	0.000833285	0.00101628	0.000170747	0.000106483	0.00011429	3.75671E-07	0.000221726	0.00011481	0.000453162	5.07275E-05	0.000218044
S	TOG_DIURN	0.366786615	0.985051017	0.367227352	0.480526263	0.163359338	0.098173168	0.04418165	0.000369467	0.141865652	0.031302576	2.973998156	0.067348777	41.65204695
S	TOG_HTSK	0.090626956	0.219053951	0.086455193	0.107668679	0.035496442	0.021271595	0.00880685	7.54536E-05	0.028367154	0.007441737	3.732403289	0.013605879	9.005543599
S	TOG_IDLEX	0	0	0	0	0.030658032	0.023125788	0.04694351	0.554549756	0.079226633	0	0	0.747071642	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.013866624	0.063058128	0.020073561	0.031341871	0.04152084	0.06600609	0.03707415	0.07182178	0.101066227	2.395525822	1.35426676	1.211419513	0.077517686
S	TOG_RUNLS	0.02470445	0.073774408	0.025092607	0.035654058	0.066282392	0.037035398	0.01944773	7.13998E-05	0.038758391	0.000527596	1.185654395	0.013121004	0.002072545
S	TOG_STREX	0.278334117	0.58215448	0.346543987	0.476835028	0.113813326	0.071666805	0.06545641	3.42787E-07	0.14165362	0.056875865	1.217464726	0.037549725	0.111700346
S	N2O_IDLEX	0	0	0	0	0.00066894	0.00158821	0.02142501	0.141205336	0.010752725	0	0	0.037006536	0
S	N2O_RUNEX	0.00389138	0.010843749	0.005634321	0.008432106	0.02870821	0.058479078	0.13812921	0.24598562	0.123834491	0.420147652	0.035554019	0.15672767	0.061359371
S	N2O_STREX	0.029277432	0.039082724	0.034725815	0.039011495	0.033610805	0.021068939	0.00826121	1.28061E-05	0.021426025	0.011558933	0.007768312	0.005962952	0.031951525
W	CH4_IDLEX	0	0	0	0	0.005352442	0.00353971	0.01729041	0.127479219	0.020972432	0	0	0.419577002	0
W	CH4_RUNEX	0.002393512	0.009216813	0.003340526	0.00484168	0.00169405	0.002693049	0.00803649	0.055758572	0.03524866	2.342929758	0.173813444	1.10369021	0.009265539
W	CH4_STREX	0.065305224	0.11857228	0.079977082	0.101722826	0.022385826	0.014148118	0.01173366	6.37307E-08	0.025719454	0.01410129	0.174026301	0.007011504	0.026808702
W	CO_IDLEX	0	0	0	0	0.193608268	0.149058163	0.73979065	5.761578262	0.571831613	0	0	2.684954393	0
W	CO_RUNEX	0.674697244	1.772540952	0.846518761	1.041682384	0.108937582	0.15122365	0.35177789	0.380784953	0.92404724	32.90395569	12.88988581	4.472542594	1.154563375
W	CO_STREX	2.877828818	5.961009091	3.494215302	3.871989736	2.075503085	1.275912204	1.32728256	0.00311606	2.805744055	1.19542218	7.636947222	0.939051964	2.369127503
W	CO2_NBIO_IDLEX	0	0	0	0	8.75938943	13.49308231	143.307469	908.2704899	81.37966704	0	0	246.9079706	0
W	CO2_NBIO_RUNEX	260.2488433	334.7714268	340.220866	417.4183025	182.2160289	371.1769373	1195.32634	1548.672494	1496.247131	2241.867058	192.3742	1201.101515	1543.620765
W	CO2_NBIO_STREX	65.80778779	88.08702601	85.40965718	104.0936102	17.45977057	10.88729537	11.6968134	0.038296747	22.76190947	11.89986572	47.70027762	5.523873088	22.35115907
W	NOX_IDLEX	0	0	0	0	0.0511324	0.08715058	0.78261854	4.735664559	0.328881154	0	0	1.225782479	0
W	NOX_RUNEX	0.037798967	0.172865621	0.071205043	0.114769932	0.540236747	0.739994757	0.78958932	1.640537977	1.074835813	0.506757758	0.549460015	2.604599281	1.331004285
W	NOX_STREX	0.231528966	0.42999608	0.32016512	0.430466934	0.424125124	0.274182606	1.30558547	2.614639611	0.704897476	0.111716195	0.133998262	0.235935258	0.296034534
W	PM10_IDLEX	0	0	0	0	0.000707968	0.0012621	0.00177915	0.002602641	0.000500496	0	0	0.001979431	0
W	PM10_PMBW	0.007702364	0.009828583	0.009346434	0.009455387	0.029124367	0.0580637	0.04297061	0.0784509	0.053261135	0.107318527	0.012000003	0.04678947	0.042799457
W	PM10_PMTW	0.008000002	0.008000002	0.008000002	0.008000002	0.004489657	0.0076654	0.012	0.035476744	0.012000003	0.029869266	0.004000001	0.010226122	0.013175332
W	PM10_RUNEX	0.001363686	0.002457035	0.001469483	0.00157259	0.008833376	0.014217682	0.00924025	0.0273609	0.018145884	0.000730124	0.002114927	0.014774654	0.033599807
W	PM10_STREX	0.002003539	0.003279614	0.002092664	0.002179349	0.000231547	0.000112454	0.00012847	9.93193E-07	0.000219865	8.23526E-05	0.003485897	5.27085E-05	0.000290743
W	PM25_IDLEX	0	0	0	0	0.000677342	0.001207502	0.00170166	0.002486754	0.00047845	0	0	0.001881421	0
W	PM25_PMBW	0.002695827	0.003440004	0.003271252	0.003309386	0.010193529	0.020322295	0.01503971	0.027457815	0.018641397	0.037561485	0.004200001	0.016376315	0.01497981
W	PM25_PMTW	0.002000001	0.002000001	0.002000001	0.002000001	0.001122414	0.00191635	0.003	0.008869186	0.003000001	0.007467317	0.001	0.00255653	0.003293833
W	PM25_RUNEX	0.001255512	0.00226113	0.001351834	0.001450665	0.008451248	0.013602632	0.00883242	0.026174138	0.017344491	0.000691491	0.001977867	0.01407581	0.032112577

W	PM25_STREX	0.001842181	0.003015569	0.001924135	0.002003908	0.000212899	0.000103397	0.00011813	9.13205E-07	0.000202158	7.57202E-05	0.003276178	4.84635E-05	0.000267327
W	ROG_DIURN	0.29764214	0.775864418	0.303153048	0.402112877	0.133662052	0.08120452	0.03486477	0.000265625	0.11547702	0.022355411	2.143059523	0.055268649	32.66965759
W	ROG_HTSK	0.085092501	0.203081238	0.081261971	0.101266527	0.033158073	0.019926162	0.00824164	6.92218E-05	0.026763323	0.006933685	3.596245372	0.012858294	8.331859275
W	ROG_IDLEX	0	0	0	0	0.021626938	0.016943432	0.02728031	0.337910794	0.047701919	0	0	0.26633754	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNEX	0.009132522	0.041345008	0.013206202	0.020611769	0.036471906	0.05797975	0.0245893	0.014374684	0.055176858	0.037390544	1.136023291	0.08786918	0.056021877
W	ROG_RUNLS	0.0246471	0.074174793	0.024991159	0.035531138	0.066524789	0.03713135	0.01954835	7.22753E-05	0.039039341	0.000532777	1.26791209	0.013311452	0.002081268
W	ROG_STREX	0.294360733	0.619919636	0.366547457	0.505893617	0.108828099	0.068548247	0.06279331	3.28831E-07	0.136416622	0.057289878	1.289100325	0.040484783	0.107805115
W	SO2_IDLEX	0	0	0	0	8.52179E-05	0.000129481	0.00132305	0.008212554	0.000743502	0	0	0.001395943	0
W	SO2_RUNEX	0.002572622	0.003309521	0.003362982	0.004124307	0.001726589	0.00351709	0.0113817	0.01424907	0.014047506	0.002104686	0.001901815	0.007686	0.015139709
W	SO2_STREX	0.000650577	0.00087083	0.000844361	0.001029071	0.000172608	0.000107632	0.00011563	3.78602E-07	0.000225025	0.000117642	0.000471566	5.46091E-05	0.000220964
W	TOG_DIURN	0.29764214	0.775864418	0.303153048	0.402112877	0.133662052	0.08120452	0.03486477	0.000265625	0.11547702	0.022355411	2.143059523	0.055268649	32.66965759
W	TOG_HTSK	0.085092501	0.203081238	0.081261971	0.101266527	0.033158073	0.019926162	0.00824164	6.92218E-05	0.026763323	0.006933685	3.596245372	0.012858294	8.331859275
W	TOG_IDLEX	0	0	0	0	0.030658032	0.023125788	0.04861949	0.497038998	0.075973584	0	0	0.747397331	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.013303715	0.060302532	0.019251859	0.029986236	0.04152084	0.06600609	0.03660882	0.071806098	0.099955422	2.39547226	1.367477536	1.21029193	0.075348223
W	TOG_RUNLS	0.0246471	0.074174793	0.024991159	0.035531138	0.066524789	0.03713135	0.01954835	7.22753E-05	0.039039341	0.000532777	1.26791209	0.013311452	0.002081268
W	TOG_STREX	0.322287951	0.678733288	0.401323255	0.553888286	0.119153069	0.075051702	0.06875077	3.60029E-07	0.14935903	0.062725205	1.401491216	0.044325741	0.118033031
W	N2O_IDLEX	0	0	0	0	0.000666341	0.001586553	0.0218206	0.144996833	0.011008016	0	0	0.03578946	0
W	N2O_RUNEX	0.00429552	0.011963844	0.00620948	0.009219688	0.02870821	0.058479078	0.13847098	0.245990034	0.124662283	0.42028647	0.038541238	0.157684967	0.062640176
W	N2O_STREX	0.030763219	0.040983847	0.036475997	0.040890894	0.03466665	0.021727132	0.00850254	1.31764E-05	0.022077549	0.011849174	0.008030989	0.006239159	0.03256401

Appendix A1.5: Paving and Architectural Coatings

Asphalt Paving (2026)

		Acres	VOC (lbs/day)
Block Swap Yard			
North Repair and Loco Charging Area		3.7	9.80
South Loco Charging Area		5.0	13.11
IMF		1.7	4.49
Transload Warehouses and Roadway		51.7	135.33
	Total	*62.1*	*162.74*

$E = EF \times A \times P$

E =		paving emissions (lb VOC/day).
EF =	2.62	paving emission factor (lb VOC/acre). The default emission factor is 2.62 lb/acre (Sacramento Metropolitan Air Quality Management District 1994).
A =		area paved (acre)
P =	100%	percent of area that is paved with asphalt (%)

Source: CalEEMod 2022 User Guide Appendix C , page C-23, April 2022.

Paving Acerage

	SY	SF	Acres
Block Swap			
North Repair and Loco Charging Area			
8” Asphalt	18,100	162,900	3.7
South Loco Charging Area			
8” Asphalt	24,225	218,025	5.0
IMF			
5" Asphalt	8,300	74,700	1.7
Logistics Park (9M SF of Buildings)			
8" Asphalt Roadway	250,000	2,250,000	51.7

Construction Architectural Coatings

$E_{AC} = EF_{AC} \times F \times A_{paint}$

Where:	E_{AC}=		emissions (lb VOC)
	EF =	0.01158958	emissions factor (lb/sf) (unmitigated)
	EF =	0.00231792	emissions factor (lb/sf) (mitigated)
	A =		building surface area (sf) (assumes 2 times the floor square footage for nonresidential)
	F =	0.25	exterior (fraction of surface area, 25% for exterior)
		0.75	interior (fraction of surface area, 75% for interior)
		0.06	parking Default parking lot area)

Unmitigated		**Painted**	**Emissions (VOC) (2027)**					
	Total SF	**Area SF**	**Exterior**	**Interior**	**Total (lbs)**	**Total (tons)**	**Pounds/Day**	**Days**
IMF Building SF	51,700	103,400	299.5906	898.7718	1,198.36	0.60	4.61	260
Transload Building SF	9,000,000	18,000,000	52153.1	156459.3	208,612.40	104.31	802.36	260
IMF Paved Area SF	800,000	48,000	-	-	33.38	0.02	0.13	260
Transload Parking SF	4,500,000	270,000	-	-	187.75	0.09	0.72	260
					Unmitigated Total:	**105.02**	**807.81**	

Mitigated		**Painted**	**Emissions (VOC) (2027)**					
	Total SF	**Area SF**	**Exterior**	**Interior**	**Total (lbs)**	**Total (tons)**	**Pounds/Day**	**Days**
IMF Building SF	51,700	103,400	59.91812	179.7544	239.67	0.12	0.92	260
Transload Building SF	9,000,000	18,000,000	10430.62	31291.86	41,722.48	20.86	160.47	260
IMF Paved Area SF	800,000	48,000	-	-	0.00	0.00	0.00	260
Transload Parking SF	4,500,000	270,000	-	-	0.00	0.00	0.00	260
					Mitigated Total:	**20.98**	**161.39**	

Emissions Factor

$EF_{AC} = C_{VOC} / 454$ (g/lb) x 3.785 (L/gal)/180 (sf)

Where:	EF =		emissions factor (lb/sf)
	C =	250	VOC content (g/L) (unmitigated)
		50	VOC content (g/L) (mitigated)
	EF_{AC} =	0.01158958	Umitigated
		0.00231792	Mitigated

VOC Content

	Unmitigated
Nonresidential Interior:	250 g/L
Nonresidential Exterior:	250 g/L
Parking:	250 g/L

Unmitigated VOC content per CalEEMod defaults (CalEEMod User Guide, Appendix G, Table G-17)

VOC from Parking Lot Striping

$A_{paint} = A_{PL} \times P\%$

Where:	A_{PL} =		Parking lot area
	P% =	0.06	Default percent of parking lot area that is painted (6%)

Source: Architectural Coatings calculated per California Air Pollution Control Officers Association, *CalEEMod User Guide, Appendix C: Calculation Details, pages C-22 - C-23* , April 2022.

Appendix A1.6: Asphalt Batch Plant

Asphalt Batch Plant Uncontrolled Emissions

Annual Throughput (Tons per Year)

700,000

(Average Annual Throughput for Asphalt Batch Plant Facility is 100,000 tons per year)

Dryer, Hot Screens, and Mixer

Natural Gas

(70-90% of Asphalt Batch Plants use Natural Gas)

Reference: Table 1: Estimated Annual Emissions for a Typical Batch Mix HMA Facility (pg. 18)
Hot Mix Asphalt Plants - Emission Assessment Report (epa.gov)

Year **2026**
Batching Days: 234

Table 11.1-5 Emission Factors

Criteria Air Pollutants	EMISSION FACTORS (Pounds per Year)							Emissions (Pounds per Year)									
	Mobile Sources (Diesel Exhaust)	Material Handling and Road Dust	Natural Gas Fired Dryer, Hot Screens, and Mixer	No. 2 Fuel Oil Fired Dryer, Hot Screens, and Mixer	Load-out	Asphalt Storage	Yard	Mobile Sources (Diesel Exhaust)	Material Handling and Road Dust	Dryer, Hot Screens, and Mixer	Load-out	Asphalt Storage	Yard	Total Emissions (Pounds per Year)	Total Emissions (Pounds per Day)	Total Emissions (Tons per Year)	Total Emissions (Metric Tons per Year)
PM10	0.00046	0.079	4.5	4.5	0.00052	0	0	322	55,300	3,150,000	364	0	0	3,205,986	13,700.79	**1,602.99**	-
PM2.5	-	-	0.27	0.27	-	-	-	-	-	189,000	-	-	-	189,000	807.69	**94.50**	-
VOC	0.001	0	0.0082	0.0082	0.00391	0.00032	0.0011	700	0	5,740	2,737	224	770	10,171	43.47	**5.09**	-
CO	0.007	0	0.4	0.4	0.00135	0.00003	0.00035	4,900	0	280,000	945	21	245	286,111	1,222.70	**143.06**	-
SO2	0.00022	0	0.0046	0.088	0	0	0	154	0	3,220	0	0	0	3,374	14.42	**1.69**	-
NOX	0.0038	0	0.025	0.12	0	0	0	2,660	0	17,500	0	0	0	20,160	86.15	**10.08**	-
CO2	-	-	37	37	-	-	-	-	-	25,900,000	-	-	-	25,900,000	110,683.76	**12,950.00**	**11,748.04**
TOC	-		0.015	0.015	0.0014	-	-	-	-	10,500	980	-	-	11,480	49.06	**5.74**	**5.21**
CH4	-	-	0.0074	0.0074	-	-	-	-	-	5,180	-	-	-	5,180	22.14	**2.59**	**2.35**
CO2e																	**11,811.99**

Table 11.1-2 uncontrolled pm emissions

Asphalt Batch Plant Controlled Emissions

Annual Throughput (Tons per Year)

700,000

(Average Annual Throughput for Asphalt Batch Plant Facility is 100,000 tons per year)

Dryer, Hot Screens, and Mixer

Natural Gas

(70-90% of Asphalt Batch Plants use Natural Gas)

Reference: Table 1: Estimated Annual Emissions for a Typical Batch Mix HMA Facility (pg. 18)

Hot Mix Asphalt Plants - Emission Assessment Report (epa.gov)

Year **2026**

Batching Days: 234

Table 11.1-5 Emission Factors

Criteria Air Pollutants	EMISSION FACTORS (Pounds per Year)							Emissions (Pounds per Year)									
	Mobile Sources (Diesel Exhaust)	Material Handling and Road Dust	Natural Gas Fired Dryer, Hot Screens, and Mixer	No. 2 Fuel Oil Fired Dryer, Hot Screens, and Mixer	Load-out	Asphalt Storage	Yard	Mobile Sources (Diesel Exhaust)	Material Handling and Road Dust	Dryer, Hot Screens, and Mixer	Load-out	Asphalt Storage	Yard	Total Emissions (Pounds per Year)	Total Emissions (Pounds per Day)	Total Emissions (Tons per Year)	Total Emissions (Metric Tons per Year)
PM10	0.00046	0.079	0.027	0.027	0.00052	0	0	322	55,300	18,900	364	0	0	74,886	320.03	**37.44**	-
PM2.5	-	-	0.0083	0.0083	-	-	-	-	-	5,810	-	-	-	5,810	24.83	**2.91**	-
VOC	0.001	0	0.0082	0.0082	0.00391	0.00032	0.0011	700	0	5,740	2,737	224	770	10,171	43.47	**5.09**	-
CO	0.007	0	0.4	0.4	0.00135	0.00003	0.00035	4,900	0	280,000	945	21	245	286,111	1,222.70	**143.06**	-
SO2	0.00022	0	0.0046	0.088	0	0	0	154	0	3,220	0	0	0	3,374	14.42	**1.69**	-
NOX	0.0038	0	0.025	0.12	0	0	0	2,660	0	17,500	0	0	0	20,160	86.15	**10.08**	-
CO2	-	-	37	37		-	-	-	-	25,900,000	-	-	-	25,900,000	110,683.76	**12,950.00**	**11,748.04**
TOC	-	-	0.015	0.015	0.0014	-	-	-	-	10,500	980	-	-	11,480	49.06	**5.74**	**5.21**
CH4	-	-	0.0074	0.0074		-	-	-	-	5,180	-	-	-	5,180	22.14	**2.59**	**2.35**
CO2e																	**11,811.99**

Table 11.1-2 controlled pm emissions (fabric filter) conflicts with emission assessment report 2000 Table 1, which shows 0.027 for PM10

Appendix A1.7: Locomotive Delivery Emissions

Construction Locomotive Emissions Summary

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Construction Hauling	21.67	583.67	142.22	0.50	13.45	13.04
Construction Idle	0.00	0.03	0.01	0.00	0.00	0.00
Total	21.67	583.70	142.23	0.50	13.45	13.04

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
Construction Hauling	5,443	0.14	0.43	5,495
Construction Idle	0	0.00	0.00	0
Total	5,443	0.14	0.43	5,495

	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Construction Hauling	2.38	64.20	15.64	0.06	1.48	1.43
Construction Idle	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.38	64.21	15.65	0.06	1.48	1.43

Construction

Construction Locomotive Hauling

Rail Owner	BNSF	
Analysis Year	2025	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 4	
Length of Track	1800	mi
Annual Train Days	220	days/yr
Daily Trains	2	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2	locomotives
Train Speed	50	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	2,000	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	36.00	hr/locomotive
Daily Travel Time	72.00	hr/day
Annual Travel Time	15,840.00	hr/yr
Trip Fuel Use	3,462	gal/locomotive
Daily Fuel Use	6,923	gal/day
Annual Fuel Use	1,523,077	gal/yr
Trip Load	72,000	bhp-hr/locomotive
Daily Load	144,000	bhp-hr/day
Annual Load	31,680,000	bhp-hr/yr
Trip Work	8,636,400	ton-mi/locomotive
Daily Work	17,272,800	ton-mi/day
Annual Work	3,800,016,000	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	19,558	gal/day
Hauling Load Factor	0.350	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.02	0.87%	Tier 0
1973-2001	0.02	0.82%	Tier 0+
2002-2004	0.05	2.64%	Tier 1
2002-2004	0.54	27.00%	Tier 1+
2005-2011	0.07	3.58%	Tier 2
2005-2011	0.63	31.73%	Tier 2+
2011-2014	0.53	26.62%	Tier 3
2015	0.13	6.73%	Tier 4

	Pollutant (g/day)[1,2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	3,756	140	136	210	221	559	2	214,410	5	17	216,457
Tier 0+	2,984	83	80	124	131	530	2	203,415	5	16	205,357
Tier 1	8,930	426	414	626	660	1,706	6	654,225	17	51	660,472
Tier 1+	91,174	2,722	2,640	3,946	4,155	17,418	61	6,679,696	170	523	6,743,471
Tier 2	8,926	325	315	469	494	2,308	8	885,128	23	69	893,579
Tier 2+	79,168	1,279	1,241	2,079	2,189	20,472	72	7,850,705	200	615	7,925,659
Tier 3	66,417	1,073	1,041	1,744	1,837	17,175	61	6,586,235	168	516	6,649,117
Tier 4	3,394	51	49	136	143	4,344	15	1,665,801	42	131	1,681,705
Daily Total	**264,748**	**6,099**	**5,916**	**9,335**	**9,829**	**64,512**	**227**	**24,739,615**	**630**	**1,938**	**24,975,817**
Annual Total	**58,244,648**	**1,341,808**	**1,301,554**	**2,053,645**	**2,162,489**	**14,192,640**	**50,050**	**5,442,715,385**	**138,600**	**426,462**	**5,494,679,723**
Lbs/day	583.67	13.45	13.04	20.58	21.67	142.22	0.50	54,541.51	1.39	4.27	55,062.25
Tons/year	64.20	1.48	1.43	2.26	2.38	15.64	0.06	5,999.57	0.15	0.47	6,056.85
							MT/year	5,442.72	0.14	0.43	5,495

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

Construction

Construction Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2025	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	220	days/yr
Daily Trains	2	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	10	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	10.00	hr/locomotive
Daily Travel Time	20.00	hr/day
Annual Travel Time	4,400.00	hr/yr
Trip Fuel Use	12	gal/locomotive
Daily Fuel Use	24	gal/day
Annual Fuel Use	5,288	gal/yr
Trip Load	250	bhp-hr/locomotive
Daily Load	500	bhp-hr/day
Annual Load	110,000	bhp-hr/yr
Trip Work	480	ton-mi/locomotive
Daily Work	960	ton-mi/day
Annual Work	211,112	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	1	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.02	0.87%	Tier 0
1973-2001	0.02	0.82%	Tier 0+
2002-2004	0.05	2.64%	Tier 1
2002-2004	0.54	27.00%	Tier 1+
2005-2011	0.07	3.58%	Tier 2
2005-2011	0.63	31.73%	Tier 2+
2011-2014	0.53	26.62%	Tier 3
2015	0.13	6.73%	Tier 4

	Pollutant (g/day)[1,2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0
Tier 0	0.21	0.01	0.01	0.01	0.01	0.03	0.00	12	0.00	0.00	12
Tier 0+	0.17	0.00	0.00	0.01	0.01	0.03	0.00	11	0.00	0.00	12
Tier 1	0.50	0.02	0.02	0.04	0.04	0.10	0.00	37	0.00	0.00	37
Tier 1+	5.14	0.15	0.15	0.22	0.23	0.98	0.00	377	0.01	0.03	380
Tier 2	0.50	0.02	0.02	0.03	0.03	0.13	0.00	50	0.00	0.00	50
Tier 2+	4.46	0.07	0.07	0.12	0.12	1.15	0.00	443	0.01	0.03	447
Tier 3	3.74	0.06	0.06	0.10	0.10	0.97	0.00	371	0.01	0.03	375
Tier 4	0.19	0.00	0.00	0.01	0.01	0.24	0.00	94	0.00	0.01	95
Daily Total	**15**	**0**	**0**	**1**	**1**	**4**	**0**	**1,395**	**0**	**0**	**1,408**
Annual Total	**3,283**	**76**	**73**	**116**	**122**	**800**	**3**	**306,791**	**8**	**24**	**309,720**
Lbs/day	0.03	0.00	0.00	0.00	0.00	0.01	0.00	3.07	0.00	0.00	3.10
Tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.34
							MT/year	0.31	0.00	0.00	0

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

APPENDIX A2

Operational Emission Calculations

Appendix A2.1: Locomotive Emissions

Line-Haul Emission Factors (g/bhp-hr)										
Emission Tier	**Year of Manufacture**	**NO_x**	**PM_{10}**	**HC**	**ROG**	**CO**	**SO_2**	**CO_2**	**N_2O**	**CH_4**
Uncontrolled	Pre 1973	13.00	0.32	0.48	0.51	1.28	0.0045138	490.87	0.01	0.04
Tier 0	1973-2001	8.60	0.32	0.48	1.05	1.28	0.0045138	490.87	0.01	0.04
Tier 0+	1973-2001	7.20	0.20	0.30	0.58	1.28	0.0045138	490.87	0.01	0.04
Tier 1	2002-2004	6.70	0.32	0.47	0.58	1.28	0.0045138	490.87	0.01	0.04
Tier 1+	2002-2004	6.70	0.20	0.29	0.58	1.28	0.0045138	490.87	0.01	0.04
Tier 2	2005-2011	4.95	0.18	0.26	0.32	1.28	0.0045138	490.87	0.01	0.04
Tier 2+	2005-2011	4.95	0.08	0.13	0.32	1.28	0.0045138	490.87	0.01	0.04
Tier 3	2011-2014	4.95	0.08	0.13	0.32	1.28	0.0045138	490.87	0.01	0.04
Tier 4	2015	1.00	0.015	0.04	0.15	1.28	0.0045138	490.87	0.01	0.04

+ Indicates that these are the revised standards in 40 CFR Part 1033

Source: Emission Factors for Locomotives (EPA-420-F-09-025), Table 1.

GHG emissions converted from Climate Registry Factors and EPA bhp-hr/gal conversion factors.

Switch Emission Factors (g/bhp-hr)										
Emission Tier	**Year of Manufacture**	**NO_x**	**PM_{10}**	**HC**	**ROG**	**CO**	**SO_2**	**CO_2**	**N_2O**	**CH_4**
Uncontrolled	Pre 1973	16.39	0.38	1.01	1.06	1.83	0.0061768	671.71	0.02	0.05
Tier 0	1973-2001	13.16	0.62	2.10	2.21	1.83	0.0061768	671.71	0.02	0.05
Tier 0+	1973-2001	11.09	0.22	2.10	2.21	1.83	0.0061768	671.71	0.02	0.05
Tier 1	2002-2004	10.34	0.46	1.20	1.26	1.83	0.0061768	671.71	0.02	0.05
Tier 1+	2002-2004	10.34	0.22	1.20	1.26	1.83	0.0061768	671.71	0.02	0.05
Tier 2	2005-2011	7.61	0.21	0.60	0.63	1.83	0.0061768	671.71	0.02	0.05
Tier 2+	2005-2011	7.61	0.12	0.60	0.63	1.83	0.0061768	671.71	0.02	0.05
Tier 3	2011-2014	4.70	0.09	0.60	0.63	1.83	0.0061768	671.71	0.02	0.05
Tier 4	2015	1.22	0.026	0.14	0.15	1.83	0.0061768	671.71	0.02	0.05

+ Indicates that these are the revised standards in 40 CFR Part 1033

Source: Emission Factors for Locomotives (EPA-420-F-09-025), Table 2 and CARB Carl Moyer Program Guidelines, Table D-14b, Locomotive Engine Factors (g/bhp/hr)

GHG emissions converted from Climate Registry Factors and EPA bhp-hr/gal conversion factors.

Line-Haul Emission Factors (g/bhp-hr)				
Emission Tier	**NO_x**	**PM_{10}**	**HC**	**CO**
Uncontrolled	13.00	0.32	0.48	1.28
Tier 0	8.60	0.32	0.48	1.28
Tier 0+	7.20	0.20	0.30	1.28
Tier 1	6.70	0.32	0.47	1.28
Tier 1+	6.70	0.20	0.29	1.28
Tier 2	4.95	0.18	0.26	1.28
Tier 2+	4.95	0.08	0.13	1.28
Tier 3	4.95	0.08	0.13	1.28
Tier 4	1.00	0.015	0.04	1.28

+ Indicates that these are the revised standards in 40 CFR Part 1033

Emission Factors for Locomotives (EPA-420-F-09-025), Table 1

Switch Emission Factors (g/bhp-hr)				
Emission Tier	**NO_x**	**PM_{10}**	**HC**	**CO**
Uncontrolled	17.40	0.44	1.01	1.83
Tier 0	12.60	0.44	1.01	1.83
Tier 0+	10.60	0.23	0.57	1.83
Tier 1	9.90	0.43	1.01	1.83
Tier 1+	9.90	0.23	0.57	1.83
Tier 2	7.30	0.19	0.51	1.83
Tier 2+	7.30	0.11	0.26	1.83
Tier 3	4.50	0.08	0.26	1.83
Tier 4	1.00	0.015	0.08	1.83

+ Indicates that these are the revised standards in 40 CFR Part 1033

Emission Factors for Locomotives (EPA-420-F-09-025), Table 2

Conversion Factors (bhp-hr/gal)	
Locomotive Application	**Conversion Factor (bhp-hr/gal)**
Large Line-Haul	20.8
Passenger	20.8
Small Line-Haul	18.2
Switching	15.2

Source: Emission Factors for Locomotives (EPA-420-F-09-025), Table 3

Locomotive Fuel Consumption by Service Category	
National & Regional Freight Line-Haul	88%
National Freight Switching	7%
Local Freight	<2%
Passenger	3%

Source: Emission Factors for Locomotives (EPA-420-F-09-025), Table 4

GHG Emission Factors (g/gal)		
CO_2	**N_2O**	**CH_4**
10,210	0.26	0.8

GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

SO2 Emission Rate

SO2 (g/gal) = (fuel density) x (conversion factor) x (64g SO2/32g S) x (S content of fuel)

Density of Diesel Fuel	3,200	g/gal	(Source: U.S. EPA Emission Factors for Locomotives, U.S. EPA-420-F-09-025, April 2009)
Sulfur Conversion in Fuel	0.978	unitless	(the fraction of fuel sulfur converted to SO2)
Conversion Factor	2		(64g SO2/32g S) (grams of SO2 formed from a gram of sulfur)
Sulfur Content of Fuel	15	ppm	S content of fuel = 15 g S / 1,000,000 g fuel
SO2 (g/gal):	0.09389		

Line Haul (g/bhp-hr)				
Tier	**Engine Year**	**NO_X**	**ROG**	**PM_{10}**
Uncontrolled	Pre 1973	12.22	0.51	0.275
Tier 0	1973-2001	8.93	1.05	0.516
Tier 0+	1973-2001	6.96	0.58	0.189
Tier 1	2002-2004	6.96	0.58	0.387
Tier 1+	2002-2004	6.96	0.58	0.189
Tier 2	2005-2011	5.17	0.32	0.172
Tier 2+	2005-2011	5.17	0.32	0.086
Tier 3	2011-2014	5.17	0.32	0.086
Tier 4	2015	1.22	0.15	0.26

CARB Carl Moyer Program Guidelines
Table D-14b, Locomotive Emissions Factors (g/bhp-hr)

Switcher (g/bhp-hr)				
Tier	**Engine Year**	**NO_X**	**ROG**	**PM_{10}**
Uncontrolled	Pre 1973	16.39	1.06	0.378
Tier 0	1973-2001	13.16	2.21	0.619
Tier 0+	1973-2001	11.09	2.21	0.224
Tier 1	2002-2004	10.34	1.26	0.464
Tier 1+	2002-2004	10.34	1.26	0.224
Tier 2	2005-2011	7.61	0.63	0.206
Tier 2+	2005-2011	7.61	0.63	0.122
Tier 3	2011-2014	4.7	0.63	0.086
Tier 4	2015	1.22	0.15	0.026

CARB Carl Moyer Program Guidelines
Table D-14b, Locomotive Emissions Factors (g/bhp-hr)

Mainline Locomotive Emissions Summary

EPA Certified Diesel

Peak Day

	Pollutant (lbs/day)						Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing	48.09	1,295.23	315.61	1.11	29.84	28.94	54.34	1463.61	356.64	1.26	33.72	32.71
South Mainline (2026 Interim)	50.11	1,349.62	328.86	1.16	31.09	30.16	56.62	1525.07	371.62	1.31	35.13	34.08
2028 No BIG	45.89	1,343.20	338.85	1.19	28.11	27.27	51.86	1517.82	382.90	1.35	31.77	30.81
2028 With BIG	26.20	766.82	193.44	0.68	16.05	15.57	29.61	866.51	218.59	0.77	18.14	17.59
2028 Dedicated Fleet	0.95	22.61	28.94	0.10	0.34	0.33	1.08	25.55	32.70	0.12	0.38	0.37
2033 No BIG	47.49	1,416.97	374.55	1.32	28.79	27.93	53.66	1601.17	423.25	1.49	32.54	31.56
2033 With BIG	25.83	770.70	203.72	0.72	15.66	15.19	29.19	870.89	230.21	0.81	17.70	17.17
2033 Dedicated Fleet	1.26	29.90	38.28	0.13	0.45	0.44	1.42	33.79	43.25	0.15	0.51	0.49
2048 No BIG	46.79	1,508.20	467.71	1.65	27.16	26.34	52.88	1704.27	528.51	1.86	30.69	29.77
2048 With BIG	26.62	858.13	266.11	0.94	15.45	14.99	30.09	969.68	300.71	1.06	17.46	16.94
2048 Dedicated Fleet	1.45	34.37	44.00	0.16	0.52	0.50						

	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Existing	8.78	236.38	57.60	0.20	5.45	5.28	20,039	1	2	20,230
South Mainline (2026 Interim)	9.14	246.30	60.02	0.21	5.67	5.50	20,880	1	2	21,079
2028 No BIG	8.38	245.13	61.84	0.22	5.13	4.98	21,514	1	2	21,719
2028 With BIG	4.78	139.94	35.30	0.12	2.93	2.84	12,282	0	1	12,399
2028 Dedicated Fleet	0.17	4.13	5.28	0.02	0.06	0.06	1,838	0	0	1,855
2033 No BIG	8.67	258.60	68.36	0.24	5.25	5.10	23,781	1	2	24,008
2033 With BIG	4.71	140.65	37.18	0.13	2.86	2.77	12,935	0	1	13,058
2033 Dedicated Fleet	0.23	5.46	6.99	0.02	0.08	0.08	2,430	0	0	2,453
2048 No BIG	8.54	275.25	85.36	0.30	4.96	4.81	29,695	1	2	29,979
2048 With BIG	4.86	156.61	48.57	0.17	2.82	2.74	16,896	0	1	17,057
2048 Dedicated Fleet	0.26	6.27	8.03	0.03	0.09	0.09	2,793	0	0	2,820

Hybrid Renewable Diesel

Peak Day

	Pollutant (lbs/day)						Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing	48.09	1295.23	315.61	1.11	29.84	28.94	54.34	1463.61	356.64	1.26	33.72	32.71
South Mainline (2026 Interim)	50.11	1349.62	328.86	1.16	31.09	30.16	56.62	1525.07	371.62	1.31	35.13	34.08
2028 No BIG	45.89	1343.20	338.85	1.19	28.11	27.27	51.86	1517.82	382.90	1.35	31.77	30.81
2028 With BIG	25.92	762.18	191.94	0.68	15.81	15.33	29.29	861.27	216.89	0.77	17.86	17.32
2028 Dedicated Fleet	0.94	22.47	28.72	0.10	0.33	0.32	1.06	25.40	32.45	0.12	0.38	0.37
2033 No BIG	47.49	1416.97	374.55	1.32	28.79	27.93	53.66	1601.17	423.25	1.49	32.54	31.56
2033 With BIG	25.55	766.04	202.13	0.72	15.42	14.96	28.87	865.62	228.41	0.81	17.43	16.91
2033 Dedicated Fleet	1.25	29.72	37.98	0.13	0.44	0.43	1.41	33.59	42.92	0.15	0.50	0.48
2048 No BIG	46.79	1508.20	467.71	1.65	27.16	26.34	52.88	1704.27	528.51	1.86	30.69	29.77
2048 With BIG	26.34	852.93	264.04	0.94	15.22	14.76	29.76	963.82	298.36	1.06	17.20	16.68
2048 Dedicated Fleet	1.43	34.17	43.65	0.16	0.51	0.49	1.62	38.61	49.33	0.18	0.57	0.56

	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Existing	8.78	236.38	57.60	0.20	5.45	5.28	20,039	1	2	20,230
South Mainline (2026 Interim)	9.14	246.30	60.02	0.21	5.67	5.50	20,880	1	2	21,079
2028 No BIG	8.38	245.13	61.84	0.22	5.13	4.98	20,847	1	2	21,052
2028 With BIG	4.73	139.10	35.03	0.12	2.88	2.80	11,901	0	1	12,018
2028 Dedicated Fleet	0.17	4.10	5.24	0.02	0.06	0.06	1,781	0	0	1,798
2033 No BIG	8.67	258.60	68.36	0.24	5.25	5.10	23,044	1	2	23,271
2033 With BIG	4.66	139.80	36.89	0.13	2.81	2.73	12,534	0	1	12,657
2033 Dedicated Fleet	0.23	5.42	6.93	0.02	0.08	0.08	2,355	0	0	2,378
2048 No BIG	8.54	275.25	85.36	0.30	4.96	4.81	28,775	1	2	29,058
2048 With BIG	4.81	155.66	48.19	0.17	2.78	2.69	16,372	0	1	16,533
2048 Dedicated Fleet	0.26	6.24	7.97	0.03	0.09	0.09	2,707	0	0	2,734

Existing Main (2023)

Existing

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2023	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	45	trains
Locomotives per Train	3.5	locomotives/train
Daily Locomotives	157.2	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	52.41	hr/day
Annual Travel Time	19,129.73	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	11,087	gal/day
Annual Fuel Use	4,046,673	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	230,605	bhp-hr/day
Annual Load	84,170,796	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	1.36	0.87%	Tier 0
1973-2001	1.29	0.82%	Tier 0+
2002-2004	4.16	2.64%	Tier 1
2002-2004	42.45	27.00%	Tier 1+
2005-2011	5.63	3.58%	Tier 2
2005-2011	49.89	31.73%	Tier 2+
2011-2014	41.86	26.62%	Tier 3
2015	10.59	6.73%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	8,336	310	301	465	490	1,241	4	475,800	12	37	480,343
Tier 0+	6,621	184	178	276	291	1,177	4	451,400	11	35	455,710
Tier 1	19,816	946	918	1,390	1,464	3,786	13	1,451,801	37	114	1,465,662
Tier 1+	202,325	6,040	5,858	8,757	9,221	38,653	136	14,823,013	377	1,161	14,964,535
Tier 2	19,807	720	699	1,040	1,096	5,122	18	1,964,202	50	154	1,982,955
Tier 2+	175,684	2,839	2,754	4,614	4,858	45,429	160	17,421,615	444	1,365	17,587,948
Tier 3	147,387	2,382	2,311	3,871	4,076	38,112	134	14,615,612	372	1,145	14,755,155
Tier 4	7,531	113	110	301	317	9,639	34	3,696,603	94	290	3,731,896
Daily Total	**587,507**	**13,535**	**13,129**	**20,715**	**21,813**	**143,160**	**505**	**54,900,047**	**1,398**	**4,302**	**55,424,205**
Annual Total	**214,440,089**	**4,940,153**	**4,791,948**	**7,560,934**	**7,961,663**	**52,253,230**	**184,268**	**20,038,517,032**	**510,285**	**1,570,109**	**20,229,834,822**
Lbs/day	1,295.23	29.84	28.94	45.67	48.09	315.61	1.11	121,033.88	3.08	9.48	122,189
Tons/year	236.38	5.45	5.28	8.33	8.78	57.60	0.20	22,088.68	0.56	1.73	22,300
							MT/year	20,038.52	0.51	1.57	20,230

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

South Main Interim

2026 Interim

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2026	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	47	trains
Locomotives per Train	3.5	locomotives/train
Daily Locomotives	163.8	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	54.61	hr/day
Annual Travel Time	19,932.94	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	11,552	gal/day
Annual Fuel Use	4,216,583	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	240,287	bhp-hr/day
Annual Load	87,704,935	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	1.42	0.87%	Tier 0
1973-2001	1.35	0.82%	Tier 0+
2002-2004	4.33	2.64%	Tier 1
2002-2004	44.23	27.00%	Tier 1+
2005-2011	5.86	3.58%	Tier 2
2005-2011	51.99	31.73%	Tier 2+
2011-2014	43.62	26.62%	Tier 3
2015	11.03	6.73%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	8,686	323	314	485	510	1,293	5	495,778	13	39	500,512
Tier 0+	6,899	192	186	287	303	1,227	4	470,354	12	37	474,844
Tier 1	20,648	986	957	1,448	1,525	3,945	14	1,512,759	39	119	1,527,202
Tier 1+	210,820	6,293	6,104	9,125	9,609	40,276	142	15,445,397	393	1,210	15,592,862
Tier 2	20,639	751	728	1,084	1,142	5,337	19	2,046,674	52	160	2,066,215
Tier 2+	183,060	2,959	2,870	4,808	5,062	47,337	167	18,153,109	462	1,422	18,326,425
Tier 3	153,576	2,482	2,408	4,033	4,247	39,712	140	15,229,289	388	1,193	15,374,690
Tier 4	7,847	118	114	314	331	10,044	35	3,851,815	98	302	3,888,590
Daily Total	**612,175**	**14,103**	**13,680**	**21,585**	**22,729**	**149,170**	**526**	**57,205,174**	**1,457**	**4,482**	**57,751,341**
Annual Total	**223,443,938**	**5,147,579**	**4,993,151**	**7,878,400**	**8,295,955**	**54,447,224**	**192,005**	**20,879,888,592**	**531,711**	**1,636,034**	**21,079,239,380**
Lbs/day	1,349.62	31.09	30.16	47.59	50.11	328.86	1.16	126,115.81	3.21	9.88	127,319.90
Tons/year	246.30	5.67	5.50	8.68	9.14	60.02	0.21	23,016.14	0.59	1.80	23,235.89
							MT/year	20,879.89	0.53	1.64	21,079

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains

2028 No BIG

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	49	trains
Locomotives per Train	3.5	locomotives/train
Daily Locomotives	168.8	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	56.27	hr/day
Annual Travel Time	20,537.97	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	11,903	gal/day
Annual Fuel Use	4,344,570	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	247,581	bhp-hr/day
Annual Load	90,367,058	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	44.71	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	62.48	37.01%	Tier 2+
2011-2014	47.11	27.91%	Tier 3
2015	14.51	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	213,075	6,360	6,170	9,223	9,711	40,707	144	15,610,651	398	1,223	15,759,693
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	220,002	3,556	3,449	5,778	6,084	56,889	201	21,816,468	556	1,709	22,024,760
Tier 3	165,867	2,681	2,600	4,356	4,587	42,891	151	16,448,161	419	1,289	16,605,200
Tier 4	10,321	155	150	413	435	13,211	47	5,066,253	129	397	5,114,623
Daily Total	**609,266**	**12,752**	**12,369**	**19,769**	**20,817**	**153,698**	**542**	**58,941,533**	**1,501**	**4,618**	**59,504,277**
Annual Total	**222,382,043**	**4,654,316**	**4,514,686**	**7,215,851**	**7,598,291**	**56,099,870**	**197,833**	**21,513,659,521**	**547,850**	**1,685,693**	**21,719,061,238**
Lbs/day	1,343.20	28.11	27.27	43.58	45.89	338.85	1.19	129,943.83	3.31	10.18	131,184.47
Tons/year	245.13	5.13	4.98	7.95	8.38	61.84	0.22	23,714.75	0.60	1.86	23,941.17
							MT/year	21,513.66	0.55	1.69	21,719

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains

2033 No BIG

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	52	trains
Locomotives per Train	3.6	locomotives/train
Daily Locomotives	186.6	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	62.20	hr/day
Annual Travel Time	22,702.26	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	13,157	gal/day
Annual Fuel Use	4,802,400	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	273,671	bhp-hr/day
Annual Load	99,889,930	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	41.27	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	69.54	37.27%	Tier 2+
2011-2014	52.42	28.10%	Tier 3
2015	23.37	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	196,671	5,871	5,695	8,513	8,964	37,573	132	14,408,789	367	1,129	14,546,357
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	244,840	3,957	3,838	6,430	6,771	63,312	223	24,279,497	618	1,902	24,511,306
Tier 3	184,593	2,983	2,894	4,848	5,105	47,733	168	18,305,121	466	1,434	18,479,890
Tier 4	16,622	249	242	665	700	21,277	75	8,159,378	208	639	8,237,280
Daily Total	**642,726**	**13,060**	**12,669**	**20,456**	**21,540**	**169,895**	**599**	**65,152,786**	**1,659**	**5,105**	**65,774,832**
Annual Total	**234,595,126**	**4,767,061**	**4,624,049**	**7,466,278**	**7,861,991**	**62,011,669**	**218,681**	**23,780,766,809**	**605,583**	**1,863,331**	**24,007,813,738**
Lbs/day	1,416.97	28.79	27.93	45.10	47.49	374.55	1.32	143,637.30	3.66	11.25	145,008.67
Tons/year	258.60	5.25	5.10	8.23	8.67	68.36	0.24	26,213.81	0.67	2.05	26,464.09
							MT/year	23,780.77	0.61	1.86	24,008

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains

2048 No BIG

2048 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	67	trains
Locomotives per Train	3.5	locomotives/train
Daily Locomotives	233.0	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	77.67	hr/day
Annual Travel Time	28,348.53	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	16,430	gal/day
Annual Fuel Use	5,996,805	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	341,736	bhp-hr/day
Annual Load	124,733,539	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	20.09	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	88.66	38.05%	Tier 2+
2011-2014	66.84	28.69%	Tier 3
2015	57.41	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	95,730	2,858	2,772	4,144	4,363	18,289	64	7,013,528	179	550	7,080,490
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	312,177	5,045	4,894	8,199	8,633	80,725	285	30,956,933	788	2,426	31,252,495
Tier 3	235,361	3,804	3,690	6,181	6,509	60,861	215	23,339,463	594	1,829	23,562,296
Tier 4	40,840	613	594	1,634	1,720	52,275	184	20,047,001	511	1,571	20,238,400
Daily Total	**684,108**	**12,319**	**11,950**	**20,157**	**21,225**	**212,150**	**748**	**81,356,925**	**2,072**	**6,375**	**82,133,680**
Annual Total	**249,699,318**	**4,496,548**	**4,361,651**	**7,357,276**	**7,747,212**	**77,434,581**	**273,069**	**29,695,277,593**	**756,197**	**2,326,760**	**29,978,793,329**
Lbs/day	1,508.20	27.16	26.34	44.44	46.79	467.71	1.65	179,361.31	4.57	14.05	181,073.76
Tons/year	275.25	4.96	4.81	8.11	8.54	85.36	0.30	32,733.44	0.83	2.56	33,045.96
							MT/year	29,695.28	0.76	2.33	29,979

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains

2028 With BIG

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	29	trains
Locomotives per Train	3.3	locomotives/train
Daily Locomotives	96.4	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	32.12	hr/day
Annual Travel Time	11,724.94	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	6,795	gal/day
Annual Fuel Use	2,480,276	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	141,342	bhp-hr/day
Annual Load	51,589,748	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	25.52	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	35.67	37.01%	Tier 2+
2011-2014	26.89	27.91%	Tier 3
2015	8.28	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	121,643	3,631	3,522	5,265	5,544	23,239	82	8,911,981	227	698	8,997,068
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	125,597	2,030	1,969	3,299	3,473	32,478	115	12,454,827	317	976	12,573,739
Tier 3	94,692	1,530	1,484	2,487	2,619	24,486	86	9,390,109	239	736	9,479,761
Tier 4	5,892	88	86	236	248	7,542	27	2,892,279	74	227	2,919,893
Daily Total	**347,824**	**7,280**	**7,061**	**11,286**	**11,884**	**87,745**	**309**	**33,649,196**	**857**	**2,637**	**33,970,461**
Annual Total	**126,955,925**	**2,657,107**	**2,577,394**	**4,119,465**	**4,337,796**	**32,026,916**	**112,941**	**12,281,956,403**	**312,763**	**962,347**	**12,399,218,412**
Lbs/day	766.82	16.05	15.57	24.88	26.20	193.44	0.68	74,183.77	1.89	5.81	74,892.04
Tons/year	139.94	2.93	2.84	4.54	4.78	35.30	0.12	13,538.54	0.34	1.06	13,667.80
							MT/year	12,281.96	0.31	0.96	12,399

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains

2033 With BIG

2033 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	30	trains
Locomotives per Train	3.4	locomotives/train
Daily Locomotives	101.5	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	33.83	hr/day
Annual Travel Time	12,347.93	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	7,156	gal/day
Annual Fuel Use	2,612,063	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	148,852	bhp-hr/day
Annual Load	54,330,906	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	22.44	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	37.82	37.27%	Tier 2+
2011-2014	28.51	28.10%	Tier 3
2015	12.71	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	106,971	3,193	3,097	4,630	4,875	20,436	72	7,837,052	200	614	7,911,876
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	133,170	2,152	2,088	3,497	3,683	34,436	121	13,205,807	336	1,035	13,331,889
Tier 3	100,402	1,623	1,574	2,637	2,777	25,962	92	9,956,297	254	780	10,051,355
Tier 4	9,041	136	132	362	381	11,573	41	4,437,949	113	348	4,480,320
Daily Total	**349,584**	**7,104**	**6,891**	**11,126**	**11,716**	**92,407**	**326**	**35,437,104**	**902**	**2,777**	**35,775,440**
Annual Total	**127,598,105**	**2,592,841**	**2,515,056**	**4,060,966**	**4,276,198**	**33,728,626**	**118,942**	**12,934,543,121**	**329,381**	**1,013,480**	**13,058,035,703**
Lbs/day	770.70	15.66	15.19	24.53	25.83	203.72	0.72	78,125.44	1.99	6.12	78,871.34
Tons/year	140.65	2.86	2.77	4.48	4.71	37.18	0.13	14,257.89	0.36	1.12	14,394.02
							MT/year	12,934.54	0.33	1.01	13,058

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains

2048 With BIG

2048 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	38	trains
Locomotives per Train	3.4	locomotives/train
Daily Locomotives	132.6	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	44.19	hr/day
Annual Travel Time	16,129.58	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	9,348	gal/day
Annual Fuel Use	3,412,027	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	194,439	bhp-hr/day
Annual Load	70,970,162	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	11.43	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	50.44	38.05%	Tier 2+
2011-2014	38.03	28.69%	Tier 3
2015	32.67	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	54,468	1,626	1,577	2,358	2,483	10,406	37	3,990,516	102	313	4,028,616
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	177,621	2,871	2,785	4,665	4,912	45,930	162	17,613,695	449	1,380	17,781,862
Tier 3	133,914	2,164	2,099	3,517	3,703	34,628	122	13,279,551	338	1,041	13,406,338
Tier 4	23,237	349	338	929	979	29,743	105	11,406,226	290	894	11,515,127
Daily Total	**389,240**	**7,009**	**6,799**	**11,469**	**12,077**	**120,708**	**426**	**46,289,989**	**1,179**	**3,627**	**46,731,943**
Annual Total	**142,072,462**	**2,558,420**	**2,481,667**	**4,186,100**	**4,407,963**	**44,058,276**	**155,369**	**16,895,845,897**	**430,257**	**1,323,866**	**17,057,159,027**
Lbs/day	858.13	15.45	14.99	25.28	26.62	266.11	0.94	102,051.95	2.60	8.00	103,026.29
Tons/year	156.61	2.82	2.74	4.61	4.86	48.57	0.17	18,624.48	0.47	1.46	18,802.30
							MT/year	16,895.85	0.43	1.32	17,057

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains - Dedicated Fleet

2028 Captive Fleet

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	3	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	14.4	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	0	0	0	0
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	0	0	0	0
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	10,256	154	149	410	432	13,128	46	5,034,414	128	394	5,082,480
Daily Total	**10,256**	**154**	**149**	**410**	**432**	**13,128**	**46**	**5,034,414**	**128**	**394**	**5,082,480**
Annual Total	**3,743,513**	**56,153**	**54,468**	**149,741**	**157,677**	**4,791,697**	**16,898**	**1,837,561,064**	**46,794**	**143,981**	**1,855,105,183**
Lbs/day	22.61	0.34	0.33	0.90	0.95	28.94	0.10	11,098.98	0.28	0.87	11,204.95
Tons/year	4.13	0.06	0.06	0.17	0.17	5.28	0.02	2,025.56	0.05	0.16	2,044.90
							MT/year	1,837.56	0.05	0.14	1,855

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	4.81	hr/day
Annual Travel Time	1,754.22	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	1,017	gal/day
Annual Fuel Use	371,086	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	21,147	bhp-hr/day
Annual Load	7,718,584	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.00	0.00%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.00	0.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	14.42	100.00%	Tier 4

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains - Dedicated Fleet

2033 Captive Fleet

2033 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	4	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	19.1	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	0	0	0	0
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	0	0	0	0
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	13,564	203	197	543	571	17,362	61	6,658,107	170	522	6,721,676
Daily Total	**13,564**	**203**	**197**	**543**	**571**	**17,362**	**61**	**6,658,107**	**170**	**522**	**6,721,676**
Annual Total	**4,950,867**	**74,263**	**72,035**	**198,035**	**208,531**	**6,337,110**	**22,347**	**2,430,209,198**	**61,886**	**190,418**	**2,453,411,626**
Lbs/day	29.90	0.45	0.44	1.20	1.26	38.28	0.13	14,678.61	0.37	1.15	14,818.76
Tons/year	5.46	0.08	0.08	0.22	0.23	6.99	0.02	2,678.85	0.07	0.21	2,704.42
							MT/year	2,430.21	0.06	0.19	2,453

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	6.36	hr/day
Annual Travel Time	2,319.99	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	1,345	gal/day
Annual Fuel Use	490,768	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	27,967	bhp-hr/day
Annual Load	10,207,973	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.00	0.00%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.00	0.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	19.07	100.00%	Tier 4

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

North and South Mains - Dedicated Fleet

2048 Captive Fleet

2048 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 5	
Length of Track	20	mi
Annual Train Days	365	days/yr
Daily Trains	5	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	21.9	locomotives
Train Speed	60	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	0	0	0	0
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	0	0	0	0
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	15,591	234	227	624	657	19,957	70	7,653,323	195	600	7,726,393
Daily Total	**15,591**	**234**	**227**	**624**	**657**	**19,957**	**70**	**7,653,323**	**195**	**600**	**7,726,393**
Annual Total	**5,690,894**	**85,363**	**82,803**	**227,636**	**239,700**	**7,284,344**	**25,688**	**2,793,462,806**	**71,136**	**218,881**	**2,820,133,399**
Lbs/day	34.37	0.52	0.50	1.37	1.45	44.00	0.16	16,872.69	0.43	1.32	17,033.78
Tons/year	6.27	0.09	0.09	0.25	0.26	8.03	0.03	3,079.27	0.08	0.24	3,108.67
							MT/year	2,793.46	0.07	0.22	2,820

Conversions & Calculations

Trip Travel Time	0.33	hr/locomotive
Daily Travel Time	7.31	hr/day
Annual Travel Time	2,666.77	hr/yr
Trip Fuel Use	71	gal/locomotive
Daily Fuel Use	1,546	gal/day
Annual Fuel Use	564,125	gal/yr
Trip Load	1,467	bhp-hr/locomotive
Daily Load	32,147	bhp-hr/day
Annual Load	11,733,802	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.485	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.00	0.00%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.00	0.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	21.92	100.00%	Tier 4

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

BIG Lead Track Emissions Summary

EPA Certified Diesel

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
2028 West Lead	5.51	161.29	40.69	0.14	3.38	3.27
2028 Captive Fleet	0.31	7.37	9.43	0.03	0.11	0.11
2028 East Lead	2.17	63.58	16.04	0.06	1.33	1.29
2028 Total	7.99	232.24	66.16	0.23	4.82	4.67
2033 West Lead	5.59	166.79	44.09	0.16	3.39	3.29
2033 Captive Fleet	0.41	9.74	12.47	0.04	0.15	0.14
2033 East Lead	2.30	68.67	18.15	0.06	1.40	1.35
2033 Total	8.30	245.20	74.71	0.26	4.93	4.78
2048 West Lead	5.54	178.41	55.33	0.20	3.21	3.12
2048 Captive Fleet	0.47	11.20	14.34	0.05	0.17	0.16
2048 East Lead	2.27	73.14	22.68	0.08	1.32	1.28
2048 Total	8.28	262.76	92.35	0.33	4.70	4.56

Peak Day

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
2028 West Lead	6.23	182.26	45.98	0.16	3.81	3.70
2028 Captive Fleet	0.35	8.33	10.66	0.04	0.12	0.12
2028 East Lead	2.45	71.85	18.13	0.06	1.50	1.46
2028 Total	9.03	262.44	74.76	0.26	5.44	5.28
2033 West Lead	6.32	188.47	49.82	0.18	3.83	3.71
2033 Captive Fleet	0.46	11.01	14.09	0.05	0.17	0.16
2033 East Lead	2.60	77.59	20.51	0.07	1.58	1.53
2033 Total	9.38	277.08	84.43	0.30	5.57	5.40
2048 West Lead	6.26	201.61	62.52	0.22	3.63	3.52
2048 Captive Fleet	0.53	12.66	16.20	0.06	0.19	0.18
2048 East Lead	2.56	82.65	25.63	0.09	1.49	1.44
2048 Total	9.35	296.92	104.35	0.37	5.31	5.15

	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
2028 West Lead	1.01	29.44	7.43	0.03	0.62	0.60
2028 Captive Fleet	0.06	1.34	1.72	0.01	0.02	0.02
2028 East Lead	0.40	11.60	2.93	0.01	0.24	0.24
2028 Total	1.46	42.38	12.07	0.04	0.88	0.85
2033 West Lead	1.02	30.44	8.05	0.03	0.62	0.60
2033 Captive Fleet	0.07	1.78	2.28	0.01	0.03	0.03
2033 East Lead	0.42	12.53	3.31	0.01	0.25	0.25
2033 Total	1.51	44.75	13.64	0.05	0.90	0.87
2048 West Lead	1.01	32.56	10.10	0.04	0.59	0.57
2048 Captive Fleet	0.09	2.04	2.62	0.01	0.03	0.03
2048 East Lead	0.41	13.35	4.14	0.01	0.24	0.23
2048 Total	1.51	47.95	16.85	0.06	0.86	0.83

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
2028 West Lead	2,583	0.1	0.2	2,608
2028 Captive Fleet	599	0.0	0.0	605
2028 East Lead	1,018	0.0	0.1	1,028
2028 Total	4,201	0.1	0.3	4,241
2033 West Lead	2,799	0.1	0.2	2,826
2033 Captive Fleet	792	0.0	0.1	799
2033 East Lead	1,152	0.0	0.1	1,163
2033 Total	4,744	0.1	0.4	4,789
2048 West Lead	3,513	0.1	0.3	3,546
2048 Captive Fleet	910	0.0	0.1	919
2048 East Lead	1,440	0.0	0.1	1,454
2048 Total	5,863	0.1	0.5	5,919

Hybrid Renewable Diesel

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
2028 West Lead	5.45	160.32	40.37	0.14	3.32	3.22
2028 Captive Fleet	0.31	7.32	9.36	0.03	0.11	0.11
2028 East Lead	2.15	63.20	15.91	0.06	1.31	1.27
2028 Total	7.91	230.84	65.64	0.23	4.74	4.60
2033 West Lead	5.53	165.78	43.74	0.16	3.34	3.24
2033 Captive Fleet	0.41	9.69	12.38	0.04	0.14	0.14
2033 East Lead	2.28	68.25	18.01	0.06	1.37	1.33
2033 Total	8.21	243.72	74.13	0.26	4.86	4.71
2048 West Lead	5.48	177.34	54.90	0.20	3.16	3.07
2048 Captive Fleet	0.47	11.13	14.23	0.05	0.17	0.16
2048 East Lead	2.24	72.70	22.50	0.08	1.30	1.26
2048 Total	8.19	261.17	91.63	0.33	4.63	4.49

Peak Day

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
2028 West Lead	6.16	181.16	45.62	0.16	3.76	3.64
2028 Captive Fleet	0.35	8.28	10.57	0.04	0.12	0.12
2028 East Lead	2.43	71.41	17.98	0.06	1.48	1.44
2028 Total	8.94	260.85	74.18	0.26	5.36	5.20
2033 West Lead	6.25	187.33	49.43	0.18	3.77	3.66
2033 Captive Fleet	0.46	10.94	13.98	0.05	0.16	0.16
2033 East Lead	2.57	77.13	20.35	0.07	1.55	1.51
2033 Total	9.28	275.40	83.77	0.30	5.49	5.32
2048 West Lead	6.19	200.39	62.03	0.22	3.58	3.47
2048 Captive Fleet	0.53	12.58	16.08	0.06	0.19	0.18
2048 East Lead	2.54	82.15	25.43	0.09	1.47	1.42
2048 Total	9.25	295.12	103.54	0.37	5.23	5.07

	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
2028 West Lead	0.99	29.26	7.37	0.03	0.61	0.59
2028 Captive Fleet	0.06	1.34	1.71	0.01	0.02	0.02
2028 East Lead	0.39	11.53	2.90	0.01	0.24	0.23
2028 Total	1.44	42.13	11.98	0.04	0.87	0.84
2033 West Lead	1.01	30.25	7.98	0.03	0.61	0.59
2033 Captive Fleet	0.07	1.77	2.26	0.01	0.03	0.03
2033 East Lead	0.42	12.46	3.29	0.01	0.25	0.24
2033 Total	1.50	44.48	13.53	0.05	0.89	0.86
2048 West Lead	1.00	32.36	10.02	0.04	0.58	0.56
2048 Captive Fleet	0.09	2.03	2.60	0.01	0.03	0.03
2048 East Lead	0.41	13.27	4.11	0.01	0.24	0.23
2048 Total	1.49	47.66	16.72	0.06	0.84	0.82

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
2028 West Lead	2,503	0.07	0.20	2,528
2028 Captive Fleet	580	0.02	0.05	586
2028 East Lead	987	0.03	0.08	997
2028 Total	4,070	0.11	0.33	4,110
2033 West Lead	2,712	0.07	0.22	2,739
2033 Captive Fleet	767	0.02	0.06	775
2033 East Lead	1,117	0.03	0.09	1,128
2033 Total	4,597	0.12	0.37	4,642
2048 West Lead	3,404	0.09	0.28	3,437
2048 Captive Fleet				
2048 East Lead	1,395	0.04	0.11	1,409
2048 Total	4,799	0.13	0.39	4,847

2028 With BIG
2028 West Leads

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	6.73	mi
Annual Train Days	365	days/yr
Daily Trains	16	trains
Locomotives per Train	3.9	locomotives/train
Daily Locomotives	62.2	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.22	hr/locomotive
Daily Travel Time	13.94	hr/day
Annual Travel Time	5,089.83	hr/yr
Trip Fuel Use	47	gal/locomotive
Daily Fuel Use	2,950	gal/day
Annual Fuel Use	1,076,694	gal/yr
Trip Load	986	bhp-hr/locomotive
Daily Load	61,357	bhp-hr/day
Annual Load	22,395,245	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	16.47	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	23.02	37.01%	Tier 2+
2011-2014	17.36	27.91%	Tier 3
2015	5.35	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	25,586	764	741	1,107	1,166	4,888	17	1,874,532	48	147	1,892,429
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	26,418	427	414	694	731	6,831	24	2,619,728	67	205	2,644,740
Tier 3	19,917	322	312	523	551	5,150	18	1,975,100	50	155	1,993,958
Tier 4	1,239	19	18	50	52	1,586	6	608,357	15	48	614,166
Daily Total	**73,161**	**1,531**	**1,485**	**2,374**	**2,500**	**18,456**	**65**	**7,077,717**	**180**	**555**	**7,145,292**
Annual Total	**26,703,704**	**558,892**	**542,125**	**866,482**	**912,405**	**6,736,490**	**23,756**	**2,583,366,866**	**65,786**	**202,419**	**2,608,031,567**
Lbs/day	161.29	3.38	3.27	5.23	5.51	40.69	0.14	15,603.69	0.40	1.22	15,753
Tons/year	29.44	0.62	0.60	0.96	1.01	7.43	0.03	2,847.67	0.07	0.22	2,875
							MT/year	2,583.37	0.07	0.20	2,608

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 Captive Fleet

2028 Captive Fleet

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	6.73	mi
Annual Train Days	365	days/yr
Daily Trains	3	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	14.4	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.22	hr/locomotive
Daily Travel Time	3.23	hr/day
Annual Travel Time	1,179.79	hr/yr
Trip Fuel Use	47	gal/locomotive
Daily Fuel Use	684	gal/day
Annual Fuel Use	249,570	gal/yr
Trip Load	986	bhp-hr/locomotive
Daily Load	14,222	bhp-hr/day
Annual Load	5,191,065	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.00	0.00%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.00	0.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	14.42	100.00%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	0	0	0	0
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	0	0	0	0
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	3,342	50	49	134	141	4,278	15	1,640,567	42	129	1,656,230
Daily Total	**3,342**	**50**	**49**	**134**	**141**	**4,278**	**15**	**1,640,567**	**42**	**129**	**1,656,230**
Annual Total	**1,219,900**	**18,299**	**17,750**	**48,796**	**51,382**	**1,561,472**	**5,506**	**598,806,823**	**15,249**	**46,919**	**604,523,932**
Lbs/day	7.37	0.11	0.11	0.29	0.31	9.43	0.03	3,616.83	0.09	0.28	3,651
Tons/year	1.34	0.02	0.02	0.05	0.06	1.72	0.01	660.07	0.02	0.05	666
							MT/year	598.81	0.02	0.05	605

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 With BIG
2028 East Leads

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	2.15	mi
Annual Train Days	365	days/yr
Daily Trains	24	trains
Locomotives per Train	3.1	locomotives/train
Daily Locomotives	76.8	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.07	hr/locomotive
Daily Travel Time	5.50	hr/day
Annual Travel Time	2,006.47	hr/yr
Trip Fuel Use	15	gal/locomotive
Daily Fuel Use	1,163	gal/day
Annual Fuel Use	424,445	gal/yr
Trip Load	315	bhp-hr/locomotive
Daily Load	24,188	bhp-hr/day
Annual Load	8,828,465	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	20.35	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	28.44	37.01%	Tier 2+
2011-2014	21.45	27.91%	Tier 3
2015	6.61	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	10,086	301	292	437	460	1,927	7	738,962	19	58	746,017
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	10,414	168	163	274	288	2,693	9	1,032,727	26	81	1,042,587
Tier 3	7,852	127	123	206	217	2,030	7	778,607	20	61	786,041
Tier 4	489	7	7	20	21	625	2	239,821	6	19	242,111
Daily Total	**28,841**	**604**	**586**	**936**	**985**	**7,276**	**26**	**2,790,118**	**71**	**219**	**2,816,757**
Annual Total	**10,526,910**	**220,322**	**213,712**	**341,577**	**359,681**	**2,655,602**	**9,365**	**1,018,393,186**	**25,934**	**79,796**	**1,028,116,297**
Lbs/day	63.58	1.33	1.29	2.06	2.17	16.04	0.06	6,151.16	0.16	0.48	6,210
Tons/year	11.60	0.24	0.24	0.38	0.40	2.93	0.01	1,122.59	0.03	0.09	1,133
							MT/year	1,018.39	0.03	0.08	1,028

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 With BIG
2033 West Leads

2033 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	6.73	mi
Annual Train Days	365	days/yr
Daily Trains	17	trains
Locomotives per Train	3.9	locomotives/train
Daily Locomotives	67.4	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.22	hr/locomotive
Daily Travel Time	15.11	hr/day
Annual Travel Time	5,515.07	hr/yr
Trip Fuel Use	47	gal/locomotive
Daily Fuel Use	3,196	gal/day
Annual Fuel Use	1,166,649	gal/yr
Trip Load	986	bhp-hr/locomotive
Daily Load	66,483	bhp-hr/day
Annual Load	24,266,299	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	14.91	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	25.12	37.27%	Tier 2+
2011-2014	18.94	28.10%	Tier 3
2015	8.44	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	23,150	691	670	1,002	1,055	4,423	16	1,696,037	43	133	1,712,230
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	28,820	466	452	757	797	7,452	26	2,857,904	73	224	2,885,190
Tier 3	21,728	351	341	571	601	5,619	20	2,154,669	55	169	2,175,241
Tier 4	1,957	29	28	78	82	2,504	9	960,428	24	75	969,598
Daily Total	**75,654**	**1,537**	**1,491**	**2,408**	**2,535**	**19,998**	**71**	**7,669,039**	**195**	**601**	**7,742,259**
Annual Total	**27,613,848**	**561,124**	**544,290**	**878,845**	**925,423**	**7,299,303**	**25,741**	**2,799,199,215**	**71,282**	**219,330**	**2,825,924,576**
Lbs/day	166.79	3.39	3.29	5.31	5.59	44.09	0.16	16,907.34	0.43	1.32	17,069
Tons/year	30.44	0.62	0.60	0.97	1.02	8.05	0.03	3,085.59	0.08	0.24	3,115
							MT/year	2,799.20	0.07	0.22	2,826

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Captive Fleet

2033 Captive Fleet

2033 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	6.73	mi
Annual Train Days	365	days/yr
Daily Trains	4	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	19.1	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.22	hr/locomotive
Daily Travel Time	4.27	hr/day
Annual Travel Time	1,560.29	hr/yr
Trip Fuel Use	47	gal/locomotive
Daily Fuel Use	904	gal/day
Annual Fuel Use	330,062	gal/yr
Trip Load	986	bhp-hr/locomotive
Daily Load	18,809	bhp-hr/day
Annual Load	6,865,282	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.00	0.00%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.00	0.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	19.07	100.00%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	0	0	0	0
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	0	0	0	0
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	4,420	66	64	177	186	5,658	20	2,169,680	55	170	2,190,395
Daily Total	**4,420**	**66**	**64**	**177**	**186**	**5,658**	**20**	**2,169,680**	**55**	**170**	**2,190,395**
Annual Total	**1,613,341**	**24,200**	**23,474**	**64,534**	**67,954**	**2,065,077**	**7,282**	**791,933,328**	**20,167**	**62,052**	**799,494,313**
Lbs/day	9.74	0.15	0.14	0.39	0.41	12.47	0.04	4,783.33	0.12	0.37	4,829
Tons/year	1.78	0.03	0.03	0.07	0.07	2.28	0.01	872.96	0.02	0.07	881
							MT/year	791.93	0.02	0.06	799

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 With BIG
2033 East Leads

2033 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	2.15	mi
Annual Train Days	365	days/yr
Daily Trains	28	trains
Locomotives per Train	3.1	locomotives/train
Daily Locomotives	87.0	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.07	hr/locomotive
Daily Travel Time	6.22	hr/day
Annual Travel Time	2,270.57	hr/yr
Trip Fuel Use	15	gal/locomotive
Daily Fuel Use	1,316	gal/day
Annual Fuel Use	480,313	gal/yr
Trip Load	315	bhp-hr/locomotive
Daily Load	27,371	bhp-hr/day
Annual Load	9,990,511	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	19.23	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	32.41	37.27%	Tier 2+
2011-2014	24.43	28.10%	Tier 3
2015	10.89	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	9,531	285	276	413	434	1,821	6	698,264	18	55	704,931
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	11,865	192	186	312	328	3,068	11	1,176,608	30	92	1,187,842
Tier 3	8,946	145	140	235	247	2,313	8	887,084	23	70	895,553
Tier 4	806	12	12	32	34	1,031	4	395,411	10	31	399,187
Daily Total	**31,147**	**633**	**614**	**991**	**1,044**	**8,233**	**29**	**3,157,367**	**80**	**247**	**3,187,512**
Annual Total	**11,368,708**	**231,016**	**224,086**	**361,823**	**381,000**	**3,005,146**	**10,597**	**1,152,439,115**	**29,347**	**90,299**	**1,163,442,030**
Lbs/day	68.67	1.40	1.35	2.19	2.30	18.15	0.06	6,960.80	0.18	0.55	7,027
Tons/year	12.53	0.25	0.25	0.40	0.42	3.31	0.01	1,270.35	0.03	0.10	1,282
							MT/year	1,152.44	0.03	0.09	1,163

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 With BIG
2048 West Leads

2048 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	6.73	mi
Annual Train Days	365	days/yr
Daily Trains	22	trains
Locomotives per Train	3.8	locomotives/train
Daily Locomotives	84.6	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.22	hr/locomotive
Daily Travel Time	18.96	hr/day
Annual Travel Time	6,921.12	hr/yr
Trip Fuel Use	47	gal/locomotive
Daily Fuel Use	4,011	gal/day
Annual Fuel Use	1,464,084	gal/yr
Trip Load	986	bhp-hr/locomotive
Daily Load	83,433	bhp-hr/day
Annual Load	30,452,947	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	7.29	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	32.18	38.05%	Tier 2+
2011-2014	24.27	28.69%	Tier 3
2015	20.84	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	11,325	338	328	490	516	2,163	8	829,676	21	65	837,598
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	36,929	597	579	970	1,021	9,549	34	3,662,100	93	287	3,697,063
Tier 3	27,842	450	436	731	770	7,200	25	2,760,979	70	216	2,787,339
Tier 4	4,831	72	70	193	203	6,184	22	2,371,492	60	186	2,394,134
Daily Total	**80,928**	**1,457**	**1,414**	**2,384**	**2,511**	**25,097**	**89**	**9,624,246**	**245**	**754**	**9,716,134**
Annual Total	**29,538,577**	**531,926**	**515,968**	**870,341**	**916,469**	**9,160,247**	**32,303**	**3,512,849,948**	**89,456**	**275,248**	**3,546,388,892**
Lbs/day	178.41	3.21	3.12	5.26	5.54	55.33	0.20	21,217.83	0.54	1.66	21,420
Tons/year	32.56	0.59	0.57	0.96	1.01	10.10	0.04	3,872.25	0.10	0.30	3,909
							MT/year	3,512.85	0.09	0.28	3,546

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Captive Fleet

2048 Captive Fleet

2048 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	6.73	mi
Annual Train Days	365	days/yr
Daily Trains	5	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	21.9	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.22	hr/locomotive
Daily Travel Time	4.91	hr/day
Annual Travel Time	1,793.51	hr/yr
Trip Fuel Use	47	gal/locomotive
Daily Fuel Use	1,039	gal/day
Annual Fuel Use	379,397	gal/yr
Trip Load	986	bhp-hr/locomotive
Daily Load	21,620	bhp-hr/day
Annual Load	7,891,464	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.00	0.00%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.00	0.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	21.92	100.00%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	0	0	0	0
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	0	0	0	0
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	5,081	76	74	203	214	6,503	23	2,493,992	64	195	2,517,803
Daily Total	**5,081**	**76**	**74**	**203**	**214**	**6,503**	**23**	**2,493,992**	**64**	**195**	**2,517,803**
Annual Total	**1,854,494**	**27,817**	**26,983**	**74,180**	**78,111**	**2,373,752**	**8,371**	**910,306,939**	**23,181**	**71,327**	**918,998,096**
Lbs/day	11.20	0.17	0.16	0.45	0.47	14.34	0.05	5,498.31	0.14	0.43	5,551
Tons/year	2.04	0.03	0.03	0.08	0.09	2.62	0.01	1,003.44	0.03	0.08	1,013
							MT/year	910.31	0.02	0.07	919

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 With BIG
2048 East Leads

2048 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 3	
Length of Track	2.15	mi
Annual Train Days	365	days/yr
Daily Trains	35	trains
Locomotives per Train	3.1	locomotives/train
Daily Locomotives	108.7	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.07	hr/locomotive
Daily Travel Time	7.77	hr/day
Annual Travel Time	2,837.31	hr/yr
Trip Fuel Use	15	gal/locomotive
Daily Fuel Use	1,644	gal/day
Annual Fuel Use	600,200	gal/yr
Trip Load	315	bhp-hr/locomotive
Daily Load	34,203	bhp-hr/day
Annual Load	12,484,162	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.235	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	9.37	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	41.35	38.05%	Tier 2+
2011-2014	31.18	28.69%	Tier 3
2015	26.78	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	4,642	139	134	201	212	887	3	340,125	9	27	343,373
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	15,139	245	237	398	419	3,915	14	1,501,275	38	118	1,515,608
Tier 3	11,414	184	179	300	316	2,951	10	1,131,861	29	89	1,142,668
Tier 4	1,981	30	29	79	83	2,535	9	972,191	25	76	981,473
Daily Total	**33,176**	**597**	**580**	**978**	**1,029**	**10,288**	**36**	**3,945,452**	**100**	**309**	**3,983,122**
Annual Total	**12,109,317**	**218,063**	**211,521**	**356,795**	**375,706**	**3,755,236**	**13,243**	**1,440,090,101**	**36,672**	**112,838**	**1,453,839,365**
Lbs/day	73.14	1.32	1.28	2.16	2.27	22.68	0.08	8,698.23	0.22	0.68	8,781
Tons/year	13.35	0.24	0.23	0.39	0.41	4.14	0.01	1,587.43	0.04	0.12	1,603
							MT/year	1,440.09	0.04	0.11	1,454

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

BIG Block Swap Summary

Unmitigated - EPA Certified Diesel

2028	Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	Peak Day Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	4.85	141.81	35.77	0.13	2.97	2.88	5.48	160.25	40.43	0.14	3.35	3.25
Line Haul Idling	0.01	0.25	0.06	0.00	0.01	0.01	0.01	0.28	0.07	0.00	0.01	0.01
Line Haul Total	4.85	142.06	35.84	0.13	2.97	2.88	5.48	160.53	40.50	0.14	3.36	3.26
Intermediate	8.07	157.64	22.50	0.08	5.11	4.96	9.12	178.14	25.43	0.09	5.77	5.60
Intermediate Idling	0.01	0.27	0.04	0.00	0.01	0.01	0.02	0.30	0.04	0.00	0.01	0.01
IntermediateTotal	8.08	157.91	22.54	0.08	5.12	4.96	9.13	178.44	25.47	0.09	5.78	5.61
Block Swap Total	12.94	299.97	58.38	0.21	8.09	7.85	14.62	338.97	65.97	0.23	9.14	8.87

2033	Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	Peak Day Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	5.00	149.24	39.45	0.14	3.03	2.94	5.65	168.64	44.58	0.16	3.43	3.32
Line Haul Idling	0.01	0.26	0.07	0.00	0.01	0.01	0.01	0.30	0.08	0.00	0.01	0.01
Line Haul Total	5.01	149.50	39.52	0.14	3.04	2.95	5.66	168.94	44.66	0.16	3.43	3.33
Intermediate	8.97	175.35	25.03	0.09	5.68	5.51	10.14	198.14	28.28	0.10	6.42	6.23
Intermediate Idling	0.01	0.26	0.04	0.00	0.01	0.01	0.01	0.29	0.04	0.00	0.01	0.01
IntermediateTotal	8.99	175.60	25.06	0.09	5.69	5.52	10.16	198.43	28.32	0.10	6.43	6.24
Block Swap Total	14.00	325.11	64.58	0.23	8.73	8.47	15.82	367.37	72.98	0.26	9.86	9.57

2048	Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	Peak Day Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	4.96	160.01	49.62	0.17	2.88	2.79	5.61	180.81	56.07	0.20	3.26	3.16
Line Haul Idling	0.01	0.24	0.07	0.00	0.00	0.00	0.01	0.27	0.08	0.00	0.00	0.00
Line Haul Total	4.97	160.25	49.69	0.18	2.89	2.80	5.62	181.08	56.15	0.20	3.26	3.16
Intermediate	17.23	336.70	48.06	0.17	10.91	10.58	19.47	380.47	54.30	0.19	12.33	11.96
Intermediate Idling	0.02	0.40	0.06	0.00	0.01	0.01	0.02	0.46	0.07	0.00	0.01	0.01
IntermediateTotal	17.25	337.11	48.11	0.17	10.92	10.60	19.50	380.93	54.37	0.19	12.34	11.97
Block Swap Total	22.23	497.35	97.81	0.34	13.81	13.40	25.11	562.01	110.52	0.39	15.61	15.14

2028	Pollutant (tons/year) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	GHG (MT/year) CO_2	N_2O	CH_4	CO_2e
Line Haul	0.88	25.88	6.53	0.02	0.54	0.53	2,271	0	0	2,293
Line Haul Idling	0.00	0.05	0.01	0.00	0.00	0.00	4	0	0	4
Line Haul Total	0.89	25.93	6.54	0.02	0.54	0.53	2,275	0	0	2,297
Intermediate	1.47	28.77	4.11	0.01	0.93	0.90	1,429	0	0	1,442
Intermediate Idling	0.00	0.05	0.01	0.00	0.00	0.00	2	0	0	2
IntermediateTotal	1.48	28.82	4.11	0.01	0.93	0.91	1,431	0	0	1,445
Block Swap Total	2.36	54.75	10.65	0.04	1.48	1.43	3,706	0	0	3,742

2033	Pollutant (tons/year) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	GHG (MT/year) CO_2	N_2O	CH_4	CO_2e
Line Haul	0.91	27.24	7.20	0.03	0.55	0.54	2,505	0	0	2,529
Line Haul Idling	0.00	0.05	0.01	0.00	0.00	0.00	4	0	0	4
Line Haul Total	0.91	27.28	7.21	0.03	0.55	0.54	2,509	0	0	2,533
Intermediate	1.64	32.00	4.57	0.02	1.04	1.01	1,589	0	0	1,604
Intermediate Idling	0.00	0.05	0.01	0.00	0.00	0.00	2	0	0	2
IntermediateTotal	1.64	32.05	4.57	0.02	1.04	1.01	1,591	0	0	1,607
Block Swap Total	2.55	59.33	11.79	0.04	1.59	1.55	4,100	0	0	4,140

Hybrid Renewable Diesel

2028	Peak Day Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	5.42	159.28	40.11	0.14	3.30	3.20
Line Haul Idling	0.01	0.28	0.07	0.00	0.01	0.01
	5.43	159.56	40.18	0.14	3.31	3.21
Intermediate	9.12	178.14	25.43	0.09	5.77	5.60
Intermediate Idling	0.02	0.30	0.04	0.00	0.01	0.01
	9.13	178.44	25.47	0.09	5.78	5.61
Block Swap Total	14.56	338.00	65.65	0.23	9.09	8.82

2033	Peak Day Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	5.59	167.62	44.23	0.16	3.37	3.27
Line Haul Idling	0.01	0.30	0.08	0.00	0.01	0.01
	5.60	167.92	44.31	0.16	3.38	3.28
Intermediate	10.14	198.14	28.28	0.10	6.42	6.23
Intermediate Idling	0.01	0.29	0.04	0.00	0.01	0.01
	10.16	198.43	28.32	0.10	6.43	6.24
Block Swap Total	15.76	366.35	72.63	0.26	9.81	9.52

2048	Peak Day Pollutant (lbs/day) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	5.55	179.71	55.63	0.20	3.21	3.11
Line Haul Idling	0.01	0.27	0.08	0.00	0.00	0.00
	5.56	179.98	55.72	0.20	3.21	3.11
Intermediate	19.47	380.47	54.30	0.19	12.33	11.96
Intermediate Idling	0.02	0.46	0.07	0.00	0.01	0.01
	19.50	380.93	54.37	0.19	12.34	11.97
Block Swap Total	25.05	560.91	110.09	0.39	15.56	15.09

2028	Pollutant (tons/year) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	GHG (MT/year) CO_2	N_2O	CH_4	CO_2e
Line Haul	0.87	25.72	6.48	0.02	0.53	0.52	2,201	0	0	2,223
Line Haul Idling	0.00	0.05	0.01	0.00	0.00	0.00	4	0	0	4
	0.88	25.77	6.49	0.02	0.53	0.52	2,205	0	0	2,227
Intermediate	1.47	28.77	4.11	0.01	0.93	0.90	1,429	0	0	1,442
Intermediate Idling	0.00	0.05	0.01	0.00	0.00	0.00	2	0	0	2
	1.48	28.82	4.11	0.01	0.93	0.91	1,431	0	0	1,445
Block Swap Total	2.35	54.59	10.60	0.04	1.47	1.42	3,636	0	0	3,671

2033	Pollutant (tons/year) VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	GHG (MT/year) CO_2	N_2O	CH_4	CO_2e
Line Haul	0.90	27.07	7.14	0.03	0.55	0.53	2,427	0	0	2,451
Line Haul Idling	0.00	0.05	0.01	0.00	0.00	0.00	4	0	0	4
	0.90	27.12	7.16	0.03	0.55	0.53	2,431	0	0	2,455
Intermediate	1.64	32.00	4.57	0.02	1.04	1.01	1,589	0	0	1,604
Intermediate Idling	0.00	0.05	0.01	0.00	0.00	0.00	2	0	0	2
	1.64	32.05	4.57	0.02	1.04	1.01	1,591	0	0	1,607
Block Swap Total	2.54	59.17	11.73	0.04	1.58	1.54	4,023	0	0	4,062

2048	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Line Haul	0.91	29.20	9.06	0.03	0.53	0.51	3,150	0	0	3,180
Line Haul Idling	0.00	0.04	0.01	0.00	0.00	0.00	5	0	0	5
Line Haul Total	0.91	29.24	9.07	0.03	0.53	0.51	3,155	0	0	3,185
Intermediate	3.15	61.45	8.77	0.03	1.99	1.93	3,051	0	0	3,080
Intermediate Idling	0.00	0.07	0.01	0.00	0.00	0.00	4	0	0	4
IntermediateTotal	3.15	61.52	8.78	0.03	1.99	1.93	3,055	0	0	3,084
Block Swap Total	4.06	90.77	17.85	0.06	2.52	2.44	6,210	0	0	6,269

2048	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Line Haul	0.90	29.02	8.99	0.03	0.52	0.50	3,053	0	0	3,083
Line Haul Idling	0.00	0.04	0.01	0.00	0.00	0.00	5	0	0	5
	0.90	29.07	9.00	0.03	0.52	0.50	3,057	0	0	3,087
Intermediate	3.15	61.45	8.77	0.03	1.99	1.93	3,051	0	0	3,080
Intermediate Idling	0.00	0.07	0.01	0.00	0.00	0.00	4	0	0	4
	3.15	61.52	8.78	0.03	1.99	1.93	3,055	0	0	3,084
Block Swap Total	4.05	90.59	17.78	0.06	2.51	2.44	6,112	0	0	6,171

2028 Block Swap Yard

2028 With BIG

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.39	mi
Annual Train Days	365	days/yr
Daily Trains	20.3	trains
Locomotives per Train	3.4	locomotives/train
Daily Locomotives	70	locomotives
Train Speed	15	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.36	hr/locomotive
Daily Travel Time	25.05	hr/day
Annual Travel Time	9,144.84	hr/yr
Trip Fuel Use	76	gal/locomotive
Daily Fuel Use	5,300	gal/day
Annual Fuel Use	1,934,485	gal/yr
Trip Load	1,581	bhp-hr/locomotive
Daily Load	110,239	bhp-hr/day
Annual Load	40,237,281	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	18.47	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	25.81	37.01%	Tier 2+
2011-2014	19.46	27.91%	Tier 3
2015	5.99	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	22,496	672	651	974	1,025	4,298	15	1,648,146	42	129	1,663,881
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	23,227	375	364	610	642	6,006	21	2,303,345	59	180	2,325,336
Tier 3	17,512	283	275	460	484	4,528	16	1,736,569	44	136	1,753,148
Tier 4	1,090	16	16	44	46	1,395	5	534,886	14	42	539,993
Daily Total	**64,325**	**1,346**	**1,306**	**2,087**	**2,198**	**16,227**	**57**	**6,222,946**	**158**	**488**	**6,282,359**
Annual Total	**23,478,713**	**491,395**	**476,653**	**761,837**	**802,214**	**5,922,928**	**20,887**	**2,271,375,156**	**57,841**	**177,973**	**2,293,061,115**
Lbs/day	141.81	2.97	2.88	4.60	4.85	35.77	0.13	13,719.25	0.35	1.07	13,850
Tons/year	25.88	0.54	0.53	0.84	0.88	6.53	0.02	2,503.76	0.06	0.20	2,528
							MT/year	2,271.38	0.06	0.18	2,293

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Block Swap Yard

2033 With BIG

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.39	mi
Annual Train Days	365	days/yr
Daily Trains	22.6	trains
Locomotives per Train	3.4	locomotives/train
Daily Locomotives	77	locomotives
Train Speed	15	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.36	hr/locomotive
Daily Travel Time	27.63	hr/day
Annual Travel Time	10,084.20	hr/yr
Trip Fuel Use	76	gal/locomotive
Daily Fuel Use	5,844	gal/day
Annual Fuel Use	2,133,197	gal/yr
Trip Load	1,581	bhp-hr/locomotive
Daily Load	121,563	bhp-hr/day
Annual Load	44,370,501	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	17.00	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	28.65	37.27%	Tier 2+
2011-2014	21.60	28.10%	Tier 3
2015	9.63	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	20,714	618	600	897	944	3,957	14	1,517,596	39	119	1,532,085
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	25,788	417	404	677	713	6,668	24	2,557,222	65	200	2,581,637
Tier 3	19,442	314	305	511	538	5,027	18	1,927,975	49	151	1,946,382
Tier 4	1,751	26	25	70	74	2,241	8	859,381	22	67	867,586
Daily Total	**67,695**	**1,376**	**1,334**	**2,154**	**2,269**	**17,894**	**63**	**6,862,174**	**175**	**538**	**6,927,690**
Annual Total	**24,708,576**	**502,087**	**487,025**	**786,381**	**828,059**	**6,531,338**	**23,032**	**2,504,693,443**	**63,783**	**196,254**	**2,528,607,010**
Lbs/day	149.24	3.03	2.94	4.75	5.00	39.45	0.14	15,128.50	0.39	1.19	15,273
Tons/year	27.24	0.55	0.54	0.87	0.91	7.20	0.03	2,760.95	0.07	0.22	2,787
							MT/year	2,504.69	0.06	0.20	2,529

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Block Swap Yard

2048 With BIG

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.39	mi
Annual Train Days	365	days/yr
Daily Trains	28.9	trains
Locomotives per Train	3.3	locomotives/train
Daily Locomotives	97	locomotives
Train Speed	15	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.36	hr/locomotive
Daily Travel Time	34.75	hr/day
Annual Travel Time	12,683.97	hr/yr
Trip Fuel Use	76	gal/locomotive
Daily Fuel Use	7,351	gal/day
Annual Fuel Use	2,683,148	gal/yr
Trip Load	1,581	bhp-hr/locomotive
Daily Load	152,903	bhp-hr/day
Annual Load	55,809,487	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	8.34	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	36.80	38.05%	Tier 2+
2011-2014	27.74	28.69%	Tier 3
2015	23.83	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	10,156	303	294	440	463	1,940	7	744,076	19	58	751,180
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	33,119	535	519	870	916	8,564	30	3,284,270	84	257	3,315,626
Tier 3	24,970	404	391	656	691	6,457	23	2,476,120	63	194	2,499,761
Tier 4	4,333	65	63	173	182	5,546	20	2,126,818	54	167	2,147,124
Daily Total	**72,578**	**1,307**	**1,268**	**2,138**	**2,252**	**22,507**	**79**	**8,631,284**	**220**	**676**	**8,713,691**
Annual Total	**26,490,994**	**477,046**	**462,734**	**780,545**	**821,914**	**8,215,157**	**28,970**	**3,150,418,738**	**80,226**	**246,850**	**3,180,497,368**
Lbs/day	160.01	2.88	2.79	4.71	4.96	49.62	0.17	19,028.72	0.48	1.49	19,210
Tons/year	29.20	0.53	0.51	0.86	0.91	9.06	0.03	3,472.74	0.09	0.27	3,506
							MT/year	3,150.42	0.08	0.25	3,180

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 Block Swap Yard

2028 With BIG Switchers

Switching Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	65	mi
Annual Train Days	365	days/yr
Daily Trains	4	trains
Locomotives per Train	2	locomotives/train
Daily Locomotives	8	locomotives
Train Speed	15	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	2,000	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	4.33	hr/locomotive
Daily Travel Time	34.67	hr/day
Annual Travel Time	12,653.33	hr/yr
Trip Fuel Use	417	gal/locomotive
Daily Fuel Use	3,333	gal/day
Annual Fuel Use	1,216,667	gal/yr
Trip Load	8,667	bhp-hr/locomotive
Daily Load	69,333	bhp-hr/day
Annual Load	25,306,667	bhp-hr/yr
Trip Work	311,870	ton-mi/locomotive
Daily Work	2,494,960	ton-mi/day
Annual Work	910,660,400	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	2,825	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	1.44	18.00%	Uncontrolled
1973-2001	4.96	62.00%	Tier 0
1973-2001	0.88	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.30	3.80%	Tier 1+
2005-2011	0.08	1.00%	Tier 2
2005-2011	0.32	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.02	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	**PM_{10}**	**$PM_{2.5}$[3]**	**HC**	**ROG[4]**	**CO**	**SO_2[5]**	**CO_2**	**N_2O**	**CH_4**	**CO_2e**
Uncontrolled	18,658	459	445	689	725	1,837	6	704,490	18	55	711,216
Tier 0	42,514	1,582	1,534	2,373	2,499	6,328	22	2,426,577	62	190	2,449,744
Tier 0+	6,315	175	170	263	277	1,123	4	430,522	11	34	434,632
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	2,030	61	59	88	93	388	1	148,726	4	12	150,146
Tier 2	395	14	14	21	22	102	0	39,138	1	3	39,512
Tier 2+	1,579	26	25	41	44	408	1	156,553	4	12	158,048
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	16	0	0	1	1	20	0	7,828	0	1	7,902
Daily Total	**71,506**	**2,317**	**2,248**	**3,476**	**3,660**	**10,206**	**36**	**3,913,833**	**100**	**307**	**3,951,201**
Annual Total	**26,099,562**	**845,811**	**820,436**	**1,268,585**	**1,335,820**	**3,725,141**	**13,136**	**1,428,549,167**	**36,378**	**111,933**	**1,442,188,243**
Lbs/day	157.64	5.11	4.96	7.66	8.07	22.50	0.08	8,628.52	0.22	0.68	8,711
Tons/year	28.77	0.93	0.90	1.40	1.47	4.11	0.01	1,574.71	0.04	0.12	1,590
							MT/year	1,428.55	0.04	0.11	1,442

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Block Swap Yard

2033 With BIG Switchers

Switching Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	72	mi
Annual Train Days	365	days/yr
Daily Trains	4	trains
Locomotives per Train	2	locomotives/train
Daily Locomotives	8	locomotives
Train Speed	15	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	2,000	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	4.82	hr/locomotive
Daily Travel Time	38.56	hr/day
Annual Travel Time	14,074.27	hr/yr
Trip Fuel Use	463	gal/locomotive
Daily Fuel Use	3,708	gal/day
Annual Fuel Use	1,353,295	gal/yr
Trip Load	9,640	bhp-hr/locomotive
Daily Load	77,119	bhp-hr/day
Annual Load	28,148,534	bhp-hr/yr
Trip Work	346,892	ton-mi/locomotive
Daily Work	2,775,137	ton-mi/day
Annual Work	1,012,924,980	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	3,142	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	1.44	18.00%	Uncontrolled
1973-2001	4.96	62.00%	Tier 0
1973-2001	0.88	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.30	3.80%	Tier 1+
2005-2011	0.08	1.00%	Tier 2
2005-2011	0.32	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.02	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	20,753	511	496	766	807	2,043	7	783,602	20	61	791,084
Tier 0	47,288	1,760	1,707	2,639	2,779	7,038	25	2,699,074	69	211	2,724,844
Tier 0+	7,024	195	189	293	308	1,249	4	478,868	12	38	483,440
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	2,258	67	65	98	103	431	2	165,427	4	13	167,007
Tier 2	439	16	15	23	24	114	0	43,533	1	3	43,949
Tier 2+	1,756	28	28	46	49	454	2	174,134	4	14	175,796
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	18	0	0	1	1	23	0	8,707	0	1	8,790
Daily Total	**79,536**	**2,578**	**2,500**	**3,866**	**4,071**	**11,352**	**40**	**4,353,346**	**111**	**341**	**4,394,909**
Annual Total	**29,030,469**	**940,793**	**912,569**	**1,411,044**	**1,485,829**	**4,143,464**	**14,612**	**1,588,971,186**	**40,464**	**124,503**	**1,604,141,893**
Lbs/day	175.35	5.68	5.51	8.52	8.97	25.03	0.09	9,597.48	0.24	0.75	9,689
Tons/year	32.00	1.04	1.01	1.56	1.64	4.57	0.02	1,751.54	0.04	0.14	1,768
							MT/year	1,588.97	0.04	0.12	1,604

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Block Swap Yard

2048 With BIG Switchers

Switching Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	93	mi
Annual Train Days	365	days/yr
Daily Trains	6	trains
Locomotives per Train	2	locomotives/train
Daily Locomotives	12	locomotives
Train Speed	15	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	2,000	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	6.17	hr/locomotive
Daily Travel Time	74.04	hr/day
Annual Travel Time	27,025.73	hr/yr
Trip Fuel Use	593	gal/locomotive
Daily Fuel Use	7,120	gal/day
Annual Fuel Use	2,598,628	gal/yr
Trip Load	12,341	bhp-hr/locomotive
Daily Load	148,086	bhp-hr/day
Annual Load	54,051,465	bhp-hr/yr
Trip Work	444,074	ton-mi/locomotive
Daily Work	5,328,882	ton-mi/day
Annual Work	1,945,041,954	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	6,034	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	2.16	18.00%	Uncontrolled
1973-2001	7.44	62.00%	Tier 0
1973-2001	1.32	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.46	3.80%	Tier 1+
2005-2011	0.12	1.00%	Tier 2
2005-2011	0.48	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.02	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	39,850	981	951	1,471	1,549	3,924	14	1,504,691	38	118	1,519,057
Tier 0	90,803	3,379	3,277	5,068	5,337	13,515	48	5,182,825	132	406	5,232,308
Tier 0+	13,488	375	363	562	592	2,398	8	919,533	23	72	928,313
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	4,336	129	126	188	198	828	3	317,657	8	25	320,690
Tier 2	843	31	30	44	47	218	1	83,594	2	7	84,392
Tier 2+	3,372	54	53	89	93	872	3	334,376	9	26	337,568
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	34	1	0	1	1	44	0	16,719	0	1	16,878
Daily Total	**152,726**	**4,949**	**4,801**	**7,423**	**7,817**	**21,798**	**77**	**8,359,395**	**213**	**655**	**8,439,206**
Annual Total	**55,744,978**	**1,806,532**	**1,752,336**	**2,709,519**	**2,853,123**	**7,956,376**	**28,058**	**3,051,179,191**	**77,699**	**239,074**	**3,080,310,332**
Lbs/day	336.70	10.91	10.58	16.37	17.23	48.06	0.17	18,429.31	0.47	1.44	18,605
Tons/year	61.45	1.99	1.93	2.99	3.15	8.77	0.03	3,363.35	0.09	0.26	3,395
							MT/year	3,051.18	0.08	0.24	3,080

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 Block Swap Yard

2028 With BIG Idle

Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	20.3	trains
Locomotives per Train	3.4	locomotives/train
Daily Locomotives	70	locomotives
Train Speed	0.0	mi/hr
Locomotive Idle Time	2.25	hr/locomotive
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	2.25	hr/locomotive
Daily Travel Time	156.58	hr/day
Annual Travel Time	57,153.14	hr/yr
Trip Fuel Use	3	gal/locomotive
Daily Fuel Use	188	gal/day
Annual Fuel Use	68,694	gal/yr
Trip Load	56	bhp-hr/locomotive
Daily Load	3,915	bhp-hr/day
Annual Load	1,428,829	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	18.47	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	25.81	37.01%	Tier 2+
2011-2014	19.46	27.91%	Tier 3
2015	5.99	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0.00	0	0	0	0
Tier 0	0	0	0	0	0	0	0.00	0	0	0	0
Tier 0+	0	0	0	0	0	0	0.00	0	0	0	0
Tier 1	0	0	0	0	0	0	0.00	0	0	0	0
Tier 1+	39	1	1	2	2	8	0.03	2,892	0	0	2,919
Tier 2	0	0	0	0	0	0	0.00	0	0	0	0
Tier 2+	41	1	1	1	1	11	0.04	4,041	0	0	4,080
Tier 3	31	0	0	1	1	8	0.03	3,047	0	0	3,076
Tier 4	2	0	0	0	0	2	0.01	938	0	0	947
Daily Total	**113**	**2**	**2**	**4**	**4**	**28**	**0**	**10,918**	**0**	**1**	**11,022**
Annual Total	**41,192**	**862**	**836**	**1,337**	**1,407**	**10,391**	**37**	**3,985,014**	**101**	**312**	**4,023,061**
Lbs/day	0.25	0.01	0.01	0.01	0.01	0.06	0.00	24.07	0.00	0.00	24
Tons/year	0.05	0.00	0.00	0.00	0.00	0.01	0.00	4.39	0.00	0.00	4
							MT/year	3.99	0.00	0.00	4

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Block Swap Yard

2033 With BIG Idle

Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	22.6	trains
Locomotives per Train	3.4	locomotives/train
Daily Locomotives	77	locomotives
Train Speed	0.0	mi/hr
Locomotive Idle Time	2.26	hr/locomotive
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	2.26	hr/locomotive
Daily Travel Time	173.83	hr/day
Annual Travel Time	63,449.43	hr/yr
Trip Fuel Use	3	gal/locomotive
Daily Fuel Use	209	gal/day
Annual Fuel Use	76,261	gal/yr
Trip Load	57	bhp-hr/locomotive
Daily Load	4,346	bhp-hr/day
Annual Load	1,586,236	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	17.00	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	28.65	37.27%	Tier 2+
2011-2014	21.60	28.10%	Tier 3
2015	9.63	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	37	1	1	2	2	7	0	2,681	0	0	2,706
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	46	1	1	1	1	12	0	4,517	0	0	4,560
Tier 3	34	1	1	1	1	9	0	3,405	0	0	3,438
Tier 4	3	0	0	0	0	4	0	1,518	0	0	1,532
Daily Total	**120**	**2**	**2**	**4**	**4**	**32**	**0**	**12,121**	**0**	**1**	**12,236**
Annual Total	**43,643**	**887**	**860**	**1,389**	**1,463**	**11,536**	**41**	**4,424,024**	**113**	**347**	**4,466,262**
Lbs/day	0.26	0.01	0.01	0.01	0.01	0.07	0.00	26.72	0.00	0.00	27
Tons/year	0.05	0.00	0.00	0.00	0.00	0.01	0.00	4.88	0.00	0.00	5
							MT/year	4.42	0.00	0.00	4

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Block Swap Yard

2048 With BIG Idle

Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	28.9	trains
Locomotives per Train	3.3	locomotives/train
Daily Locomotives	97	locomotives
Train Speed	0.0	mi/hr
Locomotive Idle Time	1.90	hr/locomotive
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	1.90	hr/locomotive
Daily Travel Time	184.12	hr/day
Annual Travel Time	67,204.45	hr/yr
Trip Fuel Use	2	gal/locomotive
Daily Fuel Use	221	gal/day
Annual Fuel Use	80,775	gal/yr
Trip Load	48	bhp-hr/locomotive
Daily Load	4,603	bhp-hr/day
Annual Load	1,680,111	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	8.34	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	36.80	38.05%	Tier 2+
2011-2014	27.74	28.69%	Tier 3
2015	23.83	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	15	0	0	1	1	3	0	1,107	0	0	1,117
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	49	1	1	1	1	13	0	4,885	0	0	4,932
Tier 3	37	1	1	1	1	10	0	3,683	0	0	3,718
Tier 4	6	0	0	0	0	8	0	3,163	0	0	3,194
Daily Total	**108**	**2**	**2**	**3**	**3**	**33**	**0**	**12,838**	**0**	**1**	**12,960**
Annual Total	**39,402**	**710**	**688**	**1,161**	**1,222**	**12,219**	**43**	**4,685,844**	**119**	**367**	**4,730,582**
Lbs/day	0.24	0.00	0.00	0.01	0.01	0.07	0.00	28.30	0.00	0.00	29
Tons/year	0.04	0.00	0.00	0.00	0.00	0.01	0.00	5.17	0.00	0.00	5
							MT/year	4.69	0.00	0.00	5

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 Block Swap Yard

2028 With BIG Switcher Idle

Switching Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	4	trains
Locomotives per Train	2	locomotives/train
Daily Locomotives	8	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	12	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	12.00	hr/locomotive
Daily Travel Time	96.00	hr/day
Annual Travel Time	35,040.00	hr/yr
Trip Fuel Use	14	gal/locomotive
Daily Fuel Use	115	gal/day
Annual Fuel Use	42,115	gal/yr
Trip Load	300	bhp-hr/locomotive
Daily Load	2,400	bhp-hr/day
Annual Load	876,000	bhp-hr/yr
Trip Work	48	ton-mi/locomotive
Daily Work	384	ton-mi/day
Annual Work	140,102	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	1.44	18.00%	Uncontrolled
1973-2001	4.96	62.00%	Tier 0
1973-2001	0.88	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.30	3.80%	Tier 1+
2005-2011	0.08	1.00%	Tier 2
2005-2011	0.32	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.02	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	32	1	1	1	1	3	0	1,205	0	0	1,216
Tier 0	73	3	3	4	4	11	0	4,150	0	0	4,190
Tier 0+	11	0	0	0	0	2	0	736	0	0	743
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	3	0	0	0	0	1	0	254	0	0	257
Tier 2	1	0	0	0	0	0	0	67	0	0	68
Tier 2+	3	0	0	0	0	1	0	268	0	0	270
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	0	0	0	0	0	0	0	13	0	0	14
Daily Total	**122**	**4**	**4**	**6**	**6**	**17**	**0**	**6,694**	**0**	**1**	**6,758**
Annual Total	**44,637**	**1,447**	**1,403**	**2,170**	**2,285**	**6,371**	**22**	**2,443,171**	**62**	**191**	**2,466,497**
Lbs/day	0.27	0.01	0.01	0.01	0.01	0.04	0.00	14.76	0.00	0.00	15
Tons/year	0.05	0.00	0.00	0.00	0.00	0.01	0.00	2.69	0.00	0.00	3
							MT/year	2.44	0.00	0.00	2

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Block Swap Yard

2033 With BIG Switcher Idle

Switching Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	4	trains
Locomotives per Train	2	locomotives/train
Daily Locomotives	8	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	11.5	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	11.50	hr/locomotive
Daily Travel Time	92.00	hr/day
Annual Travel Time	33,580.00	hr/yr
Trip Fuel Use	14	gal/locomotive
Daily Fuel Use	111	gal/day
Annual Fuel Use	40,361	gal/yr
Trip Load	288	bhp-hr/locomotive
Daily Load	2,300	bhp-hr/day
Annual Load	839,500	bhp-hr/yr
Trip Work	48	ton-mi/locomotive
Daily Work	384	ton-mi/day
Annual Work	140,102	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	1.44	18.00%	Uncontrolled
1973-2001	4.96	62.00%	Tier 0
1973-2001	0.88	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.30	3.80%	Tier 1+
2005-2011	0.08	1.00%	Tier 2
2005-2011	0.32	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.02	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	31	1	1	1	1	3	0	1,155	0	0	1,166
Tier 0	70	3	3	4	4	10	0	3,977	0	0	4,015
Tier 0+	10	0	0	0	0	2	0	706	0	0	712
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	3	0	0	0	0	1	0	244	0	0	246
Tier 2	1	0	0	0	0	0	0	64	0	0	65
Tier 2+	3	0	0	0	0	1	0	257	0	0	259
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	0	0	0	0	0	0	0	13	0	0	13
Daily Total	**117**	**4**	**4**	**6**	**6**	**17**	**0**	**6,415**	**0**	**1**	**6,476**
Annual Total	**42,777**	**1,386**	**1,345**	**2,079**	**2,189**	**6,105**	**22**	**2,341,372**	**60**	**183**	**2,363,726**
Lbs/day	0.26	0.01	0.01	0.01	0.01	0.04	0.00	14.14	0.00	0.00	14
Tons/year	0.05	0.00	0.00	0.00	0.00	0.01	0.00	2.58	0.00	0.00	3
							MT/year	2.34	0.00	0.00	2

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Block Swap Yard

2048 With BIG Switcher Idle

Switching Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	6	trains
Locomotives per Train	2	locomotives/train
Daily Locomotives	12	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	12	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	12.00	hr/locomotive
Daily Travel Time	144.00	hr/day
Annual Travel Time	52,560.00	hr/yr
Trip Fuel Use	14	gal/locomotive
Daily Fuel Use	173	gal/day
Annual Fuel Use	63,173	gal/yr
Trip Load	300	bhp-hr/locomotive
Daily Load	3,600	bhp-hr/day
Annual Load	1,314,000	bhp-hr/yr
Trip Work	48	ton-mi/locomotive
Daily Work	576	ton-mi/day
Annual Work	210,152	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	1	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	2.16	18.00%	Uncontrolled
1973-2001	7.44	62.00%	Tier 0
1973-2001	1.32	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.46	3.80%	Tier 1+
2005-2011	0.12	1.00%	Tier 2
2005-2011	0.48	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.02	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	48	1	1	2	2	5	0	1,807	0	0	1,825
Tier 0	109	4	4	6	6	16	0	6,225	0	0	6,284
Tier 0+	16	0	0	1	1	3	0	1,104	0	0	1,115
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	5	0	0	0	0	1	0	382	0	0	385
Tier 2	1	0	0	0	0	0	0	100	0	0	101
Tier 2+	4	0	0	0	0	1	0	402	0	0	405
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	0	0	0	0	0	0	0	20	0	0	20
Daily Total	**183**	**6**	**6**	**9**	**9**	**26**	**0**	**10,040**	**0**	**1**	**10,136**
Annual Total	**66,955**	**2,170**	**2,105**	**3,254**	**3,427**	**9,556**	**34**	**3,664,756**	**93**	**287**	**3,699,746**
Lbs/day	0.40	0.01	0.01	0.02	0.02	0.06	0.00	22.14	0.00	0.00	22
Tons/year	0.07	0.00	0.00	0.00	0.00	0.01	0.00	4.04	0.00	0.00	4
							MT/year	3.66	0.00	0.00	4

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

IMF Summary

Unmitigated - EPA Certified Diesel

2028	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.59	17.37	4.38	0.02	0.36	0.35
Line Haul Idling	0.03	0.81	0.20	0.00	0.02	0.02
IMF Total	0.62	18.18	4.59	0.02	0.38	0.37

Peak Day

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.67	19.62	4.95	0.02	0.41	0.40
Line Haul Idling	0.03	0.92	0.23	0.00	0.02	0.02
IMF Total	0.70	20.54	5.18	0.02	0.43	0.42

2033	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.73	21.92	5.79	0.02	0.45	0.43
Line Haul Idling	0.03	1.02	0.27	0.00	0.02	0.02
IMF Total	0.77	22.94	6.06	0.02	0.47	0.45

Peak Day

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.83	24.77	6.55	0.02	0.50	0.49
Line Haul Idling	0.04	1.16	0.31	0.00	0.02	0.02
IMF Total	0.87	25.93	6.85	0.02	0.53	0.51

2048	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.67	21.48	6.66	0.02	0.39	0.38
Line Haul Idling	0.03	0.87	0.27	0.00	0.02	0.02
IMF Total	0.69	22.35	6.93	0.02	0.40	0.39

Peak Day

	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.75	24.27	7.53	0.03	0.44	0.42
Line Haul Idling	0.03	0.99	0.31	0.00	0.02	0.02
IMF Total	0.78	25.26	7.83	0.03	0.45	0.44

2028	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.11	3.17	0.80	0.00	0.07	0.06
Line Haul Idling	0.01	0.15	0.04	0.00	0.00	0.00
IMF Total	0.11	3.32	0.84	0.00	0.07	0.07

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
Line Haul	278	0	0	281
Line Haul Idling	13	0	0	13
IMF Total	291	0	0	294

2033	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.13	4.00	1.06	0.00	0.08	0.08
Line Haul Idling	0.01	0.19	0.05	0.00	0.00	0.00
IMF Total	0.14	4.19	1.11	0.00	0.09	0.08

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
Line Haul	368	0	0	371
Line Haul Idling	17	0	0	17
IMF Total	385	0	0	389

2048	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.12	3.92	1.22	0.00	0.07	0.07
Line Haul Idling	0.00	0.16	0.05	0.00	0.00	0.00
IMF Total	0.13	4.08	1.26	0.00	0.07	0.07

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
Line Haul	423	0	0	427
Line Haul Idling	17	0	0	17
IMF Total	440	0	0	444

Hybrid Renewable Diesel

Peak Day

2028	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.66	19.51	4.91	0.02	0.40	0.39
Line Haul Idl	0.03	0.91	0.23	0.00	0.02	0.02
IMF Total	0.69	20.42	5.14	0.02	0.42	0.41

Peak Day

2033	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.82	24.62	6.50	0.02	0.50	0.48
Line Haul Idl	0.04	1.15	0.30	0.00	0.02	0.02
IMF Total	0.86	25.77	6.80	0.02	0.52	0.50

Peak Day

2048	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.66	21.35	6.61	0.02	0.38	0.37
Line Haul Idl	0.03	0.87	0.27	0.00	0.02	0.02
IMF Total	0.69	22.22	6.88	0.02	0.40	0.38

2028	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.11	3.15	0.79	0.00	0.07	0.06
Line Haul Idl	0.01	0.15	0.04	0.00	0.00	0.00
IMF Total	0.11	3.30	0.83	0.00	0.07	0.07

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
Line Haul	278	0	0	281
Line Haul Idl	13	0	0	13
IMF Total	291	0	0	294

2033	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.13	3.98	1.05	0.00	0.08	0.08
Line Haul Idl	0.01	0.19	0.05	0.00	0.00	0.00
IMF Total	0.14	4.16	1.10	0.00	0.08	0.08

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
Line Haul	368	0	0	371
Line Haul Idl	17	0	0	17
IMF Total	385	0	0	389

2048	Pollutant (tons/year)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.12	3.92	1.22	0.00	0.07	0.07
Line Haul Idl	0.00	0.16	0.05	0.00	0.00	0.00
IMF Total	0.13	4.08	1.26	0.00	0.07	0.07

	GHG (MT/year)			
	CO_2	N_2O	CH_4	CO_2e
Line Haul	423	0	0	427
Line Haul Idl	17	0	0	17
IMF Total	440	0	0	444

IMF
2028 With BIG

2028 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.32	mi
Annual Train Days	365	days/yr
Daily Trains	3.2	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	14	locomotives
Train Speed	25	mi/hr
Locomotive Idle Time	-	hr
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	95%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.21	hr/locomotive
Daily Travel Time	3.07	hr/day
Annual Travel Time	1,119.90	hr/yr
Trip Fuel Use	45	gal/locomotive
Daily Fuel Use	649	gal/day
Annual Fuel Use	236,901	gal/yr
Trip Load	936	bhp-hr/locomotive
Daily Load	13,500	bhp-hr/day
Annual Load	4,927,544	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	3.82	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	5.34	37.01%	Tier 2+
2011-2014	4.02	27.91%	Tier 3
2015	1.24	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	2,755	82	80	119	126	526	2	201,835	5	16	203,762
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	2,844	46	45	75	79	736	3	282,073	7	22	284,766
Tier 3	2,145	35	34	56	59	555	2	212,664	5	17	214,694
Tier 4	133	2	2	5	6	171	1	65,503	2	5	66,129
Daily Total	**7,877**	**165**	**160**	**256**	**269**	**1,987**	**7**	**762,075**	**19**	**60**	**769,351**
Annual Total	**2,875,254**	**60,177**	**58,372**	**93,296**	**98,241**	**725,334**	**2,558**	**278,157,491**	**7,083**	**21,795**	**280,813,200**
Lbs/day	17.37	0.36	0.35	0.56	0.59	4.38	0.02	1,680.09	0.04	0.13	1,696
Tons/year	3.17	0.07	0.06	0.10	0.11	0.80	0.00	306.62	0.01	0.02	310
							MT/year	278.16	0.01	0.02	281

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

IMF
2028 With BIG

2028 Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.32	mi
Annual Train Days	365	days/yr
Daily Trains	3.2	trains
Locomotives per Train	4.5	locomotives/train
Daily Locomotives	14	locomotives
Train Speed	25	mi/hr
Locomotive Idle Time	-	hr
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	95%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	1.75	hr/locomotive
Daily Travel Time	25.21	hr/day
Annual Travel Time	9,201.30	hr/yr
Trip Fuel Use	2	gal/locomotive
Daily Fuel Use	30	gal/day
Annual Fuel Use	11,059	gal/yr
Trip Load	44	bhp-hr/locomotive
Daily Load	630	bhp-hr/day
Annual Load	230,032	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	3.82	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	5.34	37.01%	Tier 2+
2011-2014	4.02	27.91%	Tier 3
2015	1.24	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	129	4	4	6	6	25	0	9,422	0	1	9,512
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	133	2	2	3	4	34	0	13,168	0	1	13,294
Tier 3	100	2	2	3	3	26	0	9,928	0	1	10,023
Tier 4	6	0	0	0	0	8	0	3,058	0	0	3,087
Daily Total	**368**	**8**	**7**	**12**	**13**	**93**	**0**	**35,576**	**1**	**3**	**35,916**
Annual Total	**134,225**	**2,809**	**2,725**	**4,355**	**4,586**	**33,861**	**119**	**12,985,222**	**331**	**1,017**	**13,109,198**
Lbs/day	0.81	0.02	0.02	0.03	0.03	0.20	0.00	78.43	0.00	0.01	79
Tons/year	0.15	0.00	0.00	0.00	0.01	0.04	0.00	14.31	0.00	0.00	14
							MT/year	12.99	0.00	0.00	13

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

IMF
2033 With BIG

2033 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.32	mi
Annual Train Days	365	days/yr
Daily Trains	4.3	trains
Locomotives per Train	4.485711208	locomotives/train
Daily Locomotives	19	locomotives
Train Speed	25	mi/hr
Locomotive Idle Time	-	hr
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	95%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.21	hr/locomotive
Daily Travel Time	4.06	hr/day
Annual Travel Time	1,481.08	hr/yr
Trip Fuel Use	45	gal/locomotive
Daily Fuel Use	858	gal/day
Annual Fuel Use	313,306	gal/yr
Trip Load	936	bhp-hr/locomotive
Daily Load	17,854	bhp-hr/day
Annual Load	6,516,770	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	4.22	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	7.11	37.27%	Tier 2+
2011-2014	5.36	28.10%	Tier 3
2015	2.39	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	3,042	91	88	132	139	581	2	222,892	6	17	225,020
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	3,787	61	59	99	105	979	3	375,583	10	29	379,169
Tier 3	2,856	46	45	75	79	738	3	283,165	7	22	285,868
Tier 4	257	4	4	10	11	329	1	126,219	3	10	127,424
Daily Total	**9,942**	**202**	**196**	**316**	**333**	**2,628**	**9**	**1,007,859**	**26**	**79**	**1,017,482**
Annual Total	**3,628,990**	**73,742**	**71,530**	**115,497**	**121,618**	**959,269**	**3,383**	**367,868,533**	**9,368**	**28,824**	**371,380,759**
Lbs/day	21.92	0.45	0.43	0.70	0.73	5.79	0.02	2,221.95	0.06	0.17	2,243
Tons/year	4.00	0.08	0.08	0.13	0.13	1.06	0.00	405.51	0.01	0.03	409
							MT/year	367.87	0.01	0.03	371

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

IMF
2033 With BIG

2033 Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.32	mi
Annual Train Days	365	days/yr
Daily Trains	4.3	trains
Locomotives per Train	4.485711208	locomotives/train
Daily Locomotives	19	locomotives
Train Speed	25	mi/hr
Locomotive Idle Time	-	hr
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	95%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	1.75	hr/locomotive
Daily Travel Time	33.34	hr/day
Annual Travel Time	12,168.89	hr/yr
Trip Fuel Use	2	gal/locomotive
Daily Fuel Use	40	gal/day
Annual Fuel Use	14,626	gal/yr
Trip Load	44	bhp-hr/locomotive
Daily Load	833	bhp-hr/day
Annual Load	304,222	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	4.22	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	7.11	37.27%	Tier 2+
2011-2014	5.36	28.10%	Tier 3
2015	2.39	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	142	4	4	6	6	27	0	10,405	0	1	10,505
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	177	3	3	5	5	46	0	17,533	0	1	17,701
Tier 3	133	2	2	4	4	34	0	13,219	0	1	13,345
Tier 4	12	0	0	0	1	15	0	5,892	0	0	5,949
Daily Total	**464**	**9**	**9**	**15**	**16**	**123**	**0**	**47,050**	**1**	**4**	**47,499**
Annual Total	**169,412**	**3,443**	**3,339**	**5,392**	**5,678**	**44,782**	**158**	**17,173,201**	**437**	**1,346**	**17,337,162**
Lbs/day	1.02	0.02	0.02	0.03	0.03	0.27	0.00	103.73	0.00	0.01	105
Tons/year	0.19	0.00	0.00	0.01	0.01	0.05	0.00	18.93	0.00	0.00	19
							MT/year	17.17	0.00	0.00	17

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

IMF
2048 With BIG

2048 Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.32	mi
Annual Train Days	365	days/yr
Daily Trains	4.9	trains
Locomotives per Train	4.485711208	locomotives/train
Daily Locomotives	22	locomotives
Train Speed	25	mi/hr
Locomotive Idle Time	-	hr
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	95%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.21	hr/locomotive
Daily Travel Time	4.66	hr/day
Annual Travel Time	1,702.47	hr/yr
Trip Fuel Use	45	gal/locomotive
Daily Fuel Use	987	gal/day
Annual Fuel Use	360,137	gal/yr
Trip Load	936	bhp-hr/locomotive
Daily Load	20,523	bhp-hr/day
Annual Load	7,490,859	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	1.89	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	8.34	38.05%	Tier 2+
2011-2014	6.29	28.69%	Tier 3
2015	5.40	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	1,363	41	39	59	62	260	1	99,871	3	8	100,825
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	4,445	72	70	117	123	1,150	4	440,821	11	35	445,030
Tier 3	3,351	54	53	88	93	867	3	332,350	8	26	335,523
Tier 4	582	9	8	23	24	744	3	285,466	7	22	288,191
Daily Total	**9,742**	**175**	**170**	**287**	**302**	**3,021**	**11**	**1,158,508**	**30**	**91**	**1,169,569**
Annual Total	**3,555,673**	**64,030**	**62,109**	**104,766**	**110,319**	**1,102,654**	**3,888**	**422,855,392**	**10,768**	**33,133**	**426,892,605**
Lbs/day	21.48	0.39	0.38	0.63	0.67	6.66	0.02	2,554.07	0.07	0.20	2,578
Tons/year	3.92	0.07	0.07	0.12	0.12	1.22	0.00	466.12	0.01	0.04	471
							MT/year	422.86	0.01	0.03	427

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

IMF
2048 With BIG

2048 Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity	Hauling	
Power Setting	Notch 2	
Length of Track	5.32	mi
Annual Train Days	365	days/yr
Daily Trains	4.9	trains
Locomotives per Train	4.485711208	locomotives/train
Daily Locomotives	22	locomotives
Train Speed	25	mi/hr
Locomotive Idle Time	-	hr
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	95%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	1.53	hr/locomotive
Daily Travel Time	33.44	hr/day
Annual Travel Time	12,204.31	hr/yr
Trip Fuel Use	2	gal/locomotive
Daily Fuel Use	40	gal/day
Annual Fuel Use	14,669	gal/yr
Trip Load	38	bhp-hr/locomotive
Daily Load	836	bhp-hr/day
Annual Load	305,108	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	1.89	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	8.34	38.05%	Tier 2+
2011-2014	6.29	28.69%	Tier 3
2015	5.40	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	56	2	2	2	3	11	0	4,068	0	0	4,107
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	181	3	3	5	5	47	0	17,955	0	1	18,126
Tier 3	137	2	2	4	4	35	0	13,537	0	1	13,666
Tier 4	24	0	0	1	1	30	0	11,627	0	1	11,738
Daily Total	**397**	**7**	**7**	**12**	**12**	**123**	**0**	**47,187**	**1**	**4**	**47,637**
Annual Total	**144,825**	**2,608**	**2,530**	**4,267**	**4,493**	**44,912**	**158**	**17,223,192**	**439**	**1,350**	**17,387,631**
Lbs/day	0.87	0.02	0.02	0.03	0.03	0.27	0.00	104.03	0.00	0.01	105
Tons/year	0.16	0.00	0.00	0.00	0.00	0.05	0.00	18.99	0.00	0.00	19
							MT/year	17.22	0.00	0.00	17

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b
[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.
[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value
[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)
[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

BIG Maintenance Trip Emissions Summary

Unmitigated - EPA Certified Diesel

2028	Pollutant (lbs/day)						Peak Day Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.07	2.15	0.54	0.00	0.04	0.04	0.08	2.43	0.61	0.00	0.05	0.05
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line Haul Total	0.07	2.15	0.54	0.00	0.05	0.04	0.08	2.43	0.61	0.00	0.05	0.05
Intermediate	3.15	21.93	3.06	0.01	0.82	0.80	3.56	24.78	3.46	0.01	0.93	0.90
Intermediate Idling	0.01	0.04	0.01	0.00	0.00	0.00	0.01	0.04	0.01	0.00	0.00	0.00
IntermediateTotal	3.16	21.97	3.07	0.01	0.82	0.80	3.57	24.82	3.47	0.01	0.93	0.90
Maintenance Total	3.23	24.12	3.61	0.01	0.87	0.84	3.65	27.25	4.08	0.01	0.98	0.95

Hybrid Renewable Diesel

2028	Peak Day Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.08	2.41	0.61	0.00	0.05	0.05
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00
	0.08	2.42	0.61	0.00	0.05	0.05
Intermediate	3.56	24.78	3.46	0.01	0.93	0.90
Intermediate Idling	0.01	0.04	0.01	0.00	0.00	0.00
	3.57	24.82	3.47	0.01	0.93	0.90
Maintenance Total	3.65	27.24	4.07	0.01	0.98	0.95

2033	Pollutant (lbs/day)						Peak Day Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.08	2.34	0.62	0.00	0.05	0.05	0.09	2.65	0.70	0.00	0.05	0.05
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line Haul Total	0.08	2.35	0.62	0.00	0.05	0.05	0.09	2.65	0.70	0.00	0.05	0.05
Intermediate	3.15	21.93	3.06	0.01	0.82	0.80	3.56	24.78	3.46	0.01	0.93	0.90
Intermediate Idling	0.01	0.04	0.01	0.00	0.00	0.00	0.01	0.04	0.01	0.00	0.00	0.00
IntermediateTotal	3.16	21.97	3.07	0.01	0.82	0.80	3.57	24.82	3.47	0.01	0.93	0.90
Maintenance Total	3.24	24.31	3.69	0.01	0.87	0.85	3.66	27.47	4.17	0.01	0.99	0.96

2033	Peak Day Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.09	2.63	0.69	0.00	0.05	0.05
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00
	0.09	2.63	0.70	0.00	0.05	0.05
Intermediate	3.56	24.78	3.46	0.01	0.93	0.90
Intermediate Idling	0.01	0.04	0.01	0.00	0.00	0.00
	3.57	24.82	3.47	0.01	0.93	0.90
Maintenance Total	3.66	27.46	4.16	0.01	0.98	0.96

2048	Pollutant (lbs/day)						Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.08	2.48	0.77	0.00	0.04	0.04	0.09	2.80	0.87	0.00	0.05	0.05
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Line Haul Total	0.08	2.48	0.77	0.00	0.04	0.04	0.09	2.80	0.87	0.00	0.05	0.05
Intermediate	4.03	27.98	4.08	0.01	1.05	1.02	4.55	31.62	4.61	0.02	1.18	1.15
Intermediate Idling	0.01	0.05	0.01	0.00	0.00	0.00	0.01	0.05	0.01	0.00	0.00	0.00
IntermediateTotal	4.04	28.03	4.09	0.01	1.05	1.02	4.56	31.67	4.62	0.02	1.19	1.15
Maintenance Total	4.11	30.51	4.86	0.02	1.09	1.06	4.65	34.47	5.49	0.02	1.24	1.20

2048	Pollutant (lbs/day)					
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Line Haul	0.09	2.78	0.86	0.00	0.05	0.05
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00
	0.09	2.78	0.86	0.00	0.05	0.05
Intermediate	4.55	31.62	4.61	0.02	1.18	1.15
Intermediate Idling	0.01	0.05	0.01	0.00	0.00	0.00
	4.56	31.67	4.62	0.02	1.19	1.15
Maintenance Total	4.65	34.46	5.48	0.02	1.24	1.20

2028	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Line Haul	0.01	0.39	0.10	0.00	0.01	0.01	34	0	0	35
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0
Line Haul Total	0.01	0.39	0.10	0.00	0.01	0.01	34	0	0	35
Intermediate	0.58	4.00	0.56	0.00	0.15	0.15	186	0	0	188
Intermediate Idling	0.00	0.01	0.00	0.00	0.00	0.00	0	0	0	0
IntermediateTotal	0.58	4.01	0.56	0.00	0.15	0.15	186	0	0	188
Maintenance Total	0.59	4.40	0.66	0.00	0.16	0.15	221	0	0	223

2028	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Line Haul	0.01	0.39	0.10	0.00	0.01	0.01	33	0	0	34
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0
	0.01	0.39	0.10	0.00	0.01	0.01	33	0	0	34
Intermediate	0.58	4.00	0.56	0.00	0.15	0.15	186	0	0	188
Intermediate Idling	0.00	0.01	0.00	0.00	0.00	0.00	0	0	0	0
	0.58	4.01	0.56	0.00	0.15	0.15	186	0	0	188
Maintenance Total	0.59	4.40	0.66	0.00	0.16	0.15	220	0	0	222

2033	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Line Haul	0.01	0.43	0.11	0.00	0.01	0.01	39	0	0	40
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0
Line Haul Total	0.01	0.43	0.11	0.00	0.01	0.01	39	0	0	40
Intermediate	0.58	4.00	0.56	0.00	0.15	0.15	186	0	0	188
Intermediate Idling	0.00	0.01	0.00	0.00	0.00	0.00	0	0	0	0
IntermediateTotal	0.58	4.01	0.56	0.00	0.15	0.15	186	0	0	188
Maintenance Total	0.59	4.44	0.67	0.00	0.16	0.15	226	0	0	228

2033	Pollutant (tons/year)						GHG (MT/year)			
	VOC	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2	N_2O	CH_4	CO_2e
Line Haul	0.01	0.43	0.11	0.00	0.01	0.01	38	0	0	38
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0
	0.01	0.43	0.11	0.00	0.01	0.01	38	0	0	39
Intermediate	0.58	4.00	0.56	0.00	0.15	0.15	186	0	0	188
Intermediate Idling	0.00	0.01	0.00	0.00	0.00	0.00	0	0	0	0
	0.58	4.01	0.56	0.00	0.15	0.15	186	0	0	188
Maintenance Total	0.59	4.43	0.67	0.00	0.16	0.15	225	0	0	227

	Pollutant (tons/year)						GHG (MT/year)			
2048	**VOC**	**NO_x**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**N_2O**	**CH_4**	**CO_2e**
Line Haul	0.01	0.45	0.14	0.00	0.01	0.01	49	0	0	49
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0
Line Haul Total	0.01	0.45	0.14	0.00	0.01	0.01	49	0	0	49
Intermediate	0.74	5.11	0.75	0.00	0.19	0.19	248	0	0	250
Intermediate Idling	0.00	0.01	0.00	0.00	0.00	0.00	0	0	0	0
IntermediateTotal	0.74	5.12	0.75	0.00	0.19	0.19	249	0	0	251
Maintenance Total	0.75	5.57	0.89	0.00	0.20	0.19	297	0	0	300

	Pollutant (tons/year)						GHG (MT/year)			
2048	**VOC**	**NO_x**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**N_2O**	**CH_4**	**CO_2e**
Line Haul	0.01	0.45	0.14	0.00	0.01	0.01	47	0	0	48
Line Haul Idling	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0
	0.01	0.45	0.14	0.00	0.01	0.01	47	0	0	48
Intermediate	0.74	5.11	0.75	0.00	0.19	0.19	248	0	0	250
Intermediate Idling	0.00	0.01	0.00	0.00	0.00	0.00	0	0	0	0
	0.74	5.12	0.75	0.00	0.19	0.19	249	0	0	251
Maintenance Total	0.75	5.56	0.89	0.00	0.20	0.19	296	0	0	299

2028 Maintenance

2028 With BIG Line-Haul

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity[9]	Hauling	
Power Setting	Notch 2	
Length of Track	5.5	mi
Annual Train Days	365	days/yr
Daily Trains	2.071232877	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2.07	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.18	hr/locomotive
Daily Travel Time	0.38	hr/day
Annual Travel Time	138.60	hr/yr
Trip Fuel Use	39	gal/locomotive
Daily Fuel Use	80	gal/day
Annual Fuel Use	29,319	gal/yr
Trip Load	807	bhp-hr/locomotive
Daily Load	1,671	bhp-hr/day
Annual Load	609,840	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.55	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.77	37.01%	Tier 2+
2011-2014	0.58	27.91%	Tier 3
2015	0.18	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	341	10	10	15	16	65	0	24,979	1	2	25,218
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	352	6	6	9	10	91	0	34,910	1	3	35,243
Tier 3	265	4	4	7	7	69	0	26,320	1	2	26,571
Tier 4	17	0	0	1	1	21	0	8,107	0	1	8,184
Daily Total	**975**	**20**	**20**	**32**	**33**	**246**	**1**	**94,316**	**2**	**7**	**95,216**
Annual Total	**355,846**	**7,448**	**7,224**	**11,546**	**12,158**	**89,768**	**317**	**34,425,175**	**877**	**2,697**	**34,753,849**
Lbs/day	2.15	0.04	0.04	0.07	0.07	0.54	0.00	207.93	0.01	0.02	210
Tons/year	0.39	0.01	0.01	0.01	0.01	0.10	0.00	37.95	0.00	0.00	38
							MT/year	34.43	0.00	0.00	35

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 Maintenance

2028 With BIG Switchers

Switching Locomotives

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Switching	
Train Activity[9]	Hauling	
Power Setting	Notch 2	
Length of Track	5.5	mi
Annual Train Days	365	days/yr
Daily Trains	0.295890411	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	18.00	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	2,000	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.18	hr/locomotive
Daily Travel Time	3.30	hr/day
Annual Travel Time	1,204.50	hr/yr
Trip Fuel Use	24	gal/locomotive
Daily Fuel Use	434	gal/day
Annual Fuel Use	158,487	gal/yr
Trip Load	367	bhp-hr/locomotive
Daily Load	6,600	bhp-hr/day
Annual Load	2,409,000	bhp-hr/yr
Trip Work	26,389	ton-mi/locomotive
Daily Work	475,002	ton-mi/day
Annual Work	173,375,730	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	538	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	3.24	18.00%	Uncontrolled
1973-2001	11.16	62.00%	Tier 0
1973-2001	1.98	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.68	3.80%	Tier 1+
2005-2011	0.18	1.00%	Tier 2
2005-2011	0.72	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.04	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	2,239	52	50	138	145	250	1	91,769	2	7	92,645
Tier 0	6,193	291	283	988	1,040	861	3	316,094	8	25	319,111
Tier 0+	926	19	18	175	185	153	1	56,081	1	4	56,617
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	298	6	6	35	36	53	0	19,373	0	2	19,558
Tier 2	58	2	2	5	5	14	0	5,098	0	0	5,147
Tier 2+	231	4	4	18	19	56	0	20,393	1	2	20,588
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	2	0	0	0	0	3	0	1,020	0	0	1,029
Daily Total	**9,947**	**373**	**362**	**1,358**	**1,430**	**1,389**	**5**	**509,828**	**13**	**40**	**514,696**
Annual Total	**3,630,588**	**136,291**	**132,203**	**495,606**	**521,873**	**506,974**	**1,711**	**186,087,326**	**4,739**	**14,581**	**187,863,995**
Lbs/day	21.93	0.82	0.80	2.99	3.15	3.06	0.01	1,123.98	0.03	0.09	1,135
Tons/year	4.00	0.15	0.15	0.55	0.58	0.56	0.00	205.13	0.01	0.02	207
							MT/year	186.09	0.00	0.01	188

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Maintenance

2033 With BIG Line-Haul

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity[9]	Hauling	
Power Setting	Notch 2	
Length of Track	5.5	mi
Annual Train Days	365	days/yr
Daily Trains	2.367123288	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2.37	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.18	hr/locomotive
Daily Travel Time	0.43	hr/day
Annual Travel Time	158.40	hr/yr
Trip Fuel Use	39	gal/locomotive
Daily Fuel Use	92	gal/day
Annual Fuel Use	33,508	gal/yr
Trip Load	807	bhp-hr/locomotive
Daily Load	1,909	bhp-hr/day
Annual Load	696,960	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.52	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.88	37.27%	Tier 2+
2011-2014	0.67	28.10%	Tier 3
2015	0.30	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	325	10	9	14	15	62	0	23,838	1	2	24,066
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	405	7	6	11	11	105	0	40,168	1	3	40,552
Tier 3	305	5	5	8	8	79	0	30,284	1	2	30,573
Tier 4	28	0	0	1	1	35	0	13,499	0	1	13,628
Daily Total	**1,063**	**22**	**21**	**34**	**36**	**281**	**1**	**107,789**	**3**	**8**	**108,818**
Annual Total	**388,116**	**7,887**	**7,650**	**12,352**	**13,007**	**102,593**	**362**	**39,343,057**	**1,002**	**3,083**	**39,718,685**
Lbs/day	2.34	0.05	0.05	0.07	0.08	0.62	0.00	237.63	0.01	0.02	240
Tons/year	0.43	0.01	0.01	0.01	0.01	0.11	0.00	43.37	0.00	0.00	44
							MT/year	39.34	0.00	0.00	40

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Maintenance

2033 With BIG Switchers

Switching Locomotives

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Switching	
Train Activity[9]	Hauling	
Power Setting	Notch 2	
Length of Track	5.5	mi
Annual Train Days	365	days/yr
Daily Trains	0.295890411	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	18.00	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	2,000	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.18	hr/locomotive
Daily Travel Time	3.30	hr/day
Annual Travel Time	1,204.50	hr/yr
Trip Fuel Use	24	gal/locomotive
Daily Fuel Use	434	gal/day
Annual Fuel Use	158,487	gal/yr
Trip Load	367	bhp-hr/locomotive
Daily Load	6,600	bhp-hr/day
Annual Load	2,409,000	bhp-hr/yr
Trip Work	26,389	ton-mi/locomotive
Daily Work	475,002	ton-mi/day
Annual Work	173,375,730	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	538	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	3.24	18.00%	Uncontrolled
1973-2001	11.16	62.00%	Tier 0
1973-2001	1.98	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.68	3.80%	Tier 1+
2005-2011	0.18	1.00%	Tier 2
2005-2011	0.72	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.04	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	**PM_{10}**	**$PM_{2.5}$[3]**	**HC**	**ROG[4]**	**CO**	**SO_2[5]**	**CO_2**	**N_2O**	**CH_4**	**CO_2e**
Uncontrolled	2,239	52	50	138	145	250	1	91,769	2	7	92,645
Tier 0	6,193	291	283	988	1,040	861	3	316,094	8	25	319,111
Tier 0+	926	19	18	175	185	153	1	56,081	1	4	56,617
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	298	6	6	35	36	53	0	19,373	0	2	19,558
Tier 2	58	2	2	5	5	14	0	5,098	0	0	5,147
Tier 2+	231	4	4	18	19	56	0	20,393	1	2	20,588
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	2	0	0	0	0	3	0	1,020	0	0	1,029
Daily Total	**9,947**	**373**	**362**	**1,358**	**1,430**	**1,389**	**5**	**509,828**	**13**	**40**	**514,696**
Annual Total	**3,630,588**	**136,291**	**132,203**	**495,606**	**521,873**	**506,974**	**1,711**	**186,087,326**	**4,739**	**14,581**	**187,863,995**
Lbs/day	21.93	0.82	0.80	2.99	3.15	3.06	0.01	1,123.98	0.03	0.09	1,135
Tons/year	4.00	0.15	0.15	0.55	0.58	0.56	0.00	205.13	0.01	0.02	207
							MT/year	186.09	0.00	0.01	188

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Maintenance

2048 With BIG Line-Haul

Line Haul Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity[9]	Hauling	
Power Setting	Notch 2	
Length of Track	5.5	mi
Annual Train Days	365	days/yr
Daily Trains	2.934246575	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2.93	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight		tons
Locomotive Power	4,400	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.18	hr/locomotive
Daily Travel Time	0.54	hr/day
Annual Travel Time	196.35	hr/yr
Trip Fuel Use	39	gal/locomotive
Daily Fuel Use	114	gal/day
Annual Fuel Use	41,536	gal/yr
Trip Load	807	bhp-hr/locomotive
Daily Load	2,367	bhp-hr/day
Annual Load	863,940	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.25	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	1.12	38.05%	Tier 2+
2011-2014	0.84	28.69%	Tier 3
2015	0.72	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	157	5	5	7	7	30	0	11,518	0	1	11,628
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	513	8	8	13	14	133	0	50,841	1	4	51,326
Tier 3	387	6	6	10	11	100	0	38,331	1	3	38,697
Tier 4	67	1	1	3	3	86	0	32,923	1	3	33,238
Daily Total	**1,124**	**20**	**20**	**33**	**35**	**348**	**1**	**133,614**	**3**	**10**	**134,889**
Annual Total	**410,085**	**7,385**	**7,163**	**12,083**	**12,723**	**127,172**	**448**	**48,768,998**	**1,242**	**3,821**	**49,234,620**
Lbs/day	2.48	0.04	0.04	0.07	0.08	0.77	0.00	294.57	0.01	0.02	297
Tons/year	0.45	0.01	0.01	0.01	0.01	0.14	0.00	53.76	0.00	0.00	54
							MT/year	48.77	0.00	0.00	49

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Maintenance

2048 With BIG Switchers

Switching Locomotives

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Switching	
Train Activity[9]	Hauling	
Power Setting	Notch 2	
Length of Track	5.5	mi
Annual Train Days	365	days/yr
Daily Trains	0.394520548	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	24.00	locomotives
Train Speed	30	mi/hr
Locomotive Idle Time	-	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	2,000	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.18	hr/locomotive
Daily Travel Time	4.40	hr/day
Annual Travel Time	1,606.00	hr/yr
Trip Fuel Use	24	gal/locomotive
Daily Fuel Use	579	gal/day
Annual Fuel Use	211,316	gal/yr
Trip Load	367	bhp-hr/locomotive
Daily Load	8,800	bhp-hr/day
Annual Load	3,212,000	bhp-hr/yr
Trip Work	26,389	ton-mi/locomotive
Daily Work	633,336	ton-mi/day
Annual Work	231,167,640	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	717	gal/day
Hauling Load Factor	0.115	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	3.12	13.00%	Uncontrolled
1973-2001	14.40	60.00%	Tier 0
1973-2001	1.92	8.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	1.82	7.60%	Tier 1+
2005-2011	0.24	1.00%	Tier 2
2005-2011	2.40	10.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.10	0.40%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	**PM_{10}**	**$PM_{2.5}$[3]**	**HC**	**ROG[4]**	**CO**	**SO_2[5]**	**CO_2**	**N_2O**	**CH_4**	**CO_2e**
Uncontrolled	2,156	50	48	132	139	241	1	88,370	2	7	89,214
Tier 0	7,991	376	365	1,274	1,342	1,111	4	407,863	10	32	411,757
Tier 0+	898	18	18	170	179	148	1	54,382	1	4	54,901
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	795	17	17	92	97	141	0	51,663	1	4	52,156
Tier 2	77	2	2	6	6	19	0	6,798	0	1	6,863
Tier 2+	770	12	12	61	64	185	1	67,977	2	5	68,626
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	5	0	0	1	1	7	0	2,719	0	0	2,745
Daily Total	**12,692**	**475**	**461**	**1,736**	**1,828**	**1,852**	**6**	**679,771**	**17**	**53**	**686,261**
Annual Total	**4,632,661**	**173,552**	**168,346**	**633,615**	**667,196**	**675,965**	**2,282**	**248,116,434**	**6,318**	**19,441**	**250,485,326**
Lbs/day	27.98	1.05	1.02	3.83	4.03	4.08	0.01	1,498.64	0.04	0.12	1,513
Tons/year	5.11	0.19	0.19	0.70	0.74	0.75	0.00	273.50	0.01	0.02	276
							MT/year	248.12	0.01	0.02	250

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 Maintenance

2028 With BIG Line-Haul Idle

Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Large Line-Haul	
Train Activity[9]	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	2.071232877	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2.07	locomotives
Train Speed	0.2	mi/hr
Locomotive Idle Time	0.5	hr/locomotive
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.50	hr/locomotive
Daily Travel Time	1.04	hr/day
Annual Travel Time	378.00	hr/yr
Trip Fuel Use	1	gal/locomotive
Daily Fuel Use	1	gal/day
Annual Fuel Use	454	gal/yr
Trip Load	13	bhp-hr/locomotive
Daily Load	26	bhp-hr/day
Annual Load	9,450	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.55	26.48%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.77	37.01%	Tier 2+
2011-2014	0.58	27.91%	Tier 3
2015	0.18	8.60%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	19	0	0	19
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	27	0	0	27
Tier 3	0	0	0	0	0	0	0	20	0	0	20
Tier 4	0	0	0	0	0	0	0	6	0	0	6
Daily Total	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**72**	**0**	**0**	**73**
Annual Total	**272**	**6**	**6**	**9**	**9**	**69**	**0**	**26,356**	**1**	**2**	**26,608**
Lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0
Tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0
							MT/year	0.03	0.00	0.00	0

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2028 Maintenance

2028 With BIG Switcher Idle

Switching Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2028	
Rail Use Type	Switching	
Train Activity[9]	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	0.295890411	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	18.00	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	1	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.50	hr/locomotive
Daily Travel Time	9.00	hr/day
Annual Travel Time	3,285.00	hr/yr
Trip Fuel Use	1	gal/locomotive
Daily Fuel Use	15	gal/day
Annual Fuel Use	5,403	gal/yr
Trip Load	13	bhp-hr/locomotive
Daily Load	225	bhp-hr/day
Annual Load	82,125	bhp-hr/yr
Trip Work	480	ton-mi/locomotive
Daily Work	8,636	ton-mi/day
Annual Work	3,152,286	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	10	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	3.24	18.00%	Uncontrolled
1973-2001	11.16	62.00%	Tier 0
1973-2001	1.98	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.68	3.80%	Tier 1+
2005-2011	0.18	1.00%	Tier 2
2005-2011	0.72	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.04	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	4	0	0	0	0	0	0	155	0	0	156
Tier 0	10	0	0	2	2	1	0	532	0	0	537
Tier 0+	2	0	0	0	0	0	0	94	0	0	95
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	1	0	0	0	0	0	0	33	0	0	33
Tier 2	0	0	0	0	0	0	0	9	0	0	9
Tier 2+	0	0	0	0	0	0	0	34	0	0	35
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	0	0	0	0	0	0	0	2	0	0	2
Daily Total	**17**	**1**	**1**	**2**	**2**	**2**	**0**	**859**	**0**	**0**	**867**
Annual Total	**6,115**	**230**	**223**	**835**	**879**	**854**	**3**	**313,433**	**8**	**25**	**316,426**
Lbs/day	0.04	0.00	0.00	0.01	0.01	0.01	0.00	1.89	0.00	0.00	2
Tons/year	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0
							MT/year	0.31	0.00	0.00	0

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Maintenance

2033 With BIG Line-Haul Idle

Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Large Line-Haul	
Train Activity[9]	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	2.367123288	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2.37	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	1	hr/locomotive
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.50	hr/locomotive
Daily Travel Time	1.18	hr/day
Annual Travel Time	432.00	hr/yr
Trip Fuel Use	1	gal/locomotive
Daily Fuel Use	1	gal/day
Annual Fuel Use	519	gal/yr
Trip Load	13	bhp-hr/locomotive
Daily Load	30	bhp-hr/day
Annual Load	10,800	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.52	22.12%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	0.88	37.27%	Tier 2+
2011-2014	0.67	28.10%	Tier 3
2015	0.30	12.52%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	18	0	0	18
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	31	0	0	31
Tier 3	0	0	0	0	0	0	0	23	0	0	23
Tier 4	0	0	0	0	0	0	0	10	0	0	10
Daily Total	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**83**	**0**	**0**	**83**
Annual Total	**297**	**6**	**6**	**9**	**10**	**79**	**0**	**30,121**	**1**	**2**	**30,409**
Lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0
Tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0
							MT/year	0.03	0.00	0.00	0

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2033 Maintenance

2033 With BIG Switcher Idle

Switching Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2033	
Rail Use Type	Switching	
Train Activity[9]	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	0.295890411	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	18.00	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	1	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.50	hr/locomotive
Daily Travel Time	9.00	hr/day
Annual Travel Time	3,285.00	hr/yr
Trip Fuel Use	1	gal/locomotive
Daily Fuel Use	15	gal/day
Annual Fuel Use	5,403	gal/yr
Trip Load	13	bhp-hr/locomotive
Daily Load	225	bhp-hr/day
Annual Load	82,125	bhp-hr/yr
Trip Work	480	ton-mi/locomotive
Daily Work	8,636	ton-mi/day
Annual Work	3,152,286	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	10	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	3.24	18.00%	Uncontrolled
1973-2001	11.16	62.00%	Tier 0
1973-2001	1.98	11.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.68	3.80%	Tier 1+
2005-2011	0.18	1.00%	Tier 2
2005-2011	0.72	4.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.04	0.20%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	4	0	0	0	0	0	0	155	0	0	156
Tier 0	10	0	0	2	2	1	0	532	0	0	537
Tier 0+	2	0	0	0	0	0	0	94	0	0	95
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	1	0	0	0	0	0	0	33	0	0	33
Tier 2	0	0	0	0	0	0	0	9	0	0	9
Tier 2+	0	0	0	0	0	0	0	34	0	0	35
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	0	0	0	0	0	0	0	2	0	0	2
Daily Total	**17**	**1**	**1**	**2**	**2**	**2**	**0**	**859**	**0**	**0**	**867**
Annual Total	**6,115**	**230**	**223**	**835**	**879**	**854**	**3**	**313,433**	**8**	**25**	**316,426**
Lbs/day	0.04	0.00	0.00	0.01	0.01	0.01	0.00	1.89	0.00	0.00	2
Tons/year	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0
							MT/year	0.31	0.00	0.00	0

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Maintenance

2048 With BIG Line-Haul Idle

Line Haul Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Large Line-Haul	
Train Activity[9]	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	2.934246575	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	2.93	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	1	hr/locomotive
Train Weight		tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.50	hr/locomotive
Daily Travel Time	1.47	hr/day
Annual Travel Time	535.50	hr/yr
Trip Fuel Use	1	gal/locomotive
Daily Fuel Use	2	gal/day
Annual Fuel Use	644	gal/yr
Trip Load	13	bhp-hr/locomotive
Daily Load	37	bhp-hr/day
Annual Load	13,388	bhp-hr/yr
Trip Work	0	ton-mi/locomotive
Daily Work	0	ton-mi/day
Annual Work	0	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	0	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	0.00	0.00%	Uncontrolled
1973-2001	0.00	0.00%	Tier 0
1973-2001	0.00	0.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	0.25	8.62%	Tier 1+
2005-2011	0.00	0.00%	Tier 2
2005-2011	1.12	38.05%	Tier 2+
2011-2014	0.84	28.69%	Tier 3
2015	0.72	24.64%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	PM_{10}	$PM_{2.5}$[3]	HC	ROG[4]	CO	SO_2[5]	CO_2	N_2O	CH_4	CO_2e
Uncontrolled	0	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	0	0	0	0	0	0	0	9	0	0	9
Tier 2	0	0	0	0	0	0	0	0	0	0	0
Tier 2+	0	0	0	0	0	0	0	39	0	0	39
Tier 3	0	0	0	0	0	0	0	29	0	0	30
Tier 4	0	0	0	0	0	0	0	25	0	0	25
Daily Total	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**102**	**0**	**0**	**103**
Annual Total	**314**	**6**	**5**	**9**	**10**	**97**	**0**	**37,338**	**1**	**3**	**37,694**
Lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0
Tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0
							MT/year	0.04	0.00	0.00	0

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

2048 Maintenance

2048 With BIG Switcher Idle

Switching Locomotive Idling

Rail Owner	BNSF	
Analysis Year	2048	
Rail Use Type	Switching	
Train Activity[9]	Hauling	
Power Setting	Low Idle	
Length of Track	0	mi
Annual Train Days	365	days/yr
Daily Trains	0.394520548	trains
Locomotives per Train	1	locomotives/train
Daily Locomotives	24.00	locomotives
Train Speed	0	mi/hr
Locomotive Idle Time	1	hr/locomotive
Train Weight	4,798	tons
Locomotive Power	25	bhp
Density of Diesel Fuel	3,200	g/gal
Sulfur Content of Fuel	15.0	ppm
Sulfur Conversion in Fuel	98%	unitless
Carbon Content of Fuel	87%	unitless

Conversions & Calculations

Trip Travel Time	0.50	hr/locomotive
Daily Travel Time	12.00	hr/day
Annual Travel Time	4,380.00	hr/yr
Trip Fuel Use	1	gal/locomotive
Daily Fuel Use	20	gal/day
Annual Fuel Use	7,204	gal/yr
Trip Load	13	bhp-hr/locomotive
Daily Load	300	bhp-hr/day
Annual Load	109,500	bhp-hr/yr
Trip Work	480	ton-mi/locomotive
Daily Work	11,515	ton-mi/day
Annual Work	4,203,048	ton-mi/yr
ERTAC Fuel Consumption	883	ton-mi/gal
ERTAC Daily Fuel Consumption	13	gal/day
Hauling Load Factor	0.006	unitless
Idling Fuel Consumption	0.000	gal/hr

Manufacture Date	Daily Locomotives	Percentage	
Pre 1973	3.12	13.00%	Uncontrolled
1973-2001	14.40	60.00%	Tier 0
1973-2001	1.92	8.00%	Tier 0+
2002-2004	0.00	0.00%	Tier 1
2002-2004	1.82	7.60%	Tier 1+
2005-2011	0.24	1.00%	Tier 2
2005-2011	2.40	10.00%	Tier 2+
2011-2014	0.00	0.00%	Tier 3
2015	0.10	0.40%	Tier 4

	Pollutant (g/day)[1, 2]										
	NO_x	**PM_{10}**	**$PM_{2.5}$[3]**	**HC**	**ROG[4]**	**CO**	**SO_2[5]**	**CO_2**	**N_2O**	**CH_4**	**CO_2e**
Uncontrolled	4	0	0	0	0	0	0	149	0	0	150
Tier 0	13	1	1	2	2	2	0	687	0	0	694
Tier 0+	2	0	0	0	0	0	0	92	0	0	92
Tier 1	0	0	0	0	0	0	0	0	0	0	0
Tier 1+	1	0	0	0	0	0	0	87	0	0	88
Tier 2	0	0	0	0	0	0	0	11	0	0	12
Tier 2+	1	0	0	0	0	0	0	114	0	0	116
Tier 3	0	0	0	0	0	0	0	0	0	0	0
Tier 4	0	0	0	0	0	0	0	5	0	0	5
Daily Total	**21**	**1**	**1**	**3**	**3**	**3**	**0**	**1,145**	**0**	**0**	**1,156**
Annual Total	**7,803**	**292**	**284**	**1,067**	**1,124**	**1,139**	**4**	**417,911**	**11**	**33**	**421,901**
Lbs/day	0.05	0.00	0.00	0.01	0.01	0.01	0.00	2.52	0.00	0.00	3
Tons/year	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0
							MT/year	0.42	0.00	0.00	0

[1] Criteria pollutant emissions calculated from g/bhp-hr values per EPA-420-F-09-025 guidance (uses hauling fuel consumption rates) and CARB Carl Moyer Program Guidelines, Table D-14b

[2] GHG emission factors obtained from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7.

[3] $PM_{2.5}$ value calculated as 97% of PM_{10} value

[4] ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

[5] SO_2 value calculated using formula specified on Page 5 of EPA-420-F-09-025

Corridor Emissions Outside of California

With BIG RD Blend:	10%
No BIG RD Blend EB to Belen:	1.0%
WB/East of Belen:	0%

	2028	2033	2048
BIG Total Mitigated Const and Ops Emissions (MTCO2e/year)	-181,105	-209,580	-205,607
Corridor Emissions Outside of CA ($MTCO_2e$/year)	115,529	157,860	179,451
	-65,576	-51,720	-26,156

	Line Haul Fleet Mix (%)		
Tier	**2028**	**2033**	**2048**
Uncontrolled	0.00%	0.00%	0.00%
Tier 0	0.00%	0.00%	0.00%
Tier 0+	0.00%	0.00%	0.00%
Tier 1	0.00%	0.00%	0.00%
Tier 1+	23.72%	17.48%	8.67%
Tier 2	0.00%	0.00%	0.00%
Tier 2+	37.18%	37.54%	38.04%
Tier 3	28.03%	28.30%	28.68%
Tier 4	11.07%	16.68%	24.61%

	Gallons/Year			
	2028	**2033**	**2048**	**RD %**
1% RD EB CA to Belen No Project	39,283,768	42,658,430	55,515,941	1%
10% RD EB CA to Belen With Project	42,933,775	47,555,329	61,159,043	10%
EB 0% RD East of Belen - Phoenix	4,168,535	5,476,466	6,358,007	0%
WB 0% RD Total Distance - Phoenix	5,785,147	7,600,310	8,823,724	0%

2028 Emissions

		VOC	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X	CO_2	N_2O	CH_4	CO_2e
Annual	**Gallons/Yr**	**Tons/Year**									
1% RD EB CA to Belen No Project	39,283,768	149.53	4,433.32	1,151.10	90.94	88.21	4.07	439,382	11.26	34.64	443,603
10% RD EB CA to Belen With Project	42,933,775	160.24	4,792.41	1,240.36	96.66	93.76	4.44	453,244	12.30	37.86	457,857
Net Change 1% to 10% RD	-	*10.71*	*359.09*	*89.26*	*5.72*	*5.55*	*0.38*	*13,862*	*1.05*	*3.22*	14,254
EB 0% RD East of Belen - Phoenix	4,168,535	15.90	471.00	122.34	9.68	9.39	0.43	46,915	1.19	3.68	47,363
WB 0% RD Total Distance - Phoenix	5,785,147	22.07	653.67	169.78	13.43	13.03	0.60	65,110	1.66	5.10	65,731
Total 0% RD	-	*37.97*	*1,124.67*	*292.12*	*23.11*	*22.42*	*1.03*	*112,025*	*2.85*	*8.78*	*113,094*
Total Tons/Yr	-	48.68	1,483.76	381.38	28.84	27.97	1.41	125,887	3.90	12.00	127,348
							Metric Tons/Year:	114,202	4	11	115,529

2033 Emissions

		VOC	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X	CO_2	N_2O	CH_4	CO_2e
Annual	**Gallons/Yr**	**Tons/Year**									
1% RD EB CA to Belen No Project	42,658,430	146.92	4,490.90	1,249.98	87.89	85.26	4.41	477,127	12.23	37.62	481,711
10% RD EB CA to Belen With Project	47,555,329	160.59	4,951.84	1,373.88	95.29	92.43	4.92	502,033	13.63	41.94	507,143
Net Change 1% to 10% RD	-	*13.67*	*460.94*	*123.89*	*7.40*	*7.18*	*0.51*	*24,906*	*1.40*	*4.32*	25,432
EB 0% RD East of Belen - Phoenix	5,476,466	18.90	577.24	160.72	11.32	10.98	0.57	61,635	1.57	4.83	62,224
WB 0% RD Total Distance - Phoenix	7,600,310	26.23	801.10	223.05	15.71	15.24	0.79	85,538	2.18	6.70	86,355
Total 0% RD	-	*45.13*	*1,378.34*	*383.78*	*27.03*	*26.21*	*1.35*	*147,174*	*3.75*	*11.53*	148,579
Total Tons/Yr	-	58.81	1,839.27	507.67	34.43	33.39	1.86	172,080	5.15	15.85	174,011
							Metric Tons/Year:	156,108	5	14	157,860

2048 Emissions

		VOC	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X	CO_2	N_2O	CH_4	CO_2e
Annual	**Gallons/Yr**	**Tons/Year**									
1% RD EB CA to Belen No Project	55,515,941	162.79	5,250.01	1,626.74	94.42	91.58	5.75	620,936	15.91	48.96	626,901
10% RD EB CA to Belen With Project	61,159,043	175.84	5,720.61	1,766.89	101.16	98.13	6.33	645,645	17.53	53.93	652,216
Net Change 1% to 10% RD	-	*13.05*	*470.59*	*140.15*	*6.74*	*6.54*	*0.58*	*24,709*	*1.62*	*4.98*	25,315
EB 0% RD East of Belen - Phoenix	6,358,007	18.68	601.99	186.59	10.85	10.52	0.66	71,557	1.82	5.61	72,240
WB 0% RD Total Distance - Phoenix	8,823,724	25.93	835.45	258.96	15.05	14.60	0.91	99,307	2.53	7.78	100,256
Total 0% RD	-	*44.61*	*1,437.44*	*445.55*	*25.90*	*25.12*	*1.57*	*170,864*	*4.35*	*13.39*	172,496
Total Tons/Yr	-	48.68	1,483.76	381.38	28.84	27.97	1.41	195,573	5.97	18.36	197,811
							Metric Tons/Year:	177,421	5	17	179,451

No BIG RD Reductions

	Pct RD	VOC	NOx	CO	PM10	PM2.5	SO2	CO2
EB to Belen 2028-2048	1.0%	0.22%	0.12%	0.16%	0.30%	0.30%	0.00%	0.62%
WB/East of Belen 2028-2048	0.0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

RD Reductions

Year	Pct RD	VOC	NOx	CO	PM10	PM2.5	SO2	CO2
2028	10%	2.16%	1.21%	1.56%	3.04%	3.04%	0.00%	6.20%
2033	10%	2.16%	1.21%	1.56%	3.04%	3.04%	0.00%	6.20%
2048	10%	2.16%	1.21%	1.56%	3.04%	3.04%	0.00%	6.20%

*RD for EB trains fueled in CA only

	Percent Reduction from EPA Cert Diesel (%)					
	HC	**NOx**	**CO**	**PM**	**SO2**	**CO2**
B5 - Hybrid	0.0%	0.0%	0.0%	0.0%	0%	3.1%
R20 -Hybrid	4.3%	2.4%	3.1%	6.1%	0%	12.4%
R30 - Hybrid	6.5%	3.6%	4.7%	9.1%	0%	18.6%
R100 - Hybrid	21.6%	12.1%	15.6%	30.4%	0%	62.0%

Composite Rates 2028

Line Haul	Locomotive	g/gal								
Tier	Fleet Mix (%)	VOC	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X	CO_2	N_2O	CH_4
Uncontrolled	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0
Tier 1+	0.237248479	1.506930216	33.0629481	6.31650351	0.986953673	0.957345063	0.022274785	2422.306972	0.061684605	0.18979878
Tier 2	0	0	0	0	0	0	0	0	0	0
Tier 2+	0.371782873	1.058581836	38.2787646	9.898347216	0.618646701	0.6000873	0.03490595	3795.903135	0.096663547	0.2974263
Tier 3	0.280299485	0.798100088	28.859635	7.462693496	0.466418343	0.452425793	0.026316758	2861.857745	0.072877866	0.22423959
Tier 4	0.110669162	0.09695681	2.30191858	2.946455779	0.034528779	0.033492915	0.010390506	1129.932148	0.028773982	0.08853533
	Composite Rate:	3.460568951	102.503266	26.624	2.106547496	2.043351072	0.093888	10210	0.26	0.8

Composite Rates 2033

Line Haul	Locomotive	g/gal								
Tier	Fleet Mix (%)	VOC	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X	CO_2	N_2O	CH_4
Uncontrolled	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0
Tier 1+	0.174816915	1.110383898	24.3624852	4.654325537	0.727238365	0.705421214	0.01641321	1784.880699	0.045452398	0.13985353
Tier 2	0	0	0	0	0	0	0	0	0	0
Tier 2+	0.375383888	1.06883505	38.6495252	9.994220647	0.62463879	0.605899627	0.035244043	3832.669502	0.097599811	0.30030711
Tier 3	0.283014411	0.805830327	29.1391637	7.534975667	0.470935979	0.4568079	0.026571657	2889.577132	0.073583747	0.22641153
Tier 4	0.166784786	0.146119484	3.46912355	4.440478148	0.052036853	0.050475748	0.01565909	1702.872667	0.043364044	0.13342783
	Composite Rate:	3.13116876	95.6202977	26.624	1.874849988	1.818604489	0.093888	10210	0.26	0.8

Composite Rates 2048

Line Haul	Locomotive	g/gal								
Tier	Fleet Mix (%)	VOC	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X	CO_2	N_2O	CH_4
Uncontrolled	0	0	0	0	0	0	0	0	0	0
Tier 0	0	0	0	0	0	0	0	0	0	0
Tier 0+	0	0	0	0	0	0	0	0	0	0
Tier 1	0	0	0	0	0	0	0	0	0	0
Tier 1+	0.086665071	0.550470182	12.0776442	2.30737084	0.360526694	0.349710893	0.00813681	884.8503711	0.022532918	0.06933206
Tier 2	0	0	0	0	0	0	0	0	0	0
Tier 2+	0.380416567	1.083164656	39.1676897	10.12821068	0.633013167	0.614022772	0.035716551	3884.053148	0.098908307	0.30433325
Tier 3	0.286808714	0.816633894	29.5298252	7.635995212	0.477249701	0.46293221	0.026927897	2928.316974	0.074570266	0.22944697
Tier 4	0.246109648	0.215615678	5.11908068	6.55242327	0.07678621	0.074482624	0.023106743	2512.779507	0.063988508	0.19688772
	Composite Rate:	2.665884411	85.8942399	26.624	1.547575772	1.501148499	0.093888	10210	0.26	0.8

Emission Rates

Line Haul		g/bhp-hr						g/gal			
Tier	Engine Year	HC[1]	VOC[2]	NO_X[1]	CO[1]	PM_{10}[1]	$PM_{2.5}$[3]	SO_X[4]	CO_2[4]	N_2O[5]	CH_4[5]
Uncontrolled	Pre 1973	0.48	0.51	13.00	1.28	0.32	0.31	0.093888	10,210	0.26	0.8
Tier 0	1973-2001	0.48	0.51	8.60	1.28	0.32	0.31	0.093888	10,210	0.26	0.8
Tier 0+	1973-2001	0.30	0.32	7.20	1.28	0.20	0.19	0.093888	10,210	0.26	0.8
Tier 1	2002-2004	0.47	0.49	6.70	1.28	0.32	0.31	0.093888	10,210	0.26	0.8
Tier 1+	2002-2004	0.29	0.31	6.70	1.28	0.20	0.19	0.093888	10,210	0.26	0.8
Tier 2	2005-2011	0.26	0.27	4.95	1.28	0.18	0.17	0.093888	10,210	0.26	0.8
Tier 2+	2005-2011	0.13	0.14	4.95	1.28	0.08	0.08	0.093888	10,210	0.26	0.8
Tier 3	2011-2014	0.13	0.14	4.95	1.28	0.08	0.08	0.093888	10,210	0.26	0.8
Tier 4	2015	0.04	0.04	1.00	1.28	0.015	0.015	0.093888	10,210	0.26	0.8

1 Emission Factors for Locomotives (EPA-420-F-09-025), April 2009, Table 1.
2 VOC value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components, 2005.
3 PM2.5 emissions are estimated as 0.97 times the PM10 (U.S. EPA Technical Highlights: Emission Factors for Locomotives, EPA-420-F-09-025, April 2009. https://nepis.epa.gov/E
4 Emission Factors for Locomotives (EPA-420-F-09-025), April 2009, page 5.
5 GHG emission factors obtained from The Climate Registry. 2021 Emission Factors, Tables 2.1 and 2.7.
* Fleet Mix from CARB Fleet Average Emissions Agreement in the South Coast Air Basin (1998 MOU).

SO2 Emission Rate

SO2 (g/gal) = (fuel density) x (conversion factor) x (64g SO2/32g S) x (S content of fuel)

Density of Diesel Fuel	3,200	g/gal	(Source: U.S. EPA Emission Factors for Locomotives, U.S. EPA-420-F-09-025, April 2009)
Sulfur Conversion in Fuel	0.978	unitless	(the fraction of fuel sulfur converted to SO2)
Conversion Factor	2	(64g SO2/32g S)	(grams of SO2 formed from a gram of sulfur)
Sulfur Content of Fuel	15	ppm	S content of fuel = 15 g S / 1,000,000 g fuel
SO2 (g/gal):	0.093888		

1 pound =	453.59	grams
1 ton =	907184.7	grams
1 ton =	0.9071847	metric tons
1 mile =	1609.344	meters
Fuel Consumption =	20.8	bhp-hr/ga (Large Line-Haul and Passenger) (Source: Emission Factors for Locomotives (EPA-420-F-09-025), Table 3)

Barstow Yard Switcher Replacement Emission Reductions

		Pollutant (Tons per Year)						GHG (Metric Tons per Year)			
		VOC	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**N_2O**	**CH_4**	**CO_2e**
2028											
2028 - 15 Switchers, No Replacements, No RD		24.59	155.92	16.08	0.08	7.26	7.04	765.74	0.19	0.60	839
2028 - 6 Switchers Replaced, 9 Removed, No RD		0.74	6.06	6.33	0.03	0.13	0.12	287.30	0.08	0.24	317
2028 Reduction with 6 Switchers Replaced, 9 Removed		**-23.85**	**-149.86**	**-9.75**	**-0.05**	**-7.13**	**-6.92**	**-478.43**	**-0.12**	**-0.36**	**-522**
	lbs/day	-130.69	-821.16	-53.43	-0.26	-39.08	-37.91				
2033											
2033 - 15 Switchers, No Replacements, No RD		24.59	155.92	16.08	0.08	7.26	7.04	765.74	0.19	0.60	839
2033 - 6 Switchers Replaced, 9 Removed, No RD		0.74	6.06	6.33	0.03	0.13	0.12	287.30	0.08	0.24	317
2033 Reduction with 6 Switchers Replaced, 9 Removed		**-23.85**	**-149.86**	**-9.75**	**-0.05**	**-7.13**	**-6.92**	**-478.43**	**-0.12**	**-0.36**	**-522**
	lbs/day	-130.69	-821.16	-53.43	-0.26	-39.08	-37.91				
2048											
2048 - 15 Switchers, No Replacements, No RD		24.59	155.92	16.08	0.08	7.26	7.04	765.74	0.19	0.60	839
2048 - 6 Switchers Replaced, 9 Removed, No RD		0.74	6.06	6.33	0.03	0.13	0.12	287.30	0.08	0.24	317
2048 Reduction with 6 Switchers Replaced, 9 Removed		**-23.85**	**-149.86**	**-9.75**	**-0.05**	**-7.13**	**-6.92**	**-478.43**	**-0.12**	**-0.36**	**-522**
	lbs/day	-130.69	-821.16	-53.43	-0.26	-39.08	-37.91				

Tier 0 to T4

Criteria Pollutant Emission Reduction Calculation	NOx	ROG	PM	CO	SO_X	CO_2	N_2O	CH_4	Total	Source https://ww2.arb.ca.gov/sites/default/files/classic/msprog/moyer/guidelines/2017/2017_cmpgl.pdf
Baseline Emission Factor (g/bhp-hr)	13.16	2.21	0.619	1.28	-	-	-	-		Table D-14.a - Tier 0 switcher, CO factor from EPA-420-F-09-025
Reduced Emission Factor (g/bhp-hr)	1.22	0.15	0.026	1.28	-	-	-	-		Table D-14.b - 2015+ Tier 4 switcher,CO factor from EPA-420-F-09-025
Baseline Emission Factor (g/gallon)	-	-	-	-	0.09	1021.00	0.26	0.80		SO2 calculated per EPA-420-F-09-025, page 5 and assumes sulfur content of 15 ppm, GHG emission factors from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7, 2021.
Reduced Emission Factor (g/gallon)	-	-	-	-	0.09	1021.00	0.26	0.80		SO2 calculated per EPA-420-F-09-025, page 5 and assumes sulfur content of 15 ppm, GHG emission factors from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7, 2021.
Fuel Consumption Rate Factor (bhp-hr/ga)	15.20	15.20	15.20	15.20	-	-	-	-		Table D-21 Switcher Fuel Consumption Rate Factor
Annual Fuel Consumption	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000		50,000 gallon default; BNSF actual average within 5%
% in Operation in California (1.0 = 100%)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
(ton/907,200 g)	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06		
Projected Baseline Emissions (tons/year)	11.0247	1.8514	0.5186	1.0723	0.0052	56.2720	0.0143	0.0441	11.54	Baseline emission factor x Fuel Consumption Factor x conversions
Projected Reduced Emissions (tons/year)	1.0220	0.1257	0.0218	1.0723	0.0052	56.2720	0.0143	0.0441	1.04	Reduced emission factor x Fuel Consumption Factor x conversions
Annual Emission Reductions Per Unit (tons/year)	**10.0026**	**1.7257**	**0.4968**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**10.4990**	Baseline emissions less reduced emissions
Annual Emission Reductions All Units (tons/year)	110.03	18.98	5.46	0.00	0.00	0.00	0.00	0.00	115.49	Annual emission reduction x number of units
20 Year Emission Reductions All Units (tons/year)	**2200.57**	**379.65**	**109.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2309.78**	Total annual emission reductions x project life
Emission Weighting for Cost Effectiveness Calculations	**1.00**	**1.00**	**1.00**	**2.00**	**3.00**	**4.00**	**5.00**	**6.00**		PM weighting for Moyer Funding Only
Weighted Emission Reductions Per Unit	**10.00**	**1.73**	**0.50**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**12.23**	
Project Life	20	20	20	20	20	20	20	20	20	
Number of Units	11	11	11	11	11	11	11	11	11	

Tier 1 to T4

Criteria Pollutant Emission Reduction Calculation	NOx	ROG	PM	CO	SO_X	CO_2	N_2O	CH_4	Total	Source https://ww2.arb.ca.gov/sites/default/files/classic/msprog/moyer/guidelines/2017/2017_cmpgl.pdf
Baseline Emission Factor (g/bhp-hr)	10.34	1.26	0.464	1.28	-	-	-	-		Table D-14.a - Tier 0 switcher, CO factor from EPA-420-F-09-025
Reduced Emission Factor (g/bhp-hr)	1.22	0.15	0.026	1.28	-	-	-	-		Table D-14.b - 2015+ Tier 4 switcher,CO factor from EPA-420-F-09-025
Baseline Emission Factor (g/gallon)	-	-	-	-	0.09	1021.00	0.26	0.80		SO2 calculated per EPA-420-F-09-025, page 5 and assumes sulfur content of 15 ppm, GHG emission factors from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7, 2021.
Reduced Emission Factor (g/gallon)	-	-	-	-	0.09	1021.00	0.26	0.80		SO2 calculated per EPA-420-F-09-025, page 5 and assumes sulfur content of 15 ppm, GHG emission factors from The Climate Registry, 2021 Emission Factors, Tables 2.1 and 2.7, 2021.
Fuel Consumption Rate Factor (bhp-hr/ga)	15.20	15.20	15.20	15.20	-	-	-	-		Table D-21 Switcher Fuel Consumption Rate Factor
Annual Fuel Consumption	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000		50,000 gallon default; BNSF actual average within 5%
% in Operation in California (1.0 = 100%)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
(ton/907,200 g)	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06	1.1023E-06		
Projected Baseline Emissions (tons/year)	8.6623	1.0556	0.3887	1.0723	0.0052	56.2720	0.0143	0.0441	9.05	Baseline emission factor x Fuel Consumption Factor x conversions
Projected Reduced Emissions (tons/year)	1.0220	0.1257	0.0218	1.0723	5.1742E-03	5.6272E+01	1.4330E-02	4.4092E-02	1.04	Reduced emission factor x Fuel Consumption Factor x conversions
Annual Emission Reductions Per Unit (tons/year)	**7.6402**	**0.9299**	**0.3669**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**8.0070**	Baseline emissions less reduced emissions
Annual Emission Reductions All Units (tons/year)	30.56	3.72	1.47	0.00	0.00	0.00	0.00	0.00	32.03	Annual emission reduction x number of units
15 Year Emission Reductions All Units (tons/year)	**611.22**	**74.39**	**29.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**640.56**	Total annual emission reductions x project life
Emission Weighting for Cost Effectiveness Calculations	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**		PM weighting for Moyer Funding Only
Weighted Emission Reductions Per Unit	**7.64**	**0.93**	**0.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**8.94**	
Project Life	20	20	20	20	20	20	20	20	20	
Number of Units	4	4	4	4	4	4	4	4	4	

Switcher Replacement - NOx Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	11.02	1.02	1.02	1.02
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	11.02	1.02	1.02	1.02
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	11.02	1.02	1.02	1.02
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	11.02	1.02	1.02	1.02
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	11.02	1.02	1.02	1.02
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	11.02	1.02	1.02	1.02
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	11.02	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	11.02	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	11.02	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	11.02	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	11.02	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	8.66	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	8.66	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	8.66	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	8.66	-	-	-
								155.92	6.13	6.13	6.13

Switcher Replacement - PM10 Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	0.52	0.02	0.02	0.02
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	0.52	0.02	0.02	0.02
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	0.52	0.02	0.02	0.02
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	0.52	0.02	0.02	0.02
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.52	0.02	0.02	0.02
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	0.52	0.02	0.02	0.02
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	0.52	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	0.52	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	0.52	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	0.52	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.52	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.39	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.39	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.39	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.39	-	-	-
								7.26	0.13	0.13	0.13

Switcher Replacement - VOC Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	1.85	0.13	0.13	0.13
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	1.85	0.13	0.13	0.13
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	1.85	0.13	0.13	0.13
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	1.85	0.13	0.13	0.13
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	1.85	0.13	0.13	0.13
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	1.85	0.13	0.13	0.13
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	1.85	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	1.85	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	1.85	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	1.85	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	1.85	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	1.06	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	1.06	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	1.06	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	1.06	-	-	-
								24.59	0.75	0.75	0.75

Switcher Replacement - CO Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	1.07	1.07	1.07	1.07
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	1.07	1.07	1.07	1.07
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	1.07	1.07	1.07	1.07
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	1.07	1.07	1.07	1.07
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	1.07	1.07	1.07	1.07
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	1.07	1.07	1.07	1.07
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	1.07	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	1.07	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	1.07	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	1.07	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	1.07	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	1.07	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	1.07	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	1.07	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	1.07	-	-	-
								16.08	6.43	6.43	6.43

Switcher Replacement - SOx Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.01	0.01	0.01	0.01
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	0.01	0.01	0.01	0.01
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	0.01	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	0.01	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
								0.08	0.03	0.03	0.03

Switcher Replacement - CO2 Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	56.27	56.27	56.27	56.27
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	56.27	56.27	56.27	56.27
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	56.27	56.27	56.27	56.27
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	56.27	56.27	56.27	56.27
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	56.27	56.27	56.27	56.27
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	56.27	56.27	56.27	56.27
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	56.27	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	56.27	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	56.27	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	56.27	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	56.27	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	56.27	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	56.27	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	56.27	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	56.27	-	-	-
								844.08	337.63	337.63	337.63

Switcher Replacement - N2O Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	0.01	0.01	0.01
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.01	0.01	0.01	0.01
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	0.01	0.01	0.01	0.01
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	0.01	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	0.01	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	0.01	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.01	-	-	-
								0.21	0.09	0.09	0.09

Switcher Replacement - CH4 Emissions

UNIT	NUMBER	LOCO CLASS	ENG TYPE	EPA Tier Level	FUEL CONSUMPTION (annual diesel gallons)	RCL	Air Brake	Baseline Emissions	2028 Emission Reductions Scenario	2033 Emission Reductions Scenario	2048 Emission Reductions Scenario
BNSF	1852	SD40-2	16-645E3	0+	50,000	Canac	26L	0.04	0.04	0.04	0.04
BNSF	1860	SD40-2	16-645E3	0	50,000	Canac	26L	0.04	0.04	0.04	0.04
BNSF	1856	SD40-2	16-645E3	0+	50,000	Canac	26L	0.04	0.04	0.04	0.04
BNSF	1888	SD40-2	16-645E3	0	50,000	Canac	26L	0.04	0.04	0.04	0.04
BNSF	1854*	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.04	0.04	0.04	0.04
BNSF	1728	SD40-2	16-645E3	0+	50,000	None	26L	0.04	0.04	0.04	0.04
BNSF	1859	SD40-2	16-645E3	0	50,000	Canac	26L	0.04	-	-	-
BNSF	1858	SD40-2	16-645E3	0	50,000	Canac	26L	0.04	-	-	-
BNSF	1721	SD40-2	16-645E3B	0+	50,000	None	26L	0.04	-	-	-
BNSF	1709	SD40-2	16-645E3	**0**	50,000	Canac	CCB26	0.04	-	-	-
BNSF	1620	SD40-2	16-645E3	0+	50,000	Canac	CCB26	0.04	-	-	-
BNSF	500	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.04	-	-	-
BNSF	521	B40-8W	16-7FDL	1+	50,000	Canac	CCB26	0.04	-	-	-
BNSF	692	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.04	-	-	-
BNSF	675	C44-9W	16-7FDL	1+	50,000	Canac	CCB26	0.04	-	-	-
								0.66	0.26	0.26	0.26

Appendix A2.2: Mobile Source Emissions

Mobile Source Emissions Summary

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
2028 Annual		Exhaust, BWTW	6.39	5.26	95.58	0.32	2.12	0.73	29,909.03
(Tons/Year)	Cars	Dust					13.89	3.41	
		On-Site BWTW					0.02	0.01	
		On-Site Dust					0.66	0.16	
(MT/yr for GHG)	Trucks	Exhaust, BWTW	0.23	18.11	5.15	0.16	1.76	0.77	17,047.90
		Dust					8.81	2.16	
	Hostlers/	On-Site BWTW					0.19	0.04	
	Equipment	On-Site Dust					1.15	0.28	
		Annual Total	**6.62**	**23.37**	**100.73**	**0.49**	**28.58**	**46,007.02**	**46,956.93**

2028 Summer		Exhaust, BWTW	41.39	33.13	720.97	2.15	13.38	4.62	
(Pounds/Day)	Cars	Dust					76.12	18.69	
		On-Site BWTW					0.10	0.03	
		On-Site Dust					3.59	0.88	
	Trucks	Exhaust, BWTW	1.47	114.08	32.38	1.04	11.08	4.86	
		Dust					48.25	11.84	
	Hostlers/	On-Site BWTW					1.17	0.37	
	Equipment	On-Site Dust					6.28	1.54	
		Summer Total	**42.86**	**147.21**	**753.35**	**3.18**	**159.97**	**42.83**	

2028 Winter		Exhaust, BWTW	40.48	37.67	562.68	2.00	13.38	4.62	
(Pounds/Day)	Cars	Dust					76.12	18.69	
		On-Site BWTW					0.10	0.03	
		On-Site Dust					3.59	0.88	
	Trucks	Exhaust, BWTW	1.40	119.53	32.58	1.04	11.08	4.86	
		Dust					48.25	11.84	
	Hostlers/	On-Site BWTW					1.17	0.37	
	Equipment	On-Site Dust					6.28	1.54	
		Winter Total	**41.88**	**157.20**	**595.26**	**3.04**	**159.97**	**42.83**	

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
2033 Annual		Exhaust, BWTW	6.64	4.73	100.23	0.38	2.68	0.89	35,272.41
(Tons/Year)	Cars	Dust					17.97	4.41	
		On-Site BWTW					0.02	0.00	
		On-Site Dust					0.82	0.20	
(MT/yr for GHG)	Trucks	Exhaust, BWTW	0.26	19.45	5.28	0.18	2.19	0.95	19,007.68
		Dust					11.08	2.72	
	Hostlers/	On-Site BWTW					0.19	0.04	
	Equipment	On-Site Dust					1.43	0.35	
		Annual Total	**6.90**	**24.18**	**105.51**	**0.56**	**36.36**	**9.56**	**54,280.09**

2033 Summer		Exhaust, BWTW	42.77	29.78	757.80	2.53	16.86	5.62	
(Pounds/Day)	Cars	Dust					98.47	24.17	
		On-Site BWTW					0.09	0.03	
		On-Site Dust					4.50	1.10	
	Trucks	Exhaust, BWTW	1.65	122.51	33.17	1.15	13.78	5.96	
		Dust					60.70	14.90	
	Hostlers/	On-Site BWTW					1.17	0.37	
	Equipment	On-Site Dust					7.81	0.00	
		Summer Total	**44.42**	**152.29**	**790.97**	**3.68**	**203.38**	**52.15**	

2033 Winter		Exhaust, BWTW	42.00	33.81	589.72	2.36	16.86	5.62	
(Pounds/Day)	Cars	Dust					98.47	24.17	
		On-Site BWTW					0.09	0.03	
		On-Site Dust					4.50	1.10	
	Trucks	Exhaust, BWTW	1.57	128.45	33.42	1.15	13.78	5.96	
		Dust					60.70	14.90	
	Hostlers/	On-Site BWTW					1.17	0.37	
	Equipment	On-Site Dust					7.81	1.92	
		Winter Total	**43.57**	**162.26**	**623.14**	**3.51**	**203.38**	**54.07**	

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
2048 Annual		Exhaust, BWTW	5.25	3.38	92.10	0.40	2.99	0.95	36,880.14
(Tons/Year)	Cars	Dust					20.61	5.06	
		On-Site BWTW					1.27	0.38	
		On-Site Dust					0.96	0.24	
(MT/yr for GHG)	Trucks	Exhaust, BWTW	0.28	19.94	4.09	0.20	2.65	1.12	20,030.49
		Dust					13.83	3.39	
	Hostlers/	On-Site BWTW					0.86	0.28	
	Equipment	On-Site Dust					1.67	0.41	
		Annual Total	**5.53**	**23.32**	**96.19**	**0.60**	**44.83**	**11.83**	**56,910.63**

2048 Summer		Exhaust, BWTW	33.48	21.30	700.72	2.65	18.81	6.01	
(Pounds/Day)	Cars	Dust					112.92	27.72	
		On-Site BWTW					7.97	2.41	
		On-Site Dust					5.25	1.29	
	Trucks	Exhaust, BWTW	1.81	125.60	25.65	1.23	16.69	7.07	
		Dust					75.76	18.60	
	Hostlers/	On-Site BWTW					5.43	1.75	
	Equipment	On-Site Dust					9.15	2.25	
		Summer Total	**35.29**	**146.90**	**726.38**	**3.89**	**251.99**	**67.09**	

2048 Winter		Exhaust, BWTW	33.11	24.11	540.84	2.47	18.81	6.01	
(Pounds/Day)	Cars	Dust					112.92	27.72	
		On-Site BWTW					7.97	2.41	
		On-Site Dust					5.25	1.29	
	Trucks	Exhaust, BWTW	1.72	131.95	25.96	1.23	16.69	7.07	
		Dust					75.76	18.60	
	Hostlers/	On-Site BWTW					5.43	1.75	
	Equipment	On-Site Dust					9.15	2.25	
		Winter Total	**34.83**	**156.06**	**566.80**	**3.71**	**251.99**	**67.09**	

Tons/Year	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**MT/Year CO_2e**
2028 Passenger Cars	6.39	5.26	95.58	0.32	16.02	4.14	29,909.03
2028 Trucks	0.23	18.11	5.15	0.16	10.56	2.93	17,047.90
2028 On-Site Cars					0.67	0.17	
2028 On-Site Hostlers/Equipment					1.33	0.32	
2033 Passenger Cars	6.64	4.73	100.23	0.38	19.54	6.51	35,272.41
2033 Trucks	0.26	19.45	5.28	0.18	13.27	3.66	19,007.68
2033 On-Site Cars					3.01	1.15	
2033 On-Site Hostlers/Equipment					1.61	0.39	
2048 Passenger Cars	5.25	3.38	92.10	0.40	23.59	6.01	36,880.14
2048 Trucks	0.28	19.94	4.09	0.20	16.48	4.52	20,030.49
2048 On-Site Cars					2.22	0.62	
2048 On-Site Hostlers/Equipment					2.53	0.69	

Pounds/Day	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
2028 Passenger Cars	41.39	37.67	720.97	2.15	89.51	23.31
2028 Trucks	1.47	119.53	32.58	1.04	59.33	16.70
2028 On-Site Cars					3.68	0.91
2028 On-Site Hostlers/Equipment					7.45	1.91
2033 Passenger Cars	42.77	33.81	757.80	2.53	16.86	5.62
2033 Trucks	1.65	128.45	33.42	1.15	13.78	5.96
2033 On-Site Cars					4.59	1.13
2033 On-Site Hostlers/Equipment					8.98	2.29
2048 Passenger Cars	33.48	24.11	700.72	2.65	131.73	33.72
2048 Trucks	1.81	131.95	25.96	1.23	92.45	25.66
2048 On-Site Cars					13.22	3.70
2048 On-Site Hostlers/Equipment					14.59	4.00

Overall Total

Unmitigated

		Tons/Year						MT/Year
		ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
	2028 Annual	6.62	23.37	100.73	0.49	28.58	46,007.02	46,956.93
	2033 Annual	6.90	24.18	105.51	0.56	36.36	9.56	54,280.09
	2048 Annual	5.53	23.32	96.19	0.60	44.83	11.83	56,910.63
				Pounds/Day				
	2028 Summer	42.86	147.21	753.35	3.18	159.97	42.83	
	2028 Winter	41.88	157.20	595.26	3.04	159.97	42.83	
	2028 Daily Max	**42.86**	**157.20**	**753.35**	**3.18**	**159.97**	**42.83**	
	2033 Summer	44.42	152.29	790.97	3.68	203.38	52.15	
	2033 Winter	43.57	162.26	623.14	3.51	203.38	54.07	
	2033 Daily Max	**44.42**	**162.26**	**790.97**	**3.68**	**203.38**	**54.07**	
	2048 Summer	35.29	146.90	726.38	3.89	251.99	67.09	
	2048 Winter	34.83	156.06	566.80	3.71	251.99	67.09	
	2048 Daily Max	**35.29**	**156.06**	**726.38**	**3.89**	**251.99**	**67.09**	

Mitigated

	Tons/Year					
	ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Tons/Year						
2028 Passenger Cars	6.39	5.26	95.58	0.32	13.79	3.60
2028 Trucks	0.23	18.11	5.15	0.16	9.16	2.59
2028 On-Site Cars					0.56	0.14
2028 On-Site Hostlers/Equipment					1.12	0.27
2033 Passenger Cars	6.64	4.73	100.23	0.38	17.77	4.60
2033 Trucks	0.26	19.45	5.28	0.18	11.49	3.23
2033 On-Site Cars					0.70	0.17
2033 On-Site Hostlers/Equipment					1.35	0.33
2048 Passenger Cars	5.25	3.38	92.10	0.40	20.30	5.20
2048 Trucks	0.28	19.94	4.09	0.20	14.26	3.97
2048 On-Site Cars					1.87	0.52
2048 On-Site Hostlers/Equipment					2.13	0.58
Pounds/Day	**ROG**	**NOX**	**CO**	**SOX**	**PM10**	**PM2.5**
2028 Passenger Cars	41.39	37.67	720.97	2.15	77.33	20.32
2028 Trucks	1.47	119.53	32.58	1.04	51.61	14.81
2028 On-Site Cars					3.10	0.76
2028 On-Site Hostlers/Equipment					6.26	1.61
2033 Passenger Cars	42.77	33.81	757.80	2.53	99.58	25.92
2033 Trucks	1.65	128.45	33.42	1.15	64.77	18.47
2033 On-Site Cars					3.86	0.95
2033 On-Site Hostlers/Equipment					7.54	1.92
2048 Passenger Cars	33.48	24.11	700.72	2.65	131.73	29.29
2048 Trucks	1.81	131.95	25.96	1.23	92.45	22.69
2048 On-Site Cars					11.10	3.11
2048 On-Site Hostlers/Equipment					12.25	3.36

2028 Mobile Source Emissions - Passenger Cars

	Trip Genera	%	Trip Length (miles)	VMT Peak Daily	VMT Annual
Passenger Cars:	8,727	0.9362729	35	345,153	111,487,425
Trucks:	594	0.0637271	60	35,627	11,507,828
Total Daily Trips:	*9,321*				

On-Site BW/TW

On-Site Passenger Cars	10,088	0.6402037	2,345	2,650	856,071
On-Site Trucks/Equipm	5,669	0.3597963	4,101	4,634	1,496,865
Total:	*15,757*				

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.58	0.12	0.3	0	0	0	0	0	0	0	0	0	0

Emissions Summary

Annual

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Off-Site	Tons/Year	6.39	5.26	95.58	0.32	2.12	0.73	7.00				
Off-Site	MT/Year								0.43	0.59	29,723.02	29,909.03
On-Site BW/TW	Tons/Year					0.02	0.01					

Summer

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	41.39	33.13	720.97	2.15	13.38	4.62	45.24
On-Site BW/TW	Lbs/Day					0.10	0.03	

Winter

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	40.48	37.67	562.68	2.00	13.38	4.62	44.26
On-Site BW/TW	Lbs/Day					0.10	0.03	

2028 Mobile Source Emissions - Trucks

	Trip Genera	%	Trip Length (miles)	VMT Peak Daily	VMT Annual
Passenger Cars:	8,727	0.9362729	35	345,153	111,487,425
Trucks:	594	0.0637271	60	35,627	11,507,828
Total Daily Trips:	*9,321*				

On-Site BW/TW

On-Site Passenger Cars	10,088	0.6402037	2,345	2,650	856,071
On-Site Trucks/Equipm	5,669	0.3597963	4,101	4,634	1,496,865
Total:	*15,757*				

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Off-Site	Tons/Year	0.23	18.11	5.15	0.16	1.76	0.77	0.84				
Off-Site	MT/Year								0.53	2.58	16,264.47	17,047.90
On-Site BW/TW	Tons/Year					0.19	0.04					

Summer

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	1.47	114.08	32.38	1.04	11.08	4.86	5.29
On-Site BW/TW	Lbs/Day					1.17	0.37	

Winter

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	1.40	119.53	32.58	1.04	11.08	4.86	5.22
On-Site BW/TW	Lbs/Day					1.17	0.37	

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2028
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculat

		Emissions Rate (g/mile or g/trip)												
Seas	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0046365	0.0028977	0.0179349	0.1201026	0.02249685	0	0	0.45308532	0
A	CH4_RUNEX	0.001699	0.0061841	0.0024614	0.003184	0.0018122	0.0006256	0.0074282	0.0447117	0.0401739	2.52598147	0.16014455	1.11188439	0.005739
A	CH4_STREX	0.050577	0.0884468	0.0622177	0.0732603	0.0179853	0.0106191	0.0092005	4.582E-08	0.02248567	0.012393805	0.15468651	0.00696017	0.024163
A	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.6311473	5.538307	0.62337374	0	0	2.85882984	0
A	CO_RUNEX	0.583421	1.3784533	0.7364651	0.8423107	0.4888163	0.1995033	0.1898517	0.3208814	0.66464292	33.16070443	11.7197899	4.26903453	0.56256
A	CO_STREX	2.228535	4.3058976	2.7169066	2.9051033	2.0177449	1.1350935	0.9822112	0.001742	2.4159062	1.14170799	7.3942871	0.86632868	1.992861
A	CO2_NBIO_IDLE	0	0	0	0	8.2431245	12.903602	137.63701	813.94491	88.5334058	0	0	253.608165	0
A	CO2_NBIO_RUN	237.8998	314.63923	312.54404	380.92771	330.43747	206.85307	1109.9966	1424.066	1388.45312	2023.321973	191.044648	1156.32034	1523.862
A	CO2_NBIO_STRI	58.91092	79.607921	76.468809	92.793212	16.162957	9.3461927	9.5381357	0.0189088	20.2093246	11.1387809	43.4754522	5.48495694	20.75334
A	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6257541	4.0124067	0.31614313	0	0	1.03917543	0
A	NOX_RUNEX	0.027295	0.116372	0.049137	0.0703287	0.0597648	0.030869	0.5340786	1.4257402	0.9568571	0.364656814	0.51866154	1.88138291	1.203629
A	NOX_STREX	0.19056	0.3344146	0.2510976	0.305118	0.3452954	0.2131868	1.2518168	2.5768812	0.71791278	0.096407768	0.10976773	0.2574289	0.301005
A	PM10_IDLEX	0	0	0	0	0.0007269	0.0013138	0.0007074	0.0019356	0.00037712	0	0	0.00127373	0
A	PM10_PMBW	0.007543	0.0097124	0.0092737	0.0093454	0.0471174	0.0307896	0.0421117	0.0791032	0.05429053	0.103534379	0.012	0.04631516	0.04284
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0050308	0.0028948	0.012	0.0354957	0.012	0.029881842	0.004	0.01015823	0.013286
A	PM10_RUNEX	0.001096	0.001835	0.0012122	0.0012513	0.0006656	0.0003192	0.0061279	0.0263917	0.0163635	0.000683685	0.00220082	0.01062526	0.029802
A	PM10_STREX	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.82066E-05	0.00345083	5.5774E-05	0.000239
A	PM25_IDLEX	0	0	0	0	0.0006954	0.001257	0.0006762	0.001848	0.00036024	0	0	0.0012039	0
A	PM25_PMBW	0.00264	0.0033993	0.0032458	0.0032709	0.0164911	0.0107764	0.0147391	0.0276861	0.01900168	0.036237033	0.0042	0.01621031	0.014994
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0012577	0.0007237	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
A	PM25_RUNEX	0.001008	0.0016876	0.0011151	0.001153	0.000612	0.0002935	0.0058555	0.0252474	0.01563885	0.000646509	0.00205493	0.01010381	0.028485
A	PM25_STREX	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.11027E-05	0.00323347	5.1282E-05	0.00022
A	ROG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.016918455	2.12623011	0.07121671	27.36494
A	ROG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.004726126	3.60529789	0.01458279	6.350779
A	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0231067	0.3566242	0.0515165	0	0	0.27496857	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.006071	0.0269787	0.0092167	0.0127848	0.0087198	0.0027284	0.0136812	0.0123662	0.04219457	0.039105996	1.011744	0.07015645	0.038068
A	ROG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.000504255	1.20724661	0.01724765	0.001576
A	ROG_STREX	0.219664	0.4435414	0.2735144	0.3440902	0.0857517	0.0503525	0.0475914	2.362E-07	0.11985375	0.050375582	1.12578632	0.03984838	0.092652
A	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012629	0.0073156	0.0008037	0	0	0.00134227	0
A	SO2_RUNEX	0.002352	0.0031105	0.0030894	0.0037639	0.0032667	0.002045	0.0105429	0.0130847	0.01292251	0.001860784	0.00188867	0.00713225	0.014933
A	SO2_STREX	0.000582	0.000787	0.000756	0.0009174	0.0001598	9.24E-05	9.429E-05	1.869E-07	0.00019979	0.000110118	0.0004298	5.4224E-05	0.000205
A	TOG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.016918455	2.12623011	0.07121671	27.36494
A	TOG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.004726126	3.60529789	0.01458279	6.350779
A	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0443691	0.5100506	0.08146112	0	0	0.79158923	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.008848	0.0393621	0.013432	0.0186064	0.012724	0.0039813	0.0231627	0.0584678	0.08902592	2.581299204	1.2353619	1.19798365	0.04934
A	TOG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.000504255	1.20724661	0.01724765	0.001576
A	TOG_STREX	0.240505	0.485622	0.2994638	0.3767355	0.0938873	0.0551296	0.0521065	2.586E-07	0.13122477	0.055154922	1.22449347	0.04362897	0.101443
A	N2O_IDLEX	0	0	0	0	0.0006482	0.001567	0.0210606	0.1301543	0.01236512	0	0	0.03716019	0
A	N2O_RUNEX	0.003565	0.0087721	0.0050008	0.0067135	0.0035117	0.0020593	0.132444	0.2262887	0.12493604	0.378914386	0.03735335	0.14994277	0.063086
A	N2O_STREX	0.026879	0.0354256	0.0318752	0.0339207	0.0298388	0.0175245	0.0068223	3.25E-06	0.01929632	0.010218678	0.00671455	0.0066509	0.034033
S	CH4_IDLEX	0	0	0	0	0.0046521	0.0029071	0.0177963	0.1210723	0.02258659	0	0	0.45316243	0
S	CH4_RUNEX	0.001776	0.0064426	0.0025671	0.0033265	0.0012875	0.0021791	0.0074555	0.0447121	0.04025147	2.525992108	0.16100447	1.11198691	0.00585
S	CH4_STREX	0.045297	0.0787888	0.0557592	0.0654852	0.0173575	0.0102542	0.0088753	4.386E-08	0.02158846	0.011445279	0.1391153	0.006076	0.023027
S	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.5781089	5.4679591	0.61641513	0	0	2.84967757	0
S	CO_RUNEX	0.718208	1.6932961	0.9030761	1.0400228	0.0738496	0.113189	0.1925074	0.3210081	0.67326684	33.16195956	11.7788472	4.27954236	0.575059
S	CO_STREX	1.9106	3.6677137	2.3279607	2.4875592	1.9268007	1.0845151	0.9325503	0.0016548	2.27392935	0.999420499	6.64171558	0.67859067	1.867776
S	CO2_NBIO_IDLE	0	0	0	0	8.2431245	12.903602	136.45234	804.44776	87.707516	0	0	255.786723	0
S	CO2_NBIO_RUN	251.7437	330.81834	326.87831	396.07159	178.99335	362.72201	1110.0013	1424.0662	1388.46831	2023.324088	191.137905	1156.33919	1523.884
S	CO2_NBIO_STRI	58.32168	78.418534	75.746889	91.996095	16.007637	9.2595423	9.453024	0.0187705	19.9669009	10.89930962	41.8745836	5.16999809	20.54085
S	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6026001	3.8250331	0.30284334	0	0	1.05910714	0
S	NOX_RUNEX	0.023408	0.0998473	0.0421596	0.0603998	0.3215351	0.4767017	0.5012477	1.3457068	0.8945088	0.36242849	0.45312352	1.76052611	1.124384
S	NOX_STREX	0.177795	0.3122317	0.2343875	0.2850804	0.3308432	0.2043243	1.248341	2.5768771	0.70661379	0.091919424	0.10359484	0.25324332	0.287504
S	PM10_IDLEX	0	0	0	0	0.0007269	0.0013138	0.0006059	0.0017163	0.00032569	0	0	0.00113779	0
S	PM10_PMBW	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.103534379	0.012	0.04631516	0.04284
S	PM10_PMTW	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.029881842	0.004	0.01015823	0.013286
S	PM10_RUNEX	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.000683685	0.00220082	0.01062526	0.029802
S	PM10_STREX	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.82066E-05	0.00345083	5.5774E-05	0.000239
S	PM25_IDLEX	0	0	0	0	0.0006954	0.001257	0.000579	0.0016382	0.00031103	0	0	0.00107385	0
S	PM25_PMBW	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.036237033	0.0042	0.01621031	0.014994
S	PM25_PMTW	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
S	PM25_RUNEX	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.000646509	0.00205493	0.01010381	0.028485
S	PM25_STREX	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.11027E-05	0.00323347	5.1282E-05	0.00022
S	ROG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.022213258	2.80259196	0.08346929	32.33497
S	ROG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.004999293	3.72371429	0.01521261	6.748404
S	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0229842	0.3775018	0.05300481	0	0	0.27495373	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.006272	0.0278949	0.0095167	0.0132224	0.0277186	0.0469137	0.0137927	0.0123685	0.04254282	0.039134455	1.00980729	0.0706606	0.038581
S	ROG_RUNLS	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.000510618	1.21282577	0.01725371	0.001605
S	ROG_STREX	0.194428	0.3909159	0.2423226	0.3040224	0.0824708	0.0484475	0.0457111	2.267E-07	0.11474744	0.046294702	1.00333275	0.03476341	0.088479
S	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012518	0.0072256	0.00079588	0	0	0.0013629	0
S	SO2_RUNEX	0.002489	0.0032705	0.0032311	0.0039136	0.0016961	0.003437	0.010543	0.0130847	0.01292266	0.001860805	0.00188959	0.00713244	0.014933
S	SO2_STREX	0.000577	0.0007752	0.0007488	0.0009095	0.0001583	9.154E-05	9.345E-05	1.856E-07	0.00019739	0.000107751	0.00041397	5.1111E-05	0.000203
S	TOG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.022213258	2.80259196	0.08346929	32.33497
S	TOG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.004999293	3.72371429	0.01521261	6.748404
S	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0440153	0.5338181	0.08315544	0	0	0.79157235	0

S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.009142	0.0406991	0.0138697	0.0192449	0.0315558	0.0534081	0.0233255	0.0584712	0.08953409	2.581340732	1.23529217	1.1987193	0.050089	
S	TOG_RUNLS	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.000510618	1.21282577	0.01725371	0.001605	
S	TOG_STREX	0.212874	0.4280037	0.2653128	0.3328663	0.0902952	0.053044	0.0500479	2.482E-07	0.125634	0.050686872	1.09138536	0.03806156	0.096873	
S	N2O_IDLEX	0	0	0	0	0.0006503	0.0015682	0.0208408	0.1286581	0.01223886	0	0	0.03756424	0	
S	N2O_RUNEX	0.003169	0.0078236	0.0044644	0.0060575	0.0282005	0.057147	0.1321978	0.2262861	0.12424622	0.378759974	0.03397235	0.14889525	0.061963	
S	N2O_STREX	0.02594	0.0342689	0.0307885	0.0328036	0.0290903	0.0171044	0.0066953	3.157E-06	0.01889593	0.010089527	0.0066013	0.00647271	0.033809	
W	CH4_IDLEX	0	0	0	0	0.0046338	0.0028959	0.0181383	0.1187635	0.02239686	0	0	0.45306699	0	
W	CH4_RUNEX	0.00168	0.0061139	0.0024336	0.003147	0.0012875	0.0021791	0.0074191	0.0447116	0.04015741	2.525979741	0.15979394	1.11186622	0.005714	
W	CH4_STREX	0.051677	0.0905298	0.0636276	0.0749217	0.0180961	0.0106906	0.009256	4.623E-08	0.02268468	0.012544826	0.15726553	0.00716831	0.024384	
W	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.7052178	5.635454	0.63298324	0	0	2.87146869	0	
W	CO_RUNEX	0.540568	1.2746516	0.6817818	0.7783454	0.0738496	0.113189	0.1890562	0.3208393	0.66283321	33.16047475	11.670238	4.26707813	0.559726	
W	CO_STREX	2.296387	4.4459336	2.8038419	2.9966432	2.0316029	1.1435025	0.9918149	0.0017597	2.44379739	1.163767003	7.50827117	0.90383822	2.01366	
W	CO2_NBIO_IDLE	0	0	0	0	8.2431245	12.903602	139.26836	827.06001	89.6739203	0	0	250.599681	0	
W	CO2_NBIO_RUN	233.3393	309.13657	307.68354	375.83412	178.99335	362.72201	1109.9952	1424.0659	1388.44993	2023.321589	190.960868	1156.31686	1523.857	
W	CO2_NBIO_STRI	59.03655	79.868197	76.629797	92.967413	16.186868	9.3607877	9.5547915	0.0189369	20.2573814	11.17594992	43.7223036	5.54845739	20.78901	
W	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6577281	4.2711608	0.3345095	0	0	1.01165069	0	
W	NOX_RUNEX	0.026761	0.1142876	0.0482402	0.0689981	0.3350347	0.4963825	0.5254085	1.4076911	0.94054855	0.364215967	0.50761537	1.85368095	1.183982	
W	NOX_STREX	0.193066	0.3389256	0.2545273	0.3090664	0.347653	0.2148236	1.2525903	2.5768818	0.72011983	0.097068916	0.11089278	0.25857875	0.30306	
W	PM10_IDLEX	0	0	0	0	0.0007269	0.0013138	0.0008476	0.0022383	0.00044814	0	0	0.00146145	0	
W	PM10_PMBW	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.103534379	0.012	0.04631516	0.04284	
W	PM10_PMTW	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.029881842	0.004	0.01015823	0.013286	
W	PM10_RUNEX	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.000683685	0.00220082	0.01062526	0.029802	
W	PM10_STREX	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.82066E-05	0.00345083	5.5774E-05	0.000239	
W	PM25_IDLEX	0	0	0	0	0.0006954	0.001257	0.0008103	0.0021376	0.00042818	0	0	0.00138351	0	
W	PM25_PMBW	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.036237033	0.0042	0.01621031	0.014994	
W	PM25_PMTW	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321	
W	PM25_RUNEX	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.000646509	0.00205493	0.01010381	0.028485	
W	PM25_STREX	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.11027E-05	0.00323347	5.1282E-05	0.00022	
W	ROG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.016900526	2.09831481	0.07247966	26.75134	
W	ROG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.004693931	3.59578939	0.01449297	6.296891	
W	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0232886	0.3277933	0.04946122	0	0	0.27498905	0	
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	ROG_RUNEX	0.006015	0.0267097	0.0091303	0.0126601	0.0277186	0.0469137	0.013648	0.0123655	0.04212168	0.039101322	1.01062655	0.07006968	0.037951	
W	ROG_RUNLS	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.000522424	1.29923989	0.01736267	0.001609	
W	ROG_STREX	0.225013	0.4548776	0.2803756	0.3527092	0.0863241	0.0507254	0.0480134	2.381E-07	0.12098573	0.051021186	1.14564156	0.04103475	0.093448	
W	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012782	0.0074397	0.0008145	0	0	0.00131378	0	
W	SO2_RUNEX	0.002307	0.0030561	0.0030413	0.0037135	0.0016961	0.003437	0.0105429	0.0130847	0.01292248	0.00186078	0.00188784	0.00713221	0.014933	
W	SO2_STREX	0.000584	0.0007896	0.0007576	0.0009191	0.00016	9.254E-05	9.446E-05	1.872E-07	0.00020026	0.000110486	0.00043224	5.4852E-05	0.000206	
W	TOG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.016900526	2.09831481	0.07247966	26.75134	
W	TOG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.004693931	3.59578939	0.01449297	6.296891	
W	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0448761	0.4772288	0.07912133	0	0	0.79161255	0	
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	TOG_RUNEX	0.008767	0.0389697	0.0133059	0.0184244	0.0315558	0.0534081	0.0231143	0.0584668	0.08891955	2.581292383	1.23361459	1.19785704	0.049169	
W	TOG_RUNLS	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.000522424	1.29923989	0.01736267	0.001609	
W	TOG_STREX	0.246361	0.4980337	0.306976	0.3861722	0.094514	0.0555379	0.0525686	2.607E-07	0.13246415	0.055861777	1.24608416	0.04492789	0.102314	
W	N2O_IDLEX	0	0	0	0	0.0006481	0.0015669	0.0213672	0.1322206	0.01254498	0	0	0.03669138	0	
W	N2O_RUNEX	0.003501	0.0086363	0.004919	0.006613	0.0282005	0.057147	0.1324024	0.2262885	0.12480486	0.378883753	0.03677335	0.14976849	0.062903	
W	N2O_STREX	0.027256	0.0359635	0.032344	0.0344069	0.0300276	0.0176497	0.0068963	3.268E-06	0.01948566	0.010342865	0.00681729	0.00677143	0.03447	

2033 Mobile Source Emissions - Passenger Cars

	Trip Genera	%	Trip Length (miles)	VMT Peak Daily	VMT Annual
Passenger Cars:	11,289	0.937391	35	446,480	144,216,975
Trucks:	754	0.062609	59	44,820	14,477,407
Total Daily Trips:	*12,043*				

On-Site BW/TW

On-Site Passenger Cars	10,088	0.6402037	2,345	2,650	856,071
On-Site Trucks/Equipm	5,669	0.3597963	4,101	4,634	1,496,865
Total:	*15,757*				

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.58	0.12	0.3	0	0	0	0	0	0	0	0	0	0

Emissions Summary

Annual

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Off-Site	Tons/Year	6.64	4.73	100.23	0.38	2.68	0.89	7.16				
Off-Site	MT/Year								0.41	0.62	35,076.04	35,272.41

On-Site BW/TW	Tons/Year	0.02	0.00

Summer

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	42.77	29.78	757.80	2.53	16.86	5.62	46.06
On-Site BW/TW	Lbs/Day					0.09	0.03	

Winter

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	42.00	33.81	589.72	2.36	16.86	5.62	45.23
On-Site BW/TW	Lbs/Day					0.09	0.03	

2033 Mobile Source Emissions - Trucks

	Trip Genera	%	Trip Length (miles)	VMT Peak Daily	VMT Annual
Passenger Cars:	11,289	0.937391	35	446,480	144,216,975
Trucks:	754	0.062609	59	44,820	14,477,407
Total Daily Trips:	*12,043*				

On-Site BW/TW

On-Site Passenger Cars	10,088	0.6402037	2,345	2,650	856,071
On-Site Trucks/Equipm	5,669	0.3597963	4,101	4,634	1,496,865
Total:	*15,757*				

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Off-Site	Tons/Year	0.26	19.45	5.28	0.18	2.19	0.95	0.81				
Off-Site	MT/Year								0.48	3.29	18,015.21	19,007.68

On-Site BW/TW	Tons/Year	0.19	0.04

Summer

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	1.65	122.51	33.17	1.15	13.78	5.96	5.14
On-Site BW/TW	Lbs/Day					1.17	0.37	

Winter

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	1.57	128.45	33.42	1.15	13.78	5.96	5.05
On-Site BW/TW	Lbs/Day					1.17	0.37	

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2033
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated

		Emissions Rate (g/mile or g/trip)												
Seas	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0037418	0.002208	0.016911	0.1061898	0.02296538	0	0	0.472103135	0
A	CH4_RUNEX	0.001264	0.003544	0.0019072	0.00224	0.0005947	0.0002509	0.0065302	0.0317808	0.04242465	0.000596842	0.15038771	1.058449644	0.003558
A	CH4_STREX	0.039445	0.0625675	0.0503533	0.0555514	0.0132448	0.0073768	0.0067874	2.273E-08	0.01874646	0.020824572	0.1410673	0.006616459	0.022035
A	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5578784	5.3176742	0.64495392	0	0	2.901525561	0
A	CO_RUNEX	0.493114	0.9189904	0.6419649	0.6903879	0.2874315	0.1404144	0.0995155	0.2472676	0.46652296	0.109862877	10.8770458	3.72843825	0.238362
A	CO_STREX	1.791266	2.9209532	2.2823173	2.3684618	1.7621085	0.9616135	0.6739165	0.0008858	2.03459728	1.841089809	7.3029789	0.762495459	1.706677
A	CO2_NBIO_IDL	0	0	0	0	7.2416381	11.572279	119.52469	725.46905	90.2707911	0	0	242.0423212	0
A	CO2_NBIO_RUI	215.8338	287.81827	287.18514	346.52209	263.04202	157.72382	902.39828	1253.5542	1228.39174	266.1835028	189.972906	1046.489236	1506.204
A	CO2_NBIO_STR	52.98002	71.184508	69.601437	83.669016	13.803091	7.5609764	7.0817684	0.0099924	17.1747283	17.42876499	40.0393778	5.155581364	19.32601
A	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4716468	3.6223932	0.29079758	0	0	0.691541376	0
A	NOX_RUNEX	0.021102	0.0605859	0.0351744	0.0445836	0.0259082	0.0146718	0.312622	1.2103195	0.81114011	0.031726479	0.48935515	0.982189869	1.039552
A	NOX_STREX	0.163261	0.2490001	0.2160447	0.2406855	0.2627184	0.1529875	1.0106764	2.3540576	0.64361989	0.15859679	0.08992566	0.267561083	0.301261
A	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003098	0.0016756	0.00031934	0	0	0.000842791	0
A	PM10_PMBW	0.007428	0.0095858	0.009248	0.0092949	0.0451479	0.0308339	0.0389752	0.0791119	0.05440504	0.065008504	0.012	0.044539768	0.04287
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0053275	0.0033711	0.012	0.0355187	0.012	0.027061208	0.004	0.010115136	0.01338
A	PM10_RUNEX	0.000781	0.0011897	0.0008927	0.0009157	0.000541	0.0002599	0.0038851	0.0247525	0.01395998	0.000357394	0.00225825	0.006099927	0.024185
A	PM10_STREX	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.000135333	0.00339304	5.49659E-05	0.000212
A	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0002957	0.001599	0.00030482	0	0	0.000789747	0
A	PM25_PMBW	0.0026	0.003355	0.0032368	0.0032532	0.0158018	0.0107919	0.0136413	0.0276892	0.01904176	0.022752976	0.0042	0.015588919	0.015004
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0013319	0.0008428	0.003	0.0088797	0.003	0.006765302	0.001	0.002528784	0.003345
A	PM25_RUNEX	0.000718	0.0010939	0.0008214	0.0008432	0.0004974	0.000239	0.0037113	0.0236796	0.01334127	0.000329173	0.00210633	0.005775016	0.023114
A	PM25_STREX	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.000124434	0.00317004	5.05391E-05	0.000195
A	ROG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.027171566	1.95501678	0.086037449	19.3664
A	ROG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.007060037	3.59790192	0.015686098	4.109631
A	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187664	0.3412702	0.05074188	0	0	0.26776331	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.004197	0.0145604	0.0066974	0.0083694	0.0023827	0.0009622	0.0071894	0.0106427	0.03053744	0.002068819	0.92434298	0.042849277	0.026384
A	ROG_RUNLS	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.000857506	1.23653816	0.021415176	0.001053
A	ROG_STREX	0.164864	0.2933961	0.2125834	0.2464351	0.0603471	0.0339233	0.0342096	1.166E-07	0.10060666	0.084096577	1.00900796	0.037214378	0.080414
A	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010897	0.0065037	0.00081457	0	0	0.001146246	0
A	SO2_RUNEX	0.002134	0.0028454	0.0028387	0.003424	0.0026004	0.0015593	0.0085476	0.0115226	0.01131448	0.002630076	0.00187808	0.006178625	0.014748
A	SO2_STREX	0.000524	0.0007037	0.0006881	0.0008272	0.0001365	7.475E-05	7.001E-05	9.879E-08	0.00016979	0.000172301	0.00039583	5.09682E-05	0.000191
A	TOG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.027171566	1.95501678	0.086037449	19.3664
A	TOG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.007060037	3.59790192	0.015686098	4.109631
A	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0383619	0.4793025	0.08084464	0	0	0.801659077	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.006121	0.0212465	0.009756	0.0121819	0.0034768	0.001404	0.0146985	0.0435744	0.07732696	0.00294572	1.14189255	1.112319761	0.032802
A	TOG_RUNLS	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.000857506	1.23653816	0.021415176	0.001053
A	TOG_STREX	0.180505	0.3212318	0.232752	0.2698154	0.0660725	0.0371418	0.0374552	1.276E-07	0.11015163	0.092075167	1.09800958	0.04074506	0.088043
A	N2O_IDLEX	0	0	0	0	0.0005845	0.0014444	0.0184133	0.1160881	0.01291361	0	0	0.03601507	0
A	N2O_RUNEX	0.003079	0.0057199	0.0041986	0.0051642	0.0017567	0.0011039	0.1115938	0.1991757	0.12367161	0.003414402	0.03614484	0.132620174	0.063906
A	N2O_STREX	0.024184	0.0308148	0.0298077	0.0306405	0.0239705	0.0131699	0.0049505	8.62E-07	0.01532229	0.016722973	0.00567793	0.006985262	0.034766
S	CH4_IDLEX	0	0	0	0	0.0037546	0.0022151	0.0168093	0.1071269	0.0230613	0	0	0.47219174	0
S	CH4_RUNEX	0.001321	0.0036938	0.00199	0.0023406	0.0009133	0.0016968	0.0065434	0.031781	0.0424697	0.000612176	0.15215846	1.058502679	0.003614
S	CH4_STREX	0.035346	0.0559181	0.0451543	0.0497239	0.0127897	0.0071259	0.0065514	2.176E-08	0.01800478	0.019292202	0.1277803	0.005776724	0.021017
S	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5172232	5.2515616	0.63790849	0	0	2.895957923	0
S	CO_RUNEX	0.608684	1.1280069	0.7881558	0.8519518	0.0472155	0.0844155	0.1005549	0.2473457	0.47107722	0.112091742	10.9973504	3.73332685	0.242129
S	CO_STREX	1.539839	2.4998939	1.9593026	2.0324776	1.6838601	0.9192778	0.6399119	0.0008416	1.91506796	1.617703957	6.51675699	0.597102229	1.602012
S	CO2_NBIO_IDL	0	0	0	0	7.2416381	11.572279	118.25831	716.76647	89.3734454	0	0	242.9577646	0
S	CO2_NBIO_RUI	228.5327	302.38337	300.36947	360.04725	158.80155	322.16779	902.40014	1253.5544	1228.39978	266.1872132	190.191381	1046.498042	1506.211
S	CO2_NBIO_STR	52.51768	70.401849	69.007887	83.040392	13.671254	7.4895232	7.0232833	0.0099223	16.9706832	17.05225888	38.4523596	4.877192781	19.14798
S	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4513806	3.4491702	0.27840265	0	0	0.698384566	0
S	NOX_RUNEX	0.018094	0.0519862	0.0301832	0.038285	0.1760916	0.3073911	0.2938148	1.1421755	0.76126886	0.028045916	0.42820932	0.917738598	0.974513
S	NOX_STREX	0.152366	0.2324533	0.201707	0.2248926	0.2517532	0.1466336	1.0082363	2.3540566	0.63433915	0.151380533	0.08502118	0.263129793	0.287832
S	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0002704	0.0014957	0.00027807	0	0	0.000782438	0
S	PM10_PMBW	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.065008504	0.012	0.044539768	0.04287
S	PM10_PMTW	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.027061208	0.004	0.010115136	0.01338
S	PM10_RUNEX	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.000357394	0.00225825	0.006099927	0.024185
S	PM10_STREX	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.000135333	0.00339304	5.49659E-05	0.000212
S	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.000258	0.0014269	0.00026533	0	0	0.000732005	0
S	PM25_PMBW	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.022752976	0.0042	0.015588919	0.015004
S	PM25_PMTW	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.006765302	0.001	0.002528784	0.003345
S	PM25_RUNEX	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.000329173	0.00210633	0.005775016	0.023114
S	PM25_STREX	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.000124434	0.00317004	5.05391E-05	0.000195
S	ROG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.034099424	2.53949367	0.097792024	22.09818
S	ROG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.016314921	4.333555
S	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0188089	0.3614453	0.05240465	0	0	0.267852179	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.004338	0.0150502	0.006915	0.0086538	0.0196628	0.0365311	0.007237	0.0106436	0.03072694	0.002109119	0.93068842	0.043092297	0.026581
S	ROG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.000864164	1.24001695	0.021419772	0.001067
S	ROG_STREX	0.14599	0.2592915	0.1884634	0.2180006	0.0580599	0.032649	0.0328608	1.119E-07	0.09632248	0.077527401	0.90687186	0.03246185	0.076853
S	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010778	0.0064213	0.00080607	0	0	0.001154915	0
S	SO2_RUNEX	0.002259	0.0029894	0.0029691	0.0035578	0.0015047	0.0030527	0.0085476	0.0115227	0.01131456	0.002630112	0.00188024	0.006178712	0.014748
S	SO2_STREX	0.000519	0.000696	0.0006822	0.0008209	0.0001352	7.404E-05	6.943E-05	9.809E-08	0.00016777	0.000168579	0.00038014	4.8216E-05	0.000189
S	TOG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.034099424	2.53949367	0.097792024	22.09818
S	TOG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.016314921	4.333555
S	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0382421	0.5022704	0.08273758	0	0	0.801760249	0

S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.006327	0.0219611	0.0100735	0.012597	0.0223848	0.0415882	0.0147679	0.0435759	0.07760348	0.003004527	1.15122262	1.112674376	0.033089	
S	TOG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.000864164	1.24001695	0.021419772	0.001067	
S	TOG_STREX	0.159841	0.2838915	0.2063437	0.2386832	0.0635683	0.0357466	0.0359784	1.225E-07	0.105461	0.084882745	0.98693366	0.03554164	0.084145	
S	N2O_IDLEX	0	0	0	0	0.0005862	0.0014453	0.018189	0.114717	0.01277513	0	0	0.03621619	0	
S	N2O_RUNEX	0.002735	0.0050923	0.0037467	0.0046613	0.0250192	0.0507577	0.1114602	0.1991743	0.12326252	0.003153476	0.03290722	0.13182366	0.063062	
S	N2O_STREX	0.023339	0.0297738	0.0287802	0.0296038	0.0233488	0.0128421	0.0048506	8.362E-07	0.01498657	0.016518588	0.00558986	0.006798406	0.034535	
W	CH4_IDLEX	0	0	0	0	0.0037395	0.0022066	0.0170612	0.1048958	0.02285461	0	0	0.472076613	0	
W	CH4_RUNEX	0.001249	0.003504	0.0018857	0.0022142	0.0009133	0.0016968	0.0065256	0.0317808	0.04241494	0.000593545	0.14989315	1.058439816	0.003545	
W	CH4_STREX	0.040296	0.0640079	0.0514849	0.0567994	0.0133271	0.0074261	0.0068276	2.294E-08	0.01891165	0.02114958	0.14342093	0.006818265	0.022241	
W	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.6146697	5.4089726	0.65468332	0	0	2.909214205	0	
W	CO_RUNEX	0.45654	0.8501888	0.5941618	0.638079	0.0472155	0.0844155	0.0992023	0.2472407	0.46553668	0.109401997	10.8286973	3.727492338	0.23748	
W	CO_STREX	1.844297	3.0134483	2.3539622	2.4419405	1.7743477	0.9686818	0.6806595	0.0008961	2.05817834	1.882978966	7.43254656	0.796396245	1.725038	
W	CO2_NBIO_IDL	0	0	0	0	7.2416381	11.572279	121.27006	737.48691	91.5099829	0	0	240.7781373	0	
W	CO2_NBIO_RUI	211.6622	282.86919	282.72289	341.96636	158.80155	322.16779	902.39772	1253.5542	1228.39	266.1827332	189.886754	1046.487548	1506.203	
W	CO2_NBIO_STR	53.07757	71.356127	69.732899	83.806206	13.82389	7.5730345	7.0935096	0.0100089	17.2153539	17.49994552	40.3036755	5.21318087	19.35752	
W	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4996329	3.8616059	0.30791437	0	0	0.682091258	0	
W	NOX_RUNEX	0.020688	0.0594952	0.0345248	0.0437325	0.1834248	0.3200164	0.3075642	1.1953365	0.79762734	0.031061904	0.47878684	0.967923741	1.022549	
W	NOX_STREX	0.165391	0.2523816	0.2189741	0.2438142	0.264539	0.154157	1.0112385	2.3540577	0.64543441	0.160025927	0.09084561	0.268793251	0.303414	
W	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003643	0.001924	0.00037634	0	0	0.000926137	0	
W	PM10_PMBW	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.065008504	0.012	0.044539768	0.04287	
W	PM10_PMTW	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.027061208	0.004	0.010115136	0.01338	
W	PM10_RUNEX	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.000357394	0.00225825	0.006099927	0.024185	
W	PM10_STREX	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.000135333	0.00339304	5.49659E-05	0.000212	
W	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0003479	0.0018367	0.00035936	0	0	0.000869487	0	
W	PM25_PMBW	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.022752976	0.0042	0.015588919	0.015004	
W	PM25_PMTW	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.006765302	0.001	0.002528784	0.003345	
W	PM25_RUNEX	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.000329173	0.00210633	0.005775016	0.023114	
W	PM25_STREX	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.000124434	0.00317004	5.05391E-05	0.000195	
W	ROG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.026811803	1.94981887	0.087438239	19.14227	
W	ROG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.007001465	3.58921506	0.015595128	4.082983	
W	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187177	0.3134092	0.04844567	0	0	0.267640585	0	
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	ROG_RUNEX	0.004158	0.0144187	0.0066354	0.0082897	0.0196628	0.0365311	0.0071752	0.0106423	0.03049674	0.002059937	0.92196934	0.042805728	0.026338	
W	ROG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.000888587	1.33133971	0.021518228	0.001068	
W	ROG_STREX	0.168854	0.3007958	0.2178775	0.252568	0.0607578	0.0341743	0.0345198	1.175E-07	0.10156228	0.085500564	1.02665939	0.038348624	0.081123	
W	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0011062	0.0066175	0.0008263	0	0	0.001134275	0	
W	SO2_RUNEX	0.002092	0.0027964	0.0027946	0.003379	0.0015047	0.0030527	0.0085476	0.0115226	0.01131446	0.002630068	0.00187722	0.006178608	0.014748	
W	SO2_STREX	0.000525	0.0007054	0.0006894	0.0008285	0.0001367	7.487E-05	7.013E-05	9.895E-08	0.00017019	0.000173005	0.00039844	5.15376E-05	0.000191	
W	TOG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.026811803	1.94981887	0.087438239	19.14227	
W	TOG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.007001465	3.58921506	0.015595128	4.082983	
W	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0385418	0.4475849	0.07823058	0	0	0.801519365	0	
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	TOG_RUNEX	0.006065	0.0210396	0.0096655	0.0120657	0.0223848	0.0415882	0.0146778	0.0435739	0.07726758	0.002932761	1.1387096	1.112256215	0.032736	
W	TOG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.000888587	1.33133971	0.021518228	0.001068	
W	TOG_STREX	0.184874	0.3293335	0.2385484	0.2765301	0.0665221	0.0374165	0.0377949	1.286E-07	0.11119791	0.093612355	1.11721345	0.041986917	0.088819	
W	N2O_IDLEX	0	0	0	0	0.0005844	0.0014444	0.0187253	0.1179815	0.01310893	0	0	0.035820599	0	
W	N2O_RUNEX	0.003023	0.0056267	0.0041282	0.0050854	0.0250192	0.0507577	0.1115715	0.1991756	0.12359308	0.003365862	0.03557934	0.132490551	0.063766	
W	N2O_STREX	0.02452	0.0312715	0.0302371	0.0310715	0.0241158	0.0132596	0.005002	8.668E-07	0.01546582	0.01694626	0.00576523	0.007111857	0.035221	

2048 Mobile Source Emissions - Passenger Cars

	Trip Genera	%	Trip Length (miles)	VMT Peak Daily	VMT Annual
Passenger Cars:	12,945	0.932973	35	511,975	165,372,375
Trucks:	930	0.067027	60	55,939	18,068,675
Total Daily Trips:	*13,875*				

On-Site BW/TW

On-Site Passenger Cars	14,944	0.7073327	3,429	3,875	1,251,585
On-Site Trucks/Equipm	6,183	0.2926673	5,982	6,760	2,183,430
Total:	*21,128*				

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.58	0.12	0.3	0	0	0	0	0	0	0	0	0	0

Emissions Summary

Annual

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Off-Site	Tons/Year	5.25	3.38	92.10	0.40	2.99	0.95	5.56				
Off-Site	MT/Year								0.30	0.58	36,701.32	36,880.14

On-Site BW/TW	Tons/Year	1.27	0.38

Summer

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	33.48	21.30	700.72	2.65	18.81	6.01	35.42
On-Site BW/TW	Lbs/Day					7.97	2.41	

Winter

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	33.11	24.11	540.84	2.47	18.81	6.01	35.03
On-Site BW/TW	Lbs/Day					7.97	2.41	

2048 Mobile Source Emissions - Trucks

	Trip Genera	%	Trip Length (miles)	VMT Peak Daily	VMT Annual
Passenger Cars:	12,945	0.932973	35	511,975	165,372,375
Trucks:	930	0.067027	60	55,939	18,068,675
Total Daily Trips:	*13,875*				

On-Site BW/TW

On-Site Passenger Cars	14,944	0.7073327	3,429	3,875	1,251,585
On-Site Trucks/Equipm	6,183	0.2926673	5,982	6,760	2,183,430
Total:	*21,128*				

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Off-Site	Tons/Year	0.28	19.94	4.09	0.20	2.65	1.12	0.62				
Off-Site	MT/Year								0.55	3.03	19,114.26	20,030.49

On-Site BW/TW	Tons/Year	0.86	0.28

Summer

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	1.81	125.60	25.65	1.23	16.69	7.07	3.93
On-Site BW/TW	Lbs/Day					5.43	1.75	

Winter

		ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Off-Site	Lbs/Day	1.72	131.95	25.96	1.23	16.69	7.07	3.82
On-Site BW/TW	Lbs/Day					5.43	1.75	

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2048
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculat

		Emissions Rate (g/mile or g/trip)												
Seas	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0019873	0.0010262	0.0097357	0.0706447	0.02364998	0	0	0.26848172	0
A	CH4_RUNEX	0.0009	0.0011035	0.0013503	0.0013653	0.000141	6.364E-05	0.004079	0.014525	0.0452154	6.75151E-05	0.1403424	0.55552454	0.002375
A	CH4_STREX	0.026822	0.0313992	0.03715	0.0368657	0.006345	0.0029123	0.0027351	3.515E-10	0.01017549	0.002406475	0.1199415	0.00351496	0.020809
A	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3305343	5.0618632	0.64197356	0	0	1.91715054	0
A	CO_RUNEX	0.424451	0.5139449	0.5596761	0.568615	0.1632086	0.0817108	0.0368767	0.1248818	0.23940162	0.041522924	10.001238	1.62097777	0.132556
A	CO_STREX	1.325305	1.5421931	1.849198	1.8295686	1.11089	0.5819278	0.2398708	0.000379	0.86432696	0.462248473	7.1781794	0.39607364	1.43656
A	CO2_NBIO_IDI	0	0	0	0	4.4665898	7.5114208	67.454098	644.00022	85.3439537	0	0	143.507913	0
A	CO2_NBIO_RU	197.9221	254.32138	263.62476	313.26157	148.33855	82.852448	495.70442	1065.3347	976.808189	50.54788208	188.98017	584.971782	1495.109
A	CO2_NBIO_STI	46.99377	60.228738	62.4617	73.957111	8.0058798	4.1093515	2.721739	0.003412	9.56692808	2.786323523	34.704901	2.61575402	18.12672
A	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2199642	3.3197309	0.18082849	0	0	0.19422254	0
A	NOX_RUNEX	0.016075	0.0196333	0.0205019	0.021022	0.0048519	0.0031825	0.1015488	0.9894575	0.47776538	0.003152201	0.4588034	0.12170481	0.794263
A	NOX_STREX	0.132911	0.1625428	0.1821653	0.1859778	0.1306962	0.0579797	0.5076396	1.9728258	0.45036194	0.023034968	0.0589122	0.15552071	0.217933
A	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.000101	0.0014933	0.00018062	0	0	0.0004263	0
A	PM10_PMBW	0.007351	0.0093982	0.0092263	0.0092721	0.0420858	0.0346159	0.0320606	0.077555	0.05398192	0.058370786	0.012	0.03618929	0.042903
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0062352	0.0048987	0.012	0.0355518	0.012	0.03039238	0.004	0.01033757	0.013442
A	PM10_RUNEX	0.000451	0.000552	0.0005332	0.0005208	0.0003246	0.0001606	0.0018293	0.0222157	0.00660354	0.000209836	0.002357	0.00160922	0.008052
A	PM10_STREX	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.18756E-05	0.0035502	4.6108E-05	0.000228
A	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	9.609E-05	0.0014253	0.00017181	0	0	0.00039326	0
A	PM25_PMBW	0.002573	0.0032894	0.0032292	0.0032452	0.01473	0.0121156	0.0112212	0.0271442	0.01889367	0.020429775	0.0042	0.01266625	0.015016
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0015588	0.0012247	0.003	0.008888	0.003	0.007598095	0.001	0.00258439	0.003361
A	PM25_RUNEX	0.000415	0.0005076	0.0004909	0.0004793	0.0002985	0.0001476	0.0017477	0.0212535	0.00630814	0.000197519	0.0021972	0.00149529	0.007677
A	PM25_STREX	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.09192E-05	0.0033094	4.2395E-05	0.00021
A	ROG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.009117519	1.789393	0.05588182	11.9177
A	ROG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.002252813	3.592954	0.00674393	1.713547
A	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0098131	0.3294671	0.04529906	0	0	0.14818108	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.002596	0.0032385	0.0041061	0.0041899	0.0004581	0.0002037	0.0026534	0.0089024	0.00817585	0.00068057	0.8338801	0.01192258	0.017209
A	ROG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.000299531	1.3528753	0.01660881	0.000665
A	ROG_STREX	0.100766	0.1194998	0.1443756	0.1445319	0.0271807	0.012367	0.0133843	1.849E-09	0.05250109	0.007525496	0.8287868	0.0195671	0.071221
A	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006105	0.0058701	0.00075599	0	0	0.00055976	0
A	SO2_RUNEX	0.001957	0.0025142	0.0026058	0.0030956	0.0014665	0.0008191	0.004673	0.009893	0.00879849	0.000431653	0.0018683	0.00327339	0.014631
A	SO2_STREX	0.000465	0.0005954	0.0006175	0.0007311	7.915E-05	4.063E-05	2.691E-05	3.373E-08	9.4579E-05	2.75456E-05	0.0003431	2.5859E-05	0.000179
A	TOG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.009117519	1.789393	0.05588182	11.9177
A	TOG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.002252813	3.592954	0.00674393	1.713547
A	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0208798	0.4306907	0.07473656	0	0	0.45086679	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.003787	0.0047256	0.0059744	0.0060968	0.0006685	0.0002973	0.0070356	0.0243195	0.05447142	0.000805857	1.0445644	0.57167765	0.021175
A	TOG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.000299531	1.3528753	0.01660881	0.000665
A	TOG_STREX	0.110326	0.1308372	0.1580731	0.1582442	0.0297595	0.0135403	0.0146541	2.024E-09	0.05748209	0.008239471	0.9027332	0.02142351	0.077978
A	N2O_IDLEX	0	0	0	0	0.000373	0.0009765	0.0105187	0.1025785	0.01280725	0	0	0.02256017	0
A	N2O_RUNEX	0.002683	0.0031412	0.0033373	0.0037209	0.0004806	0.000336	0.0670232	0.1687894	0.12219135	0.001677924	0.0349394	0.07514764	0.068994
A	N2O_STREX	0.021385	0.0253868	0.0279952	0.0279914	0.0129719	0.0058643	0.0024636	5.311E-06	0.00876862	0.00407059	0.0040474	0.00307563	0.025456
S	CH4_IDLEX	0	0	0	0	0.0019942	0.0010294	0.009699	0.0715568	0.02374987	0	0	0.26853718	0
S	CH4_RUNEX	0.000941	0.0011525	0.0014109	0.0014273	0.0004298	0.0009516	0.0040822	0.0145251	0.04522315	6.85702E-05	0.1431366	0.55553911	0.002411
S	CH4_STREX	0.024049	0.02822	0.0333348	0.0330704	0.0061312	0.0028146	0.0026416	3.364E-10	0.00978202	0.00224655	0.1103221	0.00307719	0.019896
S	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3124953	4.9989777	0.63549633	0	0	1.91576012	0
S	CO_RUNEX	0.526203	0.6313024	0.6898292	0.7020131	0.0176112	0.0395445	0.0370639	0.1249126	0.23996969	0.042332451	10.195289	1.62207604	0.134621
S	CO_STREX	1.144845	1.3328818	1.5924287	1.575563	1.0623325	0.5566078	0.2278083	0.0003598	0.81387417	0.411147571	6.3447885	0.31134283	1.352325
S	CO2_NBIO_IDI	0	0	0	0	4.4665898	7.5114208	66.594006	635.88628	84.3844672	0	0	143.110203	0
S	CO2_NBIO_RU	209.7726	267.06358	275.85122	325.36809	102.01103	209.13287	495.70475	1065.3347	976.809195	50.54917514	189.34778	584.973777	1495.113
S	CO2_NBIO_STI	46.66898	59.851939	61.99964	73.499208	7.9254388	4.0676388	2.7008324	0.0033816	9.47940362	2.703419715	33.151628	2.47307405	17.98289
S	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2090109	3.1560605	0.17251087	0	0	0.18979056	0
S	NOX_RUNEX	0.013788	0.0168455	0.0176041	0.0180582	0.033789	0.0869449	0.095606	0.9331528	0.44914693	0.002879399	0.4022855	0.11268125	0.740649
S	NOX_STREX	0.124124	0.1517536	0.1701957	0.1737892	0.1252783	0.0555748	0.5063614	1.9728211	0.44487684	0.022010639	0.0559803	0.15371831	0.208397
S	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	9.125E-05	0.0013367	0.00016295	0	0	0.00042242	0
S	PM10_PMBW	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.058370786	0.012	0.03618929	0.042903
S	PM10_PMTW	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.01033757	0.013442
S	PM10_RUNEX	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.000209836	0.002357	0.00160922	0.008052
S	PM10_STREX	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.18756E-05	0.0035502	4.6108E-05	0.000228
S	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	8.678E-05	0.0012755	0.00015491	0	0	0.00038955	0
S	PM25_PMBW	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.020429775	0.0042	0.01266625	0.015016
S	PM25_PMTW	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.007598095	0.001	0.00258439	0.003361
S	PM25_RUNEX	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.000197519	0.0021972	0.00149529	0.007677
S	PM25_STREX	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.09192E-05	0.0033094	4.2395E-05	0.00021
S	ROG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.011236337	2.22988	0.05899203	12.51652
S	ROG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.002365394	3.6949123	0.00698142	1.779948
S	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0099685	0.3491043	0.04717647	0	0	0.14833562	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.002685	0.0033447	0.0042411	0.0043297	0.0092534	0.0204877	0.0026629	0.0089027	0.00820006	0.000682569	0.8497022	0.01198092	0.017319
S	ROG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.000301772	1.3532945	0.01659338	0.000667
S	ROG_STREX	0.089318	0.1061971	0.1281079	0.128196	0.0261695	0.0119089	0.0128581	1.775E-09	0.05027669	0.006982411	0.7594405	0.01711401	0.068192
S	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006024	0.0057932	0.00074691	0	0	0.000556	0
S	SO2_RUNEX	0.002074	0.0026402	0.0027267	0.0032152	0.0009666	0.0019816	0.004673	0.009893	0.0087985	0.000431666	0.0018719	0.00327341	0.014631
S	SO2_STREX	0.000461	0.0005917	0.0006129	0.0007266	7.835E-05	4.021E-05	2.67E-05	3.343E-08	9.3714E-05	2.67261E-05	0.0003277	2.4449E-05	0.000178
S	TOG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.011236337	2.22988	0.05899203	12.51652
S	TOG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.002365394	3.6949123	0.00698142	1.779948
S	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0209846	0.4530461	0.07687384	0	0	0.45104272	0

S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.003917	0.0048806	0.0061715	0.0063007	0.0105344	0.0233239	0.0070494	0.02432	0.05450676	0.000808774	1.0646669	0.57176277	0.021335	
S	TOG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.000301772	1.3532945	0.01659338	0.000667	
S	TOG_STREX	0.097792	0.1162724	0.140262	0.1403585	0.0286524	0.0130388	0.014078	1.943E-09	0.05504665	0.007644861	0.827228	0.01873768	0.074662	
S	N2O_IDLEX	0	0	0	0	0.0003738	0.0009769	0.0103737	0.1013002	0.01265757	0	0	0.02252238	0	
S	N2O_RUNEX	0.002383	0.0027871	0.0029765	0.0033597	0.0160719	0.032949	0.066988	0.1687889	0.12196613	0.001652465	0.0318497	0.0748783	0.067943	
S	N2O_STREX	0.020643	0.0244967	0.0270167	0.0270111	0.0126226	0.0057121	0.0024046	5.232E-06	0.00855446	0.004006862	0.0039998	0.00298754	0.025313	
W	CH4_IDLEX	0	0	0	0	0.001986	0.0010257	0.0097906	0.0693852	0.02352679	0	0	0.26845998	0	
W	CH4_RUNEX	0.00089	0.0010909	0.0013348	0.0013494	0.0004298	0.0009516	0.0040779	0.014525	0.04521371	6.73045E-05	0.1396785	0.5555216	0.002366	
W	CH4_STREX	0.027394	0.0320882	0.0379751	0.0376844	0.0063855	0.0029314	0.0027522	3.545E-10	0.01026277	0.002440819	0.1219103	0.00362158	0.021012	
W	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3557232	5.1487051	0.65091831	0	0	1.91907064	0	
W	CO_RUNEX	0.392459	0.4756083	0.5174105	0.5253745	0.0176112	0.0395445	0.0368209	0.1248725	0.23927512	0.041359196	9.9527928	1.62074363	0.132019	
W	CO_STREX	1.362344	1.5873766	1.9053242	1.8849364	1.1187113	0.5861338	0.2424969	0.0003831	0.874239	0.471989091	7.3320793	0.41338247	1.452942	
W	CO2_NBIO_IDI	0	0	0	0	4.4665898	7.5114208	68.640547	655.20518	86.6689588	0	0	144.057131	0	
W	CO2_NBIO_RU	194.042	250.00176	259.49869	309.18342	102.01103	209.13287	495.70432	1065.3347	976.807965	50.54762058	188.88878	584.971361	1495.109	
W	CO2_NBIO_STI	47.06061	60.310211	62.562699	74.05693	8.0189346	4.1163281	2.7263483	0.0034185	9.58431806	2.802176033	34.995634	2.64522253	18.15495	
W	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2350899	3.5457519	0.19231472	0	0	0.20034289	0	
W	NOX_RUNEX	0.015758	0.0192632	0.0201131	0.0206227	0.0351249	0.0904172	0.0999428	0.9782188	0.46987215	0.003095739	0.4487416	0.11989854	0.780435	
W	NOX_STREX	0.13461	0.1647592	0.1845777	0.1884217	0.1316158	0.0584178	0.5079507	1.9728268	0.45142741	0.023196776	0.0595034	0.15601547	0.219727	
W	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.0001144	0.0017095	0.00020502	0	0	0.00043166	0	
W	PM10_PMBW	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.058370786	0.012	0.03618929	0.042903	
W	PM10_PMTW	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.01033757	0.013442	
W	PM10_RUNEX	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.000209836	0.002357	0.00160922	0.008052	
W	PM10_STREX	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.18756E-05	0.0035502	4.6108E-05	0.000228	
W	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	0.000109	0.0016322	0.00019516	0	0	0.00039839	0	
W	PM25_PMBW	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.020429775	0.0042	0.01266625	0.015016	
W	PM25_PMTW	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.007598095	0.001	0.00258439	0.003361	
W	PM25_RUNEX	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.000197519	0.0021972	0.00149529	0.007677	
W	PM25_STREX	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.09192E-05	0.0033094	4.2395E-05	0.00021	
W	ROG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.008968027	1.8202586	0.05619609	11.87339	
W	ROG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.002233459	3.585454	0.00671373	1.705924	
W	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0096028	0.302349	0.04270645	0	0	0.14796766	0	
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	ROG_RUNEX	0.002572	0.0032084	0.004068	0.0041505	0.0092534	0.0204877	0.0026506	0.0089022	0.00817051	0.000680172	0.8300197	0.01191093	0.017181	
W	ROG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.000309647	1.4563123	0.01667282	0.000671	
W	ROG_STREX	0.103169	0.1224115	0.1479312	0.1480943	0.0273728	0.0124571	0.013516	1.864E-09	0.05299607	0.007643829	0.8427572	0.020164	0.071889	
W	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006217	0.0059762	0.00076854	0	0	0.00056496	0	
W	SO2_RUNEX	0.001918	0.0024715	0.002565	0.0030552	0.0009666	0.0019816	0.004673	0.009893	0.00879849	0.00043165	0.0018674	0.00327338	0.014631	
W	SO2_STREX	0.000465	0.0005962	0.0006185	0.0007321	7.928E-05	4.069E-05	2.695E-05	3.379E-08	9.4751E-05	2.77024E-05	0.000346	2.6151E-05	0.000179	
W	TOG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.008968027	1.8202586	0.05619609	11.87339	
W	TOG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.002233459	3.585454	0.00671373	1.705924	
W	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0207413	0.3998188	0.07178507	0	0	0.45062383	0	
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	
W	TOG_RUNEX	0.003752	0.0046817	0.0059188	0.0060393	0.0105344	0.0233239	0.0070315	0.0243193	0.05446363	0.000805276	1.0396779	0.57166064	0.021134	
W	TOG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.000309647	1.4563123	0.01667282	0.000671	
W	TOG_STREX	0.112957	0.1340251	0.161966	0.1621447	0.0299697	0.013639	0.0147983	2.041E-09	0.05802403	0.00836903	0.9179477	0.02207704	0.07871	
W	N2O_IDLEX	0	0	0	0	0.0003729	0.0009764	0.0107196	0.1043439	0.01301602	0	0	0.02264848	0	
W	N2O_RUNEX	0.002634	0.0030846	0.003279	0.0036623	0.0160719	0.032949	0.0670177	0.1687893	0.12214964	0.001672613	0.0343897	0.07510391	0.068818	
W	N2O_STREX	0.021676	0.0257483	0.0283804	0.0283709	0.0130457	0.0059018	0.0024861	5.373E-06	0.00884113	0.004114494	0.0041104	0.0031293	0.025821	

Paved Road Dust Calculations (EPA AP-42 13.2.1, equation 2)

E = (k*(sL)^0.91*(W)^1.02)*(1-P/4N)

	PM_{10}	$PM_{2.5}$	
E =			emission factor
k =	0.0022	0.00054	particle size multiplier (lb/vmt)
sL =	0.03	0.03	surface silt loading (CARB Miscellaneous Process Methodology 7.9, Entrained Road Travel, Paved Road Dust, November 2016)
W HHD =	16	16	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
W worker =	2.7	2.7	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
P =	0	0	Number of days per year with >0.01 inches of rain (Source: WRCC data for Barstow,https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabars+sca)
N =	365	365	Days per period

	VMT/year							2028				2033				2048			
				lb/vmt		g/vmt		lbs/day		tons/year		lbs/day		tons/year		lbs/day		tons/year	
Vehicle Type	**2028**	**2033**	**2048**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	11,507,828	14,477,407	18,068,675	0.00153	0.00038	0.6941785	0.1703893	48.250954	11.843416	8.805799	2.1614234	60.702047	14.899593	11.078124	2.7191758	75.759803	18.595588	13.826164	3.3936948
Worker	111,487,425	144,216,975	165,372,375	0.00025	0.00006	0.1130472	0.027748	76.124961	18.685218	13.892805	3.4100522	98.473093	24.170668	17.971339	4.411147	112.91826	27.716299	20.607582	5.0582246
							Total	**124.37591**	**30.528634**	**22.698604**	**5.5714756**	**159.17514**	**39.070262**	**29.049463**	**7.1303227**	**188.67806**	**46.311887**	**34.433746**	**8.4519194**

	VMT/year							2028				2033				2048			
				lb/vmt		g/vmt		lbs/day		tons/year		lbs/day		tons/year		lbs/day		tons/year	
On-Site Equipn	**2028**	**2033**	**2048**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
Passenger Cars	856,071	1,072,297	1,251,585	0.0015304	0.0003756	0.6941785	0.1703893	3.5894039	0.8810355	0.6550662	0.160789	4.4960138	1.103567	0.8205225	0.201401	5.247747	1.2880834	0.9577138	0.2350752
Trucks/Equipm	1,496,865	1,862,595	2,183,430	0.0015304	0.0003756	0.6941785	0.1703893	6.2761769	1.5405161	1.1454023	0.2811442	7.8096393	1.9169115	1.4252592	0.3498363	9.1548622	2.2471026	1.6707624	0.4100962
							Total	**9.8655807**	**2.4215516**	**1.8004685**	**0.4419332**	**12.305653**	**3.0204785**	**2.2457817**	**0.5512373**	**14.402609**	**3.5351859**	**2.6284762**	**0.6451714**

Mobile Source Emissions Summary - Truck Miles Traveled Reduction (MDAQMD Only)

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2028 Annual	Trucks	Exhaust & BW/TW	-0.20	-21.84	-5.21	-0.21	-2.29	-1.00	-0.95	-0.66	-3.33	-20,961.96	-21,971.03
(Tons/Year)		Dust					-11.26	-2.76					
(MT/yr for GHG)		**Annual Total**	**-0.20**	**-21.84**	**-5.21**	**-0.21**	**-13.55**	**-3.77**	-0.95	-0.66	-3.33	-20,961.96	**-21,971.03**
2028 Summer	Trucks	Exhaust & BW/TW	-1.10	-119.64	-28.54	-1.16	-12.54	-5.50	-5.20				
(Pounds/Day)		Dust					-61.72	-15.15					
		Summer Total	**-1.10**	**-119.64**	**-28.54**	**-1.16**	**-74.25**	**-20.64**	-5.20				
2028 Winter	Trucks	Exhaust & BW/TW	-1.10	-125.16	-28.53	-1.16	-12.54	-5.50	-5.20				
(Pounds/Day)		Dust					-61.72	-15.15					
		Winter Total	**-1.10**	**-125.16**	**-28.53**	**-1.16**	**-74.25**	**-20.64**	-5.20				

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2033 Annual	Trucks	Exhaust & BW/TW	-0.21	-22.75	-4.92	-0.23	-2.78	-1.20	-0.87	-0.57	-3.60	-22,648.39	-23,735.12
(Tons/Year)		Dust					-11.26	-2.76					
(MT/yr for GHG)		**Annual Total**	**-0.21**	**-22.75**	**-4.92**	**-0.23**	**-14.04**	**-3.96**	-0.87	-0.57	-3.60	-22,648.39	**-23,735.12**
2033 Summer	Trucks	Exhaust & BW/TW	-1.16	-124.64	-26.99	-1.26	-15.21	-6.57	-4.76				
(Pounds/Day)		Dust					-61.72	-15.15					
		Summer Total	**-1.16**	**-124.64**	**-26.99**	**-1.26**	**-76.93**	**-21.72**	-4.76				
2033 Winter	Trucks	Exhaust & BW/TW	-1.16	-130.44	-26.98	-1.26	-15.21	-6.57	-4.76				
(Pounds/Day)		Dust					-61.72	-15.15					
		Winter Total	**-1.16**	**-130.44**	**-26.98**	**-1.26**	**-76.93**	**-21.72**	-4.76				

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2048 Annual	Trucks	Exhaust & BW/TW	-0.21	-22.27	-2.98	-0.24	-3.23	-1.37	-0.58	-0.31	-3.65	-23,060.74	-24,157.40
(Tons/Year)		Dust					-16.56	-4.07					
(MT/yr for GHG)		**Annual Total**	**-0.21**	**-22.27**	**-2.98**	**-0.24**	**-19.79**	**-5.43**	**-0.58**	**-0.31**	**-3.65**	**-23,060.74**	**-24,157.40**
2048 Summer	Trucks	Exhaust & BW/TW	-1.16	-122.01	-16.33	-1.29	-17.69	-7.49	-3.18				
(Pounds/Day)		Dust					-90.76	-22.28					
		Summer Total	**-1.16**	**-122.01**	**-16.33**	**-1.29**	**-108.45**	**-29.77**	**-3.18**				
2048 Winter	Trucks	Exhaust & BW/TW	-1.16	-127.90	-16.33	-1.29	-17.69	-7.49	-3.18				
(Pounds/Day)		Dust					-90.76	-22.28					
		Winter Total	**-1.16**	**-127.90**	**-16.33**	**-1.29**	**-108.45**	**-29.77**	**-3.18**				

Tons/Year	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	**MT/Year** CO_2e
2028 Trucks	-0.20	-21.84	-5.21	-0.21	-13.55	-3.77	-21,971.03
2033 Trucks	-0.21	-22.75	-4.92	-0.23	-14.04	-3.96	-23,735.12
2048 Trucks	-0.21	-22.27	-2.98	-0.24	-19.79	-5.43	-24,157.40

Pounds/Day	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
2028 Trucks	-1.10	-119.64	-28.53	-1.16	-74.25	-20.64
2033 Trucks	-1.16	-124.64	-26.98	-1.26	-76.93	-21.72
2048 Trucks	-1.16	-122.01	-16.33	-1.29	-108.45	-29.77

Overall Total

				Tons/Year					**MT/Year**		
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2028 Annual	-0.20	-21.84	-5.21	-0.21	-13.55	-3.77	-0.95	-0.66	-3.33	-20,961.96	-21,971.03
2033 Annual	-0.21	-22.75	-4.92	-0.23	-14.04	-3.96	-0.87	-0.57	-3.60	-22,648.39	-23,735.12
2048 Annual	-0.21	-22.27	-2.98	-0.24	-19.79	-5.43	-0.58	-0.31	-3.65	-23,060.74	-24,157.40
				Pounds/Day							
2028 Summer	-1.10	-119.64	-28.54	-1.16	-74.25	-20.64	-5.20				
2028 Winter	-1.10	-125.16	-28.53	-1.16	-74.25	-20.64	-5.20				
2028 Daily Max	**-1.10**	**-119.64**	**-28.53**	**-1.16**	**-74.25**	**-20.64**	**-5.20**				
2033 Summer	-1.16	-124.64	-26.99	-1.26	-76.93	-21.72	-4.76				
2033 Winter	-1.16	-130.44	-26.98	-1.26	-76.93	-21.72	-4.76				
2033 Daily Max	**-1.16**	**-124.64**	**-26.98**	**-1.26**	**-76.93**	**-21.72**	**-4.76**				
2048 Summer	-1.16	-122.01	-16.33	-1.29	-108.45	-29.77	-3.18				
2048 Winter	-1.16	-127.90	-16.33	-1.29	-108.45	-29.77	-3.18				
2048 Daily Max	**-1.16**	**-122.01**	**-16.33**	**-1.29**	**-108.45**	**-29.77**	**-3.18**				

2028 Mobile Source Emissions - Truck Miles Traveled Reduction (MDAQMD Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:			-40,328	-14,719,796

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-0.20	-21.84	-5.21	-0.21	-2.29	-1.00	-0.95				
MT/Year								-0.66	-3.33	-20,961.96	-21,971.03

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-1.10	-119.64	-28.54	-1.16	-12.54	-5.50	-5.20

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-1.10	-125.16	-28.53	-1.16	-12.54	-5.50	-5.20

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2028
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV cal

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0046365	0.0028977	0.0179349	0.1201026	0.02249685	0	0	0.45308532	0
A	CH4_RUNEX	0.001699	0.0061841	0.0024614	0.003184	0.0018122	0.0006256	0.0074282	0.0447117	0.0401739	2.52598147	0.16014455	1.11188439	0.005739
A	CH4_STREX	0.050577	0.0884468	0.0622177	0.0732603	0.0179853	0.0106191	0.0092005	4.582E-08	0.02248567	0.0123938	0.15468651	0.00696017	0.024163
A	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.6311473	5.538307	0.62337374	0	0	2.85882984	0
A	CO_RUNEX	0.583421	1.3784533	0.7364651	0.8423107	0.4888163	0.1995033	0.1898517	0.3208814	0.66464292	33.1607044	11.7197899	4.26903453	0.56256
A	CO_STREX	2.228535	4.3058976	2.7169066	2.9051033	2.0177449	1.1350935	0.9822112	0.001742	2.4159062	1.14170799	7.3942871	0.86632868	1.992861
A	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	137.63701	813.94491	88.5334058	0	0	253.608165	0
A	CO2_NBIO_	237.8998	314.63923	312.54404	380.92771	330.43747	206.85307	1109.9966	1424.066	1388.45312	2023.32197	191.044648	1156.32034	1523.862
A	CO2_NBIO_	58.91092	79.607921	76.468809	92.793212	16.162957	9.3461927	9.5381357	0.0189088	20.2093246	11.1387809	43.4754522	5.48495694	20.75334
A	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6257541	4.0124067	0.31614313	0	0	1.03917543	0
A	NOX_RUNEX	0.027295	0.116372	0.049137	0.0703287	0.0597648	0.030869	0.5340786	1.4257402	0.9568571	0.36465681	0.51866154	1.88138291	1.203629
A	NOX_STREX	0.19056	0.3344146	0.2510976	0.305118	0.3452954	0.2131868	1.2518168	2.5768812	0.71791278	0.09640777	0.10976773	0.2574289	0.301005
A	PM10_IDLEX	0	0	0	0	0.0007269	0.0013138	0.0007074	0.0019356	0.00037712	0	0	0.00127373	0
A	PM10_PMBW	0.007543	0.0097124	0.0092737	0.0093454	0.0471174	0.0307896	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0050308	0.0028948	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
A	PM10_RUNE	0.001096	0.001835	0.0012122	0.0012513	0.0006656	0.0003192	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
A	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
A	PM25_IDLEX	0	0	0	0	0.0006954	0.001257	0.0006762	0.001848	0.00036024	0	0	0.0012039	0
A	PM25_PMBW	0.00264	0.0033993	0.0032458	0.0032709	0.0164911	0.0107764	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0012577	0.0007237	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
A	PM25_RUNE	0.001008	0.0016876	0.0011151	0.001153	0.000612	0.0002935	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
A	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
A	ROG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	ROG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0231067	0.3566242	0.0515165	0	0	0.27496857	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.006071	0.0269787	0.0092167	0.0127848	0.0087198	0.0027284	0.0136812	0.0123662	0.04219457	0.039106	1.011744	0.07015645	0.038068
A	ROG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576
A	ROG_STREX	0.219664	0.4435414	0.2735144	0.3440902	0.0857517	0.0503525	0.0475914	2.362E-07	0.11985375	0.05037558	1.12578632	0.03984838	0.092652
A	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012629	0.0073156	0.0008037	0	0	0.00134227	0
A	SO2_RUNEX	0.002352	0.0031105	0.0030894	0.0037639	0.0032667	0.002045	0.0105429	0.0130847	0.01292251	0.00186078	0.00188867	0.00713225	0.014933
A	SO2_STREX	0.000582	0.000787	0.000756	0.0009174	0.0001598	9.24E-05	9.429E-05	1.869E-07	0.00019979	0.00011012	0.0004298	5.4224E-05	0.000205
A	TOG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	TOG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0443691	0.5100506	0.08146112	0	0	0.79158923	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.008848	0.0393621	0.013432	0.0186064	0.012724	0.0039813	0.0231627	0.0584678	0.08902592	2.5812992	1.2353619	1.19798365	0.04934
A	TOG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576

A	TOG_STREX	0.240505	0.485622	0.2994638	0.3767355	0.0938873	0.0551296	0.0521065	2.586E-07	0.13122477	0.05515492	1.22449347	0.04362897	0.101443
A	N2O_IDLEX	0	0	0	0	0.0006482	0.001567	0.0210606	0.1301543	0.01236512	0	0	0.03716019	0
A	N2O_RUNE	0.003565	0.0087721	0.0050008	0.0067135	0.0035117	0.0020593	0.132444	0.2262887	0.12493604	0.37891439	0.03735335	0.14994277	0.063086
A	N2O_STREX	0.026879	0.0354256	0.0318752	0.0339207	0.0298388	0.0175245	0.0068223	3.25E-06	0.01929632	0.01021868	0.00671455	0.0066509	0.034033
S	CH4_IDLEX	0	0	0	0	0.0046521	0.0029071	0.0177963	0.1210723	0.02258659	0	0	0.45316243	0
S	CH4_RUNEX	0.001776	0.0064426	0.0025671	0.0033265	0.0012875	0.0021791	0.0074555	0.0447121	0.04025147	2.52599211	0.16100447	1.11198691	0.00585
S	CH4_STREX	0.045297	0.0787888	0.0557592	0.0654852	0.0173575	0.0102542	0.0088753	4.386E-08	0.02158846	0.01144528	0.1391153	0.006076	0.023027
S	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.5781089	5.4679591	0.61641513	0	0	2.84967757	0
S	CO_RUNEX	0.718208	1.6932961	0.9030761	1.0400228	0.0738496	0.113189	0.1925074	0.3210081	0.67326684	33.1619596	11.7788472	4.27954236	0.575059
S	CO_STREX	1.9106	3.6677137	2.3279607	2.4875592	1.9268007	1.0845151	0.9325503	0.0016548	2.27392935	0.9994205	6.64171558	0.67859067	1.867776
S	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	136.45234	804.44776	87.707516	0	0	255.786723	0
S	CO2_NBIO_	251.7437	330.81834	326.87831	396.07159	178.99335	362.72201	1110.0013	1424.0662	1388.46831	2023.32409	191.137905	1156.33919	1523.884
S	CO2_NBIO_	58.32168	78.418534	75.746889	91.996095	16.007637	9.2595423	9.453024	0.0187705	19.9669009	10.8993096	41.8745836	5.16999809	20.54085
S	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6026001	3.8250331	0.30284334	0	0	1.05910714	0
S	NOX_RUNE	0.023408	0.0998473	0.0421596	0.0603998	0.3215351	0.4767017	0.5012477	1.3457068	0.8945088	0.36242849	0.45312352	1.76052611	1.124384
S	NOX_STREX	0.177795	0.3122317	0.2343875	0.2850804	0.3308432	0.2043243	1.248341	2.5768771	0.70661379	0.09191942	0.10359484	0.25324332	0.287504
S	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0006059	0.0017163	0.00032569	0	0	0.00113779	0
S	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
S	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
S	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
S	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.000579	0.0016382	0.00031103	0	0	0.00107385	0
S	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
S	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
S	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
S	ROG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	ROG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0229842	0.3775018	0.05300481	0	0	0.27495373	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNE	0.006272	0.0278949	0.0095167	0.0132224	0.0277186	0.0469137	0.0137927	0.0123685	0.04254282	0.03913446	1.00980729	0.0706606	0.038581
S	ROG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	ROG_STREX	0.194428	0.3909159	0.2423226	0.3040224	0.0824708	0.0484475	0.0457111	2.267E-07	0.11474744	0.0462947	1.00333275	0.03476341	0.088479
S	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012518	0.0072256	0.00079588	0	0	0.0013629	0
S	SO2_RUNEX	0.002489	0.0032705	0.0032311	0.0039136	0.0016961	0.003437	0.010543	0.0130847	0.01292266	0.0018608	0.00188959	0.00713244	0.014933
S	SO2_STREX	0.000577	0.0007752	0.0007488	0.0009095	0.0001583	9.154E-05	9.345E-05	1.856E-07	0.00019739	0.00010775	0.00041397	5.1111E-05	0.000203
S	TOG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	TOG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0440153	0.5338181	0.08315544	0	0	0.79157235	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNE	0.009142	0.0406991	0.0138697	0.0192449	0.0315558	0.0534081	0.0233255	0.0584712	0.08953409	2.58134073	1.23529217	1.1987193	0.050089
S	TOG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	TOG_STREX	0.212874	0.4280037	0.2653128	0.3328663	0.0902952	0.053044	0.0500479	2.482E-07	0.125634	0.05068687	1.09138536	0.03806156	0.096873
S	N2O_IDLEX	0	0	0	0	0.0006503	0.0015682	0.0208408	0.1286581	0.01223886	0	0	0.03756424	0
S	N2O_RUNE	0.003169	0.0078236	0.0044644	0.0060575	0.0282005	0.057147	0.1321978	0.2262861	0.12424622	0.37875997	0.03397235	0.14889525	0.061963
S	N2O_STREX	0.02594	0.0342689	0.0307885	0.0328036	0.0290903	0.0171044	0.0066953	3.157E-06	0.01889593	0.01008953	0.0066013	0.00647271	0.033809
W	CH4_IDLEX	0	0	0	0	0.0046338	0.0028959	0.0181383	0.1187635	0.02239686	0	0	0.45306699	0
W	CH4_RUNEX	0.00168	0.0061139	0.0024336	0.003147	0.0012875	0.0021791	0.0074191	0.0447116	0.04015741	2.52597974	0.15979394	1.11186622	0.005714
W	CH4_STREX	0.051677	0.0905298	0.0636276	0.0749217	0.0180961	0.0106906	0.009256	4.623E-08	0.02268468	0.01254483	0.15726553	0.00716831	0.024384
W	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.7052178	5.635454	0.63298324	0	0	2.87146869	0
W	CO_RUNEX	0.540568	1.2746516	0.6817818	0.7783454	0.0738496	0.113189	0.1890562	0.3208393	0.66283321	33.1604748	11.670238	4.26707813	0.559726
W	CO_STREX	2.296387	4.4459336	2.8038419	2.9966432	2.0316029	1.1435025	0.9918149	0.0017597	2.44379739	1.163767	7.50827117	0.90383822	2.01366
W	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	139.26836	827.06001	89.6739203	0	0	250.599681	0
W	CO2_NBIO_	233.3393	309.13657	307.68354	375.83412	178.99335	362.72201	1109.9952	1424.0659	1388.44993	2023.32159	190.960868	1156.31686	1523.857
W	CO2_NBIO_	59.03655	79.868197	76.629797	92.967413	16.186868	9.3607877	9.5547915	0.0189369	20.2573814	11.1759499	43.7223036	5.54845739	20.78901
W	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6577281	4.2711608	0.3345095	0	0	1.01165069	0
W	NOX_RUNE	0.026761	0.1142876	0.0482402	0.0689981	0.3350347	0.4963825	0.5254085	1.4076911	0.94054855	0.36421597	0.50761537	1.85368095	1.183982
W	NOX_STREX	0.193066	0.3389256	0.2545273	0.3090664	0.347653	0.2148236	1.2525903	2.5768818	0.72011983	0.09706892	0.11089278	0.25857875	0.30306
W	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0008476	0.0022383	0.00044814	0	0	0.00146145	0
W	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
W	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
W	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
W	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.0008103	0.0021376	0.00042818	0	0	0.00138351	0
W	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
W	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
W	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
W	ROG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	ROG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0232886	0.3277933	0.04946122	0	0	0.27498905	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNE	0.006015	0.0267097	0.0091303	0.0126601	0.0277186	0.0469137	0.013648	0.0123655	0.04212168	0.03910132	1.01062655	0.07006968	0.037951
W	ROG_RUNL	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	ROG_STREX	0.225013	0.4548776	0.2803756	0.3527092	0.0863241	0.0507254	0.0480134	2.381E-07	0.12098573	0.05102119	1.14564156	0.04103475	0.093448

W	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012782	0.0074397	0.0008145	0	0	0.00131378	0
W	SO2_RUNEX	0.002307	0.0030561	0.0030413	0.0037135	0.0016961	0.003437	0.0105429	0.0130847	0.01292248	0.00186078	0.00188784	0.00713221	0.014933
W	SO2_STREX	0.000584	0.0007896	0.0007576	0.0009191	0.00016	9.254E-05	9.446E-05	1.872E-07	0.00020026	0.00011049	0.00043224	5.4852E-05	0.000206
W	TOG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	TOG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0448761	0.4772288	0.07912133	0	0	0.79161255	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.008767	0.0389697	0.0133059	0.0184244	0.0315558	0.0534081	0.0231143	0.0584668	0.08891955	2.58129238	1.23361459	1.19785704	0.049169
W	TOG_RUNLS	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	TOG_STREX	0.246361	0.4980337	0.306976	0.3861722	0.094514	0.0555379	0.0525686	2.607E-07	0.13246415	0.05586178	1.24608416	0.04492789	0.102314
W	N2O_IDLEX	0	0	0	0	0.0006481	0.0015669	0.0213672	0.1322206	0.01254498	0	0	0.03669138	0
W	N2O_RUNEX	0.003501	0.0086363	0.004919	0.006613	0.0282005	0.057147	0.1324024	0.2262885	0.12480486	0.37888375	0.03677335	0.14976849	0.062903
W	N2O_STREX	0.027256	0.0359635	0.032344	0.0344069	0.0300276	0.0176497	0.0068963	3.268E-06	0.01948566	0.01034286	0.00681729	0.00677143	0.03447

2033 Mobile Source Emissions - Truck Miles Traveled Reduction (MDAQMD Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:			-49,500	-18,067,338

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-0.21	-22.75	-4.92	-0.23	-2.78	-1.20	-0.87				
MT/Year								-0.57	-3.60	-22,648.39	-23,735.12

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-1.16	-124.64	-26.99	-1.26	-15.21	-6.57	-4.76

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-1.16	-130.44	-26.98	-1.26	-15.21	-6.57	-4.76

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2033
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV ca

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0037418	0.002208	0.016911	0.1061898	0.02296538	0	0	0.47210313	0
A	CH4_RUNEX	0.001264	0.003544	0.0019072	0.00224	0.0005947	0.0002509	0.0065302	0.0317808	0.04242465	0.00059684	0.15038771	1.05844964	0.003558
A	CH4_STREX	0.039445	0.0625675	0.0503533	0.0555514	0.0132448	0.0073768	0.0067874	2.273E-08	0.01874646	0.02082457	0.1410673	0.00661646	0.022035
A	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5578784	5.3176742	0.64495392	0	0	2.90152556	0
A	CO_RUNEX	0.493114	0.9189904	0.6419649	0.6903879	0.2874315	0.1404144	0.0995155	0.2472676	0.46652296	0.10986288	10.8770458	3.72843825	0.238362
A	CO_STREX	1.791266	2.9209532	2.2823173	2.3684618	1.7621085	0.9616135	0.6739165	0.0008858	2.03459728	1.84108981	7.3029789	0.76249546	1.706677
A	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	119.52469	725.46905	90.2707911	0	0	242.042321	0
A	CO2_NBIO_	215.8338	287.81827	287.18514	346.52209	263.04202	157.72382	902.39828	1253.5542	1228.39174	266.183503	189.972906	1046.48924	1506.204
A	CO2_NBIO_	52.98002	71.184508	69.601437	83.669016	13.803091	7.5609764	7.0817684	0.0099924	17.1747283	17.428765	40.0393778	5.15558136	19.32601
A	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4716468	3.6223932	0.29079758	0	0	0.69154138	0
A	NOX_RUNEX	0.021102	0.0605859	0.0351744	0.0445836	0.0259082	0.0146718	0.312622	1.2103195	0.81114011	0.03172648	0.48935515	0.98218987	1.039552
A	NOX_STREX	0.163261	0.2490001	0.2160447	0.2406855	0.2627184	0.1529875	1.0106764	2.3540576	0.64361989	0.15859679	0.08992566	0.26756108	0.301261
A	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003098	0.0016756	0.00031934	0	0	0.00084279	0
A	PM10_PMBW	0.007428	0.0095858	0.009248	0.0092949	0.0451479	0.0308339	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0053275	0.0033711	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
A	PM10_RUNE	0.000781	0.0011897	0.0008927	0.0009157	0.000541	0.0002599	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
A	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
A	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0002957	0.001599	0.00030482	0	0	0.00078975	0
A	PM25_PMBW	0.0026	0.003355	0.0032368	0.0032532	0.0158018	0.0107919	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0013319	0.0008428	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
A	PM25_RUNE	0.000718	0.0010939	0.0008214	0.0008432	0.0004974	0.000239	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
A	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
A	ROG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	ROG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187664	0.3412702	0.05074188	0	0	0.26776331	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.004197	0.0145604	0.0066974	0.0083694	0.0023827	0.0009622	0.0071894	0.0106427	0.03053744	0.00206882	0.92434298	0.04284928	0.026384
A	ROG_RUNLS	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053
A	ROG_STREX	0.164864	0.2933961	0.2125834	0.2464351	0.0603471	0.0339233	0.0342096	1.166E-07	0.10060666	0.08409658	1.00900796	0.03721438	0.080414
A	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010897	0.0065037	0.00081457	0	0	0.00114625	0
A	SO2_RUNEX	0.002134	0.0028454	0.0028387	0.003424	0.0026004	0.0015593	0.0085476	0.0115226	0.01131448	0.00263008	0.00187808	0.00617863	0.014748
A	SO2_STREX	0.000524	0.0007037	0.0006881	0.0008272	0.0001365	7.475E-05	7.001E-05	9.879E-08	0.00016979	0.0001723	0.00039583	5.0968E-05	0.000191
A	TOG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	TOG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0383619	0.4793025	0.08084464	0	0	0.80165908	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.006121	0.0212465	0.009756	0.0121819	0.0034768	0.001404	0.0146985	0.0435744	0.07732696	0.00294572	1.14189255	1.11231976	0.032802
A	TOG_RUNLS	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053

A	TOG_STREX	0.180505	0.3212318	0.232752	0.2698154	0.0660725	0.0371418	0.0374552	1.276E-07	0.11015163	0.09207517	1.09800958	0.04074506	0.088043
A	N2O_IDLEX	0	0	0	0	0.0005845	0.0014444	0.0184133	0.1160881	0.01291361	0	0	0.03601507	0
A	N2O_RUNEX	0.003079	0.0057199	0.0041986	0.0051642	0.0017567	0.0011039	0.1115938	0.1991757	0.12367161	0.0034144	0.03614484	0.13262017	0.063906
A	N2O_STREX	0.024184	0.0308148	0.0298077	0.0306405	0.0239705	0.0131699	0.0049505	8.62E-07	0.01532229	0.01672297	0.00567793	0.00698526	0.034766
S	CH4_IDLEX	0	0	0	0	0.0037546	0.0022151	0.0168093	0.1071269	0.0230613	0	0	0.47219174	0
S	CH4_RUNEX	0.001321	0.0036938	0.00199	0.0023406	0.0009133	0.0016968	0.0065434	0.031781	0.0424697	0.00061218	0.15215846	1.05850268	0.003614
S	CH4_STREX	0.035346	0.0559181	0.0451543	0.0497239	0.0127897	0.0071259	0.0065514	2.176E-08	0.01800478	0.0192922	0.1277803	0.00577672	0.021017
S	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5172232	5.2515616	0.63790849	0	0	2.89595792	0
S	CO_RUNEX	0.608684	1.1280069	0.7881558	0.8519518	0.0472155	0.0844155	0.1005549	0.2473457	0.47107722	0.11209174	10.9973504	3.73332685	0.242129
S	CO_STREX	1.539839	2.4998939	1.9593026	2.0324776	1.6838601	0.9192778	0.6399119	0.0008416	1.91506796	1.61770396	6.51675699	0.59710223	1.602012
S	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	118.25831	716.76647	89.3734454	0	0	242.957765	0
S	CO2_NBIO_	228.5327	302.38337	300.36947	360.04725	158.80155	322.16779	902.40014	1253.5544	1228.39978	266.187213	190.191381	1046.49804	1506.211
S	CO2_NBIO_	52.51768	70.401849	69.007887	83.040392	13.671254	7.4895232	7.0232833	0.0099223	16.9706832	17.0522589	38.4523596	4.87719278	19.14798
S	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4513806	3.4491702	0.27840265	0	0	0.69838457	0
S	NOX_RUNEX	0.018094	0.0519862	0.0301832	0.038285	0.1760916	0.3073911	0.2938148	1.1421755	0.76126886	0.02804592	0.42820932	0.9177386	0.974513
S	NOX_STREX	0.152366	0.2324533	0.201707	0.2248926	0.2517532	0.1466336	1.0082363	2.3540566	0.63433915	0.15138053	0.08502118	0.26312979	0.287832
S	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0002704	0.0014957	0.00027807	0	0	0.00078244	0
S	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
S	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
S	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
S	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.000258	0.0014269	0.00026533	0	0	0.000732	0
S	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
S	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
S	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
S	ROG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	ROG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0188089	0.3614453	0.05240465	0	0	0.26785218	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.004338	0.0150502	0.006915	0.0086538	0.0196628	0.0365311	0.007237	0.0106436	0.03072694	0.00210912	0.93068842	0.0430923	0.026581
S	ROG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	ROG_STREX	0.14599	0.2592915	0.1884634	0.2180006	0.0580599	0.032649	0.0328608	1.119E-07	0.09632248	0.0775274	0.90687186	0.03246185	0.076853
S	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010778	0.0064213	0.00080607	0	0	0.00115491	0
S	SO2_RUNEX	0.002259	0.0029894	0.0029691	0.0035578	0.0015047	0.0030527	0.0085476	0.0115227	0.01131456	0.00263011	0.00188024	0.00617871	0.014748
S	SO2_STREX	0.000519	0.000696	0.0006822	0.0008209	0.0001352	7.404E-05	6.943E-05	9.809E-08	0.00016777	0.00016858	0.00038014	4.8216E-05	0.000189
S	TOG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	TOG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0382421	0.5022704	0.08273758	0	0	0.80176025	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.006327	0.0219611	0.0100735	0.012597	0.0223848	0.0415882	0.0147679	0.0435759	0.07760348	0.00300453	1.15122262	1.11267438	0.033089
S	TOG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	TOG_STREX	0.159841	0.2838915	0.2063437	0.2386832	0.0635683	0.0357466	0.0359784	1.225E-07	0.105461	0.08488275	0.98693366	0.03554164	0.084145
S	N2O_IDLEX	0	0	0	0	0.0005862	0.0014453	0.018189	0.114717	0.01277513	0	0	0.03621619	0
S	N2O_RUNEX	0.002735	0.0050923	0.0037467	0.0046613	0.0250192	0.0507577	0.1114602	0.1991743	0.12326252	0.00315348	0.03290722	0.13182366	0.063062
S	N2O_STREX	0.023339	0.0297738	0.0287802	0.0296038	0.0233488	0.0128421	0.0048506	8.362E-07	0.01498657	0.01651859	0.00558986	0.00679841	0.034535
W	CH4_IDLEX	0	0	0	0	0.0037395	0.0022066	0.0170612	0.1048958	0.02285461	0	0	0.47207661	0
W	CH4_RUNEX	0.001249	0.003504	0.0018857	0.0022142	0.0009133	0.0016968	0.0065256	0.0317808	0.04241494	0.00059355	0.14989315	1.05843982	0.003545
W	CH4_STREX	0.040296	0.0640079	0.0514849	0.0567994	0.0133271	0.0074261	0.0068276	2.294E-08	0.01891165	0.02114958	0.14342093	0.00681827	0.022241
W	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.6146697	5.4089726	0.65468332	0	0	2.9092142	0
W	CO_RUNEX	0.45654	0.8501888	0.5941618	0.638079	0.0472155	0.0844155	0.0992023	0.2472407	0.46553668	0.109402	10.8286973	3.72749234	0.23748
W	CO_STREX	1.844297	3.0134483	2.3539622	2.4419405	1.7743477	0.9686818	0.6806595	0.0008961	2.05817834	1.88297897	7.43254656	0.79639625	1.725038
W	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	121.27006	737.48691	91.5099829	0	0	240.778137	0
W	CO2_NBIO_	211.6622	282.86919	282.72289	341.96636	158.80155	322.16779	902.39772	1253.5542	1228.39	266.182733	189.886754	1046.48755	1506.203
W	CO2_NBIO_	53.07757	71.356127	69.732899	83.806206	13.82389	7.5730345	7.0935096	0.0100089	17.2153539	17.4999455	40.3036755	5.21318087	19.35752
W	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4996329	3.8616059	0.30791437	0	0	0.68209126	0
W	NOX_RUNEX	0.020688	0.0594952	0.0345248	0.0437325	0.1834248	0.3200164	0.3075642	1.1953365	0.79762734	0.0310619	0.47878684	0.96792374	1.022549
W	NOX_STREX	0.165391	0.2523816	0.2189741	0.2438142	0.264539	0.154157	1.0112385	2.3540577	0.64543441	0.16002593	0.09084561	0.26879325	0.303414
W	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003643	0.001924	0.00037634	0	0	0.00092614	0
W	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
W	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
W	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
W	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0003479	0.0018367	0.00035936	0	0	0.00086949	0
W	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
W	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
W	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
W	ROG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	ROG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187177	0.3134092	0.04844567	0	0	0.26764059	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNEX	0.004158	0.0144187	0.0066354	0.0082897	0.0196628	0.0365311	0.0071752	0.0106423	0.03049674	0.00205994	0.92196934	0.04280573	0.026338
W	ROG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	ROG_STREX	0.168854	0.3007958	0.2178775	0.252568	0.0607578	0.0341743	0.0345198	1.175E-07	0.10156228	0.08550056	1.02665939	0.03834862	0.081123

W	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0011062	0.0066175	0.0008263	0	0	0.00113427	0
W	SO2_RUNEX	0.002092	0.0027964	0.0027946	0.003379	0.0015047	0.0030527	0.0085476	0.0115226	0.01131446	0.00263007	0.00187722	0.00617861	0.014748
W	SO2_STREX	0.000525	0.0007054	0.0006894	0.0008285	0.0001367	7.487E-05	7.013E-05	9.895E-08	0.00017019	0.000173	0.00039844	5.1538E-05	0.000191
W	TOG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	TOG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0385418	0.4475849	0.07823058	0	0	0.80151936	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.006065	0.0210396	0.0096655	0.0120657	0.0223848	0.0415882	0.0146778	0.0435739	0.07726758	0.00293276	1.1387096	1.11225621	0.032736
W	TOG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	TOG_STREX	0.184874	0.3293335	0.2385484	0.2765301	0.0665221	0.0374165	0.0377949	1.286E-07	0.11119791	0.09361236	1.11721345	0.04198692	0.088819
W	N2O_IDLEX	0	0	0	0	0.0005844	0.0014444	0.0187253	0.1179815	0.01310893	0	0	0.0358206	0
W	N2O_RUNEX	0.003023	0.0056267	0.0041282	0.0050854	0.0250192	0.0507577	0.1115715	0.1991756	0.12359308	0.00336586	0.03557934	0.13249055	0.063766
W	N2O_STREX	0.02452	0.0312715	0.0302371	0.0310715	0.0241158	0.0132596	0.005002	8.668E-07	0.01546582	0.01694626	0.00576523	0.00711186	0.035221

2048 Mobile Source Emissions - Truck Miles Traveled Reduction (MDAQMD Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:			-59,305	-21,646,477

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-0.21	-22.27	-2.98	-0.24	-3.23	-1.37	-0.58				
MT/Year								-0.31	-3.65	-23,060.74	-24,157.40

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-1.16	-122.01	-16.33	-1.29	-17.69	-7.49	-3.18

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-1.16	-127.90	-16.33	-1.29	-17.69	-7.49	-3.18

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2048
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0019873	0.0010262	0.0097357	0.0706447	0.02364998	0	0	0.2684817	0
A	CH4_RUNEX	0.0009	0.0011035	0.0013503	0.0013653	0.000141	6.364E-05	0.004079	0.014525	0.0452154	6.7515E-05	0.1403424	0.5555245	0.002375
A	CH4_STREX	0.026822	0.0313992	0.03715	0.0368657	0.006345	0.0029123	0.0027351	3.515E-10	0.01017549	0.00240648	0.1199415	0.003515	0.020809
A	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3305343	5.0618632	0.64197356	0	0	1.9171505	0
A	CO_RUNEX	0.424451	0.5139449	0.5596761	0.568615	0.1632086	0.0817108	0.0368767	0.1248818	0.23940162	0.04152292	10.001238	1.6209778	0.132556
A	CO_STREX	1.325305	1.5421931	1.849198	1.8295686	1.11089	0.5819278	0.2398708	0.000379	0.86432696	0.46224847	7.1781794	0.3960736	1.43656
A	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	67.454098	644.00022	85.3439537	0	0	143.50791	0
A	CO2_NBIO_	197.9221	254.32138	263.62476	313.26517	148.33855	82.852448	495.70442	1065.3347	976.808189	50.5478821	188.98017	584.97178	1495.109
A	CO2_NBIO_	46.99377	60.228738	62.4617	73.957111	8.0058798	4.1093515	2.721739	0.003412	9.56692808	2.78632352	34.704901	2.615754	18.12672
A	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2199642	3.3197309	0.18082849	0	0	0.1942225	0
A	NOX_RUNEX	0.016075	0.0196333	0.0205019	0.021022	0.0048519	0.0031825	0.1015488	0.9894575	0.47776538	0.0031522	0.4588034	0.1217048	0.794263
A	NOX_STREX	0.132911	0.1625428	0.1821653	0.1859778	0.1306962	0.0579797	0.5076396	1.9728258	0.45036194	0.02303497	0.0589122	0.1555207	0.217933
A	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.000101	0.0014933	0.00018062	0	0	0.0004263	0
A	PM10_PMBW	0.007351	0.0093982	0.0092263	0.0092721	0.0420858	0.0346159	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.042903
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0062352	0.0048987	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
A	PM10_RUNE	0.000451	0.000552	0.0005332	0.0005208	0.0003246	0.0001606	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.008052
A	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.000228
A	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	9.609E-05	0.0014253	0.00017181	0	0	0.0003933	0
A	PM25_PMBW	0.002573	0.0032894	0.0032292	0.0032452	0.01473	0.0121156	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.015016
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0015588	0.0012247	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.003361
A	PM25_RUNE	0.000415	0.0005076	0.0004909	0.0004793	0.0002985	0.0001476	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.007677
A	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.00021
A	ROG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.9177
A	ROG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.713547
A	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0098131	0.3294671	0.04529906	0	0	0.1481811	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.002596	0.0032385	0.0041061	0.0041899	0.0004581	0.0002037	0.0026534	0.0089024	0.00817585	0.00068057	0.8338801	0.0119226	0.017209
A	ROG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.000665
A	ROG_STREX	0.100766	0.1194998	0.1443756	0.1445319	0.0271807	0.012367	0.0133843	1.849E-09	0.05250109	0.0075255	0.8287868	0.0195671	0.071221
A	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006105	0.0058701	0.00075599	0	0	0.0005598	0
A	SO2_RUNEX	0.001957	0.0025142	0.0026058	0.0030956	0.0014665	0.0008191	0.004673	0.009893	0.00879849	0.00043165	0.0018683	0.0032734	0.014631
A	SO2_STREX	0.000465	0.0005954	0.0006175	0.0007311	7.915E-05	4.063E-05	2.691E-05	3.373E-08	9.4579E-05	2.7546E-05	0.0003431	2.586E-05	0.000179
A	TOG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.9177
A	TOG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.713547
A	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0208798	0.4306907	0.07473656	0	0	0.4508668	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.003787	0.0047256	0.0059744	0.0060968	0.0006685	0.0002973	0.0070356	0.0243195	0.05447142	0.00080586	1.0445644	0.5716777	0.021175
A	TOG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.000665

A	TOG_STREX	0.110326	0.1308372	0.1580731	0.1582442	0.0297595	0.0135403	0.0146541	2.024E-09	0.05748209	0.00823947	0.9027332	0.0214235	0.077978
A	N2O_IDLEX	0	0	0	0	0.000373	0.0009765	0.0105187	0.1025785	0.01280725	0	0	0.0225602	0
A	N2O_RUNE1	0.002683	0.0031412	0.0033373	0.0037209	0.0004806	0.000336	0.0670232	0.1687894	0.12219135	0.00167792	0.0349394	0.0751476	0.068994
A	N2O_STREX	0.021385	0.0253868	0.0279952	0.0279914	0.0129719	0.0058643	0.0024636	5.311E-06	0.00876862	0.00407059	0.0040474	0.0030756	0.025456
S	CH4_IDLEX	0	0	0	0	0.0019942	0.0010294	0.009699	0.0715568	0.02374987	0	0	0.2685372	0
S	CH4_RUNEX	0.000941	0.0011525	0.0014109	0.0014273	0.0004298	0.0009516	0.0040822	0.0145251	0.04522315	6.857E-05	0.1431366	0.5555391	0.002411
S	CH4_STREX	0.024049	0.02822	0.0333348	0.0330704	0.0061312	0.0028146	0.0026416	3.364E-10	0.00978202	0.00224655	0.1103221	0.0030772	0.019896
S	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3124953	4.9989777	0.63549633	0	0	1.9157601	0
S	CO_RUNEX	0.526203	0.6313024	0.6898292	0.7020131	0.0176112	0.0395445	0.0370639	0.1249126	0.23996969	0.04233245	10.195289	1.622076	0.134621
S	CO_STREX	1.144845	1.3328818	1.5924287	1.575563	1.0623325	0.5566078	0.2278083	0.0003598	0.81387417	0.41114757	6.3447885	0.3113428	1.352325
S	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	66.594006	635.88628	84.3844672	0	0	143.1102	0
S	CO2_NBIO_	209.7726	267.06358	275.85122	325.36809	102.01103	209.13287	495.70475	1065.3347	976.809195	50.5491751	189.34778	584.97378	1495.113
S	CO2_NBIO_	46.66898	59.851939	61.99964	73.499208	7.9254388	4.0676388	2.7008324	0.0033816	9.47940362	2.70341972	33.151628	2.473074	17.98289
S	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2090109	3.1560605	0.17251087	0	0	0.1897906	0
S	NOX_RUNE1	0.013788	0.0168455	0.0176041	0.0180582	0.033789	0.0869449	0.095606	0.9331528	0.44914693	0.0028794	0.4022855	0.1126812	0.740649
S	NOX_STREX	0.124124	0.1517536	0.1701957	0.1737892	0.1252783	0.0555748	0.5063614	1.9728211	0.44487684	0.02201064	0.0559803	0.1537183	0.208397
S	PM10_IDLE1	0	0	0	0	0.0004854	0.0008885	9.125E-05	0.0013367	0.00016295	0	0	0.0004224	0
S	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.042903
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
S	PM10_RUN	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.008052
S	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.000228
S	PM25_IDLE1	0	0	0	0	0.0004644	0.0008501	8.678E-05	0.0012755	0.00015491	0	0	0.0003896	0
S	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.015016
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.003361
S	PM25_RUN	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.007677
S	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.00021
S	ROG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.51652
S	ROG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.779948
S	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0099685	0.3491043	0.04717647	0	0	0.1483356	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNE1	0.002685	0.0033447	0.0042411	0.0043297	0.0092534	0.0204877	0.0026629	0.0089027	0.00820006	0.00068257	0.8497022	0.0119809	0.017319
S	ROG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.000667
S	ROG_STREX	0.089318	0.1061971	0.1281079	0.128196	0.0261695	0.0119089	0.0128581	1.775E-09	0.05027669	0.00698241	0.7594405	0.017114	0.068192
S	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006024	0.0057932	0.00074691	0	0	0.000556	0
S	SO2_RUNEX	0.002074	0.0026402	0.0027267	0.0032152	0.0009666	0.0019816	0.004673	0.009893	0.0087985	0.00043167	0.0018719	0.0032734	0.014631
S	SO2_STREX	0.000461	0.0005917	0.0006129	0.0007266	7.835E-05	4.021E-05	2.67E-05	3.343E-08	9.3714E-05	2.6726E-05	0.0003277	2.445E-05	0.000178
S	TOG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.51652
S	TOG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.779948
S	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0209846	0.4530461	0.07687384	0	0	0.4510427	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNE1	0.003917	0.0048806	0.0061715	0.0063007	0.0105344	0.0233239	0.0070494	0.02432	0.05450676	0.00080877	1.0646669	0.5717628	0.021335
S	TOG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.000667
S	TOG_STREX	0.097792	0.1162724	0.140262	0.1403585	0.0286524	0.0130388	0.014078	1.943E-09	0.05504665	0.00764486	0.827228	0.0187377	0.074662
S	N2O_IDLEX	0	0	0	0	0.0003738	0.0009769	0.0103737	0.1013002	0.01265757	0	0	0.0225224	0
S	N2O_RUNE1	0.002383	0.0027871	0.0029765	0.0033597	0.0160719	0.032949	0.066988	0.1687889	0.12196613	0.00165247	0.0318497	0.0748783	0.067943
S	N2O_STREX	0.020643	0.0244967	0.0270167	0.0270111	0.0126226	0.0057121	0.0024046	5.232E-06	0.00855446	0.00400686	0.0039998	0.0029875	0.025313
W	CH4_IDLEX	0	0	0	0	0.001986	0.0010257	0.0097906	0.0693852	0.02352679	0	0	0.26846	0
W	CH4_RUNEX	0.00089	0.0010909	0.0013348	0.0013494	0.0004298	0.0009516	0.0040779	0.014525	0.04521371	6.7305E-05	0.1396785	0.5555216	0.002366
W	CH4_STREX	0.027394	0.0320882	0.0379751	0.0376844	0.0063855	0.0029314	0.0027522	3.545E-10	0.01026277	0.00244082	0.1219103	0.0036216	0.021012
W	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3557232	5.1487051	0.65091831	0	0	1.9190706	0
W	CO_RUNEX	0.392459	0.4756083	0.5174105	0.5253745	0.0176112	0.0395445	0.0368209	0.1248725	0.23927512	0.0413592	9.9527928	1.6207436	0.132019
W	CO_STREX	1.362344	1.5873766	1.9053242	1.8849364	1.1187113	0.5861338	0.2424969	0.0003831	0.874239	0.47198909	7.3320793	0.4133825	1.452942
W	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	68.640547	655.20518	86.6689588	0	0	144.05713	0
W	CO2_NBIO_	194.042	250.00176	259.49869	309.18342	102.01103	209.13287	495.70432	1065.3347	976.807965	50.5476206	188.88878	584.97136	1495.109
W	CO2_NBIO_	47.06061	60.310211	62.562699	74.05693	8.0189346	4.1163281	2.7263483	0.0034185	9.58431806	2.80217603	34.995634	2.6452225	18.15495
W	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2350899	3.5457519	0.19231472	0	0	0.2003429	0
W	NOX_RUNE1	0.015758	0.0192632	0.0201131	0.0206227	0.0351249	0.0904172	0.0999428	0.9782188	0.46987215	0.00309574	0.4487416	0.1198985	0.780435
W	NOX_STREX	0.13461	0.1647592	0.1845777	0.1884217	0.1316158	0.0584178	0.5079507	1.9728268	0.45142741	0.02319678	0.0595034	0.1560155	0.219727
W	PM10_IDLE1	0	0	0	0	0.0004854	0.0008885	0.0001144	0.0017095	0.00020502	0	0	0.0004317	0
W	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.042903
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
W	PM10_RUN	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.008052
W	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.000228
W	PM25_IDLE1	0	0	0	0	0.0004644	0.0008501	0.000109	0.0016322	0.00019516	0	0	0.0003984	0
W	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.015016
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.003361
W	PM25_RUN	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.007677
W	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.00021
W	ROG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.87339
W	ROG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.705924
W	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0096028	0.302349	0.04270645	0	0	0.1479677	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNE1	0.002572	0.0032084	0.004068	0.0041505	0.0092534	0.0204877	0.0026506	0.0089022	0.00817051	0.00068017	0.8300197	0.0119109	0.017181
W	ROG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	ROG_STREX	0.103169	0.1224115	0.1479312	0.1480943	0.0273728	0.0124571	0.013516	1.864E-09	0.05299607	0.00764383	0.8427572	0.020164	0.071889

W	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006217	0.0059762	0.00076854	0	0	0.000565	0
W	SO2_RUNEX	0.001918	0.0024715	0.002565	0.0030552	0.0009666	0.0019816	0.004673	0.009893	0.00879849	0.00043165	0.0018674	0.0032734	0.014631
W	SO2_STREX	0.000465	0.0005962	0.0006185	0.0007321	7.928E-05	4.069E-05	2.695E-05	3.379E-08	9.4751E-05	2.7702E-05	0.000346	2.615E-05	0.000179
W	TOG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.87339
W	TOG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.705924
W	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0207413	0.3998188	0.07178507	0	0	0.4506238	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.003752	0.0046817	0.0059188	0.0060393	0.0105344	0.0233239	0.0070315	0.0243193	0.05446363	0.00080528	1.0396779	0.5716606	0.021134
W	TOG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	TOG_STREX	0.112957	0.1340251	0.161966	0.1621447	0.0299697	0.013639	0.0147983	2.041E-09	0.05802403	0.00836903	0.9179477	0.022077	0.07871
W	N2O_IDLEX	0	0	0	0	0.0003729	0.0009764	0.0107196	0.1043439	0.01301602	0	0	0.0226485	0
W	N2O_RUNEX	0.002634	0.0030846	0.003279	0.0036623	0.0160719	0.032949	0.0670177	0.1687893	0.12214964	0.00167261	0.0343897	0.0751039	0.068818
W	N2O_STREX	0.021676	0.0257483	0.0283804	0.0283709	0.0130457	0.0059018	0.0024861	5.373E-06	0.00884113	0.00411449	0.0041104	0.0031293	0.025821

Paved Road Dust Calculations (EPA AP-42 13.2.1, equation 2)
Truck Miles Traveled Reduction (MDAQMD Only)

E = (k*(sL)^0.91*(W)^1.02)*(1-P/4N)

	PM_{10}	$PM_{2.5}$	
E =			emission factor
k =	0.0022	0.00054	particle size multiplier (lb/vmt)
sL =	0.03	0.03	surface silt loading (CARB Miscellaneous Process Methodology 7.9, Entrained Road Travel, Paved Road Dust, November 2016)
W HHD =	16	16	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
W worker =	2.7	2.7	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
P =	0	0	Number of days per year with >0.01 inches of rain (Source: WRCC data for Barstow,https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabars+sca)
N =	365	365	Days per period

	lb/vmt		**g/vmt**	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	0.00153	0.00038	0.6941785	0.1703893
Vendor	0.00066	0.00016	0.2987231	0.0733229
Worker	0.00025	0.00006	0.1130472	0.027748

				2028				**2033**				**2048**			
	2028	**2033**	**2048**	**lbs/day**		**tons/year**		**lbs/day**		**tons/year**		**lbs/day**		**tons/year**	
	VMT/year	**VMT/year**	**VMT/year**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	-14,719,796	-18,067,338	-21,646,477	-61.718	-15.149	-11.264	-2.7647	-61.718	-15.149	-11.264	-2.7647	-90.761	-22.278	-16.564	-4.0657
Total	**-14,719,796**	**-18,067,338**	**-21,646,477**	**-61.718**	**-15.149**	**-11.264**	**-2.7647**	**-61.718**	**-15.149**	**-11.264**	**-2.7647**	**-90.761**	**-22.278**	**-16.564**	**-4.0657**

Mobile Source Emissions Summary - Truck Miles Traveled Reduction (SCAQMD Only)

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2028 Annual	Trucks	Exhaust & BW/TW	-0.87	-71.94	-19.92	-0.66	-7.08	-3.10	-3.29	-2.11	-10.38	-65,331.60	-68,478.17
(Tons/Year)		Dust					-34.83	-8.55					
(MT/yr for GHG)		**Annual Total**	**-0.87**	**-71.94**	**-19.92**	**-0.66**	**-41.91**	**-11.65**	-3.29	-2.11	-10.38	-65,331.60	**-68,478.17**
2028 Summer	Trucks	Exhaust & BW/TW	-4.84	-394.19	-108.94	-3.62	-38.77	-17.00	-18.10				
(Pounds/Day)		Dust					-190.86	-46.85					
		Summer Total	**-4.84**	**-394.19**	**-108.94**	**-3.62**	**-229.63**	**-63.85**	-18.10				
2028 Winter	Trucks	Exhaust & BW/TW	-4.65	-412.92	-109.52	-3.63	-38.77	-17.00	-17.89				
(Pounds/Day)		Dust					-190.86	-46.85					
		Winter Total	**-4.65**	**-412.92**	**-109.52**	**-3.63**	**-229.63**	**-63.85**	-17.89				

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2033 Annual	Trucks	Exhaust & BW/TW	-1.01	-80.49	-21.13	-0.76	-9.18	-3.97	-3.31	-1.99	-11.99	-75,458.85	-79,081.59
(Tons/Year)		Dust					-34.83	-8.55					
(MT/yr for GHG)		**Annual Total**	**-1.01**	**-80.49**	**-21.13**	**-0.76**	**-44.01**	**-12.52**	-3.31	-1.99	-11.99	-75,458.85	**-79,081.59**
2033 Summer	Trucks	Exhaust & BW/TW	-5.65	-441.01	-115.50	-4.19	-50.28	-21.74	-18.23				
(Pounds/Day)		Dust					-190.86	-46.85					
		Summer Total	**-5.65**	**-441.01**	**-115.50**	**-4.19**	**-241.14**	**-68.58**	-18.23				
2033 Winter	Trucks	Exhaust & BW/TW	-5.41	-462.25	-116.25	-4.19	-50.28	-21.74	-17.96				
(Pounds/Day)		Dust					-190.86	-46.85					
		Winter Total	**-5.41**	**-462.25**	**-116.25**	**-4.19**	**-241.14**	**-68.59**	-17.96				

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2048 Annual	Trucks	Exhaust & BW/TW	-1.04	-77.62	-15.03	-0.77	-10.47	-4.43	-2.34	-1.09	-11.94	-75,377.23	-78,963.46
(Tons/Year)		Dust					-53.70	-13.18					
(MT/yr for GHG)		**Annual Total**	**-1.04**	**-77.62**	**-15.03**	**-0.77**	**-64.17**	**-17.61**	**-2.34**	**-1.09**	**-11.94**	**-75,377.23**	**-78,963.46**
2048 Summer	Trucks	Exhaust & BW/TW	-5.80	-425.31	-81.99	-4.23	-57.36	-24.29	-12.94				
(Pounds/Day)		Dust					-294.23	-72.22					
		Summer Total	**-5.80**	**-425.31**	**-81.99**	**-4.23**	**-351.59**	**-96.51**	**-12.94**				
2048 Winter	Trucks	Exhaust & BW/TW	-5.53	-446.68	-82.84	-4.23	-57.37	-24.29	-12.63				
(Pounds/Day)		Dust					-294.23	-72.22					
		Winter Total	**-5.53**	**-446.68**	**-82.84**	**-4.23**	**-351.59**	**-96.51**	**-12.63**				

								MT/Year
Tons/Year	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**		**CO_2e**
2028 Trucks	-0.87	-71.94	-19.92	-0.66	-41.91	-11.65		-68,478.17
2033 Trucks	-1.01	-80.49	-21.13	-0.76	-44.01	-12.52		-79,081.59
2048 Trucks	-1.04	-77.62	-15.03	-0.77	-64.17	-17.61		-78,963.46

Pounds/Day	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
2028 Trucks	-4.65	-394.19	-108.94	-3.62	-229.63	-63.85
2033 Trucks	-5.41	-441.01	-115.50	-4.19	-241.14	-68.58
2048 Trucks	-5.53	-425.31	-81.99	-4.23	-351.59	-96.51

Overall Total

				Tons/Year						MT/Year	
	ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**TOG**	**CH_4**	**N_2O**	**CO_2**	**CO_2e**
2028 Annual	-0.87	-71.94	-19.92	-0.66	-41.91	-11.65	-3.29	-2.11	-10.38	-65,331.60	-68,478.17
2033 Annual	-1.01	-80.49	-21.13	-0.76	-44.01	-12.52	-3.31	-1.99	-11.99	-75,458.85	-79,081.59
2048 Annual	-1.04	-77.62	-15.03	-0.77	-64.17	-17.61	-2.34	-1.09	-11.94	-75,377.23	-78,963.46
				Pounds/Day							
2028 Summer	-4.84	-394.19	-108.94	-3.62	-229.63	-63.85	-18.10				
2028 Winter	-4.65	-412.92	-109.52	-3.63	-229.63	-63.85	-17.89				
2028 Daily Max	**-4.65**	**-394.19**	**-108.94**	**-3.62**	**-229.63**	**-63.85**	**-17.89**				
2033 Summer	-5.65	-441.01	-115.50	-4.19	-241.14	-68.58	-18.23				
2033 Winter	-5.41	-462.25	-116.25	-4.19	-241.14	-68.59	-17.96				
2033 Daily Max	**-5.41**	**-441.01**	**-115.50**	**-4.19**	**-241.14**	**-68.58**	**-17.96**				
2048 Summer	-5.80	-425.31	-81.99	-4.23	-351.59	-96.51	-12.94				
2048 Winter	-5.53	-446.68	-82.84	-4.23	-351.59	-96.51	-12.63				
2048 Daily Max	**-5.53**	**-425.31**	**-81.99**	**-4.23**	**-351.59**	**-96.51**	**-12.63**				

2028 Mobile Source Emissions - Truck Miles Traveled Reduction (SCAQMD Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-1,715	-627,000	-124,710	-45,519,012

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-0.87	-71.94	-19.92	-0.66	-7.08	-3.10	-3.29				
MT/Year								-2.11	-10.38	-65,331.60	-68,478.17

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-4.84	-394.19	-108.94	-3.62	-38.77	-17.00	-18.10

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-4.65	-412.92	-109.52	-3.63	-38.77	-17.00	-17.89

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2028
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV cal

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0046365	0.0028977	0.0179349	0.1201026	0.02249685	0	0	0.45308532	0
A	CH4_RUNEX	0.001699	0.0061841	0.0024614	0.003184	0.0018122	0.0006256	0.0074282	0.0447117	0.0401739	2.52598147	0.16014455	1.11188439	0.005739
A	CH4_STREX	0.050577	0.0884468	0.0622177	0.0732603	0.0179853	0.0106191	0.0092005	4.582E-08	0.02248567	0.0123938	0.15468651	0.00696017	0.024163
A	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.6311473	5.538307	0.62337374	0	0	2.85882984	0
A	CO_RUNEX	0.583421	1.3784533	0.7364651	0.8423107	0.4888163	0.1995033	0.1898517	0.3208814	0.66464292	33.1607044	11.7197899	4.26903453	0.56256
A	CO_STREX	2.228535	4.3058976	2.7169066	2.9051033	2.0177449	1.1350935	0.9822112	0.001742	2.4159062	1.14170799	7.3942871	0.86632868	1.992861
A	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	137.63701	813.94491	88.5334058	0	0	253.608165	0
A	CO2_NBIO_	237.8998	314.63923	312.54404	380.92771	330.43747	206.85307	1109.9966	1424.066	1388.45312	2023.32197	191.044648	1156.32034	1523.862
A	CO2_NBIO_	58.91092	79.607921	76.468809	92.793212	16.162957	9.3461927	9.5381357	0.0189088	20.2093246	11.1387809	43.4754522	5.48495694	20.75334
A	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6257541	4.0124067	0.31614313	0	0	1.03917543	0
A	NOX_RUNEX	0.027295	0.116372	0.049137	0.0703287	0.0597648	0.030869	0.5340786	1.4257402	0.9568571	0.36465681	0.51866154	1.88138291	1.203629
A	NOX_STREX	0.19056	0.3344146	0.2510976	0.305118	0.3452954	0.2131868	1.2518168	2.5768812	0.71791278	0.09640777	0.10976773	0.2574289	0.301005
A	PM10_IDLEX	0	0	0	0	0.0007269	0.0013138	0.0007074	0.0019356	0.00037712	0	0	0.00127373	0
A	PM10_PMBW	0.007543	0.0097124	0.0092737	0.0093454	0.0471174	0.0307896	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0050308	0.0028948	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
A	PM10_RUNE	0.001096	0.001835	0.0012122	0.0012513	0.0006656	0.0003192	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
A	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
A	PM25_IDLEX	0	0	0	0	0.0006954	0.001257	0.0006762	0.001848	0.00036024	0	0	0.0012039	0
A	PM25_PMBW	0.00264	0.0033993	0.0032458	0.0032709	0.0164911	0.0107764	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0012577	0.0007237	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
A	PM25_RUNE	0.001008	0.0016876	0.0011151	0.001153	0.000612	0.0002935	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
A	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
A	ROG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	ROG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0231067	0.3566242	0.0515165	0	0	0.27496857	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.006071	0.0269787	0.0092167	0.0127848	0.0087198	0.0027284	0.0136812	0.0123662	0.04219457	0.039106	1.011744	0.07015645	0.038068
A	ROG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576
A	ROG_STREX	0.219664	0.4435414	0.2735144	0.3440902	0.0857517	0.0503525	0.0475914	2.362E-07	0.11985375	0.05037558	1.12578632	0.03984838	0.092652
A	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012629	0.0073156	0.0008037	0	0	0.00134227	0
A	SO2_RUNEX	0.002352	0.0031105	0.0030894	0.0037639	0.0032667	0.002045	0.0105429	0.0130847	0.01292251	0.00186078	0.00188867	0.00713225	0.014933
A	SO2_STREX	0.000582	0.000787	0.000756	0.0009174	0.0001598	9.24E-05	9.429E-05	1.869E-07	0.00019979	0.00011012	0.0004298	5.4224E-05	0.000205
A	TOG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	TOG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0443691	0.5100506	0.08146112	0	0	0.79158923	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.008848	0.0393621	0.013432	0.0186064	0.012724	0.0039813	0.0231627	0.0584678	0.08902592	2.5812992	1.2353619	1.19798365	0.04934
A	TOG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576

A	TOG_STREX	0.240505	0.485622	0.2994638	0.3767355	0.0938873	0.0551296	0.0521065	2.586E-07	0.13122477	0.05515492	1.22449347	0.04362897	0.101443
A	N2O_IDLEX	0	0	0	0	0.0006482	0.001567	0.0210606	0.1301543	0.01236512	0	0	0.03716019	0
A	N2O_RUNE	0.003565	0.0087721	0.0050008	0.0067135	0.0035117	0.0020593	0.132444	0.2262887	0.12493604	0.37891439	0.03735335	0.14994277	0.063086
A	N2O_STREX	0.026879	0.0354256	0.0318752	0.0339207	0.0298388	0.0175245	0.0068223	3.25E-06	0.01929632	0.01021868	0.00671455	0.0066509	0.034033
S	CH4_IDLEX	0	0	0	0	0.0046521	0.0029071	0.0177963	0.1210723	0.02258659	0	0	0.45316243	0
S	CH4_RUNEX	0.001776	0.0064426	0.0025671	0.0033265	0.0012875	0.0021791	0.0074555	0.0447121	0.04025147	2.52599211	0.16100447	1.11198691	0.00585
S	CH4_STREX	0.045297	0.0787888	0.0557592	0.0654852	0.0173575	0.0102542	0.0088753	4.386E-08	0.02158846	0.01144528	0.1391153	0.006076	0.023027
S	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.5781089	5.4679591	0.61641513	0	0	2.84967757	0
S	CO_RUNEX	0.718208	1.6932961	0.9030761	1.0400228	0.0738496	0.113189	0.1925074	0.3210081	0.67326684	33.1619596	11.7788472	4.27954236	0.575059
S	CO_STREX	1.9106	3.6677137	2.3279607	2.4875592	1.9268007	1.0845151	0.9325503	0.0016548	2.27392935	0.9994205	6.64171558	0.67859067	1.867776
S	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	136.45234	804.44776	87.707516	0	0	255.786723	0
S	CO2_NBIO_	251.7437	330.81834	326.87831	396.07159	178.99335	362.72201	1110.0013	1424.0662	1388.46831	2023.32409	191.137905	1156.33919	1523.884
S	CO2_NBIO_	58.32168	78.418534	75.746889	91.996095	16.007637	9.2595423	9.453024	0.0187705	19.9669009	10.8993096	41.8745836	5.16999809	20.54085
S	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6026001	3.8250331	0.30284334	0	0	1.05910714	0
S	NOX_RUNE	0.023408	0.0998473	0.0421596	0.0603998	0.3215351	0.4767017	0.5012477	1.3457068	0.8945088	0.36242849	0.45312352	1.76052611	1.124384
S	NOX_STREX	0.177795	0.3122317	0.2343875	0.2850804	0.3308432	0.2043243	1.248341	2.5768771	0.70661379	0.09191942	0.10359484	0.25324332	0.287504
S	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0006059	0.0017163	0.00032569	0	0	0.00113779	0
S	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
S	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
S	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
S	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.000579	0.0016382	0.00031103	0	0	0.00107385	0
S	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
S	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
S	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
S	ROG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	ROG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0229842	0.3775018	0.05300481	0	0	0.27495373	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNE	0.006272	0.0278949	0.0095167	0.0132224	0.0277186	0.0469137	0.0137927	0.0123685	0.04254282	0.03913446	1.00980729	0.0706606	0.038581
S	ROG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	ROG_STREX	0.194428	0.3909159	0.2423226	0.3040224	0.0824708	0.0484475	0.0457111	2.267E-07	0.11474744	0.0462947	1.00333275	0.03476341	0.088479
S	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012518	0.0072256	0.00079588	0	0	0.0013629	0
S	SO2_RUNEX	0.002489	0.0032705	0.0032311	0.0039136	0.0016961	0.003437	0.010543	0.0130847	0.01292266	0.0018608	0.00188959	0.00713244	0.014933
S	SO2_STREX	0.000577	0.0007752	0.0007488	0.0009095	0.0001583	9.154E-05	9.345E-05	1.856E-07	0.00019739	0.00010775	0.00041397	5.1111E-05	0.000203
S	TOG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	TOG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0440153	0.5338181	0.08315544	0	0	0.79157235	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNE	0.009142	0.0406991	0.0138697	0.0192449	0.0315558	0.0534081	0.0233255	0.0584712	0.08953409	2.58134073	1.23529217	1.1987193	0.050089
S	TOG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	TOG_STREX	0.212874	0.4280037	0.2653128	0.3328663	0.0902952	0.053044	0.0500479	2.482E-07	0.125634	0.05068687	1.09138536	0.03806156	0.096873
S	N2O_IDLEX	0	0	0	0	0.0006503	0.0015682	0.0208408	0.1286581	0.01223886	0	0	0.03756424	0
S	N2O_RUNE	0.003169	0.0078236	0.0044644	0.0060575	0.0282005	0.057147	0.1321978	0.2262861	0.12424622	0.37875997	0.03397235	0.14889525	0.061963
S	N2O_STREX	0.02594	0.0342689	0.0307885	0.0328036	0.0290903	0.0171044	0.0066953	3.157E-06	0.01889593	0.01008953	0.0066013	0.00647271	0.033809
W	CH4_IDLEX	0	0	0	0	0.0046338	0.0028959	0.0181383	0.1187635	0.02239686	0	0	0.45306699	0
W	CH4_RUNEX	0.00168	0.0061139	0.0024336	0.003147	0.0012875	0.0021791	0.0074191	0.0447116	0.04015741	2.52597974	0.15979394	1.11186622	0.005714
W	CH4_STREX	0.051677	0.0905298	0.0636276	0.0749217	0.0180961	0.0106906	0.009256	4.623E-08	0.02268468	0.01254483	0.15726553	0.00716831	0.024384
W	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.7052178	5.635454	0.63298324	0	0	2.87146869	0
W	CO_RUNEX	0.540568	1.2746516	0.6817818	0.7783454	0.0738496	0.113189	0.1890562	0.3208393	0.66283321	33.1604748	11.670238	4.26707813	0.559726
W	CO_STREX	2.296387	4.4459336	2.8038419	2.9966432	2.0316029	1.1435025	0.9918149	0.0017597	2.44379739	1.163767	7.50827117	0.90383822	2.01366
W	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	139.26836	827.06001	89.6739203	0	0	250.599681	0
W	CO2_NBIO_	233.3393	309.13657	307.68354	375.83412	178.99335	362.72201	1109.9952	1424.0659	1388.44993	2023.32159	190.960868	1156.31686	1523.857
W	CO2_NBIO_	59.03655	79.868197	76.629797	92.967413	16.186868	9.3607877	9.5547915	0.0189369	20.2573814	11.1759499	43.7223036	5.54845739	20.78901
W	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6577281	4.2711608	0.3345095	0	0	1.01165069	0
W	NOX_RUNE	0.026761	0.1142876	0.0482402	0.0689981	0.3350347	0.4963825	0.5254085	1.4076911	0.94054855	0.36421597	0.50761537	1.85368095	1.183982
W	NOX_STREX	0.193066	0.3389256	0.2545273	0.3090664	0.347653	0.2148236	1.2525903	2.5768818	0.72011983	0.09706892	0.11089278	0.25857875	0.30306
W	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0008476	0.0022383	0.00044814	0	0	0.00146145	0
W	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
W	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
W	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
W	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.0008103	0.0021376	0.00042818	0	0	0.00138351	0
W	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
W	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
W	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
W	ROG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	ROG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0232886	0.3277933	0.04946122	0	0	0.27498905	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNE	0.006015	0.0267097	0.0091303	0.0126601	0.0277186	0.0469137	0.013648	0.0123655	0.04212168	0.03910132	1.01062655	0.07006968	0.037951
W	ROG_RUNL	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	ROG_STREX	0.225013	0.4548776	0.2803756	0.3527092	0.0863241	0.0507254	0.0480134	2.381E-07	0.12098573	0.05102119	1.14564156	0.04103475	0.093448

W	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012782	0.0074397	0.0008145	0	0	0.00131378	0
W	SO2_RUNEX	0.002307	0.0030561	0.0030413	0.0037135	0.0016961	0.003437	0.0105429	0.0130847	0.01292248	0.00186078	0.00188784	0.00713221	0.014933
W	SO2_STREX	0.000584	0.0007896	0.0007576	0.0009191	0.00016	9.254E-05	9.446E-05	1.872E-07	0.00020026	0.00011049	0.00043224	5.4852E-05	0.000206
W	TOG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	TOG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0448761	0.4772288	0.07912133	0	0	0.79161255	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.008767	0.0389697	0.0133059	0.0184244	0.0315558	0.0534081	0.0231143	0.0584668	0.08891955	2.58129238	1.23361459	1.19785704	0.049169
W	TOG_RUNLS	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	TOG_STREX	0.246361	0.4980337	0.306976	0.3861722	0.094514	0.0555379	0.0525686	2.607E-07	0.13246415	0.05586178	1.24608416	0.04492789	0.102314
W	N2O_IDLEX	0	0	0	0	0.0006481	0.0015669	0.0213672	0.1322206	0.01254498	0	0	0.03669138	0
W	N2O_RUNEX	0.003501	0.0086363	0.004919	0.006613	0.0282005	0.057147	0.1324024	0.2262885	0.12480486	0.37888375	0.03677335	0.14976849	0.062903
W	N2O_STREX	0.027256	0.0359635	0.032344	0.0344069	0.0300276	0.0176497	0.0068963	3.268E-06	0.01948566	0.01034286	0.00681729	0.00677143	0.03447

2033 Mobile Source Emissions - Truck Miles Traveled Reduction (SCAQMD Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-2,270	-829,218	-163,607	-59,716,409

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-1.01	-80.49	-21.13	-0.76	-9.18	-3.97	-3.31				
MT/Year								-1.99	-11.99	-75,458.85	-79,081.59

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-5.65	-441.01	-115.50	-4.19	-50.28	-21.74	-18.23

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-5.41	-462.25	-116.25	-4.19	-50.28	-21.74	-17.96

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2033
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV ca

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0037418	0.002208	0.016911	0.1061898	0.02296538	0	0	0.47210313	0
A	CH4_RUNEX	0.001264	0.003544	0.0019072	0.00224	0.0005947	0.0002509	0.0065302	0.0317808	0.04242465	0.00059684	0.15038771	1.05844964	0.003558
A	CH4_STREX	0.039445	0.0625675	0.0503533	0.0555514	0.0132448	0.0073768	0.0067874	2.273E-08	0.01874646	0.02082457	0.1410673	0.00661646	0.022035
A	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5578784	5.3176742	0.64495392	0	0	2.90152556	0
A	CO_RUNEX	0.493114	0.9189904	0.6419649	0.6903879	0.2874315	0.1404144	0.0995155	0.2472676	0.46652296	0.10986288	10.8770458	3.72843825	0.238362
A	CO_STREX	1.791266	2.9209532	2.2823173	2.3684618	1.7621085	0.9616135	0.6739165	0.0008858	2.03459728	1.84108981	7.3029789	0.76249546	1.706677
A	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	119.52469	725.46905	90.2707911	0	0	242.042321	0
A	CO2_NBIO_	215.8338	287.81827	287.18514	346.52209	263.04202	157.72382	902.39828	1253.5542	1228.39174	266.183503	189.972906	1046.48924	1506.204
A	CO2_NBIO_	52.98002	71.184508	69.601437	83.669016	13.803091	7.5609764	7.0817684	0.0099924	17.1747283	17.428765	40.0393778	5.15558136	19.32601
A	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4716468	3.6223932	0.29079758	0	0	0.69154138	0
A	NOX_RUNE	0.021102	0.0605859	0.0351744	0.0445836	0.0259082	0.0146718	0.312622	1.2103195	0.81114011	0.03172648	0.48935515	0.98218987	1.039552
A	NOX_STREX	0.163261	0.2490001	0.2160447	0.2406855	0.2627184	0.1529875	1.0106764	2.3540576	0.64361989	0.15859679	0.08992566	0.26756108	0.301261
A	PM10_IDLE	0	0	0	0	0.0006897	0.0012503	0.0003098	0.0016756	0.00031934	0	0	0.00084279	0
A	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0451479	0.0308339	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
A	PM10_PMT	0.008	0.008	0.008	0.008	0.0053275	0.0033711	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
A	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.000541	0.0002599	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
A	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
A	PM25_IDLE	0	0	0	0	0.0006599	0.0011962	0.0002957	0.001599	0.00030482	0	0	0.00078975	0
A	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0158018	0.0107919	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
A	PM25_PMT	0.002	0.002	0.002	0.002	0.0013319	0.0008428	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
A	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0004974	0.000239	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
A	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
A	ROG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	ROG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187664	0.3412702	0.05074188	0	0	0.26776331	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNE	0.004197	0.0145604	0.0066974	0.0083694	0.0023827	0.0009622	0.0071894	0.0106427	0.03053744	0.00206882	0.92434298	0.04284928	0.026384
A	ROG_RUNL	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053
A	ROG_STREX	0.164864	0.2933961	0.2125834	0.2464351	0.0603471	0.0339233	0.0342096	1.166E-07	0.10060666	0.08409658	1.00900796	0.03721438	0.080414
A	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010897	0.0065037	0.00081457	0	0	0.00114625	0
A	SO2_RUNEX	0.002134	0.0028454	0.0028387	0.003424	0.0026004	0.0015593	0.0085476	0.0115226	0.01131448	0.00263008	0.00187808	0.00617863	0.014748
A	SO2_STREX	0.000524	0.0007037	0.0006881	0.0008272	0.0001365	7.475E-05	7.001E-05	9.879E-08	0.00016979	0.0001723	0.00039583	5.0968E-05	0.000191
A	TOG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	TOG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0383619	0.4793025	0.08084464	0	0	0.80165908	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNE	0.006121	0.0212465	0.009756	0.0121819	0.0034768	0.001404	0.0146985	0.0435744	0.07732696	0.00294572	1.14189255	1.11231976	0.032802
A	TOG_RUNL	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053

A	TOG_STREX	0.180505	0.3212318	0.232752	0.2698154	0.0660725	0.0371418	0.0374552	1.276E-07	0.11015163	0.09207517	1.09800958	0.04074506	0.088043
A	N2O_IDLEX	0	0	0	0	0.0005845	0.0014444	0.0184133	0.1160881	0.01291361	0	0	0.03601507	0
A	N2O_RUNEX	0.003079	0.0057199	0.0041986	0.0051642	0.0017567	0.0011039	0.1115938	0.1991757	0.12367161	0.0034144	0.03614484	0.13262017	0.063906
A	N2O_STREX	0.024184	0.0308148	0.0298077	0.0306405	0.0239705	0.0131699	0.0049505	8.62E-07	0.01532229	0.01672297	0.00567793	0.00698526	0.034766
S	CH4_IDLEX	0	0	0	0	0.0037546	0.0022151	0.0168093	0.1071269	0.0230613	0	0	0.47219174	0
S	CH4_RUNEX	0.001321	0.0036938	0.00199	0.0023406	0.0009133	0.0016968	0.0065434	0.031781	0.0424697	0.00061218	0.15215846	1.05850268	0.003614
S	CH4_STREX	0.035346	0.0559181	0.0451543	0.0497239	0.0127897	0.0071259	0.0065514	2.176E-08	0.01800478	0.0192922	0.1277803	0.00577672	0.021017
S	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5172232	5.2515616	0.63790849	0	0	2.89595792	0
S	CO_RUNEX	0.608684	1.1280069	0.7881558	0.8519518	0.0472155	0.0844155	0.1005549	0.2473457	0.47107722	0.11209174	10.9973504	3.73332685	0.242129
S	CO_STREX	1.539839	2.4998939	1.9593026	2.0324776	1.6838601	0.9192778	0.6399119	0.0008416	1.91506796	1.61770396	6.51675699	0.59710223	1.602012
S	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	118.25831	716.76647	89.3734454	0	0	242.957765	0
S	CO2_NBIO_	228.5327	302.38337	300.36947	360.04725	158.80155	322.16779	902.40014	1253.5544	1228.39978	266.187213	190.191381	1046.49804	1506.211
S	CO2_NBIO_	52.51768	70.401849	69.007887	83.040392	13.671254	7.4895232	7.0232833	0.0099223	16.9706832	17.0522589	38.4523596	4.87719278	19.14798
S	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4513806	3.4491702	0.27840265	0	0	0.69838457	0
S	NOX_RUNEX	0.018094	0.0519862	0.0301832	0.038285	0.1760916	0.3073911	0.2938148	1.1421755	0.76126886	0.02804592	0.42820932	0.9177386	0.974513
S	NOX_STREX	0.152366	0.2324533	0.201707	0.2248926	0.2517532	0.1466336	1.0082363	2.3540566	0.63433915	0.15138053	0.08502118	0.26312979	0.287832
S	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0002704	0.0014957	0.00027807	0	0	0.00078244	0
S	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
S	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
S	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
S	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.000258	0.0014269	0.00026533	0	0	0.000732	0
S	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
S	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
S	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
S	ROG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	ROG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0188089	0.3614453	0.05240465	0	0	0.26785218	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.004338	0.0150502	0.006915	0.0086538	0.0196628	0.0365311	0.007237	0.0106436	0.03072694	0.00210912	0.93068842	0.0430923	0.026581
S	ROG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	ROG_STREX	0.14599	0.2592915	0.1884634	0.2180006	0.0580599	0.032649	0.0328608	1.119E-07	0.09632248	0.0775274	0.90687186	0.03246185	0.076853
S	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010778	0.0064213	0.00080607	0	0	0.00115491	0
S	SO2_RUNEX	0.002259	0.0029894	0.0029691	0.0035578	0.0015047	0.0030527	0.0085476	0.0115227	0.01131456	0.00263011	0.00188024	0.00617871	0.014748
S	SO2_STREX	0.000519	0.000696	0.0006822	0.0008209	0.0001352	7.404E-05	6.943E-05	9.809E-08	0.00016777	0.00016858	0.00038014	4.8216E-05	0.000189
S	TOG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	TOG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0382421	0.5022704	0.08273758	0	0	0.80176025	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.006327	0.0219611	0.0100735	0.012597	0.0223848	0.0415882	0.0147679	0.0435759	0.07760348	0.00300453	1.15122262	1.11267438	0.033089
S	TOG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	TOG_STREX	0.159841	0.2838915	0.2063437	0.2386832	0.0635683	0.0357466	0.0359784	1.225E-07	0.105461	0.08488275	0.98693366	0.03554164	0.084145
S	N2O_IDLEX	0	0	0	0	0.0005862	0.0014453	0.018189	0.114717	0.01277513	0	0	0.03621619	0
S	N2O_RUNEX	0.002735	0.0050923	0.0037467	0.0046613	0.0250192	0.0507577	0.1114602	0.1991743	0.12326252	0.00315348	0.03290722	0.13182366	0.063062
S	N2O_STREX	0.023339	0.0297738	0.0287802	0.0296038	0.0233488	0.0128421	0.0048506	8.362E-07	0.01498657	0.01651859	0.00558986	0.00679841	0.034535
W	CH4_IDLEX	0	0	0	0	0.0037395	0.0022066	0.0170612	0.1048958	0.02285461	0	0	0.47207661	0
W	CH4_RUNEX	0.001249	0.003504	0.0018857	0.0022142	0.0009133	0.0016968	0.0065256	0.0317808	0.04241494	0.00059355	0.14989315	1.05843982	0.003545
W	CH4_STREX	0.040296	0.0640079	0.0514849	0.0567994	0.0133271	0.0074261	0.0068276	2.294E-08	0.01891165	0.02114958	0.14342093	0.00681827	0.022241
W	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.6146697	5.4089726	0.65468332	0	0	2.9092142	0
W	CO_RUNEX	0.45654	0.8501888	0.5941618	0.638079	0.0472155	0.0844155	0.0992023	0.2472407	0.46553668	0.109402	10.8286973	3.72749234	0.23748
W	CO_STREX	1.844297	3.0134483	2.3539622	2.4419405	1.7743477	0.9686818	0.6806595	0.0008961	2.05817834	1.88297897	7.43254656	0.79639625	1.725038
W	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	121.27006	737.48691	91.5099829	0	0	240.778137	0
W	CO2_NBIO_	211.6622	282.86919	282.72289	341.96636	158.80155	322.16779	902.39772	1253.5542	1228.39	266.182733	189.886754	1046.48755	1506.203
W	CO2_NBIO_	53.07757	71.356127	69.732899	83.806206	13.82389	7.5730345	7.0935096	0.0100089	17.2153539	17.4999455	40.3036755	5.21318087	19.35752
W	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4996329	3.8616059	0.30791437	0	0	0.68209126	0
W	NOX_RUNEX	0.020688	0.0594952	0.0345248	0.0437325	0.1834248	0.3200164	0.3075642	1.1953365	0.79762734	0.0310619	0.47878684	0.96792374	1.022549
W	NOX_STREX	0.165391	0.2523816	0.2189741	0.2438142	0.264539	0.154157	1.0112385	2.3540577	0.64543441	0.16002593	0.09084561	0.26879325	0.303414
W	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003643	0.001924	0.00037634	0	0	0.00092614	0
W	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
W	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
W	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
W	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0003479	0.0018367	0.00035936	0	0	0.00086949	0
W	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
W	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
W	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
W	ROG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	ROG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187177	0.3134092	0.04844567	0	0	0.26764059	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNEX	0.004158	0.0144187	0.0066354	0.0082897	0.0196628	0.0365311	0.0071752	0.0106423	0.03049674	0.00205994	0.92196934	0.04280573	0.026338
W	ROG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	ROG_STREX	0.168854	0.3007958	0.2178775	0.252568	0.0607578	0.0341743	0.0345198	1.175E-07	0.10156228	0.08550056	1.02665939	0.03834862	0.081123

W	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0011062	0.0066175	0.0008263	0	0	0.00113427	0
W	SO2_RUNEX	0.002092	0.0027964	0.0027946	0.003379	0.0015047	0.0030527	0.0085476	0.0115226	0.01131446	0.00263007	0.00187722	0.00617861	0.014748
W	SO2_STREX	0.000525	0.0007054	0.0006894	0.0008285	0.0001367	7.487E-05	7.013E-05	9.895E-08	0.00017019	0.000173	0.00039844	5.1538E-05	0.000191
W	TOG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	TOG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0385418	0.4475849	0.07823058	0	0	0.80151936	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.006065	0.0210396	0.0096655	0.0120657	0.0223848	0.0415882	0.0146778	0.0435739	0.07726758	0.00293276	1.1387096	1.11225621	0.032736
W	TOG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	TOG_STREX	0.184874	0.3293335	0.2385484	0.2765301	0.0665221	0.0374165	0.0377949	1.286E-07	0.11119791	0.09361236	1.11721345	0.04198692	0.088819
W	N2O_IDLEX	0	0	0	0	0.0005844	0.0014444	0.0187253	0.1179815	0.01310893	0	0	0.0358206	0
W	N2O_RUNEX	0.003023	0.0056267	0.0041282	0.0050854	0.0250192	0.0507577	0.1115715	0.1991756	0.12359308	0.00336586	0.03557934	0.13249055	0.063766
W	N2O_STREX	0.02452	0.0312715	0.0302371	0.0310715	0.0241158	0.0132596	0.005002	8.668E-07	0.01546582	0.01694626	0.00576523	0.00711186	0.035221

2048 Mobile Source Emissions- Truck Miles Traveled Reduction (SCAQMD Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-2,635	-962,697	-192,255	-70,173,104

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-1.04	-77.62	-15.03	-0.77	-10.47	-4.43	-2.34				
MT/Year								-1.09	-11.94	-75,377.23	-78,963.46

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-5.80	-425.31	-81.99	-4.23	-57.36	-24.29	-12.94

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-5.53	-446.68	-82.84	-4.23	-57.37	-24.29	-12.63

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2048
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0019873	0.0010262	0.0097357	0.0706447	0.02364998	0	0	0.2684817	0
A	CH4_RUNEX	0.0009	0.0011035	0.0013503	0.0013653	0.000141	6.364E-05	0.004079	0.014525	0.0452154	6.7515E-05	0.1403424	0.5555245	0.002375
A	CH4_STREX	0.026822	0.0313992	0.03715	0.0368657	0.006345	0.0029123	0.0027351	3.515E-10	0.01017549	0.00240648	0.1199415	0.003515	0.020809
A	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3305343	5.0618632	0.64197356	0	0	1.9171505	0
A	CO_RUNEX	0.424451	0.5139449	0.5596761	0.568615	0.1632086	0.0817108	0.0368767	0.1248818	0.23940162	0.04152292	10.001238	1.6209778	0.132556
A	CO_STREX	1.325305	1.5421931	1.849198	1.8295686	1.11089	0.5819278	0.2398708	0.000379	0.86432696	0.46224847	7.1781794	0.3960736	1.43656
A	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	67.454098	644.00022	85.3439537	0	0	143.50791	0
A	CO2_NBIO_	197.9221	254.32138	263.62476	313.26517	148.33855	82.852448	495.70442	1065.3347	976.808189	50.5478821	188.98017	584.97178	1495.109
A	CO2_NBIO_	46.99377	60.228738	62.4617	73.957111	8.0058798	4.1093515	2.721739	0.003412	9.56692808	2.78632352	34.704901	2.615754	18.12672
A	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2199642	3.3197309	0.18082849	0	0	0.1942225	0
A	NOX_RUNEX	0.016075	0.0196333	0.0205019	0.021022	0.0048519	0.0031825	0.1015488	0.9894575	0.47776538	0.0031522	0.4588034	0.1217048	0.794263
A	NOX_STREX	0.132911	0.1625428	0.1821653	0.1859778	0.1306962	0.0579797	0.5076396	1.9728258	0.45036194	0.02303497	0.0589122	0.1555207	0.217933
A	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.000101	0.0014933	0.00018062	0	0	0.0004263	0
A	PM10_PMBW	0.007351	0.0093982	0.0092263	0.0092721	0.0420858	0.0346159	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.042903
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0062352	0.0048987	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
A	PM10_RUNEX	0.000451	0.000552	0.0005332	0.0005208	0.0003246	0.0001606	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.008052
A	PM10_STREX	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.000228
A	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	9.609E-05	0.0014253	0.00017181	0	0	0.0003933	0
A	PM25_PMBW	0.002573	0.0032894	0.0032292	0.0032452	0.01473	0.0121156	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.015016
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0015588	0.0012247	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.003361
A	PM25_RUNEX	0.000415	0.0005076	0.0004909	0.0004793	0.0002985	0.0001476	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.007677
A	PM25_STREX	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.00021
A	ROG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.9177
A	ROG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.713547
A	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0098131	0.3294671	0.04529906	0	0	0.1481811	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.002596	0.0032385	0.0041061	0.0041899	0.0004581	0.0002037	0.0026534	0.0089024	0.00817585	0.00068057	0.8338801	0.0119226	0.017209
A	ROG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.000665
A	ROG_STREX	0.100766	0.1194998	0.1443756	0.1445319	0.0271807	0.012367	0.0133843	1.849E-09	0.05250109	0.0075255	0.8287868	0.0195671	0.071221
A	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006105	0.0058701	0.00075599	0	0	0.0005598	0
A	SO2_RUNEX	0.001957	0.0025142	0.0026058	0.0030956	0.0014665	0.0008191	0.004673	0.009893	0.00879849	0.00043165	0.0018683	0.0032734	0.014631
A	SO2_STREX	0.000465	0.0005954	0.0006175	0.0007311	7.915E-05	4.063E-05	2.691E-05	3.373E-08	9.4579E-05	2.7546E-05	0.0003431	2.586E-05	0.000179
A	TOG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.9177
A	TOG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.713547
A	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0208798	0.4306907	0.07473656	0	0	0.4508668	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.003787	0.0047256	0.0059744	0.0060968	0.0006685	0.0002973	0.0070356	0.0243195	0.05447142	0.00080586	1.0445644	0.5716777	0.021175
A	TOG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.000665

A	TOG_STREX	0.110326	0.1308372	0.1580731	0.1582442	0.0297595	0.0135403	0.0146541	2.024E-09	0.05748209	0.00823947	0.9027332	0.0214235	0.077978
A	N2O_IDLEX	0	0	0	0	0.000373	0.0009765	0.0105187	0.1025785	0.01280725	0	0	0.0225602	0
A	N2O_RUNE1	0.002683	0.0031412	0.0033373	0.0037209	0.0004806	0.000336	0.0670232	0.1687894	0.12219135	0.00167792	0.0349394	0.0751476	0.068994
A	N2O_STREX	0.021385	0.0253868	0.0279952	0.0279914	0.0129719	0.0058643	0.0024636	5.311E-06	0.00876862	0.00407059	0.0040474	0.0030756	0.025456
S	CH4_IDLEX	0	0	0	0	0.0019942	0.0010294	0.009699	0.0715568	0.02374987	0	0	0.2685372	0
S	CH4_RUNEX	0.000941	0.0011525	0.0014109	0.0014273	0.0004298	0.0009516	0.0040822	0.0145251	0.04522315	6.857E-05	0.1431366	0.5555391	0.002411
S	CH4_STREX	0.024049	0.02822	0.0333348	0.0330704	0.0061312	0.0028146	0.0026416	3.364E-10	0.00978202	0.00224655	0.1103221	0.0030772	0.019896
S	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3124953	4.9989777	0.63549633	0	0	1.9157601	0
S	CO_RUNEX	0.526203	0.6313024	0.6898292	0.7020131	0.0176112	0.0395445	0.0370639	0.1249126	0.23996969	0.04233245	10.195289	1.622076	0.134621
S	CO_STREX	1.144845	1.3328818	1.5924287	1.575563	1.0623325	0.5566078	0.2278083	0.0003598	0.81387417	0.41114757	6.3447885	0.3113428	1.352325
S	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	66.594006	635.88628	84.3844672	0	0	143.1102	0
S	CO2_NBIO_	209.7726	267.06358	275.85122	325.36809	102.01103	209.13287	495.70475	1065.3347	976.809195	50.5491751	189.34778	584.97378	1495.113
S	CO2_NBIO_	46.66898	59.851939	61.99964	73.499208	7.9254388	4.0676388	2.7008324	0.0033816	9.47940362	2.70341972	33.151628	2.473074	17.98289
S	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2090109	3.1560605	0.17251087	0	0	0.1897906	0
S	NOX_RUNE1	0.013788	0.0168455	0.0176041	0.0180582	0.033789	0.0869449	0.095606	0.9331528	0.44914693	0.0028794	0.4022855	0.1126812	0.740649
S	NOX_STREX	0.124124	0.1517536	0.1701957	0.1737892	0.1252783	0.0555748	0.5063614	1.9728211	0.44487684	0.02201064	0.0559803	0.1537183	0.208397
S	PM10_IDLE1	0	0	0	0	0.0004854	0.0008885	9.125E-05	0.0013367	0.00016295	0	0	0.0004224	0
S	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.042903
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
S	PM10_RUN	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.008052
S	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.000228
S	PM25_IDLE1	0	0	0	0	0.0004644	0.0008501	8.678E-05	0.0012755	0.00015491	0	0	0.0003896	0
S	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.015016
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.003361
S	PM25_RUN	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.007677
S	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.00021
S	ROG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.51652
S	ROG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.779948
S	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0099685	0.3491043	0.04717647	0	0	0.1483356	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNE1	0.002685	0.0033447	0.0042411	0.0043297	0.0092534	0.0204877	0.0026629	0.0089027	0.00820006	0.00068257	0.8497022	0.0119809	0.017319
S	ROG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.000667
S	ROG_STREX	0.089318	0.1061971	0.1281079	0.128196	0.0261695	0.0119089	0.0128581	1.775E-09	0.05027669	0.00698241	0.7594405	0.017114	0.068192
S	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006024	0.0057932	0.00074691	0	0	0.000556	0
S	SO2_RUNEX	0.002074	0.0026402	0.0027267	0.0032152	0.0009666	0.0019816	0.004673	0.009893	0.0087985	0.00043167	0.0018719	0.0032734	0.014631
S	SO2_STREX	0.000461	0.0005917	0.0006129	0.0007266	7.835E-05	4.021E-05	2.67E-05	3.343E-08	9.3714E-05	2.6726E-05	0.0003277	2.445E-05	0.000178
S	TOG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.51652
S	TOG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.779948
S	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0209846	0.4530461	0.07687384	0	0	0.4510427	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNE1	0.003917	0.0048806	0.0061715	0.0063007	0.0105344	0.0233239	0.0070494	0.02432	0.05450676	0.00080877	1.0646669	0.5717628	0.021335
S	TOG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.000667
S	TOG_STREX	0.097792	0.1162724	0.140262	0.1403585	0.0286524	0.0130388	0.014078	1.943E-09	0.05504665	0.00764486	0.827228	0.0187377	0.074662
S	N2O_IDLEX	0	0	0	0	0.0003738	0.0009769	0.0103737	0.1013002	0.01265757	0	0	0.0225224	0
S	N2O_RUNE1	0.002383	0.0027871	0.0029765	0.0033597	0.0160719	0.032949	0.066988	0.1687889	0.12196613	0.00165247	0.0318497	0.0748783	0.067943
S	N2O_STREX	0.020643	0.0244967	0.0270167	0.0270111	0.0126226	0.0057121	0.0024046	5.232E-06	0.00855446	0.00400686	0.0039998	0.0029875	0.025313
W	CH4_IDLEX	0	0	0	0	0.001986	0.0010257	0.0097906	0.0693852	0.02352679	0	0	0.26846	0
W	CH4_RUNEX	0.00089	0.0010909	0.0013348	0.0013494	0.0004298	0.0009516	0.0040779	0.014525	0.04521371	6.7305E-05	0.1396785	0.5555216	0.002366
W	CH4_STREX	0.027394	0.0320882	0.0379751	0.0376844	0.0063855	0.0029314	0.0027522	3.545E-10	0.01026277	0.00244082	0.1219103	0.0036216	0.021012
W	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3557232	5.1487051	0.65091831	0	0	1.9190706	0
W	CO_RUNEX	0.392459	0.4756083	0.5174105	0.5253745	0.0176112	0.0395445	0.0368209	0.1248725	0.23927512	0.0413592	9.9527928	1.6207436	0.132019
W	CO_STREX	1.362344	1.5873766	1.9053242	1.8849364	1.1187113	0.5861338	0.2424969	0.0003831	0.874239	0.47198909	7.3320793	0.4133825	1.452942
W	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	68.640547	655.20518	86.6689588	0	0	144.05713	0
W	CO2_NBIO_	194.042	250.00176	259.49869	309.18342	102.01103	209.13287	495.70432	1065.3347	976.807965	50.5476206	188.88878	584.97136	1495.109
W	CO2_NBIO_	47.06061	60.310211	62.562699	74.05693	8.0189346	4.1163281	2.7263483	0.0034185	9.58431806	2.80217603	34.995634	2.6452225	18.15495
W	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2350899	3.5457519	0.19231472	0	0	0.2003429	0
W	NOX_RUNE1	0.015758	0.0192632	0.0201131	0.0206227	0.0351249	0.0904172	0.0999428	0.9782188	0.46987215	0.00309574	0.4487416	0.1198985	0.780435
W	NOX_STREX	0.13461	0.1647592	0.1845777	0.1884217	0.1316158	0.0584178	0.5079507	1.9728268	0.45142741	0.02319678	0.0595034	0.1560155	0.219727
W	PM10_IDLE1	0	0	0	0	0.0004854	0.0008885	0.0001144	0.0017095	0.00020502	0	0	0.0004317	0
W	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.042903
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
W	PM10_RUN	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.008052
W	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.000228
W	PM25_IDLE1	0	0	0	0	0.0004644	0.0008501	0.000109	0.0016322	0.00019516	0	0	0.0003984	0
W	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.015016
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.003361
W	PM25_RUN	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.007677
W	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.00021
W	ROG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.87339
W	ROG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.705924
W	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0096028	0.302349	0.04270645	0	0	0.1479677	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNE1	0.002572	0.0032084	0.004068	0.0041505	0.0092534	0.0204877	0.0026506	0.0089022	0.00817051	0.00068017	0.8300197	0.0119109	0.017181
W	ROG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	ROG_STREX	0.103169	0.1224115	0.1479312	0.1480943	0.0273728	0.0124571	0.013516	1.864E-09	0.05299607	0.00764383	0.8427572	0.020164	0.071889

W	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006217	0.0059762	0.00076854	0	0	0.000565	0
W	SO2_RUNEX	0.001918	0.0024715	0.002565	0.0030552	0.0009666	0.0019816	0.004673	0.009893	0.00879849	0.00043165	0.0018674	0.0032734	0.014631
W	SO2_STREX	0.000465	0.0005962	0.0006185	0.0007321	7.928E-05	4.069E-05	2.695E-05	3.379E-08	9.4751E-05	2.7702E-05	0.000346	2.615E-05	0.000179
W	TOG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.87339
W	TOG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.705924
W	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0207413	0.3998188	0.07178507	0	0	0.4506238	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.003752	0.0046817	0.0059188	0.0060393	0.0105344	0.0233239	0.0070315	0.0243193	0.05446363	0.00080528	1.0396779	0.5716606	0.021134
W	TOG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	TOG_STREX	0.112957	0.1340251	0.161966	0.1621447	0.0299697	0.013639	0.0147983	2.041E-09	0.05802403	0.00836903	0.9179477	0.022077	0.07871
W	N2O_IDLEX	0	0	0	0	0.0003729	0.0009764	0.0107196	0.1043439	0.01301602	0	0	0.0226485	0
W	N2O_RUNEX	0.002634	0.0030846	0.003279	0.0036623	0.0160719	0.032949	0.0670177	0.1687893	0.12214964	0.00167261	0.0343897	0.0751039	0.068818
W	N2O_STREX	0.021676	0.0257483	0.0283804	0.0283709	0.0130457	0.0059018	0.0024861	5.373E-06	0.00884113	0.00411449	0.0041104	0.0031293	0.025821

Paved Road Dust Calculations (EPA AP-42 13.2.1, equation 2)
Truck Miles Traveled Reduction (SCAQMD Only)

E = (k*(sL)^0.91*(W)^1.02)*(1-P/4N)

	PM_{10}	$PM_{2.5}$	
E =			emission factor
k =	0.0022	0.00054	particle size multiplier (lb/vmt)
sL =	0.03	0.03	surface silt loading (CARB Miscellaneous Process Methodology 7.9, Entrained Road Travel, Paved Road Dust, November 2016)
W HHD =	16	16	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
W worker =	2.7	2.7	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
P =	0	0	Number of days per year with >0.01 inches of rain (Source: WRCC data for Barstow,https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabars+sca)
N =	365	365	Days per period

	lb/vmt		**g/vmt**	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	0.00153	0.00038	0.6941785	0.1703893
Vendor	0.00066	0.00016	0.2987231	0.0733229
Worker	0.00025	0.00006	0.1130472	0.027748

				2028				**2033**				**2048**			
	2028	**2033**	**2048**	**lbs/day**		**tons/year**		**lbs/day**		**tons/year**		**lbs/day**		**tons/year**	
	VMT/year	**VMT/year**	**VMT/year**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	-45,519,012	-59,716,409	-70,173,104	-190.86	-46.846	-34.831	-8.5495	-190.86	-46.846	-34.831	-8.5495	-294.23	-72.219	-53.697	-13.18
Total	**-45,519,012**	**-59,716,409**	**-70,173,104**	**-190.86**	**-46.846**	**-34.831**	**-8.5495**	**-190.86**	**-46.846**	**-34.831**	**-8.5495**	**-294.23**	**-72.219**	**-53.697**	**-13.18**

Mobile Source Emissions Summary - Truck Miles Traveled Reduction (CA Only)

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2028 Annual	Trucks	Exhaust & BW/TW	-1.09	-91.60	-25.20	-0.84	-9.04	-3.96	-4.18	-2.69	-13.25	-83,401.17	-87,417.93
(Tons/Year)		Dust					-44.48	-10.92					
(MT/yr for GHG)		**Annual Total**	**-1.09**	**-91.60**	**-25.20**	**-0.84**	**-53.52**	**-14.88**	-4.18	-2.69	-13.25	-83,401.17	**-87,417.93**
2028 Summer	Trucks	Exhaust & BW/TW	-6.09	-501.90	-137.83	-4.63	-49.51	-21.71	-22.99				
(Pounds/Day)		Dust					-243.74	-59.83					
		Summer Total	**-6.09**	**-501.90**	**-137.83**	**-4.63**	**-293.25**	**-81.54**	-22.99				
2028 Winter	Trucks	Exhaust & BW/TW	-5.86	-525.71	-138.54	-4.63	-49.51	-21.71	-22.73				
(Pounds/Day)		Dust					-243.74	-59.83					
		Winter Total	**-5.86**	**-525.71**	**-138.54**	**-4.63**	**-293.25**	**-81.54**	-22.73				

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2033 Annual	Trucks	Exhaust & BW/TW	-1.27	-102.58	-26.71	-0.98	-11.73	-5.07	-4.20	-2.53	-15.33	-96,457.44	-101,088.17
(Tons/Year)		Dust					-58.43	-14.34					
(MT/yr for GHG)		**Annual Total**	**-1.27**	**-102.58**	**-26.71**	**-0.98**	**-70.17**	**-19.42**	-4.20	-2.53	-15.33	-96,457.44	**-101,088.17**
2033 Summer	Trucks	Exhaust & BW/TW	-7.11	-562.06	-145.98	-5.35	-64.30	-27.80	-23.15				
(Pounds/Day)		Dust					-320.19	-78.59					
		Summer Total	**-7.11**	**-562.06**	**-145.98**	**-5.35**	**-384.49**	**-106.39**	-23.15				
2033 Winter	Trucks	Exhaust & BW/TW	-6.82	-589.09	-146.89	-5.36	-64.30	-27.80	-22.82				
(Pounds/Day)		Dust					-320.19	-78.59					
		Winter Total	**-6.82**	**-589.09**	**-146.89**	**-5.36**	**-384.49**	**-106.39**	-22.82				

			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2048 Annual	Trucks	Exhaust & BW/TW	-1.30	-98.54	-18.82	-0.98	-13.33	-5.65	-2.95	-1.38	-15.21	-95,972.71	-100,538.73
(Tons/Year)		Dust					-68.39	-16.79					
(MT/yr for GHG)		**Annual Total**	**-1.30**	**-98.54**	**-18.82**	**-0.98**	**-81.73**	**-22.43**	**-2.95**	**-1.38**	**-15.21**	**-95,972.71**	**-100,538.73**
2048 Summer	Trucks	Exhaust & BW/TW	-7.27	-539.94	-102.68	-5.38	-73.07	-30.94	-16.32				
(Pounds/Day)		Dust					-374.77	-91.99					
		Summer Total	**-7.27**	**-539.94**	**-102.68**	**-5.38**	**-447.83**	**-122.92**	**-16.32**				
2048 Winter	Trucks	Exhaust & BW/TW	-6.94	-567.02	-103.72	-5.38	-73.07	-30.94	-15.95				
(Pounds/Day)		Dust					-374.77	-91.99					
		Winter Total	**-6.94**	**-567.02**	**-103.72**	**-5.38**	**-447.83**	**-122.93**	**-15.95**				

Tons/Year	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	**MT/Year CO_2e**
2028 Trucks	-1.09	-91.60	-25.20	-0.84	-53.52	-14.88	-87,417.93
2033 Trucks	-1.27	-102.58	-26.71	-0.98	-70.17	-19.42	-101,088.17
2048 Trucks	-1.30	-98.54	-18.82	-0.98	-81.73	-22.43	-100,538.73

Pounds/Day	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
2028 Trucks	-5.86	-501.90	-137.83	-4.63	-293.25	-81.54
2033 Trucks	-6.82	-562.06	-145.98	-5.35	-384.49	-106.39
2048 Trucks	-6.94	-539.94	-102.68	-5.38	-447.83	-122.92

Overall Total

				Tons/Year						**MT/Year**	
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2028 Annual	-1.09	-91.60	-25.20	-0.84	-53.52	-14.88	-4.18	-2.69	-13.25	-83,401.17	-87,417.93
2033 Annual	-1.27	-102.58	-26.71	-0.98	-70.17	-19.42	-4.20	-2.53	-15.33	-96,457.44	-101,088.17
2048 Annual	-1.30	-98.54	-18.82	-0.98	-81.73	-22.43	-2.95	-1.38	-15.21	-95,972.71	-100,538.73
				Pounds/Day							
2028 Summer	-6.09	-501.90	-137.83	-4.63	-293.25	-81.54	-22.99				
2028 Winter	-5.86	-525.71	-138.54	-4.63	-293.25	-81.54	-22.73				
2028 Daily Max	**-5.86**	**-501.90**	**-137.83**	**-4.63**	**-293.25**	**-81.54**	**-22.73**				
2033 Summer	-7.11	-562.06	-145.98	-5.35	-384.49	-106.39	-23.15				
2033 Winter	-6.82	-589.09	-146.89	-5.36	-384.49	-106.39	-22.82				
2033 Daily Max	**-6.82**	**-562.06**	**-145.98**	**-5.35**	**-384.49**	**-106.39**	**-22.82**				
2048 Summer	-7.27	-539.94	-102.68	-5.38	-447.83	-122.92	-16.32				
2048 Winter	-6.94	-567.02	-103.72	-5.38	-447.83	-122.93	-15.95				
2048 Daily Max	**-6.94**	**-539.94**	**-102.68**	**-5.38**	**-447.83**	**-122.92**	**-15.95**				

2028 Mobile Source Emissions - Truck Miles Traveled Reduction (CA Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-2,083	-627,000	-159,263	-58,130,956

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-1.09	-91.60	-25.20	-0.84	-9.04	-3.96	-4.18				
MT/Year								-2.69	-13.25	-83,401.17	-87,417.93

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-6.09	-501.90	-137.83	-4.63	-49.51	-21.71	-22.99

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-5.86	-525.71	-138.54	-4.63	-49.51	-21.71	-22.73

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2028
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV cal

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0046365	0.0028977	0.0179349	0.1201026	0.02249685	0	0	0.45308532	0
A	CH4_RUNEX	0.001699	0.0061841	0.0024614	0.003184	0.0018122	0.0006256	0.0074282	0.0447117	0.0401739	2.52598147	0.16014455	1.11188439	0.005739
A	CH4_STREX	0.050577	0.0884468	0.0622177	0.0732603	0.0179853	0.0106191	0.0092005	4.582E-08	0.02248567	0.0123938	0.15468651	0.00696017	0.024163
A	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.6311473	5.538307	0.62337374	0	0	2.85882984	0
A	CO_RUNEX	0.583421	1.3784533	0.7364651	0.8423107	0.4888163	0.1995033	0.1898517	0.3208814	0.66464292	33.1607044	11.7197899	4.26903453	0.56256
A	CO_STREX	2.228535	4.3058976	2.7169066	2.9051033	2.0177449	1.1350935	0.9822112	0.001742	2.4159062	1.14170799	7.3942871	0.86632868	1.992861
A	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	137.63701	813.94491	88.5334058	0	0	253.608165	0
A	CO2_NBIO_	237.8998	314.63923	312.54404	380.92771	330.43747	206.85307	1109.9966	1424.066	1388.45312	2023.32197	191.044648	1156.32034	1523.862
A	CO2_NBIO_	58.91092	79.607921	76.468809	92.793212	16.162957	9.3461927	9.5381357	0.0189088	20.2093246	11.1387809	43.4754522	5.48495694	20.75334
A	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6257541	4.0124067	0.31614313	0	0	1.03917543	0
A	NOX_RUNEX	0.027295	0.116372	0.049137	0.0703287	0.0597648	0.030869	0.5340786	1.4257402	0.9568571	0.36465681	0.51866154	1.88138291	1.203629
A	NOX_STREX	0.19056	0.3344146	0.2510976	0.305118	0.3452954	0.2131868	1.2518168	2.5768812	0.71791278	0.09640777	0.10976773	0.2574289	0.301005
A	PM10_IDLEX	0	0	0	0	0.0007269	0.0013138	0.0007074	0.0019356	0.00037712	0	0	0.00127373	0
A	PM10_PMBW	0.007543	0.0097124	0.0092737	0.0093454	0.0471174	0.0307896	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0050308	0.0028948	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
A	PM10_RUNEX	0.001096	0.001835	0.0012122	0.0012513	0.0006656	0.0003192	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
A	PM10_STREX	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
A	PM25_IDLEX	0	0	0	0	0.0006954	0.001257	0.0006762	0.001848	0.00036024	0	0	0.0012039	0
A	PM25_PMBW	0.00264	0.0033993	0.0032458	0.0032709	0.0164911	0.0107764	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0012577	0.0007237	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
A	PM25_RUNEX	0.001008	0.0016876	0.0011151	0.001153	0.000612	0.0002935	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
A	PM25_STREX	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
A	ROG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	ROG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0231067	0.3566242	0.0515165	0	0	0.27496857	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.006071	0.0269787	0.0092167	0.0127848	0.0087198	0.0027284	0.0136812	0.0123662	0.04219457	0.039106	1.011744	0.07015645	0.038068
A	ROG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576
A	ROG_STREX	0.219664	0.4435414	0.2735144	0.3440902	0.0857517	0.0503525	0.0475914	2.362E-07	0.11985375	0.05037558	1.12578632	0.03984838	0.092652
A	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012629	0.0073156	0.0008037	0	0	0.00134227	0
A	SO2_RUNEX	0.002352	0.0031105	0.0030894	0.0037639	0.0032667	0.002045	0.0105429	0.0130847	0.01292251	0.00186078	0.00188867	0.00713225	0.014933
A	SO2_STREX	0.000582	0.000787	0.000756	0.0009174	0.0001598	9.24E-05	9.429E-05	1.869E-07	0.00019979	0.00011012	0.0004298	5.4224E-05	0.000205
A	TOG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	TOG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0443691	0.5100506	0.08146112	0	0	0.79158923	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.008848	0.0393621	0.013432	0.0186064	0.012724	0.0039813	0.0231627	0.0584678	0.08902592	2.5812992	1.2353619	1.19798365	0.04934
A	TOG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576

A	TOG_STREX	0.240505	0.485622	0.2994638	0.3767355	0.0938873	0.0551296	0.0521065	2.586E-07	0.13122477	0.05515492	1.22449347	0.04362897	0.101443
A	N2O_IDLEX	0	0	0	0	0.0006482	0.001567	0.0210606	0.1301543	0.01236512	0	0	0.03716019	0
A	N2O_RUNE	0.003565	0.0087721	0.0050008	0.0067135	0.0035117	0.0020593	0.132444	0.2262887	0.12493604	0.37891439	0.03735335	0.14994277	0.063086
A	N2O_STREX	0.026879	0.0354256	0.0318752	0.0339207	0.0298388	0.0175245	0.0068223	3.25E-06	0.01929632	0.01021868	0.00671455	0.0066509	0.034033
S	CH4_IDLEX	0	0	0	0	0.0046521	0.0029071	0.0177963	0.1210723	0.02258659	0	0	0.45316243	0
S	CH4_RUNEX	0.001776	0.0064426	0.0025671	0.0033265	0.0012875	0.0021791	0.0074555	0.0447121	0.04025147	2.52599211	0.16100447	1.11198691	0.00585
S	CH4_STREX	0.045297	0.0787888	0.0557592	0.0654852	0.0173575	0.0102542	0.0088753	4.386E-08	0.02158846	0.01144528	0.1391153	0.006076	0.023027
S	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.5781089	5.4679591	0.61641513	0	0	2.84967757	0
S	CO_RUNEX	0.718208	1.6932961	0.9030761	1.0400228	0.0738496	0.113189	0.1925074	0.3210081	0.67326684	33.1619596	11.7788472	4.27954236	0.575059
S	CO_STREX	1.9106	3.6677137	2.3279607	2.4875592	1.9268007	1.0845151	0.9325503	0.0016548	2.27392935	0.9994205	6.64171558	0.67859067	1.867776
S	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	136.45234	804.44776	87.707516	0	0	255.786723	0
S	CO2_NBIO_	251.7437	330.81834	326.87831	396.07159	178.99335	362.72201	1110.0013	1424.0662	1388.46831	2023.32409	191.137905	1156.33919	1523.884
S	CO2_NBIO_	58.32168	78.418534	75.746889	91.996095	16.007637	9.2595423	9.453024	0.0187705	19.9669009	10.8993096	41.8745836	5.16999809	20.54085
S	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6026001	3.8250331	0.30284334	0	0	1.05910714	0
S	NOX_RUNE	0.023408	0.0998473	0.0421596	0.0603998	0.3215351	0.4767017	0.5012477	1.3457068	0.8945088	0.36242849	0.45312352	1.76052611	1.124384
S	NOX_STREX	0.177795	0.3122317	0.2343875	0.2850804	0.3308432	0.2043243	1.248341	2.5768771	0.70661379	0.09191942	0.10359484	0.25324332	0.287504
S	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0006059	0.0017163	0.00032569	0	0	0.00113779	0
S	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
S	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
S	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
S	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.000579	0.0016382	0.00031103	0	0	0.00107385	0
S	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
S	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
S	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
S	ROG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	ROG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0229842	0.3775018	0.05300481	0	0	0.27495373	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNE	0.006272	0.0278949	0.0095167	0.0132224	0.0277186	0.0469137	0.0137927	0.0123685	0.04254282	0.03913446	1.00980729	0.0706606	0.038581
S	ROG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	ROG_STREX	0.194428	0.3909159	0.2423226	0.3040224	0.0824708	0.0484475	0.0457111	2.267E-07	0.11474744	0.0462947	1.00333275	0.03476341	0.088479
S	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012518	0.0072256	0.00079588	0	0	0.0013629	0
S	SO2_RUNEX	0.002489	0.0032705	0.0032311	0.0039136	0.0016961	0.003437	0.010543	0.0130847	0.01292266	0.0018608	0.00188959	0.00713244	0.014933
S	SO2_STREX	0.000577	0.0007752	0.0007488	0.0009095	0.0001583	9.154E-05	9.345E-05	1.856E-07	0.00019739	0.00010775	0.00041397	5.1111E-05	0.000203
S	TOG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	TOG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0440153	0.5338181	0.08315544	0	0	0.79157235	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNE	0.009142	0.0406991	0.0138697	0.0192449	0.0315558	0.0534081	0.0233255	0.0584712	0.08953409	2.58134073	1.23529217	1.1987193	0.050089
S	TOG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	TOG_STREX	0.212874	0.4280037	0.2653128	0.3328663	0.0902952	0.053044	0.0500479	2.482E-07	0.125634	0.05068687	1.09138536	0.03806156	0.096873
S	N2O_IDLEX	0	0	0	0	0.0006503	0.0015682	0.0208408	0.1286581	0.01223886	0	0	0.03756424	0
S	N2O_RUNE	0.003169	0.0078236	0.0044644	0.0060575	0.0282005	0.057147	0.1321978	0.2262861	0.12424622	0.37875997	0.03397235	0.14889525	0.061963
S	N2O_STREX	0.02594	0.0342689	0.0307885	0.0328036	0.0290903	0.0171044	0.0066953	3.157E-06	0.01889593	0.01008953	0.0066013	0.00647271	0.033809
W	CH4_IDLEX	0	0	0	0	0.0046338	0.0028959	0.0181383	0.1187635	0.02239686	0	0	0.45306699	0
W	CH4_RUNEX	0.00168	0.0061139	0.0024336	0.003147	0.0012875	0.0021791	0.0074191	0.0447116	0.04015741	2.52597974	0.15979394	1.11186622	0.005714
W	CH4_STREX	0.051677	0.0905298	0.0636276	0.0749217	0.0180961	0.0106906	0.009256	4.623E-08	0.02268468	0.01254483	0.15726553	0.00716831	0.024384
W	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.7052178	5.635454	0.63298324	0	0	2.87146869	0
W	CO_RUNEX	0.540568	1.2746516	0.6817818	0.7783454	0.0738496	0.113189	0.1890562	0.3208393	0.66283321	33.1604748	11.670238	4.26707813	0.559726
W	CO_STREX	2.296387	4.4459336	2.8038419	2.9966432	2.0316029	1.1435025	0.9918149	0.0017597	2.44379739	1.163767	7.50827117	0.90383822	2.01366
W	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	139.26836	827.06001	89.6739203	0	0	250.599681	0
W	CO2_NBIO_	233.3393	309.13657	307.68354	375.83412	178.99335	362.72201	1109.9952	1424.0659	1388.44993	2023.32159	190.960868	1156.31686	1523.857
W	CO2_NBIO_	59.03655	79.868197	76.629797	92.967413	16.186868	9.3607877	9.5547915	0.0189369	20.2573814	11.1759499	43.7223036	5.54845739	20.78901
W	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6577281	4.2711608	0.3345095	0	0	1.01165069	0
W	NOX_RUNE	0.026761	0.1142876	0.0482402	0.0689981	0.3350347	0.4963825	0.5254085	1.4076911	0.94054855	0.36421597	0.50761537	1.85368095	1.183982
W	NOX_STREX	0.193066	0.3389256	0.2545273	0.3090664	0.347653	0.2148236	1.2525903	2.5768818	0.72011983	0.09706892	0.11089278	0.25857875	0.30306
W	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0008476	0.0022383	0.00044814	0	0	0.00146145	0
W	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
W	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
W	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
W	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.0008103	0.0021376	0.00042818	0	0	0.00138351	0
W	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
W	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
W	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
W	ROG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	ROG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0232886	0.3277933	0.04946122	0	0	0.27498905	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNE	0.006015	0.0267097	0.0091303	0.0126601	0.0277186	0.0469137	0.013648	0.0123655	0.04212168	0.03910132	1.01062655	0.07006968	0.037951
W	ROG_RUNL	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	ROG_STREX	0.225013	0.4548776	0.2803756	0.3527092	0.0863241	0.0507254	0.0480134	2.381E-07	0.12098573	0.05102119	1.14564156	0.04103475	0.093448

W	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012782	0.0074397	0.0008145	0	0	0.00131378	0
W	SO2_RUNEX	0.002307	0.0030561	0.0030413	0.0037135	0.0016961	0.003437	0.0105429	0.0130847	0.01292248	0.00186078	0.00188784	0.00713221	0.014933
W	SO2_STREX	0.000584	0.0007896	0.0007576	0.0009191	0.00016	9.254E-05	9.446E-05	1.872E-07	0.00020026	0.00011049	0.00043224	5.4852E-05	0.000206
W	TOG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	TOG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0448761	0.4772288	0.07912133	0	0	0.79161255	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.008767	0.0389697	0.0133059	0.0184244	0.0315558	0.0534081	0.0231143	0.0584668	0.08891955	2.58129238	1.23361459	1.19785704	0.049169
W	TOG_RUNLS	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	TOG_STREX	0.246361	0.4980337	0.306976	0.3861722	0.094514	0.0555379	0.0525686	2.607E-07	0.13246415	0.05586178	1.24608416	0.04492789	0.102314
W	N2O_IDLEX	0	0	0	0	0.0006481	0.0015669	0.0213672	0.1322206	0.01254498	0	0	0.03669138	0
W	N2O_RUNEX	0.003501	0.0086363	0.004919	0.006613	0.0282005	0.057147	0.1324024	0.2262885	0.12480486	0.37888375	0.03677335	0.14976849	0.062903
W	N2O_STREX	0.027256	0.0359635	0.032344	0.0344069	0.0300276	0.0176497	0.0068963	3.268E-06	0.01948566	0.01034286	0.00681729	0.00677143	0.03447

2033 Mobile Source Emissions - Truck Miles Traveled Reduction (CA Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-2,754	-829,218	-209,220	-76,365,405

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-1.27	-102.58	-26.71	-0.98	-11.73	-5.07	-4.20				
MT/Year								-2.53	-15.33	-96,457.44	-101,088.17

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-7.11	-562.06	-145.98	-5.35	-64.30	-27.80	-23.15

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-6.82	-589.09	-146.89	-5.36	-64.30	-27.80	-22.82

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2033
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV ca

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0037418	0.002208	0.016911	0.1061898	0.02296538	0	0	0.47210313	0
A	CH4_RUNEX	0.001264	0.003544	0.0019072	0.00224	0.0005947	0.0002509	0.0065302	0.0317808	0.04242465	0.00059684	0.15038771	1.05844964	0.003558
A	CH4_STREX	0.039445	0.0625675	0.0503533	0.0555514	0.0132448	0.0073768	0.0067874	2.273E-08	0.01874646	0.02082457	0.1410673	0.00661646	0.022035
A	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5578784	5.3176742	0.64495392	0	0	2.90152556	0
A	CO_RUNEX	0.493114	0.9189904	0.6419649	0.6903879	0.2874315	0.1404144	0.0995155	0.2472676	0.46652296	0.10986288	10.8770458	3.72843825	0.238362
A	CO_STREX	1.791266	2.9209532	2.2823173	2.3684618	1.7621085	0.9616135	0.6739165	0.0008858	2.03459728	1.84108981	7.3029789	0.76249546	1.706677
A	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	119.52469	725.46905	90.2707911	0	0	242.042321	0
A	CO2_NBIO_	215.8338	287.81827	287.18514	346.52209	263.04202	157.72382	902.39828	1253.5542	1228.39174	266.183503	189.972906	1046.48924	1506.204
A	CO2_NBIO_	52.98002	71.184508	69.601437	83.669016	13.803091	7.5609764	7.0817684	0.0099924	17.1747283	17.428765	40.0393778	5.15558136	19.32601
A	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4716468	3.6223932	0.29079758	0	0	0.69154138	0
A	NOX_RUNE	0.021102	0.0605859	0.0351744	0.0445836	0.0259082	0.0146718	0.312622	1.2103195	0.81114011	0.03172648	0.48935515	0.98218987	1.039552
A	NOX_STREX	0.163261	0.2490001	0.2160447	0.2406855	0.2627184	0.1529875	1.0106764	2.3540576	0.64361989	0.15859679	0.08992566	0.26756108	0.301261
A	PM10_IDLE	0	0	0	0	0.0006897	0.0012503	0.0003098	0.0016756	0.00031934	0	0	0.00084279	0
A	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0451479	0.0308339	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
A	PM10_PMT	0.008	0.008	0.008	0.008	0.0053275	0.0033711	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
A	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.000541	0.0002599	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
A	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
A	PM25_IDLE	0	0	0	0	0.0006599	0.0011962	0.0002957	0.001599	0.00030482	0	0	0.00078975	0
A	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0158018	0.0107919	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
A	PM25_PMT	0.002	0.002	0.002	0.002	0.0013319	0.0008428	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
A	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0004974	0.000239	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
A	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
A	ROG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	ROG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187664	0.3412702	0.05074188	0	0	0.26776331	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNE	0.004197	0.0145604	0.0066974	0.0083694	0.0023827	0.0009622	0.0071894	0.0106427	0.03053744	0.00206882	0.92434298	0.04284928	0.026384
A	ROG_RUNL	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053
A	ROG_STREX	0.164864	0.2933961	0.2125834	0.2464351	0.0603471	0.0339233	0.0342096	1.166E-07	0.10060666	0.08409658	1.00900796	0.03721438	0.080414
A	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010897	0.0065037	0.00081457	0	0	0.00114625	0
A	SO2_RUNEX	0.002134	0.0028454	0.0028387	0.003424	0.0026004	0.0015593	0.0085476	0.0115226	0.01131448	0.00263008	0.00187808	0.00617863	0.014748
A	SO2_STREX	0.000524	0.0007037	0.0006881	0.0008272	0.0001365	7.475E-05	7.001E-05	9.879E-08	0.00016979	0.0001723	0.00039583	5.0968E-05	0.000191
A	TOG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	TOG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0383619	0.4793025	0.08084464	0	0	0.80165908	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNE	0.006121	0.0212465	0.009756	0.0121819	0.0034768	0.001404	0.0146985	0.0435744	0.07732696	0.00294572	1.14189255	1.11231976	0.032802
A	TOG_RUNL	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053

A	TOG_STREX	0.180505	0.3212318	0.232752	0.2698154	0.0660725	0.0371418	0.0374552	1.276E-07	0.11015163	0.09207517	1.09800958	0.04074506	0.088043
A	N2O_IDLEX	0	0	0	0	0.0005845	0.0014444	0.0184133	0.1160881	0.01291361	0	0	0.03601507	0
A	N2O_RUNEX	0.003079	0.0057199	0.0041986	0.0051642	0.0017567	0.0011039	0.1115938	0.1991757	0.12367161	0.0034144	0.03614484	0.13262017	0.063906
A	N2O_STREX	0.024184	0.0308148	0.0298077	0.0306405	0.0239705	0.0131699	0.0049505	8.62E-07	0.01532229	0.01672297	0.00567793	0.00698526	0.034766
S	CH4_IDLEX	0	0	0	0	0.0037546	0.0022151	0.0168093	0.1071269	0.0230613	0	0	0.47219174	0
S	CH4_RUNEX	0.001321	0.0036938	0.00199	0.0023406	0.0009133	0.0016968	0.0065434	0.031781	0.0424697	0.00061218	0.15215846	1.05850268	0.003614
S	CH4_STREX	0.035346	0.0559181	0.0451543	0.0497239	0.0127897	0.0071259	0.0065514	2.176E-08	0.01800478	0.0192922	0.1277803	0.00577672	0.021017
S	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5172232	5.2515616	0.63790849	0	0	2.89595792	0
S	CO_RUNEX	0.608684	1.1280069	0.7881558	0.8519518	0.0472155	0.0844155	0.1005549	0.2473457	0.47107722	0.11209174	10.9973504	3.73332685	0.242129
S	CO_STREX	1.539839	2.4998939	1.9593026	2.0324776	1.6838601	0.9192778	0.6399119	0.0008416	1.91506796	1.61770396	6.51675699	0.59710223	1.602012
S	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	118.25831	716.76647	89.3734454	0	0	242.957765	0
S	CO2_NBIO_	228.5327	302.38337	300.36947	360.04725	158.80155	322.16779	902.40014	1253.5544	1228.39978	266.187213	190.191381	1046.49804	1506.211
S	CO2_NBIO_	52.51768	70.401849	69.007887	83.040392	13.671254	7.4895232	7.0232833	0.0099223	16.9706832	17.0522589	38.4523596	4.87719278	19.14798
S	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4513806	3.4491702	0.27840265	0	0	0.69838457	0
S	NOX_RUNEX	0.018094	0.0519862	0.0301832	0.038285	0.1760916	0.3073911	0.2938148	1.1421755	0.76126886	0.02804592	0.42820932	0.9177386	0.974513
S	NOX_STREX	0.152366	0.2324533	0.201707	0.2248926	0.2517532	0.1466336	1.0082363	2.3540566	0.63433915	0.15138053	0.08502118	0.26312979	0.287832
S	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0002704	0.0014957	0.00027807	0	0	0.00078244	0
S	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
S	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
S	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
S	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.000258	0.0014269	0.00026533	0	0	0.000732	0
S	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
S	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
S	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
S	ROG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	ROG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0188089	0.3614453	0.05240465	0	0	0.26785218	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.004338	0.0150502	0.006915	0.0086538	0.0196628	0.0365311	0.007237	0.0106436	0.03072694	0.00210912	0.93068842	0.0430923	0.026581
S	ROG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	ROG_STREX	0.14599	0.2592915	0.1884634	0.2180006	0.0580599	0.032649	0.0328608	1.119E-07	0.09632248	0.0775274	0.90687186	0.03246185	0.076853
S	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010778	0.0064213	0.00080607	0	0	0.00115491	0
S	SO2_RUNEX	0.002259	0.0029894	0.0029691	0.0035578	0.0015047	0.0030527	0.0085476	0.0115227	0.01131456	0.00263011	0.00188024	0.00617871	0.014748
S	SO2_STREX	0.000519	0.000696	0.0006822	0.0008209	0.0001352	7.404E-05	6.943E-05	9.809E-08	0.00016777	0.00016858	0.00038014	4.8216E-05	0.000189
S	TOG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	TOG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0382421	0.5022704	0.08273758	0	0	0.80176025	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.006327	0.0219611	0.0100735	0.012597	0.0223848	0.0415882	0.0147679	0.0435759	0.07760348	0.00300453	1.15122262	1.11267438	0.033089
S	TOG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	TOG_STREX	0.159841	0.2838915	0.2063437	0.2386832	0.0635683	0.0357466	0.0359784	1.225E-07	0.105461	0.08488275	0.98693366	0.03554164	0.084145
S	N2O_IDLEX	0	0	0	0	0.0005862	0.0014453	0.018189	0.114717	0.01277513	0	0	0.03621619	0
S	N2O_RUNEX	0.002735	0.0050923	0.0037467	0.0046613	0.0250192	0.0507577	0.1114602	0.1991743	0.12326252	0.00315348	0.03290722	0.13182366	0.063062
S	N2O_STREX	0.023339	0.0297738	0.0287802	0.0296038	0.0233488	0.0128421	0.0048506	8.362E-07	0.01498657	0.01651859	0.00558986	0.00679841	0.034535
W	CH4_IDLEX	0	0	0	0	0.0037395	0.0022066	0.0170612	0.1048958	0.02285461	0	0	0.47207661	0
W	CH4_RUNEX	0.001249	0.003504	0.0018857	0.0022142	0.0009133	0.0016968	0.0065256	0.0317808	0.04241494	0.00059355	0.14989315	1.05843982	0.003545
W	CH4_STREX	0.040296	0.0640079	0.0514849	0.0567994	0.0133271	0.0074261	0.0068276	2.294E-08	0.01891165	0.02114958	0.14342093	0.00681827	0.022241
W	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.6146697	5.4089726	0.65468332	0	0	2.9092142	0
W	CO_RUNEX	0.45654	0.8501888	0.5941618	0.638079	0.0472155	0.0844155	0.0992023	0.2472407	0.46553668	0.109402	10.8286973	3.72749234	0.23748
W	CO_STREX	1.844297	3.0134483	2.3539622	2.4419405	1.7743477	0.9686818	0.6806595	0.0008961	2.05817834	1.88297897	7.43254656	0.79639625	1.725038
W	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	121.27006	737.48691	91.5099829	0	0	240.778137	0
W	CO2_NBIO_	211.6622	282.86919	282.72289	341.96636	158.80155	322.16779	902.39772	1253.5542	1228.39	266.182733	189.886754	1046.48755	1506.203
W	CO2_NBIO_	53.07757	71.356127	69.732899	83.806206	13.82389	7.5730345	7.0935096	0.0100089	17.2153539	17.4999455	40.3036755	5.21318087	19.35752
W	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4996329	3.8616059	0.30791437	0	0	0.68209126	0
W	NOX_RUNEX	0.020688	0.0594952	0.0345248	0.0437325	0.1834248	0.3200164	0.3075642	1.1953365	0.79762734	0.0310619	0.47878684	0.96792374	1.022549
W	NOX_STREX	0.165391	0.2523816	0.2189741	0.2438142	0.264539	0.154157	1.0112385	2.3540577	0.64543441	0.16002593	0.09084561	0.26879325	0.303414
W	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003643	0.001924	0.00037634	0	0	0.00092614	0
W	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
W	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
W	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
W	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0003479	0.0018367	0.00035936	0	0	0.00086949	0
W	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
W	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
W	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
W	ROG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	ROG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187177	0.3134092	0.04844567	0	0	0.26764059	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNEX	0.004158	0.0144187	0.0066354	0.0082897	0.0196628	0.0365311	0.0071752	0.0106423	0.03049674	0.00205994	0.92196934	0.04280573	0.026338
W	ROG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	ROG_STREX	0.168854	0.3007958	0.2178775	0.252568	0.0607578	0.0341743	0.0345198	1.175E-07	0.10156228	0.08550056	1.02665939	0.03834862	0.081123

W	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0011062	0.0066175	0.0008263	0	0	0.00113427	0
W	SO2_RUNEX	0.002092	0.0027964	0.0027946	0.003379	0.0015047	0.0030527	0.0085476	0.0115226	0.01131446	0.00263007	0.00187722	0.00617861	0.014748
W	SO2_STREX	0.000525	0.0007054	0.0006894	0.0008285	0.0001367	7.487E-05	7.013E-05	9.895E-08	0.00017019	0.000173	0.00039844	5.1538E-05	0.000191
W	TOG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	TOG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0385418	0.4475849	0.07823058	0	0	0.80151936	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.006065	0.0210396	0.0096655	0.0120657	0.0223848	0.0415882	0.0146778	0.0435739	0.07726758	0.00293276	1.1387096	1.11225621	0.032736
W	TOG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	TOG_STREX	0.184874	0.3293335	0.2385484	0.2765301	0.0665221	0.0374165	0.0377949	1.286E-07	0.11119791	0.09361236	1.11721345	0.04198692	0.088819
W	N2O_IDLEX	0	0	0	0	0.0005844	0.0014444	0.0187253	0.1179815	0.01310893	0	0	0.0358206	0
W	N2O_RUNEX	0.003023	0.0056267	0.0041282	0.0050854	0.0250192	0.0507577	0.1115715	0.1991756	0.12359308	0.00336586	0.03557934	0.13249055	0.063766
W	N2O_STREX	0.02452	0.0312715	0.0302371	0.0310715	0.0241158	0.0132596	0.005002	8.668E-07	0.01546582	0.01694626	0.00576523	0.00711186	0.035221

2048 Mobile Source Emissions - Truck Miles Traveled Reduction (CA Only)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-3,198	-962,697	-244,880	-89,381,289

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-1.30	-98.54	-18.82	-0.98	-13.33	-5.65	-2.95				
MT/Year								-1.38	-15.21	-95,972.71	-100,538.73

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-7.27	-539.94	-102.68	-5.38	-73.07	-30.94	-16.32

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-6.94	-567.02	-103.72	-5.38	-73.07	-30.94	-15.95

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2048
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV c

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0019873	0.0010262	0.0097357	0.0706447	0.02364998	0	0	0.2684817	0
A	CH4_RUNEX	0.0009	0.0011035	0.0013503	0.0013653	0.000141	6.364E-05	0.004079	0.014525	0.0452154	6.7515E-05	0.1403424	0.5555245	0.0023754
A	CH4_STREX	0.026822	0.0313992	0.03715	0.0368657	0.006345	0.0029123	0.0027351	3.515E-10	0.01017549	0.00240648	0.1199415	0.003515	0.0208086
A	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3305343	5.0618632	0.64197356	0	0	1.9171505	0
A	CO_RUNEX	0.424451	0.5139449	0.5596761	0.568615	0.1632086	0.0817108	0.0368767	0.1248818	0.23940162	0.04152292	10.001238	1.6209778	0.1325558
A	CO_STREX	1.325305	1.5421931	1.849198	1.8295686	1.11089	0.5819278	0.2398708	0.000379	0.86432696	0.46224847	7.1781794	0.3960736	1.4365604
A	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	67.454098	644.00022	85.3439537	0	0	143.50791	0
A	CO2_NBIO_	197.9221	254.32138	263.62476	313.26517	148.33855	82.852448	495.70442	1065.3347	976.808189	50.5478821	188.98017	584.97178	1495.1095
A	CO2_NBIO_	46.99377	60.228738	62.4617	73.957111	8.0058798	4.1093515	2.721739	0.003412	9.56692808	2.78632352	34.704901	2.615754	18.126716
A	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2199642	3.3197309	0.18082849	0	0	0.1942225	0
A	NOX_RUNEX	0.016075	0.0196333	0.0205019	0.021022	0.0048519	0.0031825	0.1015488	0.9894575	0.47776538	0.0031522	0.4588034	0.1217048	0.7942626
A	NOX_STREX	0.132911	0.1625428	0.1821653	0.1859778	0.1306962	0.0579797	0.5076396	1.9728258	0.45036194	0.02303497	0.0589122	0.1555207	0.2179325
A	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.000101	0.0014933	0.00018062	0	0	0.0004263	0
A	PM10_PMBW	0.007351	0.0093982	0.0092263	0.0092721	0.0420858	0.0346159	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.0429027
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0062352	0.0048987	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
A	PM10_RUNI	0.000451	0.000552	0.0005332	0.0005208	0.0003246	0.0001606	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.0080517
A	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.0002279
A	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	9.609E-05	0.0014253	0.00017181	0	0	0.0003933	0
A	PM25_PMBW	0.002573	0.0032894	0.0032292	0.0032452	0.01473	0.0121156	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.0150159
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0015588	0.0012247	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.0033605
A	PM25_RUNI	0.000415	0.0005076	0.0004909	0.0004793	0.0002985	0.0001476	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.0076774
A	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.0002096
A	ROG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.917699
A	ROG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.7135472
A	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0098131	0.3294671	0.04529906	0	0	0.1481811	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.002596	0.0032385	0.0041061	0.0041899	0.0004581	0.0002037	0.0026534	0.0089024	0.00817585	0.00068057	0.8338801	0.0119226	0.0172092
A	ROG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.0006651
A	ROG_STREX	0.100766	0.1194998	0.1443756	0.1445319	0.0271807	0.012367	0.0133843	1.849E-09	0.05250109	0.0075255	0.8287868	0.0195671	0.0712205
A	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006105	0.0058701	0.00075599	0	0	0.0005598	0
A	SO2_RUNEX	0.001957	0.0025142	0.0026058	0.0030956	0.0014665	0.0008191	0.004673	0.009893	0.00879849	0.00043165	0.0018683	0.0032734	0.0146314
A	SO2_STREX	0.000465	0.0005954	0.0006175	0.0007311	7.915E-05	4.063E-05	2.691E-05	3.373E-08	9.4579E-05	2.7546E-05	0.0003431	2.586E-05	0.0001792
A	TOG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.917699
A	TOG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.7135472
A	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0208798	0.4306907	0.07473656	0	0	0.4508668	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.003787	0.0047256	0.0059744	0.0060968	0.0006685	0.0002973	0.0070356	0.0243195	0.05447142	0.00080586	1.0445644	0.5716777	0.0211752

A	TOG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.0006651
A	TOG_STREX	0.110326	0.1308372	0.1580731	0.1582442	0.0297595	0.0135403	0.0146541	2.024E-09	0.05748209	0.00823947	0.9027332	0.0214235	0.0779775
A	N2O_IDLEX	0	0	0	0	0.000373	0.0009765	0.0105187	0.1025785	0.01280725	0	0	0.0225602	0
A	N2O_RUNEX	0.002683	0.0031412	0.0033373	0.0037209	0.0004806	0.000336	0.0670232	0.1687894	0.12219135	0.00167792	0.0349394	0.0751476	0.0689942
A	N2O_STREX	0.021385	0.0253868	0.0279952	0.0279914	0.0129719	0.0058643	0.0024636	5.311E-06	0.00876862	0.00407059	0.0040474	0.0030756	0.0254564
S	CH4_IDLEX	0	0	0	0	0.0019942	0.0010294	0.009699	0.0715568	0.02374987	0	0	0.2685372	0
S	CH4_RUNEX	0.000941	0.0011525	0.0014109	0.0014273	0.0004298	0.0009516	0.0040822	0.0145251	0.04522315	6.857E-05	0.1431366	0.5555391	0.0024114
S	CH4_STREX	0.024049	0.02822	0.0333348	0.0330704	0.0061312	0.0028146	0.0026416	3.364E-10	0.00978202	0.00224655	0.1103221	0.0030772	0.0198964
S	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3124953	4.9989777	0.63549633	0	0	1.9157601	0
S	CO_RUNEX	0.526203	0.6313024	0.6898292	0.7020131	0.0176112	0.0395445	0.0370639	0.1249126	0.23996969	0.04233245	10.195289	1.622076	0.1346211
S	CO_STREX	1.144845	1.3328818	1.5924287	1.575563	1.0623325	0.5566078	0.2278083	0.0003598	0.81387417	0.41114757	6.3447885	0.3113428	1.3523246
S	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	66.594006	635.88628	84.3844672	0	0	143.1102	0
S	CO2_NBIO_	209.7726	267.06358	275.85122	325.36809	102.01103	209.13287	495.70475	1065.3347	976.809195	50.5491751	189.34778	584.97378	1495.1132
S	CO2_NBIO_	46.66898	59.851939	61.99964	73.499208	7.9254388	4.0676388	2.7008324	0.0033816	9.47940362	2.70341972	33.151628	2.473074	17.982888
S	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2090109	3.1560605	0.17251087	0	0	0.1897906	0
S	NOX_RUNEX	0.013788	0.0168455	0.0176041	0.0180582	0.033789	0.0869449	0.095606	0.9331528	0.44914693	0.0028794	0.4022855	0.1126812	0.7406488
S	NOX_STREX	0.124124	0.1517536	0.1701957	0.1737892	0.1252783	0.0555748	0.5063614	1.9728211	0.44487684	0.02201064	0.0559803	0.1537183	0.2083972
S	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	9.125E-05	0.0013367	0.00016295	0	0	0.0004224	0
S	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.0429027
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
S	PM10_RUNI	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.0080517
S	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.0002279
S	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	8.678E-05	0.0012755	0.00015491	0	0	0.0003896	0
S	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.0150159
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.0033605
S	PM25_RUNI	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.0076774
S	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.0002096
S	ROG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.516517
S	ROG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.7799478
S	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0099685	0.3491043	0.04717647	0	0	0.1483356	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.002685	0.0033447	0.0042411	0.0043297	0.0092534	0.0204877	0.0026629	0.0089027	0.00820006	0.00068257	0.8497022	0.0119809	0.0173185
S	ROG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.0006674
S	ROG_STREX	0.089318	0.1061971	0.1281079	0.128196	0.0261695	0.0119089	0.0128581	1.775E-09	0.05027669	0.00698241	0.7594405	0.017114	0.0681922
S	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006024	0.0057932	0.00074691	0	0	0.000556	0
S	SO2_RUNEX	0.002074	0.0026402	0.0027267	0.0032152	0.0009666	0.0019816	0.004673	0.009893	0.0087985	0.00043167	0.0018719	0.0032734	0.0146315
S	SO2_STREX	0.000461	0.0005917	0.0006129	0.0007266	7.835E-05	4.021E-05	2.67E-05	3.343E-08	9.3714E-05	2.6726E-05	0.0003277	2.445E-05	0.0001778
S	TOG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.516517
S	TOG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.7799478
S	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0209846	0.4530461	0.07687384	0	0	0.4510427	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.003917	0.0048806	0.0061715	0.0063007	0.0105344	0.0233239	0.0070494	0.02432	0.05450676	0.00080877	1.0646669	0.5717628	0.0213348
S	TOG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.0006674
S	TOG_STREX	0.097792	0.1162724	0.140262	0.1403585	0.0286524	0.0130388	0.014078	1.943E-09	0.05504665	0.00764486	0.827228	0.0187377	0.0746618
S	N2O_IDLEX	0	0	0	0	0.0003738	0.0009769	0.0103737	0.1013002	0.01265757	0	0	0.0225224	0
S	N2O_RUNEX	0.002383	0.0027871	0.0029765	0.0033597	0.0160719	0.032949	0.066988	0.1687889	0.12196613	0.00165247	0.0318497	0.0748783	0.0679433
S	N2O_STREX	0.020643	0.0244967	0.0270167	0.0270111	0.0126226	0.0057121	0.0024046	5.232E-06	0.00855446	0.00400686	0.0039998	0.0029875	0.025313
W	CH4_IDLEX	0	0	0	0	0.001986	0.0010257	0.0097906	0.0693852	0.02352679	0	0	0.26846	0
W	CH4_RUNEX	0.00089	0.0010909	0.0013348	0.0013494	0.0004298	0.0009516	0.0040779	0.014525	0.04521371	6.7305E-05	0.1396785	0.5555216	0.0023661
W	CH4_STREX	0.027394	0.0320882	0.0379751	0.0376844	0.0063855	0.0029314	0.0027522	3.545E-10	0.01026277	0.00244082	0.1219103	0.0036216	0.0210124
W	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3557232	5.1487051	0.65091831	0	0	1.9190706	0
W	CO_RUNEX	0.392459	0.4756083	0.5174105	0.5253745	0.0176112	0.0395445	0.0368209	0.1248725	0.23927512	0.0413592	9.9527928	1.6207436	0.1320193
W	CO_STREX	1.362344	1.5873766	1.9053242	1.8849364	1.1187113	0.5861338	0.2424969	0.0003831	0.874239	0.47198909	7.3320793	0.4133825	1.4529419
W	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	68.640547	655.20518	86.6689588	0	0	144.05713	0
W	CO2_NBIO_	194.042	250.00176	259.49869	309.18342	102.01103	209.13287	495.70432	1065.3347	976.807965	50.5476206	188.88878	584.97136	1495.1085
W	CO2_NBIO_	47.06061	60.310211	62.562699	74.05693	8.0189346	4.1163281	2.7263483	0.0034185	9.58431806	2.80217603	34.995634	2.6452225	18.154955
W	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2350899	3.5457519	0.19231472	0	0	0.2003429	0
W	NOX_RUNEX	0.015758	0.0192632	0.0201131	0.0206227	0.0351249	0.0904172	0.0999428	0.9782188	0.46987215	0.00309574	0.4487416	0.1198985	0.7804354
W	NOX_STREX	0.13461	0.1647592	0.1845777	0.1884217	0.1316158	0.0584178	0.5079507	1.9728268	0.45142741	0.02319678	0.0595034	0.1560155	0.2197272
W	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.0001144	0.0017095	0.00020502	0	0	0.0004317	0
W	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.0429027
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
W	PM10_RUNI	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.0080517
W	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.0002279
W	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	0.000109	0.0016322	0.00019516	0	0	0.0003984	0
W	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.0150159
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.0033605
W	PM25_RUNI	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.0076774
W	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.0002096
W	ROG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.873392
W	ROG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.7059236
W	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0096028	0.302349	0.04270645	0	0	0.1479677	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNEX	0.002572	0.0032084	0.004068	0.0041505	0.0092534	0.0204877	0.0026506	0.0089022	0.00817051	0.00068017	0.8300197	0.0119109	0.0171809

W	ROG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	ROG_STREX	0.103169	0.1224115	0.1479312	0.1480943	0.0273728	0.0124571	0.013516	1.864E-09	0.05299607	0.00764383	0.8427572	0.020164	0.0718894
W	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006217	0.0059762	0.00076854	0	0	0.000565	0
W	SO2_RUNEX	0.001918	0.0024715	0.002565	0.0030552	0.0009666	0.0019816	0.004673	0.009893	0.00879849	0.00043165	0.0018674	0.0032734	0.0146314
W	SO2_STREX	0.000465	0.0005962	0.0006185	0.0007321	7.928E-05	4.069E-05	2.695E-05	3.379E-08	9.4751E-05	2.7702E-05	0.000346	2.615E-05	0.0001795
W	TOG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.873392
W	TOG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.7059236
W	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0207413	0.3998188	0.07178507	0	0	0.4506238	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.003752	0.0046817	0.0059188	0.0060393	0.0105344	0.0233239	0.0070315	0.0243193	0.05446363	0.00080528	1.0396779	0.5716606	0.021134
W	TOG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	TOG_STREX	0.112957	0.1340251	0.161966	0.1621447	0.0299697	0.013639	0.0147983	2.041E-09	0.05802403	0.00836903	0.9179477	0.022077	0.0787099
W	N2O_IDLEX	0	0	0	0	0.0003729	0.0009764	0.0107196	0.1043439	0.01301602	0	0	0.0226485	0
W	N2O_RUNEX	0.002634	0.0030846	0.003279	0.0036623	0.0160719	0.032949	0.0670177	0.1687893	0.12214964	0.00167261	0.0343897	0.0751039	0.0688177
W	N2O_STREX	0.021676	0.0257483	0.0283804	0.0283709	0.0130457	0.0059018	0.0024861	5.373E-06	0.00884113	0.00411449	0.0041104	0.0031293	0.0258208

Paved Road Dust Calculations (EPA AP-42 13.2.1, equation 2)
Truck Miles Traveled Reduction (CA Only)

E = (k*(sL)^0.91*(W)^1.02)*(1-P/4N)

	PM_{10}	$PM_{2.5}$	
E =			emission factor
k =	0.0022	0.00054	particle size multiplier (lb/vmt)
sL =	0.03	0.03	surface silt loading (CARB Miscellaneous Process Methodology 7.9, Entrained Road Travel, Paved Road Dust, November 2016)
W HHD =	16	16	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
W worker =	2.7	2.7	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
P =	0	0	Number of days per year with >0.01 inches of rain (Source: WRCC data for Barstow,https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabars+sca)
N =	365	365	Days per period

	lb/vmt		**g/vmt**	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	0.00153	0.00038	0.6941785	0.1703893
Vendor	0.00066	0.00016	0.2987231	0.0733229
Worker	0.00025	0.00006	0.1130472	0.027748

				2028				**2033**				**2048**			
	2028	**2033**	**2048**	**lbs/day**		**tons/year**		**lbs/day**		**tons/year**		**lbs/day**		**tons/year**	
Vehicle Type	**VMT/year**	**VMT/year**	**VMT/year**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	-58,130,956	-76,365,405	-89,381,289	-243.7	-59.83	-44.48	-10.92	-320.2	-78.59	-58.43	-14.34	-374.8	-91.99	-68.39	-16.79
Total	**-58,130,956**	**-76,365,405**	**-89,381,289**	**-243.7**	**-59.83**	**-44.48**	**-10.92**	**-320.2**	**-78.59**	**-58.43**	**-14.34**	**-374.8**	**-91.99**	**-68.39**	**-16.79**

Mobile Source Emissions Summary - Truck Miles Traveled Reduction (Regional plus National)

			ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2028 Annual	Trucks	Exhaust & BW/TW	-3.22	-327.54	-80.88	-3.15	-33.85	-14.84	-14.40	-9.81	-49.37	-310,706.90	-325,665.38
(Tons/Year)		Dust					-166.68	-40.91					
(MT/yr for GHG)		**Annual Total**	**-3.22**	**-327.54**	**-80.88**	**-3.15**	**-200.53**	**-55.75**	-14.40	-9.81	-49.37	-310,706.90	**-325,665.38**
2028 Summer	Trucks	Exhaust & BW/TW	-17.73	-1,794.76	-443.06	-17.24	-185.50	-81.32	-78.98				
(Pounds/Day)		Dust					-913.31	-224.18					
		Summer Total	**-17.73**	**-1,794.76**	**-443.06**	**-17.24**	**-1,098.82**	**-305.50**	-78.98				
2028 Winter	Trucks	Exhaust & BW/TW	-17.54	-1,878.00	-443.47	-17.24	-185.51	-81.33	-78.76				
(Pounds/Day)		Dust					-913.31	-224.18					
		Winter Total	**-17.54**	**-1,878.00**	**-443.47**	**-17.24**	**-1,098.82**	**-305.50**	-78.76				

			ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2033 Annual	Trucks	Exhaust & BW/TW	-3.67	-365.78	-82.90	-3.64	-43.99	-19.02	-14.19	-9.19	-57.12	-359,509.53	-376,761.79
(Tons/Year)		Dust					-219.09	-53.78					
(MT/yr for GHG)		**Annual Total**	**-3.67**	**-365.78**	**-82.90**	**-3.64**	**-263.08**	**-72.79**	**-14.19**	**-9.19**	**-57.12**	**-359,509.53**	**-376,761.79**
2033 Summer	Trucks	Exhaust & BW/TW	-20.23	-2,004.28	-454.05	-19.96	-241.05	-104.20	-77.89				
(Pounds/Day)		Dust					-1200.47	-294.66					
		Summer Total	**-20.23**	**-2,004.28**	**-454.05**	**-19.96**	**-1,441.52**	**-398.86**	**-77.89**				
2033 Winter	Trucks	Exhaust & BW/TW	-19.99	-2,098.28	-454.66	-19.96	-241.05	-104.20	-77.61				
(Pounds/Day)		Dust					-1200.47	-294.66					
		Winter Total	**-19.99**	**-2,098.28**	**-454.66**	**-19.96**	**-1,441.52**	**-398.86**	**-77.61**				

			ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$	TOG	CH_4	N_2O	CO_2	CO_2e
2048 Annual	Trucks	Exhaust & BW/TW	-3.62	-348.10	-51.23	-3.64	-49.69	-21.04	-9.39	-4.91	-56.33	-355,507.62	-372,415.56
(Tons/Year)		Dust					-254.91	-62.57					
(MT/yr for GHG)		**Annual Total**	**-3.62**	**-348.10**	**-51.23**	**-3.64**	**-304.60**	**-83.60**	**-9.39**	**-4.91**	**-56.33**	**-355,507.62**	**-372,415.56**
2048 Summer	Trucks	Exhaust & BW/TW	-19.95	-1,907.41	-280.41	-19.94	-272.29	-115.27	-51.57				
(Pounds/Day)		Dust					-1396.75	-342.84					
		Summer Total	**-19.95**	**-1,907.41**	**-280.41**	**-19.94**	**-1669.03**	**-458.11**	**-51.57**				
2048 Winter	Trucks	Exhaust & BW/TW	-19.67	-2,000.35	-281.20	-19.94	-272.29	-115.27	-51.26				
(Pounds/Day)		Dust					-1396.75	-342.84					
		Winter Total	**-19.67**	**-2,000.35**	**-281.20**	**-19.94**	**-1669.04**	**-458.11**	**-51.26**				

									MT/Year
Tons/Year	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**			**CO_2e**
2028 Trucks	-3.22	-327.54	-80.88	-3.15	-200.53	-55.75			-325,665.38
2033 Trucks	-3.67	-365.78	-82.90	-3.64	-263.08	-72.79			-376,761.79
2048 Trucks	-3.62	-348.10	-51.23	-3.64	-304.60	-83.60			-372,415.56
Pounds/Day	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**			
2028 Trucks	-17.54	-1,794.76	-443.06	-17.24	-1,098.82	-305.50			
2033 Trucks	-19.99	-2,004.28	-454.05	-19.96	-1,441.52	-398.86			
2048 Trucks	-19.67	-1,907.41	-280.41	-19.94	-1,669.03	-458.11			

Overall Total

				Tons/Year				MT/Year		
	ROG	**NO_x**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	TOG	CH_4	N_2O	CO_2	CO_2e
2028 Annual	-3.22	-327.54	-80.88	-3.15	-200.53	-55.75	-14.40	-9.81	-49.37	-310,706.90	-325,665.38
2033 Annual	-3.67	-365.78	-82.90	-3.64	-263.08	-72.79	-14.19	-9.19	-57.12	-359,509.53	-376,761.79
2048 Annual	-3.62	-348.10	-51.23	-3.64	-304.60	-83.60	-9.39	-4.91	-56.33	-355,507.62	-372,415.56
				Pounds/Day							
2028 Summer	-17.73	-1,794.76	-443.06	-17.24	-1,098.82	-305.50	-78.98				
2028 Winter	-17.54	-1,878.00	-443.47	-17.24	-1,098.82	-305.50	-78.76				
2028 Daily Max	**-17.54**	**-1,794.76**	**-443.06**	**-17.24**	**-1,098.82**	**-305.50**	**-78.76**				
2033 Summer	-20.23	-2,004.28	-454.05	-19.96	-1,441.52	-398.86	-77.89				
2033 Winter	-19.99	-2,098.28	-454.66	-19.96	-1,441.52	-398.86	-77.61				
2033 Daily Max	**-19.99**	**-2,004.28**	**-454.05**	**-19.96**	**-1,441.52**	**-398.86**	**-77.61**				
2048 Summer	-19.95	-1,907.41	-280.41	-19.94	-1,669.03	-458.11	-51.57				
2048 Winter	-19.67	-2,000.35	-281.20	-19.94	-1,669.04	-458.11	-51.26				
2048 Daily Max	**-19.67**	**-1,907.41**	**-280.41**	**-19.94**	**-1,669.03**	**-458.11**	**-51.26**				

2028 Mobile Source Emissions - Truck Miles Traveled Reduction (Regional + National)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-1,718	-627,000	-596,780	-217,824,523

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-3.22	-327.54	-80.88	-3.15	-33.85	-14.84	-14.40				
MT/Year								-9.81	-49.37	-310,706.90	-325,665.38

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-17.73	-1,794.76	-443.06	-17.24	-185.50	-81.32	-78.98

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-17.54	-1,878.00	-443.47	-17.24	-185.51	-81.33	-78.76

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2028
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV cal

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0046365	0.0028977	0.0179349	0.1201026	0.02249685	0	0	0.45308532	0
A	CH4_RUNEX	0.001699	0.0061841	0.0024614	0.003184	0.0018122	0.0006256	0.0074282	0.0447117	0.0401739	2.52598147	0.16014455	1.11188439	0.005739
A	CH4_STREX	0.050577	0.0884468	0.0622177	0.0732603	0.0179853	0.0106191	0.0092005	4.582E-08	0.02248567	0.0123938	0.15468651	0.00696017	0.024163
A	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.6311473	5.538307	0.62337374	0	0	2.85882984	0
A	CO_RUNEX	0.583421	1.3784533	0.7364651	0.8423107	0.4888163	0.1995033	0.1898517	0.3208814	0.66464292	33.1607044	11.7197899	4.26903453	0.56256
A	CO_STREX	2.228535	4.3058976	2.7169066	2.9051033	2.0177449	1.1350935	0.9822112	0.001742	2.4159062	1.14170799	7.3942871	0.86632868	1.992861
A	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	137.63701	813.94491	88.5334058	0	0	253.608165	0
A	CO2_NBIO_	237.8998	314.63923	312.54404	380.92771	330.43747	206.85307	1109.9966	1424.066	1388.45312	2023.32197	191.044648	1156.32034	1523.862
A	CO2_NBIO_	58.91092	79.607921	76.468809	92.793212	16.162957	9.3461927	9.5381357	0.0189088	20.2093246	11.1387809	43.4754522	5.48495694	20.75334
A	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6257541	4.0124067	0.31614313	0	0	1.03917543	0
A	NOX_RUNEX	0.027295	0.116372	0.049137	0.0703287	0.0597648	0.030869	0.5340786	1.4257402	0.9568571	0.36465681	0.51866154	1.88138291	1.203629
A	NOX_STREX	0.19056	0.3344146	0.2510976	0.305118	0.3452954	0.2131868	1.2518168	2.5768812	0.71791278	0.09640777	0.10976773	0.2574289	0.301005
A	PM10_IDLEX	0	0	0	0	0.0007269	0.0013138	0.0007074	0.0019356	0.00037712	0	0	0.00127373	0
A	PM10_PMBW	0.007543	0.0097124	0.0092737	0.0093454	0.0471174	0.0307896	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0050308	0.0028948	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
A	PM10_RUNEX	0.001096	0.001835	0.0012122	0.0012513	0.0006656	0.0003192	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
A	PM10_STREX	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
A	PM25_IDLEX	0	0	0	0	0.0006954	0.001257	0.0006762	0.001848	0.00036024	0	0	0.0012039	0
A	PM25_PMBW	0.00264	0.0033993	0.0032458	0.0032709	0.0164911	0.0107764	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0012577	0.0007237	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
A	PM25_RUNEX	0.001008	0.0016876	0.0011151	0.001153	0.000612	0.0002935	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
A	PM25_STREX	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
A	ROG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	ROG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0231067	0.3566242	0.0515165	0	0	0.27496857	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.006071	0.0269787	0.0092167	0.0127848	0.0087198	0.0027284	0.0136812	0.0123662	0.04219457	0.039106	1.011744	0.07015645	0.038068
A	ROG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576
A	ROG_STREX	0.219664	0.4435414	0.2735144	0.3440902	0.0857517	0.0503525	0.0475914	2.362E-07	0.11985375	0.05037558	1.12578632	0.03984838	0.092652
A	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012629	0.0073156	0.0008037	0	0	0.00134227	0
A	SO2_RUNEX	0.002352	0.0031105	0.0030894	0.0037639	0.0032667	0.002045	0.0105429	0.0130847	0.01292251	0.00186078	0.00188867	0.00713225	0.014933
A	SO2_STREX	0.000582	0.000787	0.000756	0.0009174	0.0001598	9.24E-05	9.429E-05	1.869E-07	0.00019979	0.00011012	0.0004298	5.4224E-05	0.000205
A	TOG_DIURN	0.276544	0.6565244	0.2690887	0.3512742	0.1086194	0.0674933	0.0273877	9.165E-05	0.1242737	0.01691845	2.12623011	0.07121671	27.36494
A	TOG_HTSK	0.073404	0.1654291	0.0681302	0.0833808	0.0252154	0.0150126	0.0060167	2.303E-05	0.0258476	0.00472613	3.60529789	0.01458279	6.350779
A	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0443691	0.5100506	0.08146112	0	0	0.79158923	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.008848	0.0393621	0.013432	0.0186064	0.012724	0.0039813	0.0231627	0.0584678	0.08902592	2.5812992	1.2353619	1.19798365	0.04934
A	TOG_RUNLS	0.022567	0.0577453	0.021878	0.0301906	0.0508403	0.0292105	0.0150593	2.351E-05	0.04302089	0.00050426	1.20724661	0.01724765	0.001576

A	TOG_STREX	0.240505	0.485622	0.2994638	0.3767355	0.0938873	0.0551296	0.0521065	2.586E-07	0.13122477	0.05515492	1.22449347	0.04362897	0.101443
A	N2O_IDLEX	0	0	0	0	0.0006482	0.001567	0.0210606	0.1301543	0.01236512	0	0	0.03716019	0
A	N2O_RUNE	0.003565	0.0087721	0.0050008	0.0067135	0.0035117	0.0020593	0.132444	0.2262887	0.12493604	0.37891439	0.03735335	0.14994277	0.063086
A	N2O_STREX	0.026879	0.0354256	0.0318752	0.0339207	0.0298388	0.0175245	0.0068223	3.25E-06	0.01929632	0.01021868	0.00671455	0.0066509	0.034033
S	CH4_IDLEX	0	0	0	0	0.0046521	0.0029071	0.0177963	0.1210723	0.02258659	0	0	0.45316243	0
S	CH4_RUNEX	0.001776	0.0064426	0.0025671	0.0033265	0.0012875	0.0021791	0.0074555	0.0447121	0.04025147	2.52599211	0.16100447	1.11198691	0.00585
S	CH4_STREX	0.045297	0.0787888	0.0557592	0.0654852	0.0173575	0.0102542	0.0088753	4.386E-08	0.02158846	0.01144528	0.1391153	0.006076	0.023027
S	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.5781089	5.4679591	0.61641513	0	0	2.84967757	0
S	CO_RUNEX	0.718208	1.6932961	0.9030761	1.0400228	0.0738496	0.113189	0.1925074	0.3210081	0.67326684	33.1619596	11.7788472	4.27954236	0.575059
S	CO_STREX	1.9106	3.6677137	2.3279607	2.4875592	1.9268007	1.0845151	0.9325503	0.0016548	2.27392935	0.9994205	6.64171558	0.67859067	1.867776
S	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	136.45234	804.44776	87.707516	0	0	255.786723	0
S	CO2_NBIO_	251.7437	330.81834	326.87831	396.07159	178.99335	362.72201	1110.0013	1424.0662	1388.46831	2023.32409	191.137905	1156.33919	1523.884
S	CO2_NBIO_	58.32168	78.418534	75.746889	91.996095	16.007637	9.2595423	9.453024	0.0187705	19.9669009	10.8993096	41.8745836	5.16999809	20.54085
S	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6026001	3.8250331	0.30284334	0	0	1.05910714	0
S	NOX_RUNE	0.023408	0.0998473	0.0421596	0.0603998	0.3215351	0.4767017	0.5012477	1.3457068	0.8945088	0.36242849	0.45312352	1.76052611	1.124384
S	NOX_STREX	0.177795	0.3122317	0.2343875	0.2850804	0.3308432	0.2043243	1.248341	2.5768771	0.70661379	0.09191942	0.10359484	0.25324332	0.287504
S	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0006059	0.0017163	0.00032569	0	0	0.00113779	0
S	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
S	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
S	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
S	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.000579	0.0016382	0.00031103	0	0	0.00107385	0
S	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
S	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
S	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
S	ROG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	ROG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0229842	0.3775018	0.05300481	0	0	0.27495373	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNE	0.006272	0.0278949	0.0095167	0.0132224	0.0277186	0.0469137	0.0137927	0.0123685	0.04254282	0.03913446	1.00980729	0.0706606	0.038581
S	ROG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	ROG_STREX	0.194428	0.3909159	0.2423226	0.3040224	0.0824708	0.0484475	0.0457111	2.267E-07	0.11474744	0.0462947	1.00333275	0.03476341	0.088479
S	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012518	0.0072256	0.00079588	0	0	0.0013629	0
S	SO2_RUNEX	0.002489	0.0032705	0.0032311	0.0039136	0.0016961	0.003437	0.010543	0.0130847	0.01292266	0.0018608	0.00188959	0.00713244	0.014933
S	SO2_STREX	0.000577	0.0007752	0.0007488	0.0009095	0.0001583	9.154E-05	9.345E-05	1.856E-07	0.00019739	0.00010775	0.00041397	5.1111E-05	0.000203
S	TOG_DIURN	0.324083	0.7829361	0.3119312	0.4039515	0.1257235	0.0767556	0.0325116	0.0001151	0.14515816	0.02221326	2.80259196	0.08346929	32.33497
S	TOG_HTSK	0.077202	0.1755096	0.0715833	0.0876274	0.0266235	0.0157689	0.0063163	2.45E-05	0.02705718	0.00499929	3.72371429	0.01521261	6.748404
S	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0440153	0.5338181	0.08315544	0	0	0.79157235	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNE	0.009142	0.0406991	0.0138697	0.0192449	0.0315558	0.0534081	0.0233255	0.0584712	0.08953409	2.58134073	1.23529217	1.1987193	0.050089
S	TOG_RUNL	0.022888	0.0587154	0.0221761	0.0305729	0.0517218	0.0296003	0.0152602	2.404E-05	0.04341797	0.00051062	1.21282577	0.01725371	0.001605
S	TOG_STREX	0.212874	0.4280037	0.2653128	0.3328663	0.0902952	0.053044	0.0500479	2.482E-07	0.125634	0.05068687	1.09138536	0.03806156	0.096873
S	N2O_IDLEX	0	0	0	0	0.0006503	0.0015682	0.0208408	0.1286581	0.01223886	0	0	0.03756424	0
S	N2O_RUNE	0.003169	0.0078236	0.0044644	0.0060575	0.0282005	0.057147	0.1321978	0.2262861	0.12424622	0.37875997	0.03397235	0.14889525	0.061963
S	N2O_STREX	0.02594	0.0342689	0.0307885	0.0328036	0.0290903	0.0171044	0.0066953	3.157E-06	0.01889593	0.01008953	0.0066013	0.00647271	0.033809
W	CH4_IDLEX	0	0	0	0	0.0046338	0.0028959	0.0181383	0.1187635	0.02239686	0	0	0.45306699	0
W	CH4_RUNEX	0.00168	0.0061139	0.0024336	0.003147	0.0012875	0.0021791	0.0074191	0.0447116	0.04015741	2.52597974	0.15979394	1.11186622	0.005714
W	CH4_STREX	0.051677	0.0905298	0.0636276	0.0749217	0.0180961	0.0106906	0.009256	4.623E-08	0.02268468	0.01254483	0.15726553	0.00716831	0.024384
W	CO_IDLEX	0	0	0	0	0.1845745	0.1383425	0.7052178	5.635454	0.63298324	0	0	2.87146869	0
W	CO_RUNEX	0.540568	1.2746516	0.6817818	0.7783454	0.0738496	0.113189	0.1890562	0.3208393	0.66283321	33.1604748	11.670238	4.26707813	0.559726
W	CO_STREX	2.296387	4.4459336	2.8038419	2.9966432	2.0316029	1.1435025	0.9918149	0.0017597	2.44379739	1.163767	7.50827117	0.90383822	2.01366
W	CO2_NBIO_	0	0	0	0	8.2431245	12.903602	139.26836	827.06001	89.6739203	0	0	250.599681	0
W	CO2_NBIO_	233.3393	309.13657	307.68354	375.83412	178.99335	362.72201	1109.9952	1424.0659	1388.44993	2023.32159	190.960868	1156.31686	1523.857
W	CO2_NBIO_	59.03655	79.868197	76.629797	92.967413	16.186868	9.3607877	9.5547915	0.0189369	20.2573814	11.1759499	43.7223036	5.54845739	20.78901
W	NOX_IDLEX	0	0	0	0	0.0438036	0.0749615	0.6577281	4.2711608	0.3345095	0	0	1.01165069	0
W	NOX_RUNE	0.026761	0.1142876	0.0482402	0.0689981	0.3350347	0.4963825	0.5254085	1.4076911	0.94054855	0.36421597	0.50761537	1.85368095	1.183982
W	NOX_STREX	0.193066	0.3389256	0.2545273	0.3090664	0.347653	0.2148236	1.2525903	2.5768818	0.72011983	0.09706892	0.11089278	0.25857875	0.30306
W	PM10_IDLE	0	0	0	0	0.0007269	0.0013138	0.0008476	0.0022383	0.00044814	0	0	0.00146145	0
W	PM10_PMB	0.007543	0.0097124	0.0092737	0.0093454	0.0308826	0.0602104	0.0421117	0.0791032	0.05429053	0.10353438	0.012	0.04631516	0.04284
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0048503	0.0080338	0.012	0.0354957	0.012	0.02988184	0.004	0.01015823	0.013286
W	PM10_RUN	0.001096	0.001835	0.0012122	0.0012513	0.0067245	0.01159	0.0061279	0.0263917	0.0163635	0.00068369	0.00220082	0.01062526	0.029802
W	PM10_STRE	0.001704	0.0025745	0.0017898	0.0017982	0.0001621	7.352E-05	0.0001029	2.832E-07	0.00020651	8.8207E-05	0.00345083	5.5774E-05	0.000239
W	PM25_IDLE	0	0	0	0	0.0006954	0.001257	0.0008103	0.0021376	0.00042818	0	0	0.00138351	0
W	PM25_PMB	0.00264	0.0033993	0.0032458	0.0032709	0.0108089	0.0210736	0.0147391	0.0276861	0.01900168	0.03623703	0.0042	0.01621031	0.014994
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0012126	0.0020085	0.003	0.0088739	0.003	0.00747046	0.001	0.00253956	0.003321
W	PM25_RUN	0.001008	0.0016876	0.0011151	0.001153	0.0064336	0.0110886	0.0058555	0.0252474	0.01563885	0.00064651	0.00205493	0.01010381	0.028485
W	PM25_STRE	0.001567	0.0023671	0.0016456	0.0016534	0.0001491	6.76E-05	9.462E-05	2.604E-07	0.00018988	8.1103E-05	0.00323347	5.1282E-05	0.00022
W	ROG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	ROG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	ROG_IDLEX	0	0	0	0	0.018726	0.0146049	0.0232886	0.3277933	0.04946122	0	0	0.27498905	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNE	0.006015	0.0267097	0.0091303	0.0126601	0.0277186	0.0469137	0.013648	0.0123655	0.04212168	0.03910132	1.01062655	0.07006968	0.037951
W	ROG_RUNL	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	ROG_STREX	0.225013	0.4548776	0.2803756	0.3527092	0.0863241	0.0507254	0.0480134	2.381E-07	0.12098573	0.05102119	1.14564156	0.04103475	0.093448

W	SO2_IDLEX	0	0	0	0	8.012E-05	0.0001237	0.0012782	0.0074397	0.0008145	0	0	0.00131378	0
W	SO2_RUNEX	0.002307	0.0030561	0.0030413	0.0037135	0.0016961	0.003437	0.0105429	0.0130847	0.01292248	0.00186078	0.00188784	0.00713221	0.014933
W	SO2_STREX	0.000584	0.0007896	0.0007576	0.0009191	0.00016	9.254E-05	9.446E-05	1.872E-07	0.00020026	0.00011049	0.00043224	5.4852E-05	0.000206
W	TOG_DIURN	0.271968	0.6363827	0.2646818	0.3465643	0.1061973	0.0663377	0.0270585	8.828E-05	0.12419917	0.01690053	2.09831481	0.07247966	26.75134
W	TOG_HTSK	0.072795	0.1635847	0.0675484	0.082695	0.024981	0.014877	0.005957	2.271E-05	0.02565589	0.00469393	3.59578939	0.01449297	6.296891
W	TOG_IDLEX	0	0	0	0	0.0263935	0.0196541	0.0448761	0.4772288	0.07912133	0	0	0.79161255	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.008767	0.0389697	0.0133059	0.0184244	0.0315558	0.0534081	0.0231143	0.0584668	0.08891955	2.58129238	1.23361459	1.19785704	0.049169
W	TOG_RUNLS	0.022841	0.0589775	0.0220945	0.030471	0.0519127	0.0296501	0.0153109	2.437E-05	0.04365871	0.00052242	1.29923989	0.01736267	0.001609
W	TOG_STREX	0.246361	0.4980337	0.306976	0.3861722	0.094514	0.0555379	0.0525686	2.607E-07	0.13246415	0.05586178	1.24608416	0.04492789	0.102314
W	N2O_IDLEX	0	0	0	0	0.0006481	0.0015669	0.0213672	0.1322206	0.01254498	0	0	0.03669138	0
W	N2O_RUNEX	0.003501	0.0086363	0.004919	0.006613	0.0282005	0.057147	0.1324024	0.2262885	0.12480486	0.37888375	0.03677335	0.14976849	0.062903
W	N2O_STREX	0.027256	0.0359635	0.032344	0.0344069	0.0300276	0.0176497	0.0068963	3.268E-06	0.01948566	0.01034286	0.00681729	0.00677143	0.03447

2033 Mobile Source Emissions - Truck Miles Traveled Reduction (Regional + National)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-2,272	-829,218	-784,417	-286,312,231

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-3.67	-365.78	-82.90	-3.64	-43.99	-19.02	-14.19				
MT/Year								-9.19	-57.12	-359,509.53	-376,761.79

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-20.23	-2,004.28	-454.05	-19.96	-241.05	-104.20	-77.89

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-19.99	-2,098.28	-454.66	-19.96	-241.05	-104.20	-77.61

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2033
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV ca

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0037418	0.002208	0.016911	0.1061898	0.02296538	0	0	0.47210313	0
A	CH4_RUNEX	0.001264	0.003544	0.0019072	0.00224	0.0005947	0.0002509	0.0065302	0.0317808	0.04242465	0.00059684	0.15038771	1.05844964	0.003558
A	CH4_STREX	0.039445	0.0625675	0.0503533	0.0555514	0.0132448	0.0073768	0.0067874	2.273E-08	0.01874646	0.02082457	0.1410673	0.00661646	0.022035
A	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5578784	5.3176742	0.64495392	0	0	2.90152556	0
A	CO_RUNEX	0.493114	0.9189904	0.6419649	0.6903879	0.2874315	0.1404144	0.0995155	0.2472676	0.46652296	0.10986288	10.8770458	3.72843825	0.238362
A	CO_STREX	1.791266	2.9209532	2.2823173	2.3684618	1.7621085	0.9616135	0.6739165	0.0008858	2.03459728	1.84108981	7.3029789	0.76249546	1.706677
A	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	119.52469	725.46905	90.2707911	0	0	242.042321	0
A	CO2_NBIO_	215.8338	287.81827	287.18514	346.52209	263.04202	157.72382	902.39828	1253.5542	1228.39174	266.183503	189.972906	1046.48924	1506.204
A	CO2_NBIO_	52.98002	71.184508	69.601437	83.669016	13.803091	7.5609764	7.0817684	0.0099924	17.1747283	17.428765	40.0393778	5.15558136	19.32601
A	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4716468	3.6223932	0.29079758	0	0	0.69154138	0
A	NOX_RUNEX	0.021102	0.0605859	0.0351744	0.0445836	0.0259082	0.0146718	0.312622	1.2103195	0.81114011	0.03172648	0.48935515	0.98218987	1.039552
A	NOX_STREX	0.163261	0.2490001	0.2160447	0.2406855	0.2627184	0.1529875	1.0106764	2.3540576	0.64361989	0.15859679	0.08992566	0.26756108	0.301261
A	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003098	0.0016756	0.00031934	0	0	0.00084279	0
A	PM10_PMBW	0.007428	0.0095858	0.009248	0.0092949	0.0451479	0.0308339	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0053275	0.0033711	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
A	PM10_RUNE	0.000781	0.0011897	0.0008927	0.0009157	0.000541	0.0002599	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
A	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
A	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0002957	0.001599	0.00030482	0	0	0.00078975	0
A	PM25_PMBW	0.0026	0.003355	0.0032368	0.0032532	0.0158018	0.0107919	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0013319	0.0008428	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
A	PM25_RUNE	0.000718	0.0010939	0.0008214	0.0008432	0.0004974	0.000239	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
A	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
A	ROG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	ROG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187664	0.3412702	0.05074188	0	0	0.26776331	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.004197	0.0145604	0.0066974	0.0083694	0.0023827	0.0009622	0.0071894	0.0106427	0.03053744	0.00206882	0.92434298	0.04284928	0.026384
A	ROG_RUNLS	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053
A	ROG_STREX	0.164864	0.2933961	0.2125834	0.2464351	0.0603471	0.0339233	0.0342096	1.166E-07	0.10060666	0.08409658	1.00900796	0.03721438	0.080414
A	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010897	0.0065037	0.00081457	0	0	0.00114625	0
A	SO2_RUNEX	0.002134	0.0028454	0.0028387	0.003424	0.0026004	0.0015593	0.0085476	0.0115226	0.01131448	0.00263008	0.00187808	0.00617863	0.014748
A	SO2_STREX	0.000524	0.0007037	0.0006881	0.0008272	0.0001365	7.475E-05	7.001E-05	9.879E-08	0.00016979	0.0001723	0.00039583	5.0968E-05	0.000191
A	TOG_DIURN	0.2461	0.5068102	0.2345055	0.2865459	0.0742834	0.0479804	0.0198272	3.181E-05	0.11279725	0.02717157	1.95501678	0.08603745	19.3664
A	TOG_HTSK	0.057623	0.1170139	0.0544239	0.0642454	0.0162821	0.0098917	0.0038862	6.362E-06	0.02168112	0.00706004	3.59790192	0.0156861	4.109631
A	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0383619	0.4793025	0.08084464	0	0	0.80165908	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.006121	0.0212465	0.009756	0.0121819	0.0034768	0.001404	0.0146985	0.0435744	0.07732696	0.00294572	1.14189255	1.11231976	0.032802
A	TOG_RUNLS	0.020395	0.0429409	0.0195686	0.0248183	0.0346521	0.0211149	0.0108742	6.833E-06	0.03854718	0.00085751	1.23653816	0.02141518	0.001053

A	TOG_STREX	0.180505	0.3212318	0.232752	0.2698154	0.0660725	0.0371418	0.0374552	1.276E-07	0.11015163	0.09207517	1.09800958	0.04074506	0.088043
A	N2O_IDLEX	0	0	0	0	0.0005845	0.0014444	0.0184133	0.1160881	0.01291361	0	0	0.03601507	0
A	N2O_RUNEX	0.003079	0.0057199	0.0041986	0.0051642	0.0017567	0.0011039	0.1115938	0.1991757	0.12367161	0.0034144	0.03614484	0.13262017	0.063906
A	N2O_STREX	0.024184	0.0308148	0.0298077	0.0306405	0.0239705	0.0131699	0.0049505	8.62E-07	0.01532229	0.01672297	0.00567793	0.00698526	0.034766
S	CH4_IDLEX	0	0	0	0	0.0037546	0.0022151	0.0168093	0.1071269	0.0230613	0	0	0.47219174	0
S	CH4_RUNEX	0.001321	0.0036938	0.00199	0.0023406	0.0009133	0.0016968	0.0065434	0.031781	0.0424697	0.00061218	0.15215846	1.05850268	0.003614
S	CH4_STREX	0.035346	0.0559181	0.0451543	0.0497239	0.0127897	0.0071259	0.0065514	2.176E-08	0.01800478	0.0192922	0.1277803	0.00577672	0.021017
S	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.5172232	5.2515616	0.63790849	0	0	2.89595792	0
S	CO_RUNEX	0.608684	1.1280069	0.7881558	0.8519518	0.0472155	0.0844155	0.1005549	0.2473457	0.47107722	0.11209174	10.9973504	3.73332685	0.242129
S	CO_STREX	1.539839	2.4998939	1.9593026	2.0324776	1.6838601	0.9192778	0.6399119	0.0008416	1.91506796	1.61770396	6.51675699	0.59710223	1.602012
S	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	118.25831	716.76647	89.3734454	0	0	242.957765	0
S	CO2_NBIO_	228.5327	302.38337	300.36947	360.04725	158.80155	322.16779	902.40014	1253.5544	1228.39978	266.187213	190.191381	1046.49804	1506.211
S	CO2_NBIO_	52.51768	70.401849	69.007887	83.040392	13.671254	7.4895232	7.0232833	0.0099223	16.9706832	17.0522589	38.4523596	4.87719278	19.14798
S	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4513806	3.4491702	0.27840265	0	0	0.69838457	0
S	NOX_RUNEX	0.018094	0.0519862	0.0301832	0.038285	0.1760916	0.3073911	0.2938148	1.1421755	0.76126886	0.02804592	0.42820932	0.9177386	0.974513
S	NOX_STREX	0.152366	0.2324533	0.201707	0.2248926	0.2517532	0.1466336	1.0082363	2.3540566	0.63433915	0.15138053	0.08502118	0.26312979	0.287832
S	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0002704	0.0014957	0.00027807	0	0	0.00078244	0
S	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
S	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
S	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
S	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.000258	0.0014269	0.00026533	0	0	0.000732	0
S	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
S	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
S	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
S	ROG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	ROG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0188089	0.3614453	0.05240465	0	0	0.26785218	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.004338	0.0150502	0.006915	0.0086538	0.0196628	0.0365311	0.007237	0.0106436	0.03072694	0.00210912	0.93068842	0.0430923	0.026581
S	ROG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	ROG_STREX	0.14599	0.2592915	0.1884634	0.2180006	0.0580599	0.032649	0.0328608	1.119E-07	0.09632248	0.0775274	0.90687186	0.03246185	0.076853
S	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0010778	0.0064213	0.00080607	0	0	0.00115491	0
S	SO2_RUNEX	0.002259	0.0029894	0.0029691	0.0035578	0.0015047	0.0030527	0.0085476	0.0115227	0.01131456	0.00263011	0.00188024	0.00617871	0.014748
S	SO2_STREX	0.000519	0.000696	0.0006822	0.0008209	0.0001352	7.404E-05	6.943E-05	9.809E-08	0.00016777	0.00016858	0.00038014	4.8216E-05	0.000189
S	TOG_DIURN	0.279761	0.5851072	0.2655861	0.324449	0.0844756	0.0531977	0.0227546	3.841E-05	0.12908431	0.03409942	2.53949367	0.09779202	22.09818
S	TOG_HTSK	0.060444	0.1234054	0.0570363	0.0674049	0.0171392	0.0103388	0.0040566	6.694E-06	0.0226363	0.0074135	3.70978575	0.01631492	4.333555
S	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0382421	0.5022704	0.08273758	0	0	0.80176025	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.006327	0.0219611	0.0100735	0.012597	0.0223848	0.0415882	0.0147679	0.0435759	0.07760348	0.00300453	1.15122262	1.11267438	0.033089
S	TOG_RUNLS	0.020618	0.0434817	0.0197822	0.0250901	0.035164	0.0213175	0.0109704	6.919E-06	0.038834	0.00086416	1.24001695	0.02141977	0.001067
S	TOG_STREX	0.159841	0.2838915	0.2063437	0.2386832	0.0635683	0.0357466	0.0359784	1.225E-07	0.105461	0.08488275	0.98693366	0.03554164	0.084145
S	N2O_IDLEX	0	0	0	0	0.0005862	0.0014453	0.018189	0.114717	0.01277513	0	0	0.03621619	0
S	N2O_RUNEX	0.002735	0.0050923	0.0037467	0.0046613	0.0250192	0.0507577	0.1114602	0.1991743	0.12326252	0.00315348	0.03290722	0.13182366	0.063062
S	N2O_STREX	0.023339	0.0297738	0.0287802	0.0296038	0.0233488	0.0128421	0.0048506	8.362E-07	0.01498657	0.01651859	0.00558986	0.00679841	0.034535
W	CH4_IDLEX	0	0	0	0	0.0037395	0.0022066	0.0170612	0.1048958	0.02285461	0	0	0.47207661	0
W	CH4_RUNEX	0.001249	0.003504	0.0018857	0.0022142	0.0009133	0.0016968	0.0065256	0.0317808	0.04241494	0.00059355	0.14989315	1.05843982	0.003545
W	CH4_STREX	0.040296	0.0640079	0.0514849	0.0567994	0.0133271	0.0074261	0.0068276	2.294E-08	0.01891165	0.02114958	0.14342093	0.00681827	0.022241
W	CO_IDLEX	0	0	0	0	0.1641443	0.1205491	0.6146697	5.4089726	0.65468332	0	0	2.9092142	0
W	CO_RUNEX	0.45654	0.8501888	0.5941618	0.638079	0.0472155	0.0844155	0.0992023	0.2472407	0.46553668	0.109402	10.8286973	3.72749234	0.23748
W	CO_STREX	1.844297	3.0134483	2.3539622	2.4419405	1.7743477	0.9686818	0.6806595	0.0008961	2.05817834	1.88297897	7.43254656	0.79639625	1.725038
W	CO2_NBIO_	0	0	0	0	7.2416381	11.572279	121.27006	737.48691	91.5099829	0	0	240.778137	0
W	CO2_NBIO_	211.6622	282.86919	282.72289	341.96636	158.80155	322.16779	902.39772	1253.5542	1228.39	266.182733	189.886754	1046.48755	1506.203
W	CO2_NBIO_	53.07757	71.356127	69.732899	83.806206	13.82389	7.5730345	7.0935096	0.0100089	17.2153539	17.4999455	40.3036755	5.21318087	19.35752
W	NOX_IDLEX	0	0	0	0	0.0345046	0.0604396	0.4996329	3.8616059	0.30791437	0	0	0.68209126	0
W	NOX_RUNEX	0.020688	0.0594952	0.0345248	0.0437325	0.1834248	0.3200164	0.3075642	1.1953365	0.79762734	0.0310619	0.47878684	0.96792374	1.022549
W	NOX_STREX	0.165391	0.2523816	0.2189741	0.2438142	0.264539	0.154157	1.0112385	2.3540577	0.64543441	0.16002593	0.09084561	0.26879325	0.303414
W	PM10_IDLEX	0	0	0	0	0.0006897	0.0012503	0.0003643	0.001924	0.00037634	0	0	0.00092614	0
W	PM10_PMB	0.007428	0.0095858	0.009248	0.0092949	0.0328521	0.0601661	0.0389752	0.0791119	0.05440504	0.0650085	0.012	0.04453977	0.04287
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0054026	0.0082642	0.012	0.0355187	0.012	0.02706121	0.004	0.01011514	0.01338
W	PM10_RUN	0.000781	0.0011897	0.0008927	0.0009157	0.0049309	0.0092844	0.0038851	0.0247525	0.01395998	0.00035739	0.00225825	0.00609993	0.024185
W	PM10_STRE	0.00128	0.0017977	0.0013584	0.0013713	9.561E-05	4.334E-05	7.913E-05	9.352E-08	0.00018037	0.00013533	0.00339304	5.4966E-05	0.000212
W	PM25_IDLEX	0	0	0	0	0.0006599	0.0011962	0.0003479	0.0018367	0.00035936	0	0	0.00086949	0
W	PM25_PMB	0.0026	0.003355	0.0032368	0.0032532	0.0114982	0.0210581	0.0136413	0.0276892	0.01904176	0.02275298	0.0042	0.01558892	0.015004
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0013507	0.0020661	0.003	0.0088797	0.003	0.0067653	0.001	0.00252878	0.003345
W	PM25_RUN	0.000718	0.0010939	0.0008214	0.0008432	0.0047176	0.0088828	0.0037113	0.0236796	0.01334127	0.00032917	0.00210633	0.00577502	0.023114
W	PM25_STRE	0.001176	0.0016529	0.001249	0.0012609	8.791E-05	3.985E-05	7.276E-05	8.599E-08	0.00016584	0.00012443	0.00317004	5.0539E-05	0.000195
W	ROG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	ROG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	ROG_IDLEX	0	0	0	0	0.0151838	0.011842	0.0187177	0.3134092	0.04844567	0	0	0.26764059	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNEX	0.004158	0.0144187	0.0066354	0.0082897	0.0196628	0.0365311	0.0071752	0.0106423	0.03049674	0.00205994	0.92196934	0.04280573	0.026338
W	ROG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	ROG_STREX	0.168854	0.3007958	0.2178775	0.252568	0.0607578	0.0341743	0.0345198	1.175E-07	0.10156228	0.08550056	1.02665939	0.03834862	0.081123

W	SO2_IDLEX	0	0	0	0	7.033E-05	0.0001108	0.0011062	0.0066175	0.0008263	0	0	0.00113427	0
W	SO2_RUNEX	0.002092	0.0027964	0.0027946	0.003379	0.0015047	0.0030527	0.0085476	0.0115226	0.01131446	0.00263007	0.00187722	0.00617861	0.014748
W	SO2_STREX	0.000525	0.0007054	0.0006894	0.0008285	0.0001367	7.487E-05	7.013E-05	9.895E-08	0.00017019	0.000173	0.00039844	5.1538E-05	0.000191
W	TOG_DIURN	0.243142	0.4965813	0.2315599	0.2832288	0.0729905	0.0475044	0.0197403	3.082E-05	0.11303175	0.0268118	1.94981887	0.08743824	19.14227
W	TOG_HTSK	0.057194	0.1159121	0.0540012	0.0637448	0.0161447	0.0098177	0.003854	6.244E-06	0.02153451	0.00700147	3.58921506	0.01559513	4.082983
W	TOG_IDLEX	0	0	0	0	0.0212687	0.0156909	0.0385418	0.4475849	0.07823058	0	0	0.80151936	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.006065	0.0210396	0.0096655	0.0120657	0.0223848	0.0415882	0.0146778	0.0435739	0.07726758	0.00293276	1.1387096	1.11225621	0.032736
W	TOG_RUNLS	0.020564	0.0435453	0.0197071	0.025001	0.0352842	0.0213592	0.0109928	6.957E-06	0.03899861	0.00088859	1.33133971	0.02151823	0.001068
W	TOG_STREX	0.184874	0.3293335	0.2385484	0.2765301	0.0665221	0.0374165	0.0377949	1.286E-07	0.11119791	0.09361236	1.11721345	0.04198692	0.088819
W	N2O_IDLEX	0	0	0	0	0.0005844	0.0014444	0.0187253	0.1179815	0.01310893	0	0	0.0358206	0
W	N2O_RUNEX	0.003023	0.0056267	0.0041282	0.0050854	0.0250192	0.0507577	0.1115715	0.1991756	0.12359308	0.00336586	0.03557934	0.13249055	0.063766
W	N2O_STREX	0.02452	0.0312715	0.0302371	0.0310715	0.0241158	0.0132596	0.005002	8.668E-07	0.01546582	0.01694626	0.00576523	0.00711186	0.035221

2048 Mobile Source Emissions - Truck Miles Traveled Reduction (Regional + National)

	Peak Daily Trip Reduction	Annual Trip Reduction	VMT Daily	VMT Annual
Trucks:	-2,638	-962,697	-912,666	-333,123,035

Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0	0	0	0	0	0	0	1	0	0	0	0	0

Emissions Summary

Annual

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG	CH4	N2O	CO2	CO2e
Tons/Year	-3.62	-348.10	-51.23	-3.64	-49.69	-21.04	-9.39				
MT/Year								-4.91	-56.33	-355,507.62	-372,415.56

Summer

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-19.95	-1,907.41	-280.41	-19.94	-272.29	-115.27	-51.57

Winter

	ROG	NOX	CO	SOX	PM10	PM2.5	TOG
Lbs/Day	-19.67	-2,000.35	-281.20	-19.94	-272.29	-115.27	-51.26

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: MPO
Region: SCAG
Calendar Year: 2048
Season: Summer, Winter, Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV c

Emissions Rate (g/mile or g/trip)

Seas	EmissionTyp	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.0019873	0.0010262	0.0097357	0.0706447	0.02364998	0	0	0.2684817	0
A	CH4_RUNEX	0.0009	0.0011035	0.0013503	0.0013653	0.000141	6.364E-05	0.004079	0.014525	0.0452154	6.7515E-05	0.1403424	0.5555245	0.0023754
A	CH4_STREX	0.026822	0.0313992	0.03715	0.0368657	0.006345	0.0029123	0.0027351	3.515E-10	0.01017549	0.00240648	0.1199415	0.003515	0.0208086
A	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3305343	5.0618632	0.64197356	0	0	1.9171505	0
A	CO_RUNEX	0.424451	0.5139449	0.5596761	0.568615	0.1632086	0.0817108	0.0368767	0.1248818	0.23940162	0.04152292	10.001238	1.6209778	0.1325558
A	CO_STREX	1.325305	1.5421931	1.849198	1.8295686	1.11089	0.5819278	0.2398708	0.000379	0.86432696	0.46224847	7.1781794	0.3960736	1.4365604
A	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	67.454098	644.00022	85.3439537	0	0	143.50791	0
A	CO2_NBIO_	197.9221	254.32138	263.62476	313.26517	148.33855	82.852448	495.70442	1065.3347	976.808189	50.5478821	188.98017	584.97178	1495.1095
A	CO2_NBIO_	46.99377	60.228738	62.4617	73.957111	8.0058798	4.1093515	2.721739	0.003412	9.56692808	2.78632352	34.704901	2.615754	18.126716
A	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2199642	3.3197309	0.18082849	0	0	0.1942225	0
A	NOX_RUNEX	0.016075	0.0196333	0.0205019	0.021022	0.0048519	0.0031825	0.1015488	0.9894575	0.47776538	0.0031522	0.4588034	0.1217048	0.7942626
A	NOX_STREX	0.132911	0.1625428	0.1821653	0.1859778	0.1306962	0.0579797	0.5076396	1.9728258	0.45036194	0.02303497	0.0589122	0.1555207	0.2179325
A	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.000101	0.0014933	0.00018062	0	0	0.0004263	0
A	PM10_PMBW	0.007351	0.0093982	0.0092263	0.0092721	0.0420858	0.0346159	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.0429027
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.0062352	0.0048987	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
A	PM10_RUNI	0.000451	0.000552	0.0005332	0.0005208	0.0003246	0.0001606	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.0080517
A	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.0002279
A	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	9.609E-05	0.0014253	0.00017181	0	0	0.0003933	0
A	PM25_PMBW	0.002573	0.0032894	0.0032292	0.0032452	0.01473	0.0121156	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.0150159
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.0015588	0.0012247	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.0033605
A	PM25_RUNI	0.000415	0.0005076	0.0004909	0.0004793	0.0002985	0.0001476	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.0076774
A	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.0002096
A	ROG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.917699
A	ROG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.7135472
A	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0098131	0.3294671	0.04529906	0	0	0.1481811	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.002596	0.0032385	0.0041061	0.0041899	0.0004581	0.0002037	0.0026534	0.0089024	0.00817585	0.00068057	0.8338801	0.0119226	0.0172092
A	ROG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.0006651
A	ROG_STREX	0.100766	0.1194998	0.1443756	0.1445319	0.0271807	0.012367	0.0133843	1.849E-09	0.05250109	0.0075255	0.8287868	0.0195671	0.0712205
A	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006105	0.0058701	0.00075599	0	0	0.0005598	0
A	SO2_RUNEX	0.001957	0.0025142	0.0026058	0.0030956	0.0014665	0.0008191	0.004673	0.009893	0.00879849	0.00043165	0.0018683	0.0032734	0.0146314
A	SO2_STREX	0.000465	0.0005954	0.0006175	0.0007311	7.915E-05	4.063E-05	2.691E-05	3.373E-08	9.4579E-05	2.7546E-05	0.0003431	2.586E-05	0.0001792
A	TOG_DIURN	0.173459	0.2971333	0.2064145	0.2310067	0.0489963	0.0287575	0.0090205	8.146E-06	0.06679212	0.00911752	1.789393	0.0558818	11.917699
A	TOG_HTSK	0.032124	0.0490017	0.0368171	0.0394693	0.0065833	0.0037539	0.0011468	1.043E-06	0.01003534	0.00225281	3.592954	0.0067439	1.7135472
A	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0208798	0.4306907	0.07473656	0	0	0.4508668	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.003787	0.0047256	0.0059744	0.0060968	0.0006685	0.0002973	0.0070356	0.0243195	0.05447142	0.00080586	1.0445644	0.5716777	0.0211752

A	TOG_RUNLS	0.014852	0.0265862	0.0184272	0.0212827	0.0242369	0.0142094	0.0051869	1.787E-06	0.0218804	0.00029953	1.3528753	0.0166088	0.0006651
A	TOG_STREX	0.110326	0.1308372	0.1580731	0.1582442	0.0297595	0.0135403	0.0146541	2.024E-09	0.05748209	0.00823947	0.9027332	0.0214235	0.0779775
A	N2O_IDLEX	0	0	0	0	0.000373	0.0009765	0.0105187	0.1025785	0.01280725	0	0	0.0225602	0
A	N2O_RUNEX	0.002683	0.0031412	0.0033373	0.0037209	0.0004806	0.000336	0.0670232	0.1687894	0.12219135	0.00167792	0.0349394	0.0751476	0.0689942
A	N2O_STREX	0.021385	0.0253868	0.0279952	0.0279914	0.0129719	0.0058643	0.0024636	5.311E-06	0.00876862	0.00407059	0.0040474	0.0030756	0.0254564
S	CH4_IDLEX	0	0	0	0	0.0019942	0.0010294	0.009699	0.0715568	0.02374987	0	0	0.2685372	0
S	CH4_RUNEX	0.000941	0.0011525	0.0014109	0.0014273	0.0004298	0.0009516	0.0040822	0.0145251	0.04522315	6.857E-05	0.1431366	0.5555391	0.0024114
S	CH4_STREX	0.024049	0.02822	0.0333348	0.0330704	0.0061312	0.0028146	0.0026416	3.364E-10	0.00978202	0.00224655	0.1103221	0.0030772	0.0198964
S	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3124953	4.9989777	0.63549633	0	0	1.9157601	0
S	CO_RUNEX	0.526203	0.6313024	0.6898292	0.7020131	0.0176112	0.0395445	0.0370639	0.1249126	0.23996969	0.04233245	10.195289	1.622076	0.1346211
S	CO_STREX	1.144845	1.3328818	1.5924287	1.575563	1.0623325	0.5566078	0.2278083	0.0003598	0.81387417	0.41114757	6.3447885	0.3113428	1.3523246
S	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	66.594006	635.88628	84.3844672	0	0	143.1102	0
S	CO2_NBIO_	209.7726	267.06358	275.85122	325.36809	102.01103	209.13287	495.70475	1065.3347	976.809195	50.5491751	189.34778	584.97378	1495.1132
S	CO2_NBIO_	46.66898	59.851939	61.99964	73.499208	7.9254388	4.0676388	2.7008324	0.0033816	9.47940362	2.70341972	33.151628	2.473074	17.982888
S	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2090109	3.1560605	0.17251087	0	0	0.1897906	0
S	NOX_RUNEX	0.013788	0.0168455	0.0176041	0.0180582	0.033789	0.0869449	0.095606	0.9331528	0.44914693	0.0028794	0.4022855	0.1126812	0.7406488
S	NOX_STREX	0.124124	0.1517536	0.1701957	0.1737892	0.1252783	0.0555748	0.5063614	1.9728211	0.44487684	0.02201064	0.0559803	0.1537183	0.2083972
S	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	9.125E-05	0.0013367	0.00016295	0	0	0.0004224	0
S	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.0429027
S	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
S	PM10_RUNI	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.0080517
S	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.0002279
S	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	8.678E-05	0.0012755	0.00015491	0	0	0.0003896	0
S	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.0150159
S	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.0033605
S	PM25_RUNI	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.0076774
S	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.0002096
S	ROG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.516517
S	ROG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.7799478
S	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0099685	0.3491043	0.04717647	0	0	0.1483356	0
S	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	ROG_RUNEX	0.002685	0.0033447	0.0042411	0.0043297	0.0092534	0.0204877	0.0026629	0.0089027	0.00820006	0.00068257	0.8497022	0.0119809	0.0173185
S	ROG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.0006674
S	ROG_STREX	0.089318	0.1061971	0.1281079	0.128196	0.0261695	0.0119089	0.0128581	1.775E-09	0.05027669	0.00698241	0.7594405	0.017114	0.0681922
S	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006024	0.0057932	0.00074691	0	0	0.000556	0
S	SO2_RUNEX	0.002074	0.0026402	0.0027267	0.0032152	0.0009666	0.0019816	0.004673	0.009893	0.0087985	0.00043167	0.0018719	0.0032734	0.0146315
S	SO2_STREX	0.000461	0.0005917	0.0006129	0.0007266	7.835E-05	4.021E-05	2.67E-05	3.343E-08	9.3714E-05	2.6726E-05	0.0003277	2.445E-05	0.0001778
S	TOG_DIURN	0.188885	0.316286	0.2231335	0.2483276	0.0511292	0.0298805	0.0096413	8.86E-06	0.07106458	0.01123634	2.22988	0.058992	12.516517
S	TOG_HTSK	0.033609	0.0509987	0.0384453	0.0411928	0.0068358	0.0038916	0.0011904	1.086E-06	0.01039467	0.00236539	3.6949123	0.0069814	1.7799478
S	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0209846	0.4530461	0.07687384	0	0	0.4510427	0
S	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
S	TOG_RUNEX	0.003917	0.0048806	0.0061715	0.0063007	0.0105344	0.0233239	0.0070494	0.02432	0.05450676	0.00080877	1.0646669	0.5717628	0.0213348
S	TOG_RUNLS	0.014976	0.0267293	0.0185631	0.0214252	0.0243382	0.0142588	0.0052066	1.796E-06	0.02194526	0.00030177	1.3532945	0.0165934	0.0006674
S	TOG_STREX	0.097792	0.1162724	0.140262	0.1403585	0.0286524	0.0130388	0.014078	1.943E-09	0.05504665	0.00764486	0.827228	0.0187377	0.0746618
S	N2O_IDLEX	0	0	0	0	0.0003738	0.0009769	0.0103737	0.1013002	0.01265757	0	0	0.0225224	0
S	N2O_RUNEX	0.002383	0.0027871	0.0029765	0.0033597	0.0160719	0.032949	0.066988	0.1687889	0.12196613	0.00165247	0.0318497	0.0748783	0.0679433
S	N2O_STREX	0.020643	0.0244967	0.0270167	0.0270111	0.0126226	0.0057121	0.0024046	5.232E-06	0.00855446	0.00400686	0.0039998	0.0029875	0.025313
W	CH4_IDLEX	0	0	0	0	0.001986	0.0010257	0.0097906	0.0693852	0.02352679	0	0	0.26846	0
W	CH4_RUNEX	0.00089	0.0010909	0.0013348	0.0013494	0.0004298	0.0009516	0.0040779	0.014525	0.04521371	6.7305E-05	0.1396785	0.5555216	0.0023661
W	CH4_STREX	0.027394	0.0320882	0.0379751	0.0376844	0.0063855	0.0029314	0.0027522	3.545E-10	0.01026277	0.00244082	0.1219103	0.0036216	0.0210124
W	CO_IDLEX	0	0	0	0	0.1030243	0.0747347	0.3557232	5.1487051	0.65091831	0	0	1.9190706	0
W	CO_RUNEX	0.392459	0.4756083	0.5174105	0.5253745	0.0176112	0.0395445	0.0368209	0.1248725	0.23927512	0.0413592	9.9527928	1.6207436	0.1320193
W	CO_STREX	1.362344	1.5873766	1.9053242	1.8849364	1.1187113	0.5861338	0.2424969	0.0003831	0.874239	0.47198909	7.3320793	0.4133825	1.4529419
W	CO2_NBIO_	0	0	0	0	4.4665898	7.5114208	68.640547	655.20518	86.6689588	0	0	144.05713	0
W	CO2_NBIO_	194.042	250.00176	259.49869	309.18342	102.01103	209.13287	495.70432	1065.3347	976.807965	50.5476206	188.88878	584.97136	1495.1085
W	CO2_NBIO_	47.06061	60.310211	62.562699	74.05693	8.0189346	4.1163281	2.7263483	0.0034185	9.58431806	2.80217603	34.995634	2.6452225	18.154955
W	NOX_IDLEX	0	0	0	0	0.0161751	0.0317231	0.2350899	3.5457519	0.19231472	0	0	0.2003429	0
W	NOX_RUNEX	0.015758	0.0192632	0.0201131	0.0206227	0.0351249	0.0904172	0.0999428	0.9782188	0.46987215	0.00309574	0.4487416	0.1198985	0.7804354
W	NOX_STREX	0.13461	0.1647592	0.1845777	0.1884217	0.1316158	0.0584178	0.5079507	1.9728268	0.45142741	0.02319678	0.0595034	0.1560155	0.2197272
W	PM10_IDLEX	0	0	0	0	0.0004854	0.0008885	0.0001144	0.0017095	0.00020502	0	0	0.0004317	0
W	PM10_PMB	0.007351	0.0093982	0.0092263	0.0092721	0.0359142	0.0563841	0.0320606	0.077555	0.05398192	0.05837079	0.012	0.0361893	0.0429027
W	PM10_PMT	0.008	0.008	0.008	0.008	0.0064846	0.008363	0.012	0.0355518	0.012	0.03039238	0.004	0.0103376	0.013442
W	PM10_RUNI	0.000451	0.000552	0.0005332	0.0005208	0.0024833	0.0056036	0.0018293	0.0222157	0.00660354	0.00020984	0.002357	0.0016092	0.0080517
W	PM10_STRE	0.000702	0.0008406	0.000774	0.0007619	3.303E-05	1.723E-05	3.713E-05	4.059E-08	0.00010102	1.1876E-05	0.0035502	4.611E-05	0.0002279
W	PM25_IDLEX	0	0	0	0	0.0004644	0.0008501	0.000109	0.0016322	0.00019516	0	0	0.0003984	0
W	PM25_PMB	0.002573	0.0032894	0.0032292	0.0032452	0.01257	0.0197344	0.0112212	0.0271442	0.01889367	0.02042978	0.0042	0.0126663	0.0150159
W	PM25_PMT	0.002	0.002	0.002	0.002	0.0016212	0.0020908	0.003	0.008888	0.003	0.0075981	0.001	0.0025844	0.0033605
W	PM25_RUNI	0.000415	0.0005076	0.0004909	0.0004793	0.0023759	0.0053612	0.0017477	0.0212535	0.00630814	0.00019752	0.0021972	0.0014953	0.0076774
W	PM25_STRE	0.000645	0.0007729	0.0007117	0.0007006	3.037E-05	1.585E-05	3.414E-05	3.732E-08	9.2887E-05	1.0919E-05	0.0033094	4.24E-05	0.0002096
W	ROG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.873392
W	ROG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.7059236
W	ROG_IDLEX	0	0	0	0	0.0082254	0.006377	0.0096028	0.302349	0.04270645	0	0	0.1479677	0
W	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	ROG_RUNEX	0.002572	0.0032084	0.004068	0.0041505	0.0092534	0.0204877	0.0026506	0.0089022	0.00817051	0.00068017	0.8300197	0.0119109	0.0171809

W	ROG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	ROG_STREX	0.103169	0.1224115	0.1479312	0.1480943	0.0273728	0.0124571	0.013516	1.864E-09	0.05299607	0.00764383	0.8427572	0.020164	0.0718894
W	SO2_IDLEX	0	0	0	0	4.333E-05	7.178E-05	0.0006217	0.0059762	0.00076854	0	0	0.000565	0
W	SO2_RUNEX	0.001918	0.0024715	0.002565	0.0030552	0.0009666	0.0019816	0.004673	0.009893	0.00879849	0.00043165	0.0018674	0.0032734	0.0146314
W	SO2_STREX	0.000465	0.0005962	0.0006185	0.0007321	7.928E-05	4.069E-05	2.695E-05	3.379E-08	9.4751E-05	2.7702E-05	0.000346	2.615E-05	0.0001795
W	TOG_DIURN	0.171742	0.29543	0.2045818	0.2292171	0.0488065	0.0286673	0.0089843	8.061E-06	0.06693252	0.00896803	1.8202586	0.0561961	11.873392
W	TOG_HTSK	0.031908	0.0487176	0.0365681	0.0392118	0.00655	0.0037359	0.0011375	1.029E-06	0.00999115	0.00223346	3.585454	0.0067137	1.7059236
W	TOG_IDLEX	0	0	0	0	0.011383	0.0081683	0.0207413	0.3998188	0.07178507	0	0	0.4506238	0
W	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
W	TOG_RUNEX	0.003752	0.0046817	0.0059188	0.0060393	0.0105344	0.0233239	0.0070315	0.0243193	0.05446363	0.00080528	1.0396779	0.5716606	0.021134
W	TOG_RUNLS	0.014886	0.0266503	0.0184692	0.0213301	0.0244235	0.0143074	0.0052196	1.8E-06	0.02197657	0.00030965	1.4563123	0.0166728	0.000671
W	TOG_STREX	0.112957	0.1340251	0.161966	0.1621447	0.0299697	0.013639	0.0147983	2.041E-09	0.05802403	0.00836903	0.9179477	0.022077	0.0787099
W	N2O_IDLEX	0	0	0	0	0.0003729	0.0009764	0.0107196	0.1043439	0.01301602	0	0	0.0226485	0
W	N2O_RUNEX	0.002634	0.0030846	0.003279	0.0036623	0.0160719	0.032949	0.0670177	0.1687893	0.12214964	0.00167261	0.0343897	0.0751039	0.0688177
W	N2O_STREX	0.021676	0.0257483	0.0283804	0.0283709	0.0130457	0.0059018	0.0024861	5.373E-06	0.00884113	0.00411449	0.0041104	0.0031293	0.0258208

Paved Road Dust Calculations (EPA AP-42 13.2.1, equation 2)
Truck Miles Traveled Reduction (Regional plus National)

E = (k*(sL)^0.91*(W)^1.02)*(1-P/4N)

	PM_{10}	$PM_{2.5}$	
E =			emission factor
k =	0.0022	0.00054	particle size multiplier (lb/vmt)
sL =	0.03	0.03	surface silt loading (CARB Miscellaneous Process Methodology 7.9, Entrained Road Travel, Paved Road Dust, November 2016)
W HHD =	16	16	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
W worker =	2.7	2.7	average vehicle weight (tons) (based on EMFAC2021 User's Guide Appendix 4: Vehicle Categories)
P =	0	0	Number of days per year with >0.01 inches of rain (Source: WRCC data for Barstow,https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabars+sca)
N =	365	365	Days per period

	lb/vmt		**g/vmt**	
Vehicle Type	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	0.00153	0.00038	0.694178525	0.1703893
Vendor	0.00066	0.00016	0.29872309	0.0733229
Worker	0.00025	0.00006	0.113047206	0.027748

				2028				**2033**				**2048**			
	2028	**2033**	**2048**	**lbs/day**		**tons/year**		**lbs/day**		**tons/year**		**lbs/day**		**tons/year**	
Vehicle Type	**VMT/year**	**VMT/year**	**VMT/year**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**	**PM_{10}**	**$PM_{2.5}$**
HHD	-217,824,523	-286,312,231	-333,123,035	-913.3	-224.2	-166.7	-40.91	-1200	-294.7	-219.1	-53.78	-1397	-342.8	-254.9	-62.57
Total	**-217,824,523**	**-286,312,231**	**-333,123,035**	**-913.3**	**-224.2**	**-166.7**	**-40.91**	**-1200**	**-294.7**	**-219.1**	**-53.78**	**-1397**	**-342.8**	**-254.9**	**-62.57**

Appendix A2.3: Equipment

Unmitigated Equipment Emissions

	2028 Emissions (pounds/day)						
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.04	4.63	4.17	0.02	0.23	0.21	1,908.36
Rail Car Wheel Change Machine	0.61	4.47	5.61	0.01	0.18	0.16	1,462.72
Air Compressors	0.17	1.27	1.66	0.00	0.03	0.02	210.16
Welders	0.05	0.40	0.47	0.00	0.01	0.01	65.63
Truck Transport Refrigeration Units	22.85	20.39	2.62	0.00	0.33	0.30	4,093.51
Emergency Generators	90.17	372.00	233.25	0.44	13.26	13.26	46,111.81
Warehouse Cargo Handling Equipment	28.41	147.75	2,032.73	2.84	5.68	5.68	300,611.39
Total	143.30	550.91	2,280.50	3.32	19.71	19.65	354,463.58

	2028 Emissions (tons/year)							MT/year
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	0.19	0.84	0.76	0.00	0.04	0.04	348.28	316
Rail Car Wheel Change Machine	0.11	0.82	1.02	0.00	0.03	0.03	266.95	242
Air Compressors	0.03	0.23	0.30	0.00	0.00	0.00	38.35	35
Welders	0.01	0.07	0.09	0.00	0.00	0.00	11.98	11
Truck Transport Refrigeration Units	4.17	3.72	0.48	0.00	0.06	0.05	747.07	678
Emergency Generators	2.25	9.30	5.83	0.01	0.33	0.33	1,152.79	1,046
Warehouse Cargo Handling Equipment	5.19	26.96	370.97	0.52	1.04	1.04	54,861.57	49,770
Total	11.95	41.95	379.45	0.54	1.51	1.50	57,426.98	52,097
IMF Emergency Generators	1.51	6.74	3.84	0.01	0.22	0.22	771.10	700
Warehouse Emergency Generators	0.75	2.56	1.99	0.00	0.11	0.11	381.69	346

Mitigated Equipment Emissions - Renewable Diesel RTG, Tier 4 Generators, ZE Warehouse CHE

	2028 Emissions (pounds/day)						
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.04	4.16	3.75	0.02	0.16	0.15	725.18
Rail Car Wheel Change Machine	0.61	4.47	5.61	0.01	0.18	0.16	1,462.72
Air Compressors	0.17	1.27	1.66	0.00	0.03	0.02	210.16
Welders	0.05	0.40	0.47	0.00	0.01	0.01	65.63
Truck Transport Refrigeration Units	22.85	20.39	2.62	0.00	0.33	0.30	4,093.51
Emergency Generators	12.38	44.20	229.83	0.44	1.77	1.77	46,111.81
Warehouse Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	37.10	74.89	243.94	0.48	2.47	2.41	52,669.01

	2028 Emissions (tons/year)							MT/year
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	0.19	0.76	0.68	0.00	0.03	0.03	132.34	120
Rail Car Wheel Change Machine	0.11	0.82	1.02	0.00	0.03	0.03	266.95	242
Air Compressors	0.03	0.23	0.30	0.00	0.00	0.00	38.35	35
Welders	0.01	0.07	0.09	0.00	0.00	0.00	11.98	11
Truck Transport Refrigeration Units	4.17	3.72	0.48	0.00	0.06	0.05	747.07	678
Emergency Generators	0.31	1.10	5.75	0.01	0.04	0.04	1,152.79	1,046
Warehouse Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Total	4.82	6.71	8.32	0.02	0.17	0.16	2,349.48	2,131
IMF Emergency Generators	0.02	0.07	0.38	0.00	0.00	0.00	77.11	69.95
Warehouse Emergency Generators	0.02	0.07	0.39	0.00	0.00	0.00	78.07	70.83

Unmitigated Equipment Emissions

	2033 Emissions (pounds/day)						
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.19	5.29	4.76	0.02	0.27	0.24	2,180.99
Rail Car Wheel Change Machine	0.61	4.47	5.61	0.01	0.18	0.16	1,462.72
Air Compressors	0.17	1.27	1.66	0.00	0.03	0.02	210.16
Welders	0.05	0.40	0.47	0.00	0.01	0.01	65.63
Truck Transport Refrigeration Units	28.97	25.84	3.32	0.00	0.42	0.38	5,189.25
Emergency Generators	90.17	372.00	233.25	0.44	0.89	13.26	46,111.81
Warehouse Cargo Handling Equipment	28.41	147.75	2,032.73	2.84	0.00	5.68	300,611.39
Total	149.57	557.02	2,281.80	3.32	1.78	19.76	355,831.94

	2033 Emissions (tons/year)							MT/year
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	0.22	0.96	0.87	0.00	0.05	0.04	398.03	316
Rail Car Wheel Change Machine	0.11	0.82	1.02	0.00	0.03	0.03	266.95	242
Air Compressors	0.03	0.23	0.30	0.00	0.00	0.00	38.35	35
Welders	0.01	0.07	0.09	0.00	0.00	0.00	11.98	11
Truck Transport Refrigeration Units	5.29	4.72	0.61	0.00	0.08	0.07	947.04	678
Emergency Generators	2.25	9.30	5.83	0.01	0.33	0.33	1,152.79	1,046
Warehouse Cargo Handling Equipment	5.19	26.96	370.97	0.52	1.04	1.04	54,861.57	49,770
Total	13.10	43.07	379.69	0.54	1.53	1.52	57,676.71	52,323
IMF Emergency Generators	1.51	6.74	3.84	0.01	0.22	0.22	771.10	700
Warehouse Emergency Generators	0.75	2.56	1.99	0.00	0.11	0.11	381.69	346

Mitigated Equipment Emissions - Renewable D

	2033 Emissions (pounds/day)						
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.19	4.76	4.29	0.02	0.19	0.17	828.77
Rail Car Wheel Change Machine	0.61	4.47	5.61	0.01	0.18	0.16	1,462.72
Air Compressors	0.17	1.27	1.66	0.00	0.03	0.02	210.16
Welders	0.05	0.40	0.47	0.00	0.01	0.01	65.63
Truck Transport Refrigeration Units	28.97	25.84	3.32	0.00	0.42	0.38	5,189.25
Emergency Generators	12.38	44.20	229.83	0.44	1.77	1.77	46,111.81
Warehouse Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	37.10	74.89	243.94	0.48	2.47	2.41	52,669.01

	2033 Emissions (tons/year)							MT/year
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	0.22	0.87	0.78	0.00	0.03	0.03	151.25	137
Rail Car Wheel Change Machine	0.11	0.82	1.02	0.00	0.03	0.03	266.95	242
Air Compressors	0.03	0.23	0.30	0.00	0.00	0.00	38.35	35
Welders	0.01	0.07	0.09	0.00	0.00	0.00	11.98	11
Truck Transport Refrigeration Units	5.29	4.72	0.61	0.00	0.08	0.07	947.04	859
Emergency Generators	0.31	1.10	5.75	0.01	0.04	0.04	1,152.79	1,046
Warehouse Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Total	4.82	6.71	8.32	0.02	0.17	0.16	2,349.48	2,131
IMF Emergency Generators	0.02	0.07	0.38	0.00	0.00	0.00	77.11	69.95
Warehouse Emergency Generators	0.02	0.07	0.39	0.00	0.00	0.00	78.07	70.83

Unmitigated Equipment Emissions

	2048 Emissions (pounds/day)						
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.07	0.76	5.97	0.03	0.06	0.06	2,726.23
Rail Car Wheel Change Machine	0.70	3.26	7.07	0.02	0.07	0.07	1,861.78
Air Compressors	0.22	1.77	2.43	0.00	0.01	0.01	315.72
Welders	0.09	0.75	0.92	0.00	0.01	0.01	131.84
Truck Transport Refrigeration Units	35.23	31.80	3.87	0.00	0.23	0.21	6,343.72
Emergency Generators	90.17	372.00	233.25	0.44	13.26	13.26	46,111.81
Warehouse Cargo Handling Equipment	28.41	147.75	2,032.73	2.84	5.68	5.68	300,611.39
Total	155.89	558.09	2,286.24	3.33	19.32	19.30	358,102.48

	2048 Emissions (tons/year)							MT/year
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	0.20	0.14	1.09	0.00	0.01	0.01	497.54	451
Rail Car Wheel Change Machine	0.13	0.60	1.29	0.00	0.01	0.01	339.77	308
Air Compressors	0.04	0.32	0.44	0.00	0.00	0.00	57.62	52
Welders	0.02	0.14	0.17	0.00	0.00	0.00	24.06	22
Truck Transport Refrigeration Units	6.43	5.80	0.71	0.00	0.04	0.04	1,157.73	1,050
Emergency Generators	2.25	9.30	5.83	0.01	0.33	0.33	1,152.79	1,046
Warehouse Cargo Handling Equipment	6.31	27.43	366.34	0.52	1.10	1.10	54,828.72	49,740
Total	15.38	43.72	375.87	0.54	1.50	1.49	58,058.23	52,670
IMF Emergency Generators	1.51	6.74	3.84	0.01	0.22	0.22	771.10	700
Warehouse Emergency Generators	0.75	2.56	1.99	0.00	0.11	0.11	381.69	346

Mitigated Equipment Emissions - Renewable D

	2048 Emissions (pounds/day)						
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.07	0.68	5.37	0.03	0.04	0.04	1,035.97
Rail Car Wheel Change Machine	0.70	3.26	7.07	0.02	0.07	0.07	1,861.78
Air Compressors	0.22	1.77	2.43	0.00	0.01	0.01	315.72
Welders	0.09	0.75	0.92	0.00	0.01	0.01	131.84
Truck Transport Refrigeration Units	35.23	31.80	3.87	0.00	0.23	0.21	6,343.72
Emergency Generators	12.38	44.20	229.83	0.44	1.77	1.77	46,111.81
Warehouse Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	49.69	82.46	249.50	0.49	2.13	2.11	55,800.83

	2048 Emissions (tons/year)							MT/year
Equipment	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**	**CO_2**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	0.20	0.12	0.98	0.00	0.01	0.01	189.06	172
Rail Car Wheel Change Machine	0.13	0.60	1.29	0.00	0.01	0.01	339.77	308
Air Compressors	0.04	0.32	0.44	0.00	0.00	0.00	57.62	52
Welders	0.02	0.14	0.17	0.00	0.00	0.00	24.06	22
Truck Transport Refrigeration Units	6.43	5.80	0.71	0.00	0.04	0.04	1,157.73	1,050
Emergency Generators	0.31	1.10	5.75	0.01	0.04	0.04	1,152.79	1,046
Warehouse Cargo Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Total	7.12	8.09	9.33	0.02	0.11	0.11	2,921.04	2,650
IMF Emergency Generators	0.02	0.07	0.38	0.00	0.00	0.00	77.11	69.95
Warehouse Emergency Generators	0.02	0.07	0.39	0.00	0.00	0.00	78.07	70.83

Equipment Emissions

2028 Equipment	Fuel Type	Quantity	HP	LF	Hrs per Day per Unit	Hours per Year per Unit	Total hp-hr per day	Total hp-hr per year	OFFROAD2021 (v1.0.5) Emissions Rates (g/bhp/hr)							
									ROG	TOG	CO	NO_X	CO_2	PM_{10}	$PM_{2.5}$	SO_X
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	Hybrid	7	165	0.15	6.85	2,500	7,912	2,887,789	0.059623	0.070957	0.238895	0.265241	109.4092	0.013312	0.012247	0.00104
Rail Car Wheel Change Machine	Diesel	2	160	0.43	4	1,460	1,280	467,200	0.215446	0.256398	1.989154	1.584282	518.3414	0.062466	0.057468	0.00491
Air Compressors	Diesel	2	78	0.48	2	730	312	113,880	0.252267	0.304797	2.408694	1.845319	305.5394	0.037094	0.036156	0.00376
Welders	Gasoline	2	46	0.45	1	365	92	33,580	0.259542	0.312967	2.299442	1.978476	323.5634	0.041687	0.04332	0.00389
Truck Transport Refrigeration Units	Diesel	15	50	0.56	4.91	1,794	3,649	1,331,704	2.840973	0.413913	0.325127	2.534595	508.9171	0.040718	0.037461	8.6E-06
Emergency Generators									ROG	TOG	CO	NO_X	CO_2	PM_{10}	$PM_{2.5}$	SO_X
2000 kW (IMF)	Diesel	10	2,682	0.74	1	50	26,820	1,341,022	1.02	1.12	2.6	4.56	521.64	0.15	0.15	0.005
750 kW (Warehousing)	Diesel	5	1,006	0.74	1	50	5,029	251,442	1.02	1.12	2.6	4.56	521.64	0.15	0.15	0.005
500 kW (Warehousing)	Diesel	2	671	0.74	1	50	1,341	67,051	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	1	50	469	23,468	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
250 kW (Warehousing)	Diesel	15	335	0.74	1	50	5,029	251,442	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
175 kW (Warehousing)	Diesel	6	235	0.74	1	50	1,408	70,404	1.02	1.12	3.7	2.85	521.64	0.15	0.15	0.005
Warehouse CHE									ROG	TOG	CO	NO_X	CO_2	PM_{10}	$PM_{2.5}$	SO_X
Warehouse Yard Trucks	Diesel	32	225	0.39	4	1460	28,800	10,512,000	0.05	0.05	2.6	0.26	529	0.01	0.01	0.005
Warehouse Forklifts	Diesel	540	106	0.3	4	1460	228,960	83,570,400	0.05	0.05	3.7	0.26	529	0.01	0.01	0.005

Horsepower and Load Factors from CARB, *2022 Cargo Handling Equipment Emissions Inventory* , December 2022.

Tier 4

Emergency Generators																
2000 kW (IMF)	Diesel	10	2,682	0.74	1	50	26,820	1,341,022	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
750 kW (Warehousing)	Diesel	5	1,006	0.74	1	50	5,029	251,442	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
500 kW (Warehousing)	Diesel	2	671	0.74	1	50	1,341	67,051	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	1	50	469	23,468	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
250 kW (Warehousing)	Diesel	15	335	0.74	1	50	5,029	251,442	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
175 kW (Warehousing)	Diesel	6	235	0.74	1	50	1,408	70,404	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005

Tier 4

Mitigated - Tier 4 and Limit Testing to 6.25 hrs/day

Emergency Generators																
2000 kW (IMF)	Diesel	1	2,682	0.74	6.25	50	16,763	134,102	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
750 kW (Warehousing)	Diesel	1	1,006	0.74	6.25	50	6,286	50,288	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
500 kW (Warehousing)	Diesel	1	671	0.74	6.25	50	4,191	33,526	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	6.25	50	2,933	23,468	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
250 kW (Warehousing)	Diesel	1	335	0.74	6.25	50	2,095	16,763	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
175 kW (Warehousing)	Diesel	1	235	0.74	6.25	50	1,467	11,734	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005

Mitigated (Tier 4 and Limit Testing to 6.25 hrs/day)

Sources:
CARB, 2022 Cargo Handling EquipmentEmissionsInventory, December 2022.
CARB OFFROAD 2021
Port of Long Beach RTG Crane Load Factor Study, 2009.
CalEEMod2022 Users Guide Appenix G
ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

Equipment Emissions

2028	**Emissions (pounds/day)**									**Emissions (tons/year)**							
Equipment	**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**		**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.04	1.24	4.17	4.63	1,908.36	0.23	0.21	0.02		1.90E-01	0.225872	0.760462	0.844325	348.2760269	0.042376	0.038986	0.003301
Rail Car Wheel Change Machine	0.61	0.72	5.61	4.47	1,462.72	0.18	0.16	0.01		0.110954	0.132045	1.024414	0.815905	266.9456778	0.03217	0.029596	0.002529
Air Compressors	0.17	0.21	1.66	1.27	210.16	0.03	0.02	0.00		0.031667	0.038262	0.302366	0.231645	38.35472502	0.004656	0.004539	0.000473
Welders	0.05	0.06	0.47	0.40	65.63	0.01	0.01	0.00		0.009607	0.011585	0.085115	0.073234	11.97689322	0.001543	0.001604	0.000144
Truck Transport Refrigeration Units	22.85	3.33	2.62	20.39	4,093.51	0.33	0.30	0.00		4.170411	0.607604	0.477271	3.720663	747.0658342	0.059772	0.054991	1.26E-05
Total CHE	24.73	5.56	14.52	31.15	7,740.38	0.77	0.71	0.04	Total CHE	4.51	1.02	2.65	5.69	1,412.62	0.14	0.13	0.01
Emergency Generators																	
2000 kW (IMF)	60.31	66.22	153.74	269.63	30,844.02	8.87	8.87	0.30		1.51	1.66	3.84	6.74	771.10	0.22	0.22	0.01
750 kW (Warehousing)	11.31	12.42	28.83	50.56	5,783.25	1.66	1.66	0.06		0.28	0.31	0.72	1.26	144.58	0.04	0.04	0.00
500 kW (Warehousing)	3.02	3.31	7.69	8.43	1,542.20	0.44	0.44	0.01		0.08	0.08	0.19	0.21	38.56	0.01	0.01	0.00
350 kW (Warehousing)	1.06	1.16	2.69	2.95	539.77	0.16	0.16	0.01		0.03	0.03	0.07	0.07	13.49	0.00	0.00	0.00
250 kW (Warehousing)	11.31	12.42	28.83	31.60	5,783.25	1.66	1.66	0.06		0.28	0.31	0.72	0.79	144.58	0.04	0.04	0.00
175 kW (Warehousing)	3.17	3.48	11.49	8.85	1,619.31	0.47	0.47	0.02		0.08	0.09	0.29	0.22	40.48	0.01	0.01	0.00
Generator Total	90.17	99.01	233.25	372.00	46,111.81	13.26	13.26	0.44	Generator Total	2.25	2.48	5.83	9.30	1,152.79	0.33	0.33	0.01
Total	114.89	104.57	247.77	403.16	53,852.19	14.03	13.97	0.48	Total	6.77	3.49	8.48	14.99	2,565.41	0.47	0.46	0.02
IMF Emergency Generators	60.31	66.22	153.74	269.63	30,844.02	8.87	8.87	0.30		1.51	1.66	3.84	6.74	771.10	0.22	0.22	0.01
Warehouse Emergency Generators	29.85	32.78	79.51	102.37	15,267.79	4.39	4.39	0.15		0.75	0.82	1.99	2.56	381.69	0.11	0.11	0.00
Warehouse CHE																	
Warehouse Yard Trucks	3.17	3.17	165.08	16.51	33,587.86	0.63	0.63	0.32		0.58	0.58	30.13	3.01	6129.78	0.12	0.12	0.06
Warehouse Forklifts	25.24	25.24	1,867.65	131.24	267,023.52	5.05	5.05	2.52		4.61	4.61	340.85	23.95	48731.78	0.92	0.92	0.46
Warehouse CHE Total	28.41	28.41	2,032.73	147.75	300,611.39	5.68	5.68	2.84		5.19	5.19	370.97	26.96	54,861.57	1.04	1.04	0.52
Tier 4																	
Emergency Generators																	
2000 kW (IMF)	8.28	66.22	153.74	29.56	30,844.02	1.18	1.18	0.30		0.21	1.66	3.84	0.74	771.10	0.03	0.03	0.01
750 kW (Warehousing)	1.55	12.42	28.83	5.54	5,783.25	0.22	0.22	0.06		0.04	0.31	0.72	0.14	144.58	0.01	0.01	0.00
500 kW (Warehousing)	0.41	3.31	7.69	1.48	1,542.20	0.06	0.06	0.01		0.01	0.08	0.19	0.04	38.56	0.00	0.00	0.00
350 kW (Warehousing)	0.14	1.16	2.69	0.52	539.77	0.02	0.02	0.01		0.00	0.03	0.07	0.01	13.49	0.00	0.00	0.00
250 kW (Warehousing)	1.55	12.42	28.83	5.54	5,783.25	0.22	0.22	0.06		0.04	0.31	0.72	0.14	144.58	0.01	0.01	0.00
175 kW (Warehousing)	0.43	3.48	8.07	1.55	1,619.31	0.06	0.06	0.02		0.01	0.09	0.20	0.04	40.48	0.00	0.00	0.00
Generator Total	12.38	99.01	229.83	44.20	46,111.81	1.77	1.77	0.44	Generator Total	0.31	2.48	5.75	1.10	1,152.79	0.04	0.04	0.01
Total	37.10	104.57	244.35	75.35	53,852.19	2.54	2.48	0.48	Total	4.82	3.49	8.40	6.79	2,565.41	0.18	0.17	0.02
Mitigated - Tier 4 and Limit Testing to 6.25 hrs																	
Emergency Generators																	
2000 kW (IMF)	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18		0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
750 kW (Warehousing)	1.94	15.52	36.03	6.93	7,229.07	0.28	0.28	0.07		0.01	0.06	0.14	0.03	28.92	0.00	0.00	0.00
500 kW (Warehousing)	1.29	10.35	24.02	4.62	4,819.38	0.18	0.18	0.05		0.01	0.04	0.10	0.02	19.28	0.00	0.00	0.00
350 kW (Warehousing)	0.91	7.24	16.81	3.23	3,373.56	0.13	0.13	0.03		0.00	0.03	0.07	0.01	13.49	0.00	0.00	0.00
250 kW (Warehousing)	0.65	5.17	12.01	2.31	2,409.69	0.09	0.09	0.02		0.00	0.02	0.05	0.01	9.64	0.00	0.00	0.00
175 kW (Warehousing)	0.45	3.62	8.41	1.62	1,686.78	0.06	0.06	0.02		0.00	0.01	0.03	0.01	6.75	0.00	0.00	0.00
Daily Max	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18	Generator Total	0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
Total	29.90	46.95	110.60	49.63	27,017.89	1.51	1.45	0.22	Total	5.40	0.74	30.51	3.09	6,206.89	0.12	0.12	0.06
IMF Emergency Generators	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18		0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
Warehouse Emergency Generators	5.24	41.91	97.29	18.71	19,518.48	0.75	0.75	0.19		0.02	0.17	0.39	0.07	78.07	0.00	0.00	0.00

Equipment Emissions

2033					Hrs per Day per	Hours per Year	Total hp-hr per day	Total hp-hr per year	OFFROAD2021 (v1.0.5) Emissions Rates (g/bhp/hr)							
Equipment	**Fuel Type**	**Quantity**	**HP**	**LF**	**Unit**	**per Unit**			**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	Hybrid	8	165	0.15	7	2,500	9,042	3,300,330	0.059623	0.070957	0.238895	0.265241	109.4092	0.013312	0.012247	0.00104
Rail Car Wheel Change Machine	Diesel	2	160	0.43	4	1,460	1,280	467,200	0.215446	0.256398	1.989154	1.584282	518.3414	0.062466	0.057468	0.00491
Air Compressors	Diesel	2	78	0.48	2	730	312	113,880	0.252267	0.304797	2.408694	1.845319	305.5394	0.037094	0.036156	0.00376
Welders	Gasoline	2	46	0.45	1	365	92	33,580	0.259542	0.312967	2.299442	1.978476	323.5634	0.041687	0.04332	0.00389
Truck Transport Refrigeration Units	Diesel	19	50	0.56	4.91	1,794	4,625	1,688,170	2.840973	0.413913	0.325127	2.534595	508.9171	0.040718	0.037461	8.6E-06
Emergency Generators									**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
2000 kW (IMF)	Diesel	10	2,682	0.74	1	50	26,820	1,341,022	1.02	1.12	2.6	4.56	521.64	0.15	0.15	0.005
750 kW (Warehousing)	Diesel	5	1,006	0.74	1	50	5,029	251,442	1.02	1.12	2.6	4.56	521.64	0.15	0.15	0.005
500 kW (Warehousing)	Diesel	2	671	0.74	1	50	1,341	67,051	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	1	50	469	23,468	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
250 kW (Warehousing)	Diesel	15	335	0.74	1	50	5,029	251,442	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
175 kW (Warehousing)	Diesel	6	235	0.74	1	50	1,408	70,404	1.02	1.12	3.7	2.85	521.64	0.15	0.15	0.005
Warehouse CHE									**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Warehouse Yard Trucks	Diesel	32	225	0.39	4	1460	28,800	10,512,000	0.05	0.05	2.6	0.26	529	0.01	0.01	0.005
Warehouse Forklifts	Diesel	540	106	0.3	4	1460	228,960	83,570,400	0.05	0.05	3.7	0.26	529	0.01	0.01	0.005

Horsepower and Load Factors from CARB, *2022 Cargo Handling Equipment Emissions Inventory* , December 2022.

Tier 4

Emergency Generators

2000 kW (IMF)	Diesel	10	2,682	0.74	1	50	26,820	1,341,022	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
750 kW (Warehousing)	Diesel	5	1,006	0.74	1	50	5,029	251,442	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
500 kW (Warehousing)	Diesel	2	671	0.74	1	50	1,341	67,051	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	1	50	469	23,468	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
250 kW (Warehousing)	Diesel	15	335	0.74	1	50	5,029	251,442	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
175 kW (Warehousing)	Diesel	6	235	0.74	1	50	1,408	70,404	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005

Tier 4

Mitigated - Tier 4 and Limit Testing to 6.25 hrs/day

Emergency Generators

2000 kW (IMF)	Diesel	1	2,682	0.74	6.25	50	16,763	134,102	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
750 kW (Warehousing)	Diesel	1	1,006	0.74	6.25	50	6,286	50,288	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
500 kW (Warehousing)	Diesel	1	671	0.74	6.25	50	4,191	33,526	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	6.25	50	2,933	23,468	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
250 kW (Warehousing)	Diesel	1	335	0.74	6.25	50	2,095	16,763	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
175 kW (Warehousing)	Diesel	1	235	0.74	6.25	50	1,467	11,734	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005

Mitigated (Tier 4 and Limit Testing to 6.25 hrs/day)

Sources:

CARB, 2022 Cargo Handling EquipmentEmissionsInventory, December 2022.

CARB OFFROAD 2021

Port of Long Beach RTG Crane Load Factor Study, 2009.

CalEEMod2022 Users Guide Appenix G

ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

Equipment Emissions

2033	**Emissions (pounds/day)**									**Emissions (tons/year)**							
Equipment	**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**		**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.19	1.41	4.76	5.29	2,180.99	0.27	0.24	0.02		2.17E-01	0.258139	0.869099	0.964943	398.029745	0.04843	0.044556	0.003772
Rail Car Wheel Change Machine	0.61	0.72	5.61	4.47	1,462.72	0.18	0.16	0.01		0.110954	0.132045	1.024414	0.815905	266.9456778	0.03217	0.029596	0.002529
Air Compressors	0.17	0.21	1.66	1.27	210.16	0.03	0.02	0.00		0.031667	0.038262	0.302366	0.231645	38.35472502	0.004656	0.004539	0.000473
Welders	0.05	0.06	0.47	0.40	65.63	0.01	0.01	0.00		0.009607	0.011585	0.085115	0.073234	11.97689322	0.001543	0.001604	0.000144
Truck Transport Refrigeration Units	28.97	4.22	3.32	25.84	5,189.25	0.42	0.38	0.00		5.286733	0.770245	0.605025	4.716598	947.0380019	0.075771	0.06971	1.6E-05
Total CHE	30.99	6.63	15.81	37.27	9,108.74	0.89	0.82	0.04	Total CHE	5.66	1.21	2.89	6.80	1,662.35	0.16	0.15	0.01
Emergency Generators																	
2000 kW (IMF)	60.31	66.22	153.74	269.63	30,844.02	8.87	8.87	0.30		1.51	1.66	3.84	6.74	771.10	0.22	0.22	0.01
750 kW (Warehousing)	11.31	12.42	28.83	50.56	5,783.25	1.66	1.66	0.06		0.28	0.31	0.72	1.26	144.58	0.04	0.04	0.00
500 kW (Warehousing)	3.02	3.31	7.69	8.43	1,542.20	0.44	0.44	0.01		0.08	0.08	0.19	0.21	38.56	0.01	0.01	0.00
350 kW (Warehousing)	1.06	1.16	2.69	2.95	539.77	0.16	0.16	0.01		0.03	0.03	0.07	0.07	13.49	0.00	0.00	0.00
250 kW (Warehousing)	11.31	12.42	28.83	31.60	5,783.25	1.66	1.66	0.06		0.28	0.31	0.72	0.79	144.58	0.04	0.04	0.00
175 kW (Warehousing)	3.17	3.48	11.49	8.85	1,619.31	0.47	0.47	0.02		0.08	0.09	0.29	0.22	40.48	0.01	0.01	0.00
Generator Total	90.17	99.01	233.25	372.00	46,111.81	13.26	13.26	0.44	Generator Total	2.25	2.48	5.83	9.30	1,152.79	0.33	0.33	0.01
Total	121.16	105.64	249.06	409.28	55,220.55	14.15	14.08	0.48	Total	7.91	3.69	8.72	16.10	2,815.14	0.49	0.48	0.02
IMF Emergency Generators	60.31	66.22	153.74	269.63	30,844.02	8.87	8.87	0.30		1.51	1.66	3.84	6.74	771.10	0.22	0.22	0.01
Warehouse Emergency Generators	29.85	32.78	79.51	102.37	15,267.79	4.39	4.39	0.15		0.75	0.82	1.99	2.56	381.69	0.11	0.11	0.00
Warehouse CHE																	
Warehouse Yard Trucks	3.17	3.17	165.08	16.51	33,587.86	0.63	0.63	0.32		0.58	0.58	30.13	3.01	6129.78	0.12	0.12	0.06
Warehouse Forklifts	25.24	25.24	1,867.65	131.24	267,023.52	5.05	5.05	2.52		4.61	4.61	340.85	23.95	48731.78	0.92	0.92	0.46
Warehouse CHE Total	28.41	28.41	2,032.73	147.75	300,611.39	5.68	5.68	2.84		5.19	5.19	370.97	26.96	54,861.57	1.04	1.04	0.52
Tier 4																	
Emergency Generators																	
2000 kW (IMF)	8.28	66.22	153.74	29.56	30,844.02	1.18	1.18	0.30		0.21	1.66	3.84	0.74	771.10	0.03	0.03	0.01
750 kW (Warehousing)	1.55	12.42	28.83	5.54	5,783.25	0.22	0.22	0.06		0.04	0.31	0.72	0.14	144.58	0.01	0.01	0.00
500 kW (Warehousing)	0.41	3.31	7.69	1.48	1,542.20	0.06	0.06	0.01		0.01	0.08	0.19	0.04	38.56	0.00	0.00	0.00
350 kW (Warehousing)	0.14	1.16	2.69	0.52	539.77	0.02	0.02	0.01		0.00	0.03	0.07	0.01	13.49	0.00	0.00	0.00
250 kW (Warehousing)	1.55	12.42	28.83	5.54	5,783.25	0.22	0.22	0.06		0.04	0.31	0.72	0.14	144.58	0.01	0.01	0.00
175 kW (Warehousing)	0.43	3.48	8.07	1.55	1,619.31	0.06	0.06	0.02		0.01	0.09	0.20	0.04	40.48	0.00	0.00	0.00
Generator Total	12.38	99.01	229.83	44.20	46,111.81	1.77	1.77	0.44	Generator Total	0.31	2.48	5.75	1.10	1,152.79	0.04	0.04	0.01
Total	43.37	105.64	245.65	81.47	55,220.55	2.66	2.59	0.48	Total	5.97	3.69	8.63	7.91	2,815.14	0.21	0.19	0.02
Mitigated - Tier 4 and Limit Testing to 6.25 hrs																	
Emergency Generators																	
2000 kW (IMF)	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18		0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
750 kW (Warehousing)	1.94	15.52	36.03	6.93	7,229.07	0.28	0.28	0.07		0.01	0.06	0.14	0.03	28.92	0.00	0.00	0.00
500 kW (Warehousing)	1.29	10.35	24.02	4.62	4,819.38	0.18	0.18	0.05		0.01	0.04	0.10	0.02	19.28	0.00	0.00	0.00
350 kW (Warehousing)	0.91	7.24	16.81	3.23	3,373.56	0.13	0.13	0.03		0.00	0.03	0.07	0.01	13.49	0.00	0.00	0.00
250 kW (Warehousing)	0.65	5.17	12.01	2.31	2,409.69	0.09	0.09	0.02		0.00	0.02	0.05	0.01	9.64	0.00	0.00	0.00
175 kW (Warehousing)	0.45	3.62	8.41	1.62	1,686.78	0.06	0.06	0.02		0.00	0.01	0.03	0.01	6.75	0.00	0.00	0.00
Daily Max	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18	Generator Total	0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
Total	36.16	48.02	111.90	55.75	28,386.25	1.63	1.56	0.22	Total	6.54	0.74	30.51	3.09	6,206.89	0.12	0.12	0.06
IMF Emergency Generators	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18		0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
Warehouse Emergency Generators	5.24	41.91	97.29	18.71	19,518.48	0.75	0.75	0.19		0.02	0.17	0.39	0.07	78.07	0.00	0.00	0.00

Equipment Emissions

2048					Hrs per Day per	Hours per Year per	Total hp-hr per	Total hp-hr per	OFFROAD2021 (v1.0.5) Emissions Rates (g/bhp/hr)							
Equipment	**Fuel Type**	**Quantity**	**HP**	**LF**	**Unit**	**Unit**	**day**	**year**	**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	Hybrid	10	165	0.15	6.85	2,500	11,303	4,125,413	0.043073	0.05126	0.239553	0.030317	109.4092	0.002512	0.002308	0.001037
Rail Car Wheel Change Machine	Diesel	2	160	0.43	5	1,825	1,600	584,000	0.197554	0.235106	2.005221	0.924894	527.8053	0.020579	0.018933	0.005
Air Compressors	Diesel	2	78	0.48	3	1,095	468	170,820	0.213603	0.258004	2.359719	1.712247	306.0024	0.013096	0.014053	0.003772
Welders	Gasoline	2	46	0.45	2	730	184	67,160	0.224488	0.270532	2.261717	1.859509	325.0057	0.019125	0.022454	0.003901
Truck Transport Refrigeration Units	Diesel	23	50	0.56	4.91	1,792	5,700	2,080,430	2.803583	0.390667	0.307647	2.530682	504.8349	0.017995	0.016557	8.59E-06
Emergency Generators									**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
2000 kW (IMF)	Diesel	10	2,682	0.74	1	50	26,820	1,341,022	1.02	1.12	2.6	4.56	521.64	0.15	0.15	0.005
750 kW (Warehousing)	Diesel	5	1,006	0.74	1	50	5,029	251,442	1.02	1.12	2.6	4.56	521.64	0.15	0.15	0.005
500 kW (Warehousing)	Diesel	2	671	0.74	1	50	1,341	67,051	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	1	50	469	23,468	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
250 kW (Warehousing)	Diesel	15	335	0.74	1	50	5,029	251,442	1.02	1.12	2.6	2.85	521.64	0.15	0.15	0.005
175 kW (Warehousing)	Diesel	6	235	0.74	1	50	1,408	70,404	1.02	1.12	3.7	2.85	521.64	0.15	0.15	0.005
Warehouse CHE									**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Warehouse Yard Trucks	Diesel	32	225	0.39	4	1460	28,800	10,512,000	0.14742	0.217	2.2	0.3	526.165	0.015	0.015	0.005
Warehouse Forklifts	Diesel	540	106	0.3	4	1460	228,960	83,570,400	0.05	0.05	3.7	0.26	529	0.01	0.01	0.005

Horsepower and Load Factors from CARB, *2022 Cargo Handling Equipment Emissions Inventory* , December 2022.

Tier 4

Emergency Generators																
2000 kW (IMF)	Diesel	10	2,682	0.74	1	50	26,820	1,341,022	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
750 kW (Warehousing)	Diesel	5	1,006	0.74	1	50	5,029	251,442	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
500 kW (Warehousing)	Diesel	2	671	0.74	1	50	1,341	67,051	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	1	50	469	23,468	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
250 kW (Warehousing)	Diesel	15	335	0.74	1	50	5,029	251,442	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
175 kW (Warehousing)	Diesel	6	235	0.74	1	50	1,408	70,404	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005

Mitigated

Mitigated - Tier 4 and Limit Testing to 6.25 hrs/day

Emergency Generators																
2000 kW (IMF)	Diesel	1	2,682	0.74	6.25	50	16,763	134,102	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
750 kW (Warehousing)	Diesel	1	1,006	0.74	6.25	50	6,286	50,288	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
500 kW (Warehousing)	Diesel	1	671	0.74	6.25	50	4,191	33,526	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
350 kW (Warehousing)	Diesel	1	469	0.74	6.25	50	2,933	23,468	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
250 kW (Warehousing)	Diesel	1	335	0.74	6.25	50	2,095	16,763	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005
175 kW (Warehousing)	Diesel	1	235	0.74	6.25	50	1,467	11,734	0.14	1.12	2.6	0.5	521.64	0.02	0.02	0.005

Mitigated (Tier 4 and Limit Testing to 6.25 hrs/day)

Sources:
CARB, 2022 Cargo Handling EquipmentEmissionsInventory, December 2022.
CARB OFFROAD 2021
Port of Long Beach RTG Crane Load Factor Study, 2009.
CalEEMod2022 Users Guide Appenix G
ROG value calculated as 105.3% of HC value per EPA Conversion Factors for Hydrocarbon Emission Components (2005)

Equipment Emissions

2048	**Emissions (pounds/day)**								**Emissions (tons/year)**							
Equipment	**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**	**ROG**	**TOG**	**CO**	**NO_X**	**CO_2**	**PM_{10}**	**$PM_{2.5}$**	**SO_X**
Rubber Tired Gantry (RTG) Cranes (Mi-Jack)	1.07	1.28	5.97	0.76	2,726.23	0.06	0.06	0.03	0.195873	0.233105	1.089362	0.137864	497.537181	0.011424	0.010495	0.004714
Rail Car Wheel Change Machine	0.70	0.83	7.07	3.26	1,861.78	0.07	0.07	0.02	0.127175	0.151349	1.29086	0.5954	339.774449	0.013248	0.012188	0.003219
Air Compressors	0.22	0.27	2.43	1.77	315.72	0.01	0.01	0.00	0.040221	0.048581	0.444327	0.32241	57.6192592	0.002466	0.002646	0.00071
Welders	0.09	0.11	0.92	0.75	131.84	0.01	0.01	0.00	0.016619	0.020028	0.167438	0.137662	24.0605608	0.001416	0.001662	0.000289
Truck Transport Refrigeration Units	35.23	4.91	3.87	31.80	6,343.72	0.23	0.21	0.00	6.429403	0.895909	0.705521	5.803565	1157.72829	0.041268	0.03797	1.97E-05
Total	37.31	7.39	20.26	38.34	11,379.29	0.38	0.36	0.05	Total 6.81	1.35	3.70	7.00	2,076.72	0.07	0.06	0.01
Emergency Generators																
2000 kW (IMF)	60.31	66.22	153.74	269.63	30,844.02	8.87	8.87	0.30	1.507788	1.65561	3.84338	6.740698	771.100322	0.221733	0.221733	0.007391
750 kW (Warehousing)	11.31	12.42	28.83	50.56	5,783.25	1.66	1.66	0.06	0.28271	0.310427	0.720634	1.263881	144.58131	0.041575	0.041575	0.001386
500 kW (Warehousing)	3.02	3.31	7.69	8.43	1,542.20	0.44	0.44	0.01	0.075389	0.08278	0.192169	0.210647	38.5550161	0.011087	0.011087	0.00037
350 kW (Warehousing)	1.06	1.16	2.69	2.95	539.77	0.16	0.16	0.01	0.026386	0.028973	0.067259	0.073726	13.4942556	0.00388	0.00388	0.000129
250 kW (Warehousing)	11.31	12.42	28.83	31.60	5,783.25	1.66	1.66	0.06	0.28271	0.310427	0.720634	0.789925	144.58131	0.041575	0.041575	0.001386
175 kW (Warehousing)	3.17	3.48	11.49	8.85	1,619.31	0.47	0.47	0.02	0.079159	0.08692	0.287145	0.221179	40.4827669	0.011641	0.011641	0.000388
Generator Total	90.17	99.01	233.25	372.00	46,111.81	13.26	13.26	0.44	Generator Total 2.25	2.48	5.83	9.30	1,152.79	0.33	0.33	0.01
Total	127.48	106.40	253.51	410.34	57,491.10	13.64	13.62	0.49	Total 9.06	3.82	9.53	16.30	3229.51	0.40	0.40	0.02
IMF Emergency Generators	60.31	66.22	153.74	269.63	30,844.02	8.87	8.87	0.30	1.51	1.66	3.84	6.74	771.10	0.22	0.22	0.01
Warehouse Emergency Generators	29.85	32.78	79.51	102.37	15,267.79	4.39	4.39	0.15	0.75	0.82	1.99	2.56	381.69	0.11	0.11	0.00
Warehouse CHE																
Warehouse Yard Trucks	9.36	13.78	139.68	19.05	33,407.86	0.95	0.95	0.32	1.71	2.51	25.49	3.48	6096.93	0.17	0.17	0.06
Warehouse Forklifts	25.24	25.24	1,867.65	131.24	267,023.52	5.05	5.05	2.52	4.61	4.61	340.85	23.95	48731.78	0.92	0.92	0.46
Warehouse CHE Total	34.60	39.02	2,007.34	150.29	300,431.38	6.00	6.00	2.84	6.31	7.12	366.34	27.43	54,828.72	1.10	1.10	0.52
Tier 4																
Emergency Generators																
2000 kW (IMF)	8.28	66.22	153.74	29.56	30,844.02	1.18	1.18	0.30	0.206951	1.65561	3.84338	0.739112	771.100322	0.029564	0.029564	0.007391
750 kW (Warehousing)	1.55	12.42	28.83	5.54	5,783.25	0.22	0.22	0.06	0.038803	0.310427	0.720634	0.138583	144.58131	0.005543	0.005543	0.001386
500 kW (Warehousing)	0.41	3.31	7.69	1.48	1,542.20	0.06	0.06	0.01	0.010348	0.08278	0.192169	0.036956	38.5550161	0.001478	0.001478	0.00037
350 kW (Warehousing)	0.14	1.16	2.69	0.52	539.77	0.02	0.02	0.01	0.003622	0.028973	0.067259	0.012934	13.4942556	0.000517	0.000517	0.000129
250 kW (Warehousing)	1.55	12.42	28.83	5.54	5,783.25	0.22	0.22	0.06	0.038803	0.310427	0.720634	0.138583	144.58131	0.005543	0.005543	0.001386
175 kW (Warehousing)	0.43	3.48	8.07	1.55	1,619.31	0.06	0.06	0.02	0.010865	0.08692	0.201777	0.038803	40.4827669	0.001552	0.001552	0.000388
Generator Total	12.38	99.01	229.83	44.20	46,111.81	1.77	1.77	0.44	Generator Total 0.31	2.48	5.75	1.10	1,152.79	0.04	0.04	0.01
Total	49.69	106.40	250.09	82.54	57,491.10	2.15	2.12	0.49	Total 7.12	3.82	9.44	8.10	3229.51	0.11	0.11	0.02
Mitigated - Tier 4 and Limit Testing to 6.25 hrs.																
Emergency Generators																
2000 kW (IMF)	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18	0.020695	0.165561	0.384338	0.073911	77.1100322	0.002956	0.002956	0.000739
750 kW (Warehousing)	1.94	15.52	36.03	6.93	7,229.07	0.28	0.28	0.07	0.007761	0.062085	0.144127	0.027717	28.9162621	0.001109	0.001109	0.000277
500 kW (Warehousing)	1.29	10.35	24.02	4.62	4,819.38	0.18	0.18	0.05	0.005174	0.04139	0.096085	0.018478	19.277508	0.000739	0.000739	0.000185
350 kW (Warehousing)	0.91	7.24	16.81	3.23	3,373.56	0.13	0.13	0.03	0.003622	0.028973	0.067259	0.012934	13.4942556	0.000517	0.000517	0.000129
250 kW (Warehousing)	0.65	5.17	12.01	2.31	2,409.69	0.09	0.09	0.02	0.002587	0.020695	0.048042	0.009239	9.63875402	0.00037	0.00037	9.24E-05
175 kW (Warehousing)	0.45	3.62	8.41	1.62	1,686.78	0.06	0.06	0.02	0.001811	0.014487	0.03363	0.006467	6.74712782	0.000259	0.000259	6.47E-05
Daily Max	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18	Generator Total 0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
Total	14.53	55.17	235.77	37.53	52,685.37	1.69	1.69	0.50	Total 1.73	2.68	25.88	3.55	6174.04	0.18	0.18	0.06
IMF Emergency Generators	5.17	41.39	96.08	18.48	19,277.51	0.74	0.74	0.18	0.02	0.17	0.38	0.07	77.11	0.00	0.00	0.00
Warehouse Emergency Generators	5.24	41.91	97.29	18.71	19,518.48	0.75	0.75	0.19	0.02	0.17	0.39	0.07	78.07	0.00	0.00	0.00

Appendix A2.4: Area-Energy

Area Source Emissions - Summary

	2028 Unmitigated pounds/day						2028 Unmitigated tons/year						MT/year
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
Architectural Coatings	58.17	-	-	-	-	-	10.62	-	-	-	-	-	-
Degreaser on Parking Surfaces	0.01	-	-	-	-	-	0.00	-	-	-	-	-	-
Consumer Products	195.81	-	-	-	-	-	35.74	-	-	-	-	-	-
Landscape Equipment	1.83	0.62	71.78	0.00	0.00	0.00	0.16	0.06	6.46	0.00	0.00	0.00	21
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	27,822
Water	-	-	-	-	-	-	-	-	-	-	-	-	24
Wastewater	-	-	-	-	-	-	-	-	-	-	-	-	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	2,396
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	40,372
Total	*255.81*	*0.62*	*71.78*	*0.00*	*0.00*	*0.00*	*46.52*	*0.06*	*6.46*	*0.00*	*0.00*	*0.00*	*70,675*
Area Sources Total	255.81	0.62	71.78	0.00	0.00	0.00	46.52	0.06	6.46	0.00	0.00	0.00	21
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	27,822
Water/Wastewater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	2,396
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	40,372

	2028 Mitigated pounds/day						2028 Mitigated tons/year						MT/year
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
Architectural Coatings	11.62	-	-	-	-	-	2.12	-	-	-	-	-	-
Degreaser on Parking Surfaces	0.01	-	-	-	-	-	0.00	-	-	-	-	-	-
Consumer Products	195.81	-	-	-	-	-	35.74	-	-	-	-	-	-
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	27,822
Water	-	-	-	-	-	-	-	-	-	-	-	-	24
Wastewater	-	-	-	-	-	-	-	-	-	-	-	-	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	599
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	0
Total	*207.44*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*37.86*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*28,485*
Area Sources Total	207.44	0.00	0.00	0.00	0.00	0.00	37.86	0.00	0.00	0.00	0.00	0.00	0
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	27,822
Water/Wastewater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	599
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	0

Area Source Emissions - Summary

	2033 Unmitigated pounds/day						2033 Unmitigated tons/year						MT/year
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
Architectural Coatings	58.17	-	-	-	-	-	10.62	-	-	-	-	-	-
Degreaser on Parking Surfaces	0.01	-	-	-	-	-	0.00	-	-	-	-	-	-
Consumer Products	195.81	-	-	-	-	-	35.74	-	-	-	-	-	-
Landscape Equipment	1.83	0.62	71.78	0.00	0.00	0.00	0.16	0.06	6.46	0.00	0.00	0.00	21
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	21,757
Water	-	-	-	-	-	-	-	-	-	-	-	-	19
Wastewater	-	-	-	-	-	-	-	-	-	-	-	-	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	2,396
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	40,372
Total	*255.81*	*0.62*	*71.78*	*0.00*	*0.00*	*0.00*	*46.52*	*0.06*	*6.46*	*0.00*	*0.00*	*0.00*	*64,605*
Area Sources Total	255.81	0.62	71.78	0.00	0.00	0.00	46.52	0.06	6.46	0.00	0.00	0.00	21
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	21,757
Water/Wastewater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	2,396
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	40,372

	2033 Mitigated pounds/day						2033 Mitigated tons/year						MT/year
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
Architectural Coatings	11.62	-	-	-	-	-	2.12	-	-	-	-	-	-
Degreaser on Parking Surfaces	0.01	-	-	-	-	-	0.00	-	-	-	-	-	-
Consumer Products	195.81	-	-	-	-	-	35.74	-	-	-	-	-	-
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	21,757
Water	-	-	-	-	-	-	-	-	-	-	-	-	19
Wastewater	-	-	-	-	-	-	-	-	-	-	-	-	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	599
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	0
Total	*207.44*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*37.86*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*22,415*
Area Sources Total	207.44	0.00	0.00	0.00	0.00	0.00	37.86	0.00	0.00	0.00	0.00	0.00	0
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	21,757
Water/Wastewater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	599
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	0

Area Source Emissions - Summary

	2048 Unmitigated pounds/day						2048 Unmitigated tons/year						MT/year
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
Architectural Coatings	58.17	-	-	-	-	-	10.62	-	-	-	-	-	-
Degreaser on Parking Surfaces	0.01	-	-	-	-	-	0.00	-	-	-	-	-	-
Consumer Products	195.81	-	-	-	-	-	35.74	-	-	-	-	-	-
Landscape Equipment	1.83	0.62	71.78	0.00	0.00	0.00	0.16	0.06	6.46	0.00	0.00	0.00	21
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	0
Water	-	-	-	-	-	-	-	-	-	-	-	-	0
Wastewater	-	-	-	-	-	-	-	-	-	-	-	-	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	2,396
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	40,372
Total	*255.81*	*0.62*	*71.78*	*0.00*	*0.00*	*0.00*	*46.52*	*0.06*	*6.46*	*0.00*	*0.00*	*0.00*	*42,829*
Area Sources Total	255.81	0.62	71.78	0.00	0.00	0.00	46.52	0.06	6.46	0.00	0.00	0.00	21
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	0
Water/Wastewater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	2,396
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	40,372

	2048 Mitigated pounds/day						2048 Mitigatedtons/year						MT/year
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
Architectural Coatings	11.62	-	-	-	-	-	0.00	-	-	-	-	-	-
Degreaser on Parking Surfaces	0.01	-	-	-	-	-	0.00	-	-	-	-	-	-
Consumer Products	195.81	-	-	-	-	-	35.74	-	-	-	-	-	-
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	0
Water	-	-	-	-	-	-	-	-	-	-	-	-	0
Wastewater	-	-	-	-	-	-	-	-	-	-	-	-	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	599
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	0
Total	*207.44*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*35.74*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*639*
Area Sources Total	207.44	0.00	0.00	0.00	0.00	0.00	35.74	0.00	0.00	0.00	0.00	0.00	0
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Electricity	-	-	-	-	-	-	-	-	-	-	-	-	0
Water/Wastewater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40
Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	599
Refrigerants	-	-	-	-	-	-	-	-	-	-	-	-	0

Architectural Coatings - Operations

$E_{AC} = EF_{AC} \times F\ A_{paint} \times Reapplication$

Where:	E_{AC}=		emissions (lb VOC)
	EF =	0.011589578	emissions factor (lb/sf) (unmitigated)
	EF =	0.002317916	emissions factor (lb/sf) (mitigated)
	A =		building surface area (sf) (assumes 2 times the floor square footage for nonresidential)
	F =	0.25	exterior (fraction of surface area, 25% for exterior)
		0.75	interior (fraction of surface area, 75% for interior)
		0.06	parking (Default parking lot area)
	Reapplication =	0.1	Rate at which surfaces are repainted (10% of area per year)

Unmitigated		**Reapplication**	**Emissions (VOC)**				
	Total SF	**Area SF**	**Exterior**	**Interior**	**Total (lbs)**	**Total (tons)**	**Pounds/Day**
IMF Building SF	150,000	30,000	86.9218341	260.765502	347.69	0.17	0.95
Transload Building SF	9,000,000	1,800,000	5215.31004	15645.9301	20,861.24	10.43	57.15
IMF Paved Area SF	800,000	4,800	-	-	3.34	0.00	0.01
Transload Parking SF	4,500,000	27,000	-	-	18.78	0.01	0.05
					Unmitigated Total:	**10.62**	**58.17**

Mitigated		**Reapplication**	**Emissions (VOC)**				
	Total SF	**Area SF**	**Exterior**	**Interior**	**Total (lbs)**	**Total (tons)**	**Pounds/Day**
IMF Building SF	150,000	30,000	17.3843668	52.1531004	69.54	0.03	0.19
Transload Building SF	9,000,000	1,800,000	1043.06201	3129.18603	4,172.25	2.09	11.43
IMF Paved Area SF	800,000	4,800	-	-	0.00	0.00	0.00
Transload Parking SF	4,500,000	27,000	-	-	0.00	0.00	0.00
					Mitigated Total:	**2.12**	**11.62**

Emissions Factor

$EF_{AC} = C_{VOC} / 454$ (g/lb) x 3.785 (L/gal)/180 (sf)

Where:	EF =		emissions factor (lb/sf)
	C =	250	VOC content (g/L) (unmitigated)
		50	VOC content (g/L) (mitigated)
	EF_{AC} =	0.011589578	Umitigated
		0.002317916	Mitigated

VOC Content

	Unmitigated
Nonresidential Interior:	250 g/L
Nonresidential Exterior:	250 g/L
Parking:	250 g/L

Unmitigated VOC content per CalEEMod defaults (CalEEMod User's Guide, Appendix D, Table 6.1)

VOC from Parking Lot Striping

$A_{paint} = A_{PL} \times P\%$

Where:	A_{PL} =		Parking lot area
	P% =	0.06	Default percent of parking lot area that is painted (6%)

Source: Architectural Coatings calculated per California Air Pollution Control Officers Association, *CalEEMod User's Guide, AppendixA: Calculation Details, pages 32-33* , May 2021.

Consumer Products

Emissions = EF x Building Area

Where:

EF = 2.14E-05 pounds of VOC per building square foot per day (non-SCAQMD)
2.04E-05 pounds of VOC per building square foot per day (SCAQMD)

	SF	VOC (lbs/day)
IMF Buildings:	150,000	3.21
Transload Buildings:	9,000,000	192.60
Total:	9,150,000	195.81

Source: Architectural Coatings calculated per California Air Pollution Control Officers Association, *CalEEMod User's Guide, Appendix D3: Consumer Products Summary, page D-8* , April 2022.

Landscape Equipment

Days/Year: 180

	Landscaped Area (SF)	
IMF Buildings	4,500	(at admin building and entrance sign)
Parking	1,000	
Transload	900,000	
Total Landscaped Area:	905,500	

Note: Facility landscaping will be held to a minimum and that would only be around the admin buildings.
Landscaping may consist of decorative stone and an occasional local low maintenance trees, cactus, or shrubs.

Nonresidential Landscape Equipment	Fuel	Usage hrs/day/sf	HP	LF
Leaf Blowers/Vacuums	Gasoline 4-Stroke	1.98E-06	10	0.94
Other Lawn & Garden Equipment	Gasoline 4-Stroke	1.37E-07	25	0.58
Riding Mowers	Gasoline 4-Stroke	1.13E-06	20	0.38
Trimmers/Edgers/Brush Cutters	Gasoline 2-Stroke	0.000015	10	0.91

Source: California Air Resources Board, Small Off-Road Engines Model v1.1, 2020.
https://ww2.arb.ca.gov/sites/default/files/classic/msei/sore2020/sore2020_final_version1.1.zip

2028
grams per horsepower-hour

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O
Leaf Blowers/Vacuums	6.47	6.14	2.69	257.70	0.01	0.01	0.01	658.31	0.03	0.01
Other Lawn & Garden Equipment	4.53	4.20	2.49	317.31	0.01	0.01	0.01	657.61	0.03	0.01
Riding Mowers	5.58	5.19	2.23	305.34	0.01	0.01	0.01	623.79	0.03	0.01
Trimmers/Edgers/Brush Cutters	5.85	5.48	1.73	204.45	0.01	0.01	0.01	796.48	0.03	0.01

2033
grams per horsepower-hour

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O
Leaf Blowers/Vacuums	6.47	6.14	2.69	257.70	0.01	0.01	0.01	658.31	0.03	0.01
Other Lawn & Garden Equipment	4.54	4.21	2.49	317.31	0.01	0.01	0.01	657.61	0.03	0.01
Riding Mowers	5.59	5.19	2.23	305.36	0.01	0.01	0.01	623.79	0.03	0.01
Trimmers/Edgers/Brush Cutters	5.85	5.48	1.73	204.45	0.01	0.01	0.01	796.48	0.03	0.01

2048
grams per horsepower-hour

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O
Leaf Blowers/Vacuums	6.47	6.14	2.69	257.70	0.01	0.01	0.01	658.31	0.03	0.01
Other Lawn & Garden Equipment	4.54	4.21	2.49	317.32	0.01	0.01	0.01	657.61	0.03	0.01
Riding Mowers	5.59	5.19	2.23	305.36	0.01	0.01	0.01	623.79	0.03	0.01
Trimmers/Edgers/Brush Cutters	5.85	5.48	1.73	204.45	0.01	0.01	0.01	796.48	0.03	0.01

Source: CalEEMod 2022 Appendix G, Table G-26 Statewide Average Annual Landscape Equipment Emission Factors (grams per horsepower-hour)

2028
pounds per day

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O
Leaf Blowers/Vacuums	0.240392	0.22813089	0.0999466	9.57481	0.0003715	0.0003715	0.000372	24.45942	0.0011146	0.00037155
Other Lawn & Garden Equipment	0.0179643	0.01665561	0.0098744	1.258331	3.966E-05	3.966E-05	3.97E-05	2.607832	0.000119	3.9656E-05
Riding Mowers	0.0956641	0.08897789	0.03823135	5.23478	0.0001714	0.0001714	0.000171	10.69432	0.0005143	0.00017144
Trimmers/Edgers/Brush Cutters	1.594084	1.49326159	0.47141288	55.71119	0.0027249	0.0027249	0.002725	217.0352	0.0081748	0.00272493
Total	1.9481043	1.82702598	0.61946521	71.77911	0.0033076	0.0033076	0.003308			

2033
pounds per day

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O
Leaf Blowers/Vacuums	0.240392	0.22813	0.09995	9.57481	0.00037	0.00037	0.00037	24.4594	0.00111	0.00037
Other Lawn & Garden Equipment	0.018004	0.0167	0.00987	1.25833	4E-05	4E-05	4E-05	2.60783	0.00012	4E-05
Riding Mowers	0.095836	0.08898	0.03823	5.23512	0.00017	0.00017	0.00017	10.6943	0.00051	0.00017
Trimmers/Edgers/Brush Cutters	1.594084	1.49326	0.47141	55.7112	0.00272	0.00272	0.00272	217.035	0.00817	0.00272
Total	1.948315	1.82707	0.61947	71.7795	0.00331	0.00331	0.00331			

2048
pounds per day

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O
Leaf Blowers/Vacuums	0.240392	0.2281309	0.0999466	9.5748096	0.0003715	0.0003715	0.0003715	24.459422	0.0011146	0.0003715
Other Lawn & Garden Equipment	0.0180039	0.0166953	0.0098744	1.258371	3.966E-05	3.966E-05	3.966E-05	2.6078323	0.000119	3.966E-05
Riding Mowers	0.0958355	0.0889779	0.0382313	5.2351227	0.0001714	0.0001714	0.0001714	10.694319	0.0005143	0.0001714
Trimmers/Edgers/Brush Cutters	1.594084	1.4932616	0.4714129	55.711192	0.0027249	0.0027249	0.0027249	217.03522	0.0081748	0.0027249
Total	1.9483154	1.8270656	0.6194652	71.779495	0.0033076	0.0033076	0.0033076			

2028
Tons/Year **Metric Tons/Year**

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O	CO2e
Leaf Blowers/Vacuums	0.0216353	0.02053178	0.00899519	0.861733	3.344E-05	3.344E-05	3.34E-05	1.997029	9.101E-05	3.0336E-05	2.00834
Other Lawn & Garden Equipment	0.0016168	0.001499	0.0008887	0.11325	3.569E-06	3.569E-06	3.57E-06	0.212921	9.713E-06	3.2378E-06	0.21413
Riding Mowers	0.0086098	0.00800801	0.00344082	0.47113	1.543E-05	1.543E-05	1.54E-05	0.873155	4.199E-05	1.3998E-05	0.87838
Trimmers/Edgers/Brush Cutters	0.1434676	0.13439354	0.04242716	5.014007	0.0002452	0.0002452	0.000245	17.72019	0.0006674	0.00022248	17.8032
Total	0.1753294	0.16443234	0.05575187	6.46012	0.0002977	0.0002977	0.000298	20.80329	0.0008102	0.00027005	20.904

2033
Tons/Year **Metric Tons/Year**

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O	CO2e
Leaf Blowers/Vacuums	0.021635	0.02053	0.009	0.86173	3.3E-05	3.3E-05	3.3E-05	1.99703	9.1E-05	3E-05	2.01
Other Lawn & Garden Equipment	0.00162	0.0015	0.00089	0.11325	3.6E-06	3.6E-06	3.6E-06	0.21292	9.7E-06	3.2E-06	0.21
Riding Mowers	0.008625	0.00801	0.00344	0.47116	1.5E-05	1.5E-05	1.5E-05	0.87315	4.2E-05	1.4E-05	0.88
Trimmers/Edgers/Brush Cutters	0.143468	0.13439	0.04243	5.01401	0.00025	0.00025	0.00025	17.7202	0.00067	0.00022	17.8
Total	0.175348	0.16444	0.05575	6.46015	0.0003	0.0003	0.0003	20.8033	0.00081	0.00027	20.9

2048
Tons/Year **Metric Tons/Year**

	TOG	ROG	NOX	CO	SO2	PM2.5	PM10	CO2	CH4	N2O	CO2e
Leaf Blowers/Vacuums	0.0216353	0.0205318	0.0089952	0.8617329	3.344E-05	3.344E-05	3.344E-05	1.9970289	9.101E-05	3.034E-05	2.0083441
Other Lawn & Garden Equipment	0.0016204	0.0015026	0.0008887	0.1132534	3.569E-06	3.569E-06	3.569E-06	0.2129207	9.713E-06	3.238E-06	0.2141284
Riding Mowers	0.0086252	0.008008	0.0034408	0.471161	1.543E-05	1.543E-05	1.543E-05	0.8731549	4.199E-05	1.4E-05	0.878376
Trimmers/Edgers/Brush Cutters	0.1434676	0.1343935	0.0424272	5.0140073	0.0002452	0.0002452	0.0002452	17.72019	0.0006674	0.0002225	17.803176
Total	0.1753484	0.1644359	0.0557519	6.4601546	0.0002977	0.0002977	0.0002977	20.803295	0.0008102	0.0002701	20.904024

Electricity Consumption

			CO_2e Emissions (MT/Year)		
	MWh/day	**MWh/year**	**2028**	**2033**	**2048**
IMF-W					
Yard Hostlers*	0	0	0	0	0
Yard Loads	9	3,201	613	479	0
Lighting	18	6,666	1,277	998	0
Widespan Cranes	17	6,182	1,184	926	0
Misc Charging	0.3	95	18	14	0
IMF-E2				0	
Railroad Buildings	12	4,429	848	663	0
Widespan Cranes	11	4,135	792	619	0
Misc Yard Loads	14	5,162	989	773	0
	0.2	60	11	9	0
IMF-E3				0	
Yard Hostlers	15	5,523	1,058	827	0
Fleet Vehicle Charging	1	195	37	29	0
Employee Vehicle Charging	4	1,370	262	205	0
Drayage Hostlers	23	8,330	1,595	1,248	0
Misc Charging	2	670	128	100	0
Transload Warehouses				0	
HVAC & Utilities	164	59,711	11,437	8,944	0
Exterior Lighting	21	7,712	1,477	1,155	0
Forklifts	35	12,908	2,472	1,933	0
Employee Vehicle Charging	49	17,848	3,418	2,673	0
Drayage Truck Charging	3	1,061	203	159	0
* hostlers would be charged at IMF-E3					
Total IMF	126	46,018	8,814	6,893	0
Total Transload Buildings	272	99,240	19,008	14,864	0
BIG Total	**398**	**145,258**	**27,822**	**21,757**	**0**
Solar Generation (East Area Ground Mounted)		**-49,200**	**-9,423**	**-7,369**	**0**
Net With Ground Mounted Solar		**96,058**	**18,398**	**14,388**	**0**
Warehouse Rooftop Solar (Req'd per Code)		**11,680**	-2,237	-1,749	0
Warehouse Rooftop Solar (Mitigation)		**31,025**	-5,942	-4,647	0

Source: Electrical Load Summary provided by 1898 & Co. March 20, 2025.

Energy consumption includes lighting, building energy, and equipment charging.

Transload parking assumes 4.5 million square feet at 0.876 kWH/sf/year.

Electricity Consumption Rates

	Annual Energy Use	
	kWh/sq ft	**kWh/KSF**
Parking (Lighting)	0.876	0.000876

Source: CalEEMod 2022 Users Guide, Appendix D6, Page D-21.

SCE Electricity Intensity Factor

CO_2e (Metric Tons/MWh)		
2028	**2033**	**2048**
0.192	0.150	0.000

Source: CEC Annual Power Content Label

Rootop Solar MW Provided:	**MWDC**
Required by Code	6.4
Additional Required per Mitigation	17

Water Consumption

	Building Area (SF)	Employees	Water Demand per Capita per Day (GPCD)	Gallons/Day	Gallons/Year
IMF[1]	-	1,125	15	16,875	6,159,375
Transload Warehouse[2]	9,000,000	4,248	15	63,720	23,257,800
Total	-	*5,373*	-	*80,595*	*29,417,175*

1. IMF Water assumes 1,125 employees at 15 gpd.

2. Warehouse assumes 1 person per 1,000 SF and 15 gpd per person.

Note: landscaped areas (e.g., parking lot islands) would be xeriscaped and avoid anything that requires water.

	Million Gallons/Year
Water	29
Wastewater	0.29

Wastewater pct of total water use: 1%

	kWh per million gallons			
Hydrologic Region	**Supply**	**Treat**	**Distribute**	**Wastewater**
South Lahontan	1953	748	1537	1519

Source: CalEEMod 2022 Users Guide, Appendix G (Default Data Tables) Table G-32.

Project Water Energy Consumption (MWh)

Supply, Treatment, Distribution	125
Wastewater	0.4
Total	125

SCE Electricity Intensity Factor

CO_2e (Metric Tons/MWh)			
2028	**2033**	**2048**	
0.192	0.150	0.000	(RPS projection)

CO_2e Emissions (Metric Tons/Year)

	2028	2033	2048
Water	24	19	0
Wastewater	0	0	0
Total	*24*	*19*	*0*

Wastewater

	Gallons/Day	Gallons/Year
IMF	16,875	6,159,375
Transload	63,720	23,257,800
Total	80,595	29,417,175

	Percent of Wastewater Distribution	Metric Tons CO_2 BIO	CH_4	N_2O	CO_2e
IMF Aerobic	87.46	1.91E+00	6.55E-03	4.16E-03	3.31
IMF Anaerobic (Facultative Lagoc	2.21	4.82E-02	4.95E-02	1.05E-04	1.32
IMF Septic	10.33	0.00E+00	1.44E-01	4.92E-04	3.75
Transload Aerobic	87.46	7.20E+00	2.47E-02	1.57E-02	12.50
Transload Anaerobic (Facultative	2.21	1.82E-01	1.87E-01	3.97E-04	4.97
Transload Septic	10.33	0.00E+00	5.45E-01	1.86E-03	14.18
Total	-	*9.33*	*0.96*	*0.02*	*40.03*

Table G-35. Annual Wastewater Treatment Direct Emission Factors (short ton per gallon)

Wastewater Treatment Type	CO_2 BIO	CH_4	N_2O
Aerobic	3.90E-07	1.34E-09	8.52E-10
Anaerobic (Facultative Lagoons)	3.90E-07	4.01E-07	8.52E-10
Septic	0	2.50E-07	8.52E-10

Table G-34. Percent of Wastewater by Distribution Type and Analysis Level

Analysis Level	Name	Septic Tank	Aerobic	Anaerobic (Facult	Anaerobic (Com	Anaerobic (Cogeneration)	
Air Basin	Mojave Desert	10.33	87.46	2.21	100		0
Air District	Mojave Desert AQMD	10.33	87.46	2.21	100		0
County	San Bernardino-Mojave Des	10.33	87.46	2.21	100		0

Conversions

1 short ton = 0.9071847 Metric Tons

Solid Waste Generation

	Total SF	Employees	Tons/Year	CO_2	CH_4	CO_2e
IMF	150,000	820	943	145.58	9.63	386.21
Transload	9,000,000	4,268	4908.2	757.73	50.10	2,010.17
Total Unmitigated	*9,150,000*	*5,088*	*5,851*	*903.31*	*59.72*	*2,396.37*
Total Mitigated	-	-	*1,463*	*225.83*	*14.93*	*599.09*

Transload employees assumes one employe per 1,000 square feet

Employee based rate for all industrial uses = 1.15 tons/employee/year

CalEEMod 2022 Users Guide, Appendix D9 - Default Solid Waste Generation For Industrial Land Uses, April 2022.

Mitigation

Solid Waste Diversion: 0.75

Table G-37. Solid Waste Emission Factors and Supporting Data

Waste Category	Organic Degradable Carbon per Waste (Fraction of Total Type [a]	Decomposable Anaerobic Fraction [b]	Waste Stream Composition Fraction [c]	Fraction of Carbon Emissions
Newspaper	0.470	0.150	0.007	0.000
Office Paper	0.396	0.874	0.040	0.001
Corrugated Boxes	0.449	0.446	0.052	0.005
Coated Paper	0.330	0.243	0.103	0.004
Food	0.148	0.865	0.149	0.010
Grass	0.133	0.325	0.012	0.000
Leaves	0.291	0.279	0.012	0.000
Branches	0.420	0.232	0.015	0.001
Lumber	0.430	0.233	0.000	0.000
Textiles	0.240	0.500	0.030	0.002
Diapers	0.240	0.500	0.020	0.001
Construction demolition	0.040	0.500	0.189	0.002
Medical waste	0.150	0.500	0.000	0.000
Sludge/manure	0.050	0.500	0.006	0.000
			mass carbon	0.02637
			mass CH4	0.03516
			mass CO2	0.09669

Waste Treatment Type	Carbon Efficiency	Destruction Fraction	Oxidation Fraction	Emissions Factor (short ton per short ton of waste) CO2 BIO	CH4
Burn	0.75	0.98	0.1	0.0985	0.0084
Cogen	-	-	-	0.0000	0.0084
No Gas Collection	0	0	0.1	0.0967	0.0316

[a] California Air Resources Board, the California Climate Action Registry, ICLEI-Local Governments for Sustainability and The Climate Registry, Local Government Operations Protocol for the quantification and reporting of greenhouse gas emissions inventories, Version 1.0, September 2008, Table 9.6 Total Organic Degradable Carbon per Waste Type (TDOC).

[b] CARB, 2010, Table 9.7 Default Decomposable Anaerobic Fraction (DANF)of the TDOC per waste type.

[c] California Integrated Waste Management Board, 2018 Facility-Based Characterization of Solid Waste in California, May 15, 2020, Table 4. Material Composition of California's Overall Disposed Waste Stream.

Source: CalEEMod 2022 Users Guide, Appendix G, Table G-37. Solid Waste Emission Factors and Supporting Data, April 2022.

$ECH4 = T \times G \times [C \times (1 - D) + (1 - C) \times (1 - Ox)] \times R \times UC$

$ECO2 = T \times G \times [C \times D + (1 - C) \times Ox + 1] \times R \times UC$

T=		short tons of waste generated by the project
G=	0.02637	generation mass of carbon (short ton carbon per short ton of waste) (Table G-37)
	0.03516	(mass CH4)
	0.09669	(mass CO2)
C=	0.75	collection efficiency of landfill gas (75%)
D=	0.98	destruction efficiency of landfill gas (98%)
Ox=	0.1	oxidation efficiency (10%)
R =		ratio of molecular weights for CO2 and carbon (44 g CO2 / 12 g carbon) and CH4 to carbon (16 g CH4 / 12 g carbon).
	16	(CH4)
	12	(CO2)
UC=	0.907185	unit conversion from short tons to MT (0.907185 MT/short ton).

Refrigerants

	Total SF	KSF	Unmitiated $MTCO_2e$/year	Mitigated $MTCO_2e$/year
IMF	150,000	150	662	79
Transload (Unrefrigerated)	8,550,000	8550	37,725	4,482
Transload (Refrigerated)	450,000	450	1,986	236
Total	*9,150,000*	*9,150*	*40,372*	*4,797*

Mitigation requires the use of a low GWP refrigerant (such as R-454B or better).

$$E = \sum(((CS \times OLR) + (CS \times SLR \times (TS \div L))) \times GWP)_r \times KSF \times UC_1$$

Where:

E=		average annual refrigerant emissions (MT CO_2e/yr).
CS=	7.5	equipment charge size (kg refrigerant/KSF). The equipment charge size is the total quantity of refrigerant installed in the refrigeration or A/C equipment. Default equipment charge sizes are based on industry data published by USEPA (2016b) (Table G-38).
OLR=	0.075	annual operational leak rate (%) (USEPA 2016b) (Table G-38).
SLR=	0.075	service leak rate (%) (USEPA 2016b) (Table G-38).
TS=	25	times serviced (number of times serviced over equipment lifetime) (USEPA 2016b) (Table G-38).
L=	25	average equipment operational lifetime (years) (USEPA 2016b) (Table G-38).
GWP=	3922	global warming potential (unitless) (IPCC 2007; CARB 2020d; World Meteorological Organization 2018) (Table G-39).
KSF=		land use size (1,000 sqft). Emissions are quantified by land use subtype, with the input for the land use size.
UC_1=	0.001	unit conversion from kg to MT (0.001 MT/kg)
r=		refrigerant.
I=		equipment type.

Table G-38. Refrigerant Equipment Inventory and Operational Defaults by Land Use Subtype

Land Use Subtype	Refrigeration E	Refrigerant	Quantity (kg per KSF)	Operational Leak Rate (%)	Service Leak Rate (%)	Times Serviced Over Life	Lifetime (years)
Unrefrigerated Warehouse-No Ra	Cold storage	R-404A	7.5	0.075	0.075	25	25
Unrefrigerated Warehouse-Rail	Cold storage	R-404A	7.5	0.075	0.075	25	25
Refrigerated Warehouse-No Rail	Cold storage	R-404A	7.5	0.075	0.075	25	25
Refrigerated Warehouse-Rail	Cold storage	R-404A	7.5	0.075	0.075	25	25

Table G-39. Global Warming Potentials

Substance	Global Warming Potential
R-404A	3922
R-454B	466
R-717	0
R-744	1

Source: CalEEMod 2022 Users Guide Appendix G, Tables G-38 and G-39.

APPENDIX A3

Ambient Air Quality Standards

Appendix A3.1: Construction

Construction Emission Rates

Unmitigated

		Tons/Year					Grams/second				
		NO_2	CO	PM_{10}	$PM_{2.5}$	PM_{10} exhaust	NO_2	CO	PM_{10}	$PM_{2.5}$	PM_{10} exhaust
SLINE1	Construction Equipment	387.56	381.14	685.70	271.18	16.86	3.13E+01	3.08E+01	5.54E+01	2.19E+01	1.36E+00
SLINE2	Rail Deliveries-Hauling	64.20	15.64	1.48	1.43	1.48	8.55E+00	2.08E+00	1.97E-01	1.91E-01	1.97E-01
Group: Rail Idling											
STCK1	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
STCK2	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
STCK3	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
STCK4	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
	Total Rail Idling:	3.62E-03	8.82E-04	8.34E-05	8.09E-05	8.34E-05	2.92E-04	7.12E-05	6.73E-06	6.53E-06	6.73E-06
Group: Off-Site											
SLINE3	Lenwood N	0.43	0.42	0.76	0.30	0.02	3.48E-02	3.42E-02	6.15E-02	2.43E-02	1.51E-03
SLINE4	Lenwood S	0.39	0.39	0.70	0.28	0.02	3.18E-02	3.13E-02	5.63E-02	2.22E-02	1.38E-03
SLINE5	Main St W	0.74	0.73	1.31	0.52	0.03	5.98E-02	5.88E-02	1.06E-01	4.18E-02	2.60E-03
SLINE6	Main St E	0.27	0.26	0.47	0.19	0.01	2.15E-02	2.12E-02	3.81E-02	1.51E-02	9.37E-04
	Total Off-Site:	1.83	1.80	3.24	1.28	0.08	1.48E-01	1.45E-01	2.62E-01	1.03E-01	6.43E-03
PAREA1	Solar	16.30	16.03	28.84	11.41	0.71	4.69E-01	4.61E-01	8.30E-01	3.28E-01	2.04E-02
SLINE7	33kV	4.89	4.81	8.65	3.42	0.21	1.41E-01	1.38E-01	2.49E-01	9.84E-02	6.12E-03
	Existing Main	236.38	57.60	5.45	5.28	5.45	6.80E+00	1.66E+00	1.57E-01	1.52E-01	1.57E-01
	S. Main	246.30	60.02	5.67	5.50	5.67	7.09E+00	1.73E+00	1.63E-01	1.58E-01	1.63E-01

Mitigated

		Tons/Year					Grams/second				
		NO_2	CO	PM_{10}	$PM_{2.5}$	PM_{10} exhaust	NO_2	CO	PM_{10}	$PM_{2.5}$	PM_{10} exhaust
SLINE1	Construction Equipment	258.96	380.88	178.25	61.72	8.20	2.09E+01	3.08E+01	1.44E+01	4.98E+00	6.63E-01
SLINE2	Rail Deliveries-Hauling	64.20	15.64	1.48	1.43	1.48	8.55E+00	2.08E+00	1.97E-01	1.91E-01	1.97E-01
Group: Rail Idling											
STCK1	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
STCK2	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
STCK3	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
STCK4	Rail Idling	9.05E-04	2.20E-04	2.08E-05	2.02E-05	2.08E-05	7.31E-05	1.78E-05	1.68E-06	1.63E-06	1.68E-06
	Total Rail Idling:	3.62E-03	8.82E-04	8.34E-05	8.09E-05	8.34E-05	2.92E-04	7.12E-05	6.73E-06	6.53E-06	6.73E-06
Group: Off-Site											
SLINE3	Lenwood N	0.29	0.42	0.20	0.07	0.01	2.32E-02	3.42E-02	1.60E-02	5.54E-03	7.36E-04
SLINE4	Lenwood S	0.26	0.39	0.18	0.06	0.01	2.12E-02	3.12E-02	1.46E-02	5.06E-03	6.73E-04
SLINE5	Main St W	0.49	0.73	0.34	0.12	0.02	4.00E-02	5.88E-02	2.75E-02	9.52E-03	1.27E-03
SLINE6	Main St E	0.18	0.26	0.12	0.04	0.01	1.44E-02	2.12E-02	9.91E-03	3.43E-03	4.56E-04
	Total Off-Site:	1.22	1.80	0.84	0.29	0.04	9.88E-02	1.45E-01	6.80E-02	2.36E-02	3.13E-03
PAREA1	Solar	10.89	16.02	7.50	2.60	0.35	3.13E-01	4.61E-01	2.16E-01	7.47E-02	9.93E-03
SLINE7	33kV	3.27	4.81	2.25	0.78	0.10	9.40E-02	1.38E-01	6.47E-02	2.24E-02	2.98E-03
SLINE1	Existing Main	236.38	57.60	5.45	5.28	5.45	6.80E+00	1.66E+00	1.57E-01	1.52E-01	1.57E-01
SLINE2	S. Main	246.30	60.02	5.67	5.50	5.67	7.09E+00	1.73E+00	1.63E-01	1.58E-01	1.63E-01

			NOx Period Concentration [ug/m^3] at 1 g/s								Rates (g/s):	1.04E+01	1.85E+00	1.04E-04	5.27E-02	4.69E-01	1.41E-01	7.09E+00	6.80E+00	
												Unmitigated Concentration [ug/m^3]								
	X	Y	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex Main		Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex M	Total
1	485973.61	3854936.51	0.0319	0.00722	0.0142	0.02894	0.006	0.02	0.0168	0.00722		3.33E-01	1.33E-02	1.48E-06	1.52E-03	2.71E-03	2.86E-03	1.19E-01	4.91E-02	4.23E-01
2	486023.61	3854936.51	0.03121	0.0071	0.01388	0.02767	0.006	0.02	0.0162	0.0071		0.32563794	0.013113172	1.445E-06	1.46E-03	2.69E-03	2.76E-03	1.14E-01	4.83E-02	4.12E-01
3	486073.61	3854936.51	0.03042	0.007	0.01364	0.02662	0.006	0.019	0.0156	0.007		0.31739526	0.01292848	1.42E-06	1.40E-03	2.69E-03	2.67E-03	1.11E-01	4.76E-02	4.00E-01
4	486123.61	3854936.51	0.02968	0.00685	0.01331	0.02531	0.006	0.018	0.0149	0.00685		0.30967427	0.012651441	1.386E-06	1.33E-03	2.67E-03	2.56E-03	1.06E-01	4.66E-02	3.88E-01
5	486173.61	3854936.51	0.02916	0.00679	0.01318	0.02459	0.006	0.018	0.0145	0.00679		0.30424871	0.012540625	1.372E-06	1.30E-03	2.69E-03	2.50E-03	1.03E-01	4.62E-02	3.80E-01
6	486223.61	3854936.51	0.02855	0.00668	0.01297	0.02362	0.006	0.017	0.014	0.00668		0.29788411	0.012337463	1.35E-06	1.24E-03	2.69E-03	2.42E-03	9.94E-02	4.54E-02	3.71E-01
7	486273.61	3854936.51	0.028	0.00659	0.01281	0.02281	0.006	0.017	0.0136	0.00659		0.29214554	0.01217124	1.334E-06	1.20E-03	2.69E-03	2.35E-03	9.63E-02	4.48E-02	3.62E-01
8	486323.61	3854936.51	0.02748	0.0065	0.01266	0.02207	0.006	0.016	0.0132	0.0065		0.28671998	0.012005017	1.318E-06	1.16E-03	2.71E-03	2.29E-03	9.35E-02	4.42E-02	3.54E-01
9	485973.61	3854986.51	0.03336	0.0074	0.01419	0.03053	0.006	0.021	0.0175	0.0074		0.34807054	0.01366725	1.477E-06	1.61E-03	2.85E-03	2.99E-03	1.24E-01	5.03E-02	4.43E-01
10	486023.61	3854986.51	0.03262	0.00729	0.01394	0.02923	0.006	0.021	0.0169	0.00729		0.34034955	0.013464088	1.451E-06	1.54E-03	2.83E-03	2.89E-03	1.19E-01	4.96E-02	4.31E-01
11	486073.61	3854986.51	0.0319	0.00716	0.01367	0.02793	0.006	0.02	0.0162	0.00716		0.33283724	0.013223988	1.423E-06	1.47E-03	2.81E-03	2.78E-03	1.15E-01	4.87E-02	4.19E-01
12	486123.61	3854986.51	0.03122	0.00704	0.01344	0.02674	0.006	0.019	0.0156	0.00704		0.32574228	0.013002357	1.399E-06	1.41E-03	2.80E-03	2.68E-03	1.10E-01	4.79E-02	4.08E-01
13	486173.61	3854986.51	0.03045	0.00695	0.0133	0.02581	0.006	0.019	0.0151	0.00695		0.31770827	0.012836133	1.385E-06	1.36E-03	2.82E-03	2.61E-03	1.07E-01	4.73E-02	3.97E-01
14	486223.61	3854986.51	0.02979	0.00683	0.0131	0.02476	0.006	0.018	0.0145	0.00683		0.31082199	0.012614502	1.364E-06	1.30E-03	2.81E-03	2.52E-03	1.03E-01	4.64E-02	3.87E-01
15	486273.61	3854986.51	0.02913	0.0067	0.01291	0.02373	0.006	0.017	0.014	0.0067		0.3039357	0.012374402	1.344E-06	1.25E-03	2.80E-03	2.43E-03	9.91E-02	4.56E-02	3.76E-01
16	486323.61	3854986.51	0.02867	0.00666	0.01285	0.02316	0.006	0.017	0.0137	0.00666		0.29913616	0.012300525	1.338E-06	1.22E-03	2.84E-03	2.39E-03	9.71E-02	4.53E-02	3.70E-01
17	485973.61	3855036.51	0.03489	0.0076	0.01427	0.03231	0.006	0.022	0.0183	0.0076		0.36403421	0.014036635	1.486E-06	1.70E-03	3.00E-03	3.13E-03	1.29E-01	5.17E-02	4.64E-01
18	486023.61	3855036.51	0.03407	0.00747	0.01402	0.03082	0.006	0.021	0.0175	0.00747		0.35547852	0.013796535	1.46E-06	1.62E-03	2.97E-03	3.01E-03	1.24E-01	5.08E-02	4.50E-01
19	486073.61	3855036.51	0.03327	0.00732	0.01376	0.02932	0.006	0.021	0.0168	0.00732		0.3471315	0.013519496	1.433E-06	1.54E-03	2.94E-03	2.89E-03	1.19E-01	4.98E-02	4.37E-01
20	486123.61	3855036.51	0.03253	0.0072	0.01357	0.02805	0.006	0.02	0.0161	0.0072		0.33941051	0.013297865	1.413E-06	1.48E-03	2.94E-03	2.79E-03	1.14E-01	4.90E-02	4.25E-01
21	486173.61	3855036.51	0.03187	0.00711	0.01346	0.02706	0.006	0.019	0.0156	0.00711		0.33252423	0.013131642	1.401E-06	1.43E-03	2.95E-03	2.71E-03	1.11E-01	4.83E-02	4.15E-01
22	486223.61	3855036.51	0.03102	0.00697	0.01326	0.02585	0.006	0.019	0.015	0.00697		0.32365552	0.012873072	1.38E-06	1.36E-03	2.94E-03	2.61E-03	1.06E-01	4.74E-02	4.02E-01
23	486273.61	3855036.51	0.03043	0.0069	0.01317	0.02505	0.006	0.018	0.0146	0.0069		0.3174996	0.012743787	1.371E-06	1.32E-03	2.96E-03	2.54E-03	1.03E-01	4.69E-02	3.94E-01
24	486323.61	3855036.51	0.0298	0.00679	0.013	0.0241	0.006	0.018	0.0141	0.00679		0.31092632	0.012540625	1.353E-06	1.27E-03	2.96E-03	2.47E-03	9.99E-02	4.62E-02	3.84E-01
25	485973.61	3855086.51	0.03642	0.00779	0.01439	0.03415	0.007	0.023	0.019	0.00779		0.37999788	0.014387551	1.498E-06	1.80E-03	3.15E-03	3.27E-03	1.35E-01	5.30E-02	4.84E-01
26	486023.61	3855086.51	0.03558	0.00767	0.01422	0.03261	0.007	0.022	0.0183	0.00767		0.37123351	0.01416592	1.48E-06	1.72E-03	3.13E-03	3.15E-03	1.29E-01	5.22E-02	4.71E-01
27	486073.61	3855086.51	0.03471	0.00751	0.01398	0.03095	0.007	0.021	0.0174	0.00751		0.36215613	0.013870412	1.455E-06	1.63E-03	3.09E-03	3.02E-03	1.24E-01	5.11E-02	4.56E-01
28	486123.61	3855086.51	0.03393	0.0074	0.01384	0.02967	0.007	0.021	0.0168	0.0074		0.35401779	0.01366725	1.441E-06	1.56E-03	3.09E-03	2.92E-03	1.19E-01	5.03E-02	4.44E-01
29	486173.61	3855086.51	0.03316	0.00726	0.01365	0.0283	0.007	0.02	0.0161	0.00726		0.34598379	0.01340868	1.421E-06	1.49E-03	3.08E-03	2.81E-03	1.14E-01	4.94E-02	4.32E-01
30	486223.61	3855086.51	0.03246	0.00715	0.01352	0.02721	0.007	0.019	0.0156	0.00715		0.33868015	0.013205519	1.408E-06	1.43E-03	3.09E-03	2.72E-03	1.10E-01	4.86E-02	4.21E-01
31	485973.61	3855136.51	0.03787	0.00802	0.01467	0.0363	0.007	0.024	0.0199	0.00802		0.39512684	0.014812344	1.527E-06	1.91E-03	3.33E-03	3.44E-03	1.41E-01	5.45E-02	5.05E-01
32	486023.61	3855136.51	0.03702	0.00787	0.01449	0.03448	0.007	0.023	0.019	0.00787		0.38625814	0.014535305	1.508E-06	1.82E-03	3.30E-03	3.30E-03	1.35E-01	5.35E-02	4.91E-01
33	486073.61	3855136.51	0.0362	0.00772	0.01431	0.03279	0.007	0.023	0.0182	0.00772		0.37770245	0.014258266	1.49E-06	1.73E-03	3.26E-03	3.17E-03	1.29E-01	5.25E-02	4.77E-01
34	486123.61	3855136.51	0.03536	0.00759	0.01415	0.03129	0.007	0.022	0.0175	0.00759		0.36893808	0.014018166	1.473E-06	1.65E-03	3.25E-03	3.05E-03	1.24E-01	5.16E-02	4.63E-01
35	486173.61	3855136.51	0.03454	0.00745	0.01396	0.02986	0.007	0.021	0.0168	0.00745		0.36038239	0.013759596	1.453E-06	1.57E-03	3.24E-03	2.93E-03	1.19E-01	5.07E-02	4.50E-01
36	486223.61	3855136.51	0.03376	0.00732	0.01379	0.02858	0.007	0.02	0.0162	0.00732		0.35224405	0.013519496	1.436E-06	1.51E-03	3.24E-03	2.83E-03	1.14E-01	4.98E-02	4.38E-01
37	485973.61	3855186.51	0.03934	0.00825	0.01508	0.03866	0.007	0.026	0.0208	0.00825		0.41046448	0.015237137	1.57E-06	2.04E-03	3.51E-03	3.61E-03	1.48E-01	5.61E-02	5.26E-01
38	486023.61	3855186.51	0.03843	0.0081	0.01491	0.03667	0.007	0.025	0.0199	0.0081		0.40096975	0.014960098	1.552E-06	1.93E-03	3.48E-03	3.46E-03	1.41E-01	5.51E-02	5.11E-01
39	486073.61	3855186.51	0.0376	0.00792	0.01469	0.03468	0.007	0.024	0.019	0.00792		0.39230972	0.014627651	1.529E-06	1.83E-03	3.44E-03	3.31E-03	1.34E-01	5.39E-02	4.96E-01
40	486123.61	3855186.51	0.03678	0.00775	0.01446	0.03289	0.007	0.023	0.0181	0.00775		0.38375403	0.014313674	1.505E-06	1.73E-03	3.41E-03	3.17E-03	1.28E-01	5.27E-02	4.82E-01
41	486173.61	3855186.51	0.03594	0.00762	0.01426	0.03138	0.007	0.022	0.0174	0.00762		0.37498967	0.014073574	1.485E-06	1.65E-03	3.40E-03	3.05E-03	1.23E-01	5.18E-02	4.68E-01
42	486223.61	3855186.51	0.0351	0.00749	0.01407	0.02999	0.007	0.021	0.0167	0.00749		0.3662253	0.013833473	1.465E-06	1.58E-03	3.40E-03	2.94E-03	1.18E-01	5.09E-02	4.55E-01
43	486273.61	3855186.51	0.0343	0.00736	0.01386	0.02866	0.007	0.02	0.0161	0.00736		0.35787829	0.013593373	1.443E-06	1.51E-03	3.40E-03	2.84E-03	1.14E-01	5.00E-02	4.43E-01
44	486323.61	3855186.51	0.03363	0.00732	0.01381	0.02791	0.007	0.02	0.0157	0.00732		0.35088766	0.013519496	1.438E-06	1.47E-03	3.45E-03	2.78E-03	1.11E-01	4.98E-02	4.34E-01
45	485973.61	3855236.51	0.04084	0.00849	0.0156	0.04123	0.008	0.027	0.0218	0.00849		0.42611514	0.015680399	1.624E-06	2.17E-03	3.69E-03	3.80E-03	1.54E-01	5.77E-02	5.48E-01
46	486023.61	3855236.51	0.03992	0.00829	0.01536	0.03882	0.008	0.026	0.0207	0.00829		0.41651607	0.015311014	1.599E-06	2.04E-03	3.66E-03	3.62E-03	1.47E-01	5.64E-02	5.32E-01
47	486073.61	3855236.51	0.03904	0.0081	0.0151	0.0366	0.008	0.025	0.0197	0.0081		0.40733435	0.014960098	1.572E-06	1.93E-03	3.62E-03	3.45E-03	1.40E-01	5.51E-02	5.16E-01
48	486123.61	3855236.51	0.03816	0.00795	0.01487	0.03475	0.008	0.024	0.0188	0.00795		0.39815264	0.014683059	1.548E-06	1.83E-03	3.60E-03	3.31E-03	1.33E-01	5.41E-02	5.01E-01
49	486173.61	3855236.51	0.03732	0.00781	0.01465	0.03309	0.008	0.023	0.0181	0.00781		0.38938827	0.01442449	1.525E-06	1.74E-03	3.58E-03	3.18E-03	1.28E-01	5.31E-02	4.87E-01
50	486223.61	3855236.51	0.03649	0.00766	0.01444	0.03151	0.008	0.022	0.0173	0.00766		0.38072824	0.014147451	1.503E-06	1.66E-03	3.57E-03	3.06E-03	1.23E-01	5.21E-02	4.74E-01
51	486273.61	3855236.51	0.03559	0.00748	0.01417	0.02984	0.008	0.021	0.0165	0.00748		0.37133785	0.013815004	1.475E-06	1.57E-03	3.55E-03	2.92E-03	1.17E-01	5.09E-02	4.59E-01
52	486323.61	3855236.51	0.03491	0.00749	0.01421	0.02924	0.008	0.021	0.0162	0.00749		0.36424289	0.013833473	1.479E-06	1.54E-03	3.62E-03	2.89E-03	1.15E-01	5.09E-02	4.50E-01
53	485973.61	3855286.51	0.0424	0.00873	0.01625	0.04406	0.008	0.028	0.0228	0.00873		0.44239182	0.016123661	1.692E-06	2.32E-03	3.87E-03	4.00E-03	1.62E-01	5.94E-02	5.71E-01
54	486023.61	3855286.51	0.04144	0.00851	0.01594	0.04129	0.008	0.027	0.0216	0.00851		0.4323754	0.015717337	1.659E-06	2.17E-03	3.85E-03	3.80E-03	1.53E-01	5.79E-02	5.53E-01

55	486073.61	3855286.51	0.04049	0.00833	0.01566	0.03891	0.008	0.026	0.0206	0.00833	0.42246332	0.015384891	1.63E-06	2.05E-03	3.83E-03	3.62E-03	1.46E-01	5.66E-02	5.36E-01
56	486123.61	3855286.51	0.03959	0.00814	0.01538	0.03671	0.008	0.025	0.0196	0.00814	0.41307293	0.015033975	1.601E-06	1.93E-03	3.79E-03	3.45E-03	1.39E-01	5.54E-02	5.20E-01
57	486173.61	3855286.51	0.03871	0.00797	0.01514	0.03477	0.008	0.024	0.0187	0.00797	0.40389121	0.014719998	1.576E-06	1.83E-03	3.76E-03	3.31E-03	1.32E-01	5.42E-02	5.06E-01
58	486223.61	3855286.51	0.03784	0.00784	0.01497	0.03316	0.008	0.023	0.0179	0.00784	0.39481383	0.014479897	1.558E-06	1.75E-03	3.76E-03	3.18E-03	1.27E-01	5.33E-02	4.92E-01
59	486123.61	3855336.51	0.04107	0.00834	0.01609	0.03887	0.009	0.026	0.0203	0.00834	0.4285149	0.01540336	1.675E-06	2.05E-03	4.00E-03	3.61E-03	1.44E-01	5.67E-02	5.41E-01
60	486173.61	3855336.51	0.04011	0.00818	0.0159	0.03683	0.008	0.025	0.0194	0.00818	0.41849849	0.015107852	1.655E-06	1.94E-03	3.98E-03	3.46E-03	1.38E-01	5.56E-02	5.25E-01
61	486223.61	3855336.51	0.0392	0.00803	0.01573	0.03493	0.008	0.024	0.0186	0.00803	0.40900376	0.014830813	1.638E-06	1.84E-03	3.96E-03	3.32E-03	1.32E-01	5.46E-02	5.10E-01
62	486123.61	3855386.51	0.04258	0.00856	0.01709	0.04137	0.009	0.027	0.0212	0.00856	0.4442699	0.015809684	1.779E-06	2.18E-03	4.22E-03	3.78E-03	1.50E-01	5.82E-02	5.62E-01
63	486173.61	3855386.51	0.04157	0.00839	0.01692	0.03906	0.009	0.026	0.0202	0.00839	0.43373179	0.015495706	1.761E-06	2.06E-03	4.20E-03	3.62E-03	1.43E-01	5.71E-02	5.45E-01
64	486223.61	3855386.51	0.04059	0.00824	0.01678	0.03702	0.009	0.025	0.0194	0.00824	0.42350669	0.015218668	1.747E-06	1.95E-03	4.18E-03	3.47E-03	1.37E-01	5.60E-02	5.29E-01
65	486533.18	3855443.15	0.03673	0.00768	0.01684	0.02977	0.01	0.021	0.016	0.00768	0.38323235	0.014184389	1.753E-06	1.57E-03	4.57E-03	2.93E-03	1.13E-01	5.22E-02	4.68E-01
66	486583.18	3855443.15	0.03599	0.00756	0.01654	0.02857	0.01	0.02	0.0155	0.00756	0.37551136	0.013962758	1.722E-06	1.50E-03	4.59E-03	2.83E-03	1.10E-01	5.14E-02	4.57E-01
67	486633.18	3855443.15	0.03525	0.00745	0.01623	0.02747	0.01	0.02	0.015	0.00745	0.36779037	0.013759596	1.69E-06	1.45E-03	4.61E-03	2.75E-03	1.06E-01	5.07E-02	4.46E-01
68	486683.18	3855443.15	0.03454	0.00736	0.01598	0.02656	0.01	0.019	0.0145	0.00736	0.36038239	0.013593373	1.664E-06	1.40E-03	4.65E-03	2.68E-03	1.03E-01	5.00E-02	4.36E-01
69	486533.18	3855493.15	0.03791	0.00785	0.01772	0.03117	0.01	0.022	0.0165	0.00785	0.39554419	0.014498367	1.845E-06	1.64E-03	4.83E-03	3.04E-03	1.17E-01	5.34E-02	4.83E-01
70	486583.18	3855493.15	0.03712	0.00773	0.0174	0.02992	0.01	0.021	0.016	0.00773	0.38730152	0.014276735	1.811E-06	1.58E-03	4.86E-03	2.94E-03	1.13E-01	5.26E-02	4.71E-01
71	486633.18	3855493.15	0.03638	0.00761	0.01707	0.02873	0.01	0.02	0.0154	0.00761	0.37958053	0.014055104	1.777E-06	1.51E-03	4.89E-03	2.85E-03	1.09E-01	5.17E-02	4.60E-01
72	486683.18	3855493.15	0.03565	0.0075	0.01673	0.02765	0.01	0.02	0.0149	0.0075	0.37196387	0.013851943	1.742E-06	1.46E-03	4.91E-03	2.76E-03	1.06E-01	5.10E-02	4.50E-01
73	486533.18	3855543.15	0.0391	0.00804	0.01871	0.03279	0.011	0.022	0.0171	0.00804	0.40796038	0.014849282	1.948E-06	1.73E-03	5.13E-03	3.16E-03	1.21E-01	5.47E-02	4.99E-01
74	486583.18	3855543.15	0.0383	0.00789	0.01827	0.03125	0.011	0.022	0.0164	0.00789	0.39961336	0.014572244	1.902E-06	1.65E-03	5.14E-03	3.04E-03	1.16E-01	5.37E-02	4.87E-01
75	486633.18	3855543.15	0.03751	0.00777	0.01792	0.03001	0.011	0.021	0.0159	0.00777	0.39137069	0.014350612	1.866E-06	1.58E-03	5.17E-03	2.95E-03	1.13E-01	5.28E-02	4.75E-01
76	486683.18	3855543.15	0.03677	0.00762	0.01748	0.02869	0.011	0.02	0.0153	0.00762	0.3836497	0.014073574	1.82E-06	1.51E-03	5.18E-03	2.84E-03	1.08E-01	5.18E-02	4.64E-01
77	486533.18	3855593.15	0.04035	0.00822	0.01971	0.03449	0.012	0.023	0.0177	0.00822	0.42100259	0.015181729	2.052E-06	1.82E-03	5.43E-03	3.28E-03	1.25E-01	5.59E-02	5.16E-01
78	486583.18	3855593.15	0.0395	0.00807	0.01926	0.03287	0.012	0.022	0.017	0.00807	0.41213389	0.01490469	2.005E-06	1.73E-03	5.45E-03	3.16E-03	1.20E-01	5.49E-02	5.03E-01
79	486633.18	3855593.15	0.03867	0.00793	0.01883	0.03143	0.012	0.022	0.0164	0.00793	0.40347386	0.014646121	1.96E-06	1.66E-03	5.48E-03	3.05E-03	1.16E-01	5.39E-02	4.90E-01
80	486683.18	3855593.15	0.03787	0.00782	0.01845	0.03019	0.012	0.021	0.0159	0.00782	0.39512684	0.014442959	1.921E-06	1.59E-03	5.53E-03	2.96E-03	1.12E-01	5.32E-02	4.79E-01
81	486533.18	3855643.15	0.04163	0.00841	0.02076	0.03646	0.012	0.024	0.0183	0.00841	0.43435781	0.015532645	2.161E-06	1.92E-03	5.77E-03	3.42E-03	1.30E-01	5.72E-02	5.34E-01
82	486583.18	3855643.15	0.04072	0.00826	0.02027	0.03469	0.012	0.023	0.0176	0.00826	0.42486308	0.015255606	2.11E-06	1.83E-03	5.80E-03	3.29E-03	1.25E-01	5.62E-02	5.20E-01
83	486633.18	3855643.15	0.03985	0.00812	0.01977	0.03308	0.012	0.023	0.0169	0.00812	0.41578571	0.014997036	2.058E-06	1.74E-03	5.83E-03	3.17E-03	1.20E-01	5.52E-02	5.06E-01
84	486683.18	3855643.15	0.03901	0.00798	0.01931	0.03167	0.013	0.022	0.0164	0.00798	0.40702134	0.014738467	2.01E-06	1.67E-03	5.88E-03	3.07E-03	1.16E-01	5.43E-02	4.94E-01
85	486533.18	3855693.15	0.04292	0.00864	0.02187	0.03885	0.013	0.026	0.0191	0.00864	0.44781738	0.015957438	2.277E-06	2.05E-03	6.15E-03	3.59E-03	1.35E-01	5.88E-02	5.52E-01
86	486583.18	3855693.15	0.04202	0.00844	0.0212	0.03665	0.013	0.024	0.0182	0.00844	0.43842698	0.015588053	2.207E-06	1.93E-03	6.17E-03	3.43E-03	1.29E-01	5.74E-02	5.37E-01
87	486633.18	3855693.15	0.04114	0.00826	0.02053	0.03464	0.013	0.023	0.0174	0.00826	0.42924527	0.015255606	2.137E-06	1.82E-03	6.18E-03	3.28E-03	1.23E-01	5.62E-02	5.23E-01
88	486683.18	3855693.15	0.0402	0.00816	0.02013	0.0333	0.013	0.023	0.0169	0.00816	0.41943752	0.015070913	2.096E-06	1.75E-03	6.25E-03	3.19E-03	1.20E-01	5.55E-02	5.10E-01
89	486733.18	3855693.15	0.03927	0.00809	0.01982	0.03225	0.014	0.022	0.0165	0.00809	0.40973412	0.014941629	2.063E-06	1.70E-03	6.37E-03	3.11E-03	1.17E-01	5.50E-02	4.98E-01
90	486783.18	3855693.15	0.03837	0.00805	0.01956	0.03136	0.014	0.022	0.0162	0.00805	0.40034373	0.014867752	2.036E-06	1.65E-03	6.51E-03	3.05E-03	1.14E-01	5.47E-02	4.86E-01
91	486533.18	3855743.15	0.04431	0.00885	0.02289	0.04144	0.014	0.027	0.0199	0.00885	0.46232032	0.016345292	2.383E-06	2.18E-03	6.56E-03	3.76E-03	1.41E-01	6.02E-02	5.72E-01
92	486583.18	3855743.15	0.0434	0.00862	0.02205	0.03876	0.014	0.025	0.0189	0.00862	0.45282559	0.015920499	2.296E-06	2.04E-03	6.56E-03	3.57E-03	1.34E-01	5.86E-02	5.56E-01
93	486633.18	3855743.15	0.04243	0.00845	0.0214	0.03669	0.014	0.024	0.0181	0.00845	0.44270483	0.015606522	2.228E-06	1.93E-03	6.60E-03	3.43E-03	1.28E-01	5.75E-02	5.41E-01
94	486683.18	3855743.15	0.04139	0.00836	0.02101	0.0353	0.014	0.024	0.0176	0.00836	0.43185371	0.015440299	2.187E-06	1.86E-03	6.70E-03	3.33E-03	1.24E-01	5.68E-02	5.27E-01
95	486733.18	3855743.15	0.04045	0.00826	0.02054	0.03388	0.014	0.023	0.017	0.00826	0.42204597	0.015255606	2.138E-06	1.78E-03	6.78E-03	3.23E-03	1.21E-01	5.62E-02	5.14E-01
96	486783.18	3855743.15	0.03945	0.00823	0.02032	0.033	0.015	0.023	0.0167	0.00823	0.4116122	0.015200198	2.115E-06	1.74E-03	6.95E-03	3.18E-03	1.18E-01	5.60E-02	5.01E-01
97	486533.18	3855793.15	0.04576	0.00907	0.02389	0.04449	0.015	0.028	0.0209	0.00907	0.47744928	0.016751616	2.487E-06	2.34E-03	7.01E-03	3.97E-03	1.48E-01	6.17E-02	5.94E-01
98	486583.18	3855793.15	0.04488	0.00878	0.0228	0.04107	0.015	0.027	0.0196	0.00878	0.46826756	0.016216007	2.374E-06	2.16E-03	6.99E-03	3.73E-03	1.39E-01	5.97E-02	5.76E-01
99	486633.18	3855793.15	0.04371	0.00868	0.02234	0.03925	0.015	0.026	0.0189	0.00868	0.45606005	0.016031315	2.326E-06	2.07E-03	7.09E-03	3.61E-03	1.34E-01	5.90E-02	5.60E-01
100	486683.18	3855793.15	0.04259	0.00859	0.0219	0.03766	0.015	0.025	0.0184	0.00859	0.44437423	0.015865092	2.28E-06	1.98E-03	7.19E-03	3.50E-03	1.30E-01	5.84E-02	5.45E-01
101	486733.18	3855793.15	0.04157	0.00849	0.02142	0.03611	0.016	0.024	0.0178	0.00849	0.43373179	0.015680399	2.23E-06	1.90E-03	7.30E-03	3.40E-03	1.26E-01	5.77E-02	5.30E-01
102	486783.18	3855793.15	0.04059	0.0084	0.02098	0.03477	0.016	0.023	0.0173	0.0084	0.42350669	0.015514176	2.184E-06	1.83E-03	7.43E-03	3.30E-03	1.22E-01	5.71E-02	5.17E-01
103	486533.18	3855843.15	0.04739	0.00926	0.02462	0.0477	0.016	0.03	0.0218	0.00926	0.49445633	0.017102532	2.563E-06	2.51E-03	7.47E-03	4.17E-03	1.54E-01	6.30E-02	6.17E-01
104	486583.18	3855843.15	0.04634	0.00901	0.02363	0.0442	0.016	0.028	0.0205	0.00901	0.48350087	0.0166408	2.46E-06	2.33E-03	7.49E-03	3.93E-03	1.45E-01	6.13E-02	5.98E-01
105	486633.18	3855843.15	0.04507	0.0089	0.0231	0.04209	0.016	0.027	0.0198	0.0089	0.47024998	0.016437638	2.405E-06	2.22E-03	7.61E-03	3.80E-03	1.40E-01	6.05E-02	5.80E-01
106	486683.18	3855843.15	0.04387	0.00881	0.0226	0.04022	0.016	0.026	0.0192	0.00881	0.45772946	0.016271415	2.353E-06	2.12E-03	7.73E-03	3.68E-03	1.36E-01	5.99E-02	5.63E-01
107	486733.18	3855843.15	0.04276	0.00871	0.02209	0.03852	0.017	0.025	0.0186	0.00871	0.44614797	0.016086723	2.3E-06	2.03E-03	7.85E-03	3.57E-03	1.32E-01	5.92E-02	5.48E-01
108	486783.18	3855843.15	0.04172	0.00861	0.02157	0.03694	0.017	0.025	0.018	0.00861	0.43529685	0.01590203	2.246E-06	1.95E-03	7.99E-03	3.46E-03	1.28E-01	5.85E-02	5.34E-01
109	486533.18	3855893.15	0.04928	0.0094	0.02491	0.05099	0.017	0.031	0.0226	0.0094	0.51417615	0.017361101	2.593E-06	2.69E-03	7.96E-03	4.36E-03	1.60E-01	6.39E-02	6.43E-01
110	486583.18	3855893.15	0.04783	0.00927	0.02426	0.04803	0.017	0.03	0.0217	0.00927	0.49904718	0.017121001	2.526E-06	2.53E-03	8.07E-03	4.18E-03	1.54E-01	6.30E-02	6.21E-01
111	486633.18	3855893.15	0.0465	0.00914	0.02361	0.04539	0.017	0.029	0.0208	0.00914	0.48517027	0.016880901	2.458E-06	2.39E-03	8.19E-03	4.02E-03	1.47E-01	6.22E-02	6.02E-01
112	486683.18	3855893.15	0.04522	0.00903	0.02303	0.04316	0.018	0.028	0.0201	0.00903	0.47181505	0.016677739	2.398E-06	2.27E-03	8.32E-03	3.88E-03	1.42E-01	6.14E-02	5.84E-01

113	486733.18	3855893.15	0.04402	0.00893	0.02247	0.04118	0.018	0.027	0.0194	0.00893	0.45929452	0.016493046	2.339E-06	2.17E-03	8.45E-03	3.75E-03	1.37E-01	6.07E-02	5.67E-01
114	486783.18	3855893.15	0.04287	0.00885	0.02195	0.03947	0.018	0.026	0.0188	0.00885	0.44729569	0.016345292	2.285E-06	2.08E-03	8.62E-03	3.64E-03	1.33E-01	6.02E-02	5.51E-01
115	486533.18	3855943.15	0.05112	0.00964	0.0251	0.05573	0.018	0.033	0.0239	0.00964	0.53337428	0.017804363	2.613E-06	2.94E-03	8.55E-03	4.65E-03	1.69E-01	6.56E-02	6.71E-01
116	486583.18	3855943.15	0.04942	0.00954	0.02453	0.05257	0.019	0.032	0.023	0.00954	0.51563688	0.017619671	2.554E-06	2.77E-03	8.71E-03	4.47E-03	1.63E-01	6.49E-02	6.47E-01
117	486633.18	3855943.15	0.04801	0.00938	0.02379	0.04927	0.019	0.03	0.022	0.00938	0.50092526	0.017324163	2.477E-06	2.60E-03	8.83E-03	4.27E-03	1.56E-01	6.38E-02	6.26E-01
118	486683.18	3855943.15	0.0466	0.00929	0.02321	0.04674	0.019	0.029	0.0212	0.00929	0.48621365	0.017157939	2.416E-06	2.46E-03	8.99E-03	4.11E-03	1.50E-01	6.32E-02	6.06E-01
119	486733.18	3855943.15	0.04535	0.00916	0.02256	0.04428	0.019	0.028	0.0204	0.00916	0.47317144	0.016917839	2.349E-06	2.33E-03	9.13E-03	3.96E-03	1.44E-01	6.23E-02	5.87E-01
120	486783.18	3855943.15	0.0441	0.00908	0.02203	0.0423	0.02	0.027	0.0197	0.00908	0.46012922	0.016770085	2.293E-06	2.23E-03	9.31E-03	3.83E-03	1.40E-01	6.17E-02	5.70E-01
121	486533.18	3855993.15	0.053	0.00993	0.02502	0.06193	0.02	0.036	0.0256	0.00993	0.55298977	0.018339972	2.605E-06	3.26E-03	9.22E-03	5.01E-03	1.81E-01	6.75E-02	7.02E-01
122	486583.18	3855993.15	0.05123	0.00979	0.02432	0.05768	0.02	0.034	0.0244	0.00979	0.534522	0.018081402	2.532E-06	3.04E-03	9.38E-03	4.77E-03	1.73E-01	6.66E-02	6.76E-01
123	486633.18	3855993.15	0.04963	0.00965	0.02364	0.05395	0.02	0.032	0.0233	0.00965	0.51782797	0.017822833	2.461E-06	2.84E-03	9.54E-03	4.55E-03	1.65E-01	6.56E-02	6.52E-01
124	486683.18	3855993.15	0.04809	0.00954	0.02304	0.05087	0.021	0.031	0.0224	0.00954	0.50175996	0.017619671	2.399E-06	2.68E-03	9.73E-03	4.37E-03	1.58E-01	6.49E-02	6.30E-01
125	486733.18	3855993.15	0.04672	0.00941	0.0224	0.04799	0.021	0.03	0.0215	0.00941	0.4874657	0.017379571	2.332E-06	2.53E-03	9.90E-03	4.20E-03	1.52E-01	6.40E-02	6.10E-01
126	486783.18	3855993.15	0.04542	0.0093	0.02181	0.04553	0.022	0.029	0.0207	0.0093	0.4739018	0.017176409	2.271E-06	2.40E-03	1.01E-02	4.05E-03	1.47E-01	6.32E-02	5.91E-01
127	486533.18	3856043.15	0.0551	0.01022	0.02454	0.06957	0.021	0.039	0.0274	0.01022	0.57490069	0.01887558	2.555E-06	3.66E-03	9.96E-03	5.43E-03	1.94E-01	6.95E-02	7.38E-01
128	486583.18	3856043.15	0.0531	0.01009	0.02389	0.06441	0.022	0.037	0.0261	0.01009	0.55403315	0.01863548	2.487E-06	3.39E-03	1.02E-02	5.15E-03	1.85E-01	6.86E-02	7.08E-01
129	486633.18	3856043.15	0.05137	0.00992	0.02318	0.05965	0.022	0.035	0.0248	0.00992	0.53598273	0.018321503	2.413E-06	3.14E-03	1.03E-02	4.88E-03	1.76E-01	6.75E-02	6.81E-01
130	486683.18	3856043.15	0.04968	0.00981	0.02262	0.05595	0.023	0.033	0.0237	0.00981	0.51834966	0.018118341	2.355E-06	2.95E-03	1.06E-02	4.67E-03	1.68E-01	6.67E-02	6.56E-01
131	486733.18	3856043.15	0.04822	0.00966	0.02197	0.05235	0.023	0.032	0.0227	0.00966	0.50311635	0.017841302	2.287E-06	2.76E-03	1.08E-02	4.47E-03	1.61E-01	6.57E-02	6.34E-01
132	486783.18	3856043.15	0.04675	0.00957	0.02145	0.04953	0.023	0.031	0.0219	0.00957	0.48777871	0.017675079	2.233E-06	2.61E-03	1.10E-02	4.30E-03	1.55E-01	6.51E-02	6.13E-01
133	486533.18	3856093.15	0.05736	0.01056	0.02384	0.08004	0.023	0.042	0.0297	0.01056	0.59848101	0.019503535	2.482E-06	4.22E-03	1.08E-02	5.96E-03	2.10E-01	7.18E-02	7.77E-01
134	486583.18	3856093.15	0.0552	0.01039	0.02316	0.0729	0.023	0.04	0.028	0.01039	0.57594406	0.019189558	2.411E-06	3.84E-03	1.10E-02	5.61E-03	1.99E-01	7.07E-02	7.43E-01
135	486633.18	3856093.15	0.05325	0.01022	0.02252	0.06693	0.024	0.038	0.0266	0.01022	0.55559821	0.01887558	2.344E-06	3.53E-03	1.12E-02	5.29E-03	1.88E-01	6.95E-02	7.13E-01
136	486683.18	3856093.15	0.05143	0.01009	0.02196	0.06206	0.024	0.036	0.0253	0.01009	0.53660875	0.01863548	2.286E-06	3.27E-03	1.15E-02	5.03E-03	1.79E-01	6.86E-02	6.86E-01
137	486733.18	3856093.15	0.0498	0.00994	0.02138	0.05773	0.025	0.034	0.0242	0.00994	0.51960171	0.018358441	2.226E-06	3.04E-03	1.17E-02	4.79E-03	1.71E-01	6.76E-02	6.61E-01
138	486783.18	3856093.15	0.04824	0.00982	0.02086	0.05411	0.026	0.033	0.0232	0.00982	0.50332503	0.01813681	2.172E-06	2.85E-03	1.20E-02	4.59E-03	1.64E-01	6.68E-02	6.38E-01
139	486533.18	3856143.15	0.05996	0.01088	0.02286	0.09366	0.025	0.047	0.0323	0.01088	0.62560881	0.020094551	2.38E-06	4.93E-03	1.16E-02	6.63E-03	2.29E-01	7.40E-02	8.24E-01
140	486583.18	3856143.15	0.05758	0.01068	0.02219	0.08363	0.025	0.044	0.0302	0.01068	0.60077643	0.019725166	2.31E-06	4.41E-03	1.19E-02	6.16E-03	2.14E-01	7.26E-02	7.85E-01
141	486633.18	3856143.15	0.05534	0.01053	0.02166	0.07589	0.026	0.041	0.0286	0.01053	0.57740479	0.019448127	2.255E-06	4.00E-03	1.22E-02	5.78E-03	2.03E-01	7.16E-02	7.50E-01
142	486683.18	3856143.15	0.05335	0.01037	0.02113	0.06939	0.027	0.039	0.0271	0.01037	0.55664159	0.019152619	2.2E-06	3.66E-03	1.25E-02	5.45E-03	1.92E-01	7.05E-02	7.19E-01
143	486733.18	3856143.15	0.05153	0.01022	0.02062	0.06395	0.027	0.037	0.0258	0.01022	0.53765213	0.01887558	2.147E-06	3.37E-03	1.28E-02	5.17E-03	1.83E-01	6.95E-02	6.91E-01
144	486783.18	3856143.15	0.04977	0.01013	0.0202	0.05953	0.028	0.035	0.0248	0.01013	0.5192887	0.018709357	2.103E-06	3.14E-03	1.31E-02	4.93E-03	1.75E-01	6.89E-02	6.66E-01
145	486533.18	3856193.15	0.06287	0.01124	0.02179	0.11249	0.027	0.053	0.0356	0.01124	0.65597107	0.020759445	2.268E-06	5.93E-03	1.26E-02	7.49E-03	2.52E-01	7.64E-02	8.79E-01
146	486583.18	3856193.15	0.06019	0.01101	0.02115	0.09785	0.028	0.049	0.033	0.01101	0.62800857	0.020334652	2.202E-06	5.15E-03	1.30E-02	6.85E-03	2.34E-01	7.49E-02	8.32E-01
147	486633.18	3856193.15	0.05768	0.01085	0.02067	0.08708	0.028	0.045	0.031	0.01085	0.60181981	0.020039144	2.152E-06	4.59E-03	1.33E-02	6.36E-03	2.20E-01	7.38E-02	7.92E-01
148	486683.18	3856193.15	0.05537	0.01071	0.02027	0.07867	0.029	0.042	0.0294	0.01071	0.5777178	0.019780574	2.11E-06	4.14E-03	1.37E-02	5.97E-03	2.08E-01	7.28E-02	7.57E-01
149	486733.18	3856193.15	0.05339	0.01054	0.01979	0.07151	0.03	0.04	0.0278	0.01054	0.55705894	0.019466597	2.06E-06	3.77E-03	1.40E-02	5.60E-03	1.97E-01	7.17E-02	7.25E-01
150	486783.18	3856193.15	0.05146	0.01043	0.01942	0.06586	0.031	0.038	0.0265	0.01043	0.53692177	0.019263435	2.022E-06	3.47E-03	1.44E-02	5.31E-03	1.88E-01	7.09E-02	6.96E-01
151	486533.18	3856243.15	0.06629	0.01161	0.0206	0.13915	0.029	0.061	0.0395	0.01161	0.69165456	0.021442807	2.145E-06	7.33E-03	1.37E-02	8.56E-03	2.80E-01	7.89E-02	9.44E-01
152	486583.18	3856243.15	0.0631	0.01139	0.02009	0.11752	0.03	0.055	0.0365	0.01139	0.65837084	0.021036483	2.091E-06	6.19E-03	1.41E-02	7.73E-03	2.59E-01	7.75E-02	8.89E-01
153	486633.18	3856243.15	0.06028	0.0112	0.01965	0.10185	0.031	0.05	0.034	0.0112	0.62894761	0.020685568	2.046E-06	5.36E-03	1.46E-02	7.07E-03	2.41E-01	7.62E-02	8.41E-01
154	486683.18	3856243.15	0.05774	0.01103	0.01927	0.09008	0.032	0.047	0.0318	0.01103	0.60244584	0.02037159	2.006E-06	4.74E-03	1.50E-02	6.55E-03	2.25E-01	7.50E-02	7.99E-01
155	486733.18	3856243.15	0.05542	0.01089	0.01893	0.0809	0.033	0.043	0.03	0.01089	0.57823949	0.020113021	1.971E-06	4.26E-03	1.54E-02	6.11E-03	2.12E-01	7.41E-02	7.63E-01
156	486783.18	3856243.15	0.05337	0.01073	0.01855	0.0734	0.034	0.041	0.0283	0.01073	0.55685027	0.019817512	1.931E-06	3.87E-03	1.59E-02	5.74E-03	2.01E-01	7.30E-02	7.30E-01
157	486533.18	3856293.15	0.07027	0.012	0.01944	0.18069	0.032	0.071	0.0444	0.012	0.73318097	0.022163108	2.024E-06	9.52E-03	1.50E-02	9.99E-03	3.14E-01	8.16E-02	1.02E+00
158	486583.18	3856293.15	0.06653	0.01177	0.01899	0.14547	0.033	0.063	0.0405	0.01177	0.69415867	0.021738315	1.977E-06	7.66E-03	1.55E-02	8.83E-03	2.87E-01	8.00E-02	9.55E-01
159	486633.18	3856293.15	0.06325	0.01156	0.01861	0.12197	0.034	0.057	0.0373	0.01156	0.65993591	0.021350461	1.937E-06	6.42E-03	1.60E-02	7.95E-03	2.64E-01	7.86E-02	8.97E-01
160	486683.18	3856293.15	0.06036	0.01138	0.01829	0.10518	0.035	0.052	0.0347	0.01138	0.62978231	0.021018014	1.904E-06	5.54E-03	1.65E-02	7.26E-03	2.46E-01	7.74E-02	8.48E-01
161	486733.18	3856293.15	0.05772	0.01124	0.01803	0.09272	0.036	0.048	0.0325	0.01124	0.60223716	0.020759445	1.877E-06	4.88E-03	1.70E-02	6.72E-03	2.30E-01	7.64E-02	8.05E-01
162	486783.18	3856293.15	0.05544	0.01107	0.0177	0.08281	0.037	0.044	0.0305	0.01107	0.57844817	0.020445467	1.843E-06	4.36E-03	1.75E-02	6.24E-03	2.16E-01	7.53E-02	7.68E-01
163	486783.18	3856343.15	0.0577	0.01145	0.01694	0.09484	0.042	0.049	0.0331	0.01145	0.60202849	0.021147299	1.764E-06	5.00E-03	1.95E-02	6.86E-03	2.34E-01	7.79E-02	8.11E-01
164	486833.18	3856343.15	0.05537	0.01129	0.01667	0.08447	0.043	0.045	0.031	0.01129	0.5777178	0.020851791	1.735E-06	4.45E-03	2.02E-02	6.38E-03	2.20E-01	7.68E-02	7.73E-01
165	486883.18	3856343.15	0.05327	0.01114	0.01638	0.07619	0.044	0.042	0.0292	0.01114	0.55580689	0.020574752	1.705E-06	4.01E-03	2.09E-02	5.96E-03	2.07E-01	7.58E-02	7.39E-01
166	486783.18	3856393.15	0.06038	0.0118	0.01619	0.11041	0.046	0.054	0.0359	0.0118	0.62999099	0.021793723	1.685E-06	5.82E-03	2.17E-02	7.60E-03	2.54E-01	8.02E-02	8.61E-01
167	486833.18	3856393.15	0.05773	0.01163	0.01598	0.09641	0.048	0.05	0.0334	0.01163	0.6023415	0.021479746	1.664E-06	5.08E-03	2.26E-02	6.98E-03	2.37E-01	7.91E-02	8.16E-01
168	486883.18	3856393.15	0.05543	0.01145	0.0157	0.0856	0.05	0.046	0.0313	0.01145	0.57834383	0.021147299	1.634E-06	4.51E-03	2.34E-02	6.47E-03	2.22E-01	7.79E-02	7.78E-01
169	487208.74	3856886.11	0.06492	0.01418	0.01031	0.16507	1.248	0.076	0.042	0.01418	0.6773603	0.026189406	1.073E-06	8.69E-03	5.85E-01	1.07E-02	2.98E-01	9.64E-02	1.51E+00
170	487258.74	3856886.11	0.06137	0.01392	0.01012	0.13483	1.654	0.067	0.0385	0.01392	0.64032042	0.025709205	1.054E-06	7.10E-03	7.76E-01	9.43E-03	2.73E-01	9.47E-02	1.64E+00

171	487308.74	3856886.11	0.05832	0.01367	0.00992	0.11412	1.878	0.06	0.0356	0.01367	0.60849742	0.025247474	1.033E-06	6.01E-03	8.81E-01	8.49E-03	2.52E-01	9.30E-02	1.69E+00
172	487358.74	3856886.11	0.05569	0.01342	0.00974	0.09908	2.021	0.055	0.0332	0.01342	0.58105661	0.024785743	1.014E-06	5.22E-03	9.48E-01	7.75E-03	2.35E-01	9.13E-02	1.71E+00
173	487208.74	3856936.11	0.06945	0.0147	0.0102	0.21925	1.483	0.09	0.0465	0.0147	0.72462528	0.027149807	1.062E-06	1.15E-02	6.95E-01	1.27E-02	3.30E-01	1.00E-01	1.70E+00
174	487258.74	3856936.11	0.06504	0.01442	0.00998	0.16873	1.806	0.078	0.0423	0.01442	0.67861235	0.026632668	1.039E-06	8.89E-03	8.47E-01	1.09E-02	2.99E-01	9.81E-02	1.77E+00
175	487308.74	3856936.11	0.0614	0.01416	0.00976	0.13727	2.019	0.068	0.0387	0.01416	0.64063343	0.026152468	1.016E-06	7.23E-03	9.47E-01	9.63E-03	2.74E-01	9.63E-02	1.81E+00
176	487358.74	3856936.11	0.05831	0.0139	0.00956	0.11588	2.174	0.062	0.0358	0.0139	0.60839309	0.025672267	9.953E-07	6.10E-03	1.02E+00	8.66E-03	2.54E-01	9.45E-02	1.83E+00
177	487208.74	3856986.11	0.07548	0.01527	0.0102	0.32419	1.331	0.112	0.0522	0.01527	0.7875409	0.028202555	1.062E-06	1.71E-02	6.24E-01	1.58E-02	3.70E-01	1.04E-01	1.74E+00
178	487258.74	3856986.11	0.06968	0.01499	0.00996	0.22507	1.678	0.093	0.0468	0.01499	0.72702504	0.027685416	1.037E-06	1.19E-02	7.87E-01	1.30E-02	3.32E-01	1.02E-01	1.80E+00
179	487308.74	3856986.11	0.06518	0.01468	0.00969	0.17237	1.937	0.079	0.0425	0.01468	0.68007308	0.027112869	1.009E-06	9.08E-03	9.08E-01	1.12E-02	3.01E-01	9.98E-02	1.84E+00
180	487358.74	3856986.11	0.06144	0.01442	0.00947	0.1396	2.111	0.07	0.0389	0.01442	0.64105078	0.026632668	9.859E-07	7.35E-03	9.90E-01	9.83E-03	2.76E-01	9.81E-02	1.85E+00
181	487208.74	3857036.11	0.08425	0.01587	0.01028	0.58391	0.902	0.15	0.0597	0.01587	0.87904506	0.02931071	1.07E-06	3.08E-02	4.23E-01	2.11E-02	4.23E-01	1.08E-01	1.70E+00
182	487258.74	3857036.11	0.07601	0.01555	0.01	0.33633	1.333	0.116	0.0526	0.01555	0.7930708	0.028719694	1.041E-06	1.77E-02	6.25E-01	1.63E-02	3.73E-01	1.06E-01	1.75E+00
183	487308.74	3857036.11	0.06998	0.01527	0.00972	0.23093	1.686	0.095	0.0471	0.01527	0.73015517	0.028202555	1.012E-06	1.22E-02	7.91E-01	1.34E-02	3.34E-01	1.04E-01	1.80E+00
184	487358.74	3857036.11	0.06532	0.01498	0.00948	0.17556	1.935	0.081	0.0427	0.01498	0.68153381	0.027666947	9.869E-07	9.25E-03	9.08E-01	1.14E-02	3.02E-01	1.02E-01	1.84E+00
185	487427.14	3856878.23	0.05217	0.01309	0.00969	0.08259	2.009	0.049	0.03	0.01309	0.54432974	0.024176257	1.009E-06	4.35E-03	9.42E-01	6.87E-03	2.13E-01	8.90E-02	1.65E+00
186	487477.14	3856878.23	0.05016	0.01289	0.00969	0.07466	1.993	0.046	0.0283	0.01289	0.52335787	0.023806872	1.009E-06	3.93E-03	9.35E-01	6.42E-03	2.00E-01	8.77E-02	1.60E+00
187	487527.14	3856878.23	0.04835	0.01269	0.00969	0.06821	1.861	0.043	0.0268	0.01269	0.50447274	0.023437487	1.009E-06	3.59E-03	8.73E-01	6.04E-03	1.90E-01	8.63E-02	1.51E+00
188	487427.14	3856928.23	0.05432	0.01353	0.00949	0.0937	2.283	0.054	0.0321	0.01353	0.56676235	0.024988904	9.88E-07	4.94E-03	1.07E+00	7.53E-03	2.27E-01	9.20E-02	1.81E+00
189	487477.14	3856928.23	0.05211	0.01329	0.00947	0.08352	2.328	0.05	0.0301	0.01329	0.54370372	0.024545642	9.859E-07	4.40E-03	1.09E+00	6.98E-03	2.13E-01	9.04E-02	1.79E+00
190	487527.14	3856928.23	0.05009	0.01309	0.00948	0.07541	2.293	0.046	0.0284	0.01309	0.5226275	0.024176257	9.869E-07	3.97E-03	1.08E+00	6.52E-03	2.01E-01	8.90E-02	1.74E+00
191	487577.14	3856928.23	0.04826	0.01289	0.00945	0.06882	2.279	0.044	0.0268	0.01289	0.5035337	0.023806872	9.838E-07	3.63E-03	1.07E+00	6.13E-03	1.90E-01	8.77E-02	1.71E+00
192	487627.14	3856928.23	0.04662	0.01268	0.00937	0.06337	2.147	0.041	0.0255	0.01268	0.48642232	0.023419018	9.755E-07	3.34E-03	1.01E+00	5.80E-03	1.80E-01	8.62E-02	1.62E+00
193	487677.14	3856928.23	0.04507	0.01251	0.00929	0.05877	2.07	0.039	0.0243	0.01251	0.47024998	0.02310504	9.671E-07	3.10E-03	9.71E-01	5.51E-03	1.72E-01	8.51E-02	1.56E+00
194	487727.14	3856928.23	0.04363	0.01236	0.00922	0.05485	2.05	0.037	0.0232	0.01236	0.45522535	0.022828001	9.599E-07	2.89E-03	9.61E-01	5.26E-03	1.64E-01	8.40E-02	1.53E+00
195	487777.14	3856928.23	0.04233	0.01218	0.00917	0.0515	2.061	0.036	0.0222	0.01218	0.44166145	0.022495555	9.547E-07	2.71E-03	9.66E-01	5.04E-03	1.57E-01	8.28E-02	1.51E+00
196	487427.14	3856978.23	0.05684	0.01398	0.00936	0.10837	2.302	0.059	0.0345	0.01398	0.59305545	0.025820021	9.744E-07	5.71E-03	1.08E+00	8.36E-03	2.45E-01	9.51E-02	1.86E+00
197	487477.14	3856978.23	0.05429	0.01375	0.00935	0.09479	2.383	0.054	0.0322	0.01375	0.56644933	0.025395228	9.734E-07	4.99E-03	1.12E+00	7.66E-03	2.28E-01	9.35E-02	1.86E+00
198	487527.14	3856978.23	0.05203	0.01354	0.00935	0.08436	2.445	0.05	0.0302	0.01354	0.54286901	0.025007374	9.734E-07	4.44E-03	1.15E+00	7.10E-03	2.14E-01	9.21E-02	1.85E+00
199	487577.14	3856978.23	0.05001	0.01332	0.0093	0.0761	2.502	0.047	0.0284	0.01332	0.5217928	0.02460105	9.682E-07	4.01E-03	1.17E+00	6.63E-03	2.02E-01	9.06E-02	1.84E+00
200	487627.14	3856978.23	0.04821	0.01308	0.0092	0.06941	2.545	0.044	0.0269	0.01308	0.50301202	0.024157788	9.578E-07	3.66E-03	1.19E+00	6.23E-03	1.91E-01	8.89E-02	1.83E+00
201	487677.14	3856978.23	0.04651	0.0129	0.00911	0.06386	2.549	0.042	0.0255	0.0129	0.48527461	0.023825341	9.484E-07	3.36E-03	1.20E+00	5.89E-03	1.81E-01	8.77E-02	1.81E+00
202	487727.14	3856978.23	0.04503	0.01265	0.00901	0.05923	2.569	0.04	0.0243	0.01265	0.46983263	0.02336361	9.38E-07	3.12E-03	1.20E+00	5.59E-03	1.72E-01	8.60E-02	1.79E+00
203	487777.14	3856978.23	0.04351	0.01257	0.00903	0.05523	2.492	0.038	0.0232	0.01257	0.4539733	0.023215856	9.401E-07	2.91E-03	1.17E+00	5.34E-03	1.64E-01	8.55E-02	1.73E+00
204	487427.14	3857028.23	0.05977	0.01451	0.00934	0.12853	2.198	0.067	0.0374	0.01451	0.62362639	0.026798892	9.724E-07	6.77E-03	1.03E+00	9.43E-03	2.65E-01	9.87E-02	1.86E+00
205	487477.14	3857028.23	0.05682	0.01425	0.00932	0.10966	2.319	0.061	0.0347	0.01425	0.59284677	0.026318691	9.703E-07	5.78E-03	1.09E+00	8.52E-03	2.46E-01	9.69E-02	1.87E+00
206	487527.14	3857028.23	0.05427	0.014	0.00929	0.09581	2.418	0.055	0.0323	0.014	0.56624066	0.025856959	9.671E-07	5.05E-03	1.13E+00	7.80E-03	2.29E-01	9.52E-02	1.87E+00
207	487577.14	3857028.23	0.05199	0.01377	0.00922	0.08517	2.493	0.051	0.0303	0.01377	0.54245166	0.025432167	9.599E-07	4.49E-03	1.17E+00	7.22E-03	2.15E-01	9.36E-02	1.87E+00
208	487627.14	3857028.23	0.04999	0.01351	0.0091	0.07681	2.562	0.048	0.0285	0.01351	0.52158413	0.024951966	9.474E-07	4.05E-03	1.20E+00	6.74E-03	2.02E-01	9.19E-02	1.87E+00
209	487677.14	3857028.23	0.04814	0.01331	0.009	0.06998	2.595	0.045	0.027	0.01331	0.50228165	0.024582581	9.37E-07	3.69E-03	1.22E+00	6.33E-03	1.91E-01	9.05E-02	1.85E+00
210	487727.14	3857028.23	0.04642	0.01314	0.00895	0.06433	2.599	0.043	0.0256	0.01314	0.48433557	0.024268603	9.317E-07	3.39E-03	1.22E+00	5.99E-03	1.81E-01	8.94E-02	1.83E+00
211	487777.14	3857028.23	0.04486	0.01295	0.00895	0.05962	2.585	0.04	0.0243	0.01295	0.46805889	0.023917687	9.317E-07	3.14E-03	1.21E+00	5.69E-03	1.72E-01	8.81E-02	1.80E+00
212	487427.14	3857078.23	0.06336	0.01507	0.00941	0.15793	2.022	0.077	0.0409	0.01507	0.66108362	0.02783317	9.796E-07	8.32E-03	9.48E-01	1.09E-02	2.89E-01	1.02E-01	1.84E+00
213	487477.14	3857078.23	0.05986	0.01477	0.00938	0.13022	2.189	0.068	0.0376	0.01477	0.62456543	0.027279092	9.765E-07	6.86E-03	1.03E+00	9.63E-03	2.66E-01	1.00E-01	1.86E+00
214	487527.14	3857078.23	0.05687	0.01451	0.00933	0.11089	2.314	0.062	0.0348	0.01451	0.59336846	0.026798892	9.713E-07	5.84E-03	1.08E+00	8.69E-03	2.46E-01	9.87E-02	1.87E+00
215	487577.14	3857078.23	0.05427	0.01425	0.00923	0.09675	2.414	0.057	0.0324	0.01425	0.56624066	0.026318691	9.609E-07	5.10E-03	1.13E+00	7.95E-03	2.30E-01	9.69E-02	1.87E+00
216	487627.14	3857078.23	0.052	0.01399	0.00909	0.08598	2.496	0.052	0.0304	0.01399	0.542556	0.02583849	9.463E-07	4.53E-03	1.17E+00	7.35E-03	2.15E-01	9.51E-02	1.87E+00
217	487677.14	3857078.23	0.04995	0.01377	0.00898	0.07743	2.55	0.049	0.0286	0.01377	0.52116677	0.025432167	9.349E-07	4.08E-03	1.20E+00	6.86E-03	2.03E-01	9.36E-02	1.86E+00
218	487727.14	3857078.23	0.04807	0.01356	0.00894	0.07051	2.581	0.046	0.027	0.01356	0.50155129	0.025044312	9.307E-07	3.71E-03	1.21E+00	6.45E-03	1.92E-01	9.22E-02	1.85E+00
219	487777.14	3857078.23	0.04638	0.01334	0.00896	0.06483	2.597	0.043	0.0256	0.01334	0.48391822	0.024637988	9.328E-07	3.41E-03	1.22E+00	6.09E-03	1.82E-01	9.07E-02	1.83E+00
220	487427.14	3857128.23	0.06793	0.01567	0.00956	0.20423	1.771	0.092	0.0451	0.01567	0.70876595	0.028941325	9.953E-07	1.08E-02	8.30E-01	1.29E-02	3.19E-01	1.07E-01	1.80E+00
221	487477.14	3857128.23	0.06358	0.01534	0.00952	0.16029	1.997	0.079	0.0411	0.01534	0.66337905	0.02833184	9.911E-07	8.44E-03	9.36E-01	1.11E-02	2.91E-01	1.04E-01	1.83E+00
222	487527.14	3857128.23	0.06	0.01503	0.00944	0.13196	2.168	0.07	0.0377	0.01503	0.62602616	0.027759293	9.828E-07	6.95E-03	1.02E+00	9.85E-03	2.67E-01	1.02E-01	1.85E+00
223	487577.14	3857128.23	0.05696	0.01476	0.00931	0.11219	2.295	0.063	0.0349	0.01476	0.5943075	0.027260623	9.692E-07	5.91E-03	1.08E+00	8.88E-03	2.47E-01	1.00E-01	1.86E+00
224	487627.14	3857128.23	0.05432	0.0145	0.00916	0.09775	2.393	0.058	0.0325	0.0145	0.56676235	0.026780422	9.536E-07	5.15E-03	1.12E+00	8.11E-03	2.30E-01	9.86E-02	1.86E+00
225	487677.14	3857128.23	0.05202	0.01423	0.00904	0.0868	2.476	0.053	0.0305	0.01423	0.54276468	0.026281752	9.411E-07	4.57E-03	1.16E+00	7.50E-03	2.16E-01	9.68E-02	1.86E+00
226	487727.14	3857128.23	0.04991	0.01403	0.00903	0.07807	2.52	0.05	0.0287	0.01403	0.52074942	0.025912367	9.401E-07	4.11E-03	1.18E+00	6.99E-03	2.03E-01	9.54E-02	1.85E+00
227	487777.14	3857128.23	0.04805	0.0138	0.00909	0.07112	2.557	0.047	0.0271	0.0138	0.50134261	0.025487574	9.463E-07	3.75E-03	1.20E+00	6.57E-03	1.92E-01	9.38E-02	1.83E+00
228	488049.44	3856539.39	0.03197	0.00955	0.01017	0.02876	0.128	0.022	0.0145	0.00955	0.3335676	0.01763814	1.059E-06	1.51E-03	6.02E-02	3.13E-03	1.03E-01	6.49E-02	4.54E-01

229	488099.44	3856539.39	0.03142	0.00945	0.01008	0.028	0.131	0.022	0.0142	0.00945	0.32782903	0.017453448	1.049E-06	1.47E-03	6.12E-02	3.07E-03	1.00E-01	6.43E-02	4.47E-01
230	488149.44	3856539.39	0.03086	0.00936	0.01	0.02729	0.133	0.021	0.0139	0.00936	0.32198612	0.017287224	1.041E-06	1.44E-03	6.23E-02	3.01E-03	9.83E-02	6.36E-02	4.41E-01
231	488049.44	3856589.39	0.03244	0.00976	0.01006	0.02974	0.168	0.023	0.0149	0.00976	0.33847148	0.018025995	1.047E-06	1.57E-03	7.89E-02	3.23E-03	1.05E-01	6.64E-02	4.79E-01
232	488099.44	3856589.39	0.03186	0.00966	0.00999	0.02891	0.17	0.022	0.0145	0.00966	0.33241989	0.017841302	1.04E-06	1.52E-03	7.99E-02	3.16E-03	1.03E-01	6.57E-02	4.72E-01
233	488149.44	3856589.39	0.03129	0.00956	0.00991	0.02814	0.172	0.022	0.0142	0.00956	0.32647264	0.017656609	1.032E-06	1.48E-03	8.04E-02	3.10E-03	1.00E-01	6.50E-02	4.65E-01
234	488199.44	3856589.39	0.03075	0.00945	0.00981	0.02743	0.172	0.022	0.0139	0.00945	0.3208384	0.017453448	1.021E-06	1.44E-03	8.07E-02	3.04E-03	9.83E-02	6.43E-02	4.58E-01
235	488249.44	3856589.39	0.03016	0.0094	0.00973	0.02677	0.172	0.021	0.0136	0.0094	0.31468248	0.017361101	1.013E-06	1.41E-03	8.07E-02	2.99E-03	9.62E-02	6.39E-02	4.49E-01
236	488049.44	3856639.39	0.03295	0.00997	0.00997	0.03079	0.23	0.024	0.0152	0.00997	0.3437927	0.018413849	1.038E-06	1.62E-03	1.08E-01	3.34E-03	1.08E-01	6.78E-02	5.15E-01
237	488099.44	3856639.39	0.03234	0.00986	0.00992	0.0299	0.23	0.023	0.0149	0.00986	0.3374281	0.018210687	1.033E-06	1.57E-03	1.08E-01	3.26E-03	1.05E-01	6.70E-02	5.07E-01
238	488149.44	3856639.39	0.03174	0.00976	0.00985	0.02907	0.228	0.023	0.0145	0.00976	0.33116784	0.018025995	1.025E-06	1.53E-03	1.07E-01	3.20E-03	1.03E-01	6.64E-02	4.97E-01
239	488199.44	3856639.39	0.03115	0.00968	0.00977	0.0283	0.225	0.022	0.0142	0.00968	0.32501191	0.017878241	1.017E-06	1.49E-03	1.05E-01	3.14E-03	1.01E-01	6.58E-02	4.88E-01
240	488249.44	3856639.39	0.03059	0.00959	0.00967	0.02758	0.221	0.022	0.0139	0.00959	0.319169	0.017712017	1.007E-06	1.45E-03	1.04E-01	3.08E-03	9.83E-02	6.52E-02	4.78E-01
241	488299.44	3856639.39	0.03005	0.0095	0.00958	0.02691	0.217	0.022	0.0136	0.0095	0.31353477	0.017545794	9.973E-07	1.42E-03	1.02E-01	3.03E-03	9.62E-02	6.46E-02	4.69E-01
242	488349.44	3856639.39	0.02955	0.00941	0.00952	0.02629	0.213	0.021	0.0133	0.00941	0.30831788	0.017379571	9.911E-07	1.38E-03	9.98E-02	2.98E-03	9.42E-02	6.40E-02	4.60E-01
243	488399.44	3856639.39	0.02902	0.00935	0.00954	0.02571	0.208	0.021	0.013	0.00935	0.30278798	0.017268755	9.932E-07	1.35E-03	9.76E-02	2.93E-03	9.24E-02	6.36E-02	4.51E-01
244	488099.44	3856689.39	0.03283	0.01009	0.00987	0.03097	0.322	0.024	0.0153	0.01009	0.34254065	0.01863548	1.028E-06	1.63E-03	1.51E-01	3.37E-03	1.08E-01	6.86E-02	5.57E-01
245	488149.44	3856689.39	0.03221	0.00998	0.0098	0.03007	0.309	0.023	0.0149	0.00998	0.33607171	0.018432318	1.02E-06	1.58E-03	1.45E-01	3.30E-03	1.05E-01	6.79E-02	5.42E-01
246	488199.44	3856689.39	0.0316	0.00989	0.00973	0.02923	0.296	0.023	0.0145	0.00989	0.32970711	0.018266095	1.013E-06	1.54E-03	1.39E-01	3.24E-03	1.03E-01	6.73E-02	5.27E-01
247	488249.44	3856689.39	0.03103	0.00978	0.00965	0.02846	0.285	0.023	0.0142	0.00978	0.32375986	0.018062933	1.005E-06	1.50E-03	1.34E-01	3.18E-03	1.01E-01	6.65E-02	5.14E-01
248	488299.44	3856689.39	0.03045	0.00971	0.00961	0.02774	0.274	0.022	0.0139	0.00971	0.31770827	0.017933648	1E-06	1.46E-03	1.28E-01	3.12E-03	9.83E-02	6.60E-02	5.01E-01
249	488349.44	3856689.39	0.02993	0.00961	0.0096	0.02706	0.264	0.022	0.0136	0.00961	0.31228271	0.017748956	9.994E-07	1.43E-03	1.24E-01	3.07E-03	9.63E-02	6.53E-02	4.89E-01
250	488399.44	3856689.39	0.02946	0.00949	0.00964	0.02643	0.255	0.021	0.0133	0.00949	0.30737884	0.017527325	1.004E-06	1.39E-03	1.20E-01	3.01E-03	9.42E-02	6.45E-02	4.79E-01
251	488099.44	3856739.39	0.03334	0.01033	0.00981	0.03213	0.453	0.025	0.0157	0.01033	0.34786187	0.019078742	1.021E-06	1.69E-03	2.13E-01	3.49E-03	1.11E-01	7.02E-02	6.25E-01
252	488149.44	3856739.39	0.03271	0.0102	0.00976	0.03115	0.416	0.024	0.0153	0.0102	0.34128859	0.018838642	1.016E-06	1.64E-03	1.95E-01	3.42E-03	1.08E-01	6.94E-02	5.99E-01
253	488199.44	3856739.39	0.03205	0.01012	0.00972	0.03024	0.385	0.024	0.0149	0.01012	0.33440231	0.018690888	1.012E-06	1.59E-03	1.80E-01	3.35E-03	1.05E-01	6.88E-02	5.75E-01
254	488249.44	3856739.39	0.03147	0.01	0.00967	0.0294	0.36	0.023	0.0145	0.01	0.32835072	0.018469257	1.007E-06	1.55E-03	1.69E-01	3.28E-03	1.03E-01	6.80E-02	5.56E-01
255	488299.44	3856739.39	0.03094	0.00987	0.00965	0.02862	0.341	0.023	0.0142	0.00987	0.32282082	0.018229156	1.005E-06	1.51E-03	1.60E-01	3.21E-03	1.01E-01	6.71E-02	5.39E-01
256	488349.44	3856739.39	0.03033	0.00981	0.00975	0.0279	0.322	0.022	0.0139	0.00981	0.31645622	0.018118341	1.015E-06	1.47E-03	1.51E-01	3.16E-03	9.84E-02	6.67E-02	5.22E-01
257	488399.44	3856739.39	0.02976	0.00976	0.00991	0.02723	0.305	0.022	0.0136	0.00976	0.31050897	0.018025995	1.032E-06	1.43E-03	1.43E-01	3.11E-03	9.63E-02	6.64E-02	5.06E-01
258	487999.44	3856789.39	0.03544	0.01077	0.00971	0.03588	0.855	0.027	0.0171	0.01077	0.36977278	0.019891389	1.011E-06	1.89E-03	4.01E-01	3.81E-03	1.21E-01	7.32E-02	8.44E-01
259	488049.44	3856789.39	0.03468	0.01065	0.00972	0.03458	0.698	0.026	0.0166	0.01065	0.36184312	0.019669758	1.012E-06	1.82E-03	3.27E-01	3.71E-03	1.17E-01	7.24E-02	7.59E-01
260	488099.44	3856789.39	0.03392	0.01056	0.00973	0.0334	0.597	0.026	0.0161	0.01056	0.35391345	0.019503535	1.013E-06	1.76E-03	2.80E-01	3.62E-03	1.14E-01	7.18E-02	7.01E-01
261	488149.44	3856789.39	0.03324	0.01044	0.0097	0.03233	0.53	0.025	0.0157	0.01044	0.34681849	0.019281904	1.01E-06	1.70E-03	2.48E-01	3.54E-03	1.11E-01	7.10E-02	6.60E-01
262	488199.44	3856789.39	0.03257	0.01034	0.0097	0.03134	0.48	0.025	0.0153	0.01034	0.33982787	0.019097211	1.01E-06	1.65E-03	2.25E-01	3.46E-03	1.08E-01	7.03E-02	6.27E-01
263	488249.44	3856789.39	0.03195	0.01022	0.00972	0.03043	0.441	0.024	0.0149	0.01022	0.33335893	0.01887558	1.012E-06	1.60E-03	2.07E-01	3.39E-03	1.06E-01	6.95E-02	6.00E-01
264	488299.44	3856789.39	0.03138	0.0101	0.0098	0.02958	0.411	0.024	0.0145	0.0101	0.32741168	0.018653949	1.02E-06	1.56E-03	1.93E-01	3.32E-03	1.03E-01	6.87E-02	5.78E-01
265	488349.44	3856789.39	0.03075	0.01004	0.00999	0.0288	0.383	0.023	0.0142	0.01004	0.3208384	0.018543134	1.04E-06	1.52E-03	1.80E-01	3.27E-03	1.01E-01	6.83E-02	5.56E-01
266	488399.44	3856789.39	0.03018	0.00996	0.01018	0.02807	0.36	0.023	0.0139	0.00996	0.31489116	0.01839538	1.06E-06	1.48E-03	1.69E-01	3.21E-03	9.84E-02	6.77E-02	5.37E-01
267	487949.44	3856839.39	0.037	0.01115	0.00955	0.0391	1.309	0.029	0.0182	0.01115	0.38604946	0.020593221	9.942E-07	2.06E-03	6.14E-01	4.09E-03	1.29E-01	7.58E-02	1.08E+00
268	487999.44	3856839.39	0.03614	0.01102	0.00959	0.03752	1.035	0.028	0.0176	0.01102	0.37707642	0.020353121	9.984E-07	1.98E-03	4.85E-01	3.97E-03	1.25E-01	7.49E-02	9.38E-01
269	488049.44	3856839.39	0.03533	0.0109	0.00961	0.03609	0.851	0.027	0.0171	0.0109	0.36862507	0.02013149	1E-06	1.90E-03	3.99E-01	3.86E-03	1.21E-01	7.41E-02	8.41E-01
270	488099.44	3856839.39	0.03455	0.01079	0.00962	0.0348	0.727	0.027	0.0166	0.01079	0.36048673	0.019928328	1.002E-06	1.83E-03	3.41E-01	3.76E-03	1.17E-01	7.34E-02	7.71E-01
271	488149.44	3856839.39	0.03381	0.01069	0.00965	0.03361	0.638	0.026	0.0161	0.01069	0.35276574	0.019743635	1.005E-06	1.77E-03	2.99E-01	3.67E-03	1.14E-01	7.27E-02	7.19E-01
272	488199.44	3856839.39	0.03311	0.01058	0.00971	0.03253	0.572	0.026	0.0157	0.01058	0.3454621	0.019540474	1.011E-06	1.71E-03	2.68E-01	3.59E-03	1.11E-01	7.19E-02	6.78E-01
273	487949.44	3856889.39	0.03783	0.01141	0.0094	0.04111	1.496	0.03	0.0188	0.01141	0.39470949	0.021073422	9.786E-07	2.17E-03	7.02E-01	4.27E-03	1.33E-01	7.76E-02	1.18E+00
274	487999.44	3856889.39	0.03688	0.01131	0.00946	0.03935	1.189	0.029	0.0182	0.01131	0.38479741	0.020888729	9.848E-07	2.07E-03	5.58E-01	4.14E-03	1.29E-01	7.69E-02	1.02E+00
275	488049.44	3856889.39	0.03605	0.01115	0.00948	0.03777	0.989	0.029	0.0176	0.01115	0.37613738	0.020593221	9.869E-07	1.99E-03	4.64E-01	4.02E-03	1.25E-01	7.58E-02	9.16E-01
276	488099.44	3856889.39	0.03521	0.01105	0.00954	0.03633	0.844	0.028	0.0171	0.01105	0.36737302	0.020408529	9.932E-07	1.91E-03	3.96E-01	3.91E-03	1.21E-01	7.51E-02	8.36E-01
277	488635.86	3857895.05	0.04799	0.01912	0.05083	0.07399	0.093	0.071	0.0259	0.01912	0.50071659	0.035313219	5.292E-06	3.90E-03	4.38E-02	9.94E-03	1.84E-01	1.30E-01	6.47E-01
278	489137.64	3857804.15	0.03646	0.01439	0.03192	0.04319	0.105	0.042	0.0166	0.01439	0.38041523	0.02657726	3.323E-06	2.27E-03	4.91E-02	5.84E-03	1.17E-01	9.78E-02	4.84E-01
279	488617.32	3857859.41	0.047	0.01863	0.04993	0.07126	0.111	0.069	0.0254	0.01863	0.49038716	0.034408225	5.198E-06	3.75E-03	5.22E-02	9.66E-03	1.80E-01	1.27E-01	6.44E-01
280	488667.32	3857859.41	0.0456	0.01818	0.04767	0.06663	0.109	0.065	0.0242	0.01818	0.47577988	0.033577109	4.963E-06	3.51E-03	5.11E-02	9.10E-03	1.71E-01	1.24E-01	6.21E-01
281	488717.32	3857859.41	0.04436	0.01776	0.04558	0.06276	0.107	0.061	0.0231	0.01776	0.462842	0.0328014	4.745E-06	3.31E-03	5.00E-02	8.61E-03	1.64E-01	1.21E-01	6.01E-01
282	488767.32	3857859.41	0.04323	0.01739	0.04374	0.0595	0.104	0.058	0.0222	0.01739	0.45105185	0.032118037	4.554E-06	3.13E-03	4.88E-02	8.19E-03	1.57E-01	1.18E-01	5.82E-01
283	488617.32	3857909.41	0.04926	0.01958	0.05235	0.07825	0.088	0.074	0.0268	0.01958	0.51396747	0.036162805	5.45E-06	4.12E-03	4.12E-02	1.04E-02	1.90E-01	1.33E-01	6.63E-01
284	488667.32	3857909.41	0.04767	0.01915	0.04986	0.07248	0.087	0.069	0.0256	0.01915	0.49737778	0.035368627	5.191E-06	3.82E-03	4.06E-02	9.75E-03	1.81E-01	1.30E-01	6.38E-01
285	488717.32	3857909.41	0.04641	0.01863	0.04732	0.06793	0.086	0.065	0.0243	0.01863	0.48423123	0.034408225	4.926E-06	3.58E-03	4.03E-02	9.18E-03	1.72E-01	1.27E-01	6.17E-01
286	488767.32	3857909.41	0.04526	0.01822	0.04518	0.06403	0.085	0.062	0.0233	0.01822	0.4722324	0.033650986	4.704E-06	3.37E-03	3.97E-02	8.69E-03	1.65E-01	1.24E-01	5.99E-01

287	488417.32	3857959.41	0.06271	0.02307	0.06819	0.14524	0.07	0.118	0.037	0.02307	0.65430167	0.042608575	7.099E-06	7.65E-03	3.27E-02	1.66E-02	2.62E-01	1.57E-01	8.59E-01
288	488467.32	3857959.41	0.05918	0.02242	0.06391	0.12317	0.071	0.105	0.0344	0.02242	0.61747047	0.041408074	6.653E-06	6.49E-03	3.31E-02	1.47E-02	2.44E-01	1.52E-01	8.04E-01
289	488517.32	3857959.41	0.05629	0.02182	0.06007	0.10743	0.071	0.094	0.0322	0.02182	0.58731687	0.040299918	6.254E-06	5.66E-03	3.33E-02	1.33E-02	2.28E-01	1.48E-01	7.59E-01
290	488567.32	3857959.41	0.05388	0.02124	0.05662	0.09569	0.071	0.086	0.0302	0.02124	0.56217149	0.039228701	5.894E-06	5.04E-03	3.32E-02	1.21E-02	2.14E-01	1.44E-01	7.22E-01
291	488617.32	3857959.41	0.05187	0.02067	0.05343	0.08673	0.071	0.08	0.0285	0.02067	0.54119961	0.038175954	5.562E-06	4.57E-03	3.31E-02	1.12E-02	2.02E-01	1.41E-01	6.90E-01
292	488667.32	3857959.41	0.0502	0.02013	0.05054	0.07966	0.07	0.074	0.027	0.02013	0.52377522	0.037178614	5.262E-06	4.20E-03	3.30E-02	1.04E-02	1.91E-01	1.37E-01	6.63E-01
293	488717.32	3857959.41	0.0488	0.01964	0.04797	0.07394	0.07	0.069	0.0257	0.01964	0.50916794	0.03627362	4.994E-06	3.89E-03	3.28E-02	9.76E-03	1.82E-01	1.34E-01	6.40E-01
294	488767.32	3857959.41	0.04772	0.01915	0.04559	0.06931	0.069	0.065	0.0245	0.01915	0.49789947	0.035368627	4.746E-06	3.65E-03	3.26E-02	9.20E-03	1.73E-01	1.30E-01	6.22E-01
295	488417.32	3858009.41	0.06824	0.02462	0.06819	0.1819	0.057	0.135	0.0404	0.02462	0.71200041	0.04547131	7.099E-06	9.58E-03	2.66E-02	1.89E-02	2.86E-01	1.67E-01	9.31E-01
296	488467.32	3858009.41	0.06369	0.0239	0.0637	0.14777	0.058	0.117	0.0373	0.0239	0.66452676	0.044141524	6.632E-06	7.78E-03	2.71E-02	1.64E-02	2.64E-01	1.63E-01	8.62E-01
297	488517.32	3858009.41	0.06014	0.0232	0.05968	0.12515	0.058	0.104	0.0347	0.0232	0.62748688	0.042848676	6.213E-06	6.59E-03	2.73E-02	1.46E-02	2.46E-01	1.58E-01	8.07E-01
298	488567.32	3858009.41	0.05729	0.02256	0.05611	0.10909	0.058	0.094	0.0325	0.02256	0.59775064	0.041666643	5.841E-06	5.75E-03	2.73E-02	1.32E-02	2.30E-01	1.53E-01	7.62E-01
299	488617.32	3858009.41	0.05503	0.02189	0.05279	0.09738	0.058	0.086	0.0304	0.02189	0.57417032	0.040429203	5.496E-06	5.13E-03	2.73E-02	1.20E-02	2.16E-01	1.49E-01	7.26E-01
300	488667.32	3858009.41	0.05323	0.02127	0.04982	0.08836	0.058	0.079	0.0287	0.02127	0.55538954	0.039284109	5.187E-06	4.65E-03	2.73E-02	1.11E-02	2.03E-01	1.45E-01	6.96E-01
301	488717.32	3858009.41	0.05185	0.02071	0.04718	0.08123	0.058	0.074	0.0272	0.02071	0.54099094	0.038249831	4.912E-06	4.28E-03	2.72E-02	1.04E-02	1.93E-01	1.41E-01	6.73E-01
302	488767.32	3858009.41	0.05095	0.02018	0.04479	0.07555	0.058	0.069	0.0258	0.02018	0.53160054	0.03727096	4.663E-06	3.98E-03	2.71E-02	9.75E-03	1.83E-01	1.37E-01	6.56E-01
303	488417.32	3858059.41	0.07585	0.02646	0.06536	0.24277	0.048	0.16	0.0446	0.02646	0.7914014	0.048869653	6.804E-06	1.28E-02	2.23E-02	2.25E-02	3.16E-01	1.80E-01	1.03E+00
304	488467.32	3858059.41	0.06963	0.02561	0.06105	0.18485	0.049	0.133	0.0408	0.02561	0.72650335	0.047299766	6.356E-06	9.74E-03	2.28E-02	1.88E-02	2.89E-01	1.74E-01	9.40E-01
305	488517.32	3858059.41	0.06507	0.02479	0.05718	0.15018	0.049	0.116	0.0377	0.02479	0.67892537	0.045785287	5.953E-06	7.91E-03	2.30E-02	1.62E-02	2.67E-01	1.69E-01	8.70E-01
306	488567.32	3858059.41	0.06162	0.02404	0.05374	0.12719	0.049	0.103	0.0351	0.02404	0.64292886	0.044400093	5.595E-06	6.70E-03	2.31E-02	1.44E-02	2.48E-01	1.63E-01	8.16E-01
307	488617.32	3858059.41	0.05899	0.02334	0.05064	0.11104	0.049	0.093	0.0328	0.02334	0.61548805	0.043107245	5.272E-06	5.85E-03	2.31E-02	1.31E-02	2.32E-01	1.59E-01	7.74E-01
308	488667.32	3858059.41	0.05711	0.02262	0.04779	0.09923	0.049	0.085	0.0307	0.02262	0.59587256	0.041777459	4.975E-06	5.23E-03	2.30E-02	1.20E-02	2.18E-01	1.54E-01	7.42E-01
309	488417.32	3858109.41	0.08785	0.02844	0.06025	0.36977	0.041	0.206	0.0494	0.02844	0.91660663	0.052526566	6.272E-06	1.95E-02	1.92E-02	2.90E-02	3.50E-01	1.93E-01	1.19E+00
310	488467.32	3858109.41	0.07828	0.02749	0.05651	0.24989	0.042	0.16	0.0449	0.02749	0.81675546	0.050771987	5.883E-06	1.32E-02	1.96E-02	2.25E-02	3.18E-01	1.87E-01	1.05E+00
311	488517.32	3858109.41	0.07187	0.02661	0.05315	0.18912	0.042	0.133	0.0413	0.02661	0.749875	0.049146692	5.533E-06	9.96E-03	1.99E-02	1.87E-02	2.92E-01	1.81E-01	9.59E-01
312	488567.32	3858109.41	0.06741	0.02574	0.05007	0.15338	0.043	0.115	0.0381	0.02574	0.70334039	0.047539867	5.213E-06	8.08E-03	2.00E-02	1.62E-02	2.70E-01	1.75E-01	8.90E-01
313	488617.32	3858109.41	0.06435	0.02494	0.04733	0.12987	0.043	0.102	0.0354	0.02494	0.67141305	0.046062326	4.927E-06	6.84E-03	2.00E-02	1.44E-02	2.50E-01	1.70E-01	8.40E-01
314	488667.32	3858109.41	0.06262	0.0241	0.04475	0.11357	0.042	0.093	0.033	0.0241	0.65336263	0.044510909	4.659E-06	5.98E-03	1.99E-02	1.30E-02	2.34E-01	1.64E-01	8.07E-01
315	488769.93	3858449.27	0.07266	0.03832	0.02343	0.47044	0.022	0.231	0.0522	0.03832	0.75811767	0.070774192	2.439E-06	2.48E-02	1.03E-02	3.25E-02	3.70E-01	2.61E-01	1.01E+00
316	488819.93	3858449.27	0.06757	0.03625	0.02297	0.30207	0.022	0.17	0.047	0.03625	0.70500979	0.066951056	2.391E-06	1.59E-02	1.02E-02	2.39E-02	3.33E-01	2.46E-01	9.08E-01
317	488819.93	3858499.27	0.07851	0.04029	0.02115	0.49966	0.02	0.24	0.0528	0.04029	0.81915523	0.074412635	2.202E-06	2.63E-02	9.59E-03	3.37E-02	3.74E-01	2.74E-01	1.06E+00
318	488869.93	3858499.27	0.0706	0.03797	0.02082	0.3171	0.02	0.174	0.0475	0.03797	0.73662411	0.070127768	2.167E-06	1.67E-02	9.46E-03	2.45E-02	3.37E-01	2.58E-01	9.36E-01
319	488869.93	3858549.27	0.08334	0.04245	0.0194	0.53114	0.019	0.249	0.0535	0.04245	0.86955033	0.078401995	2.02E-06	2.80E-02	8.92E-03	3.50E-02	3.79E-01	2.89E-01	1.11E+00
320	489438.17	3859571.48	0.0431	0.02097	0.04552	0.08513	0.008	0.037	0.0202	0.02097	0.44969546	0.038730031	4.739E-06	4.48E-03	3.83E-03	5.22E-03	1.43E-01	1.43E-01	5.02E-01
321	489488.17	3859571.48	0.04089	0.02295	0.05446	0.07552	0.008	0.037	0.0221	0.02295	0.42663683	0.042386944	5.67E-06	3.98E-03	3.76E-03	5.23E-03	1.57E-01	1.56E-01	4.82E-01
322	489538.17	3859571.48	0.03918	0.02536	0.06718	0.06949	0.008	0.037	0.0245	0.02536	0.40879508	0.046838035	6.994E-06	3.66E-03	3.67E-03	5.27E-03	1.73E-01	1.72E-01	4.69E-01
323	489588.17	3859571.48	0.03785	0.02831	0.08653	0.06578	0.008	0.038	0.0274	0.02831	0.39491817	0.052286466	9.008E-06	3.46E-03	3.57E-03	5.34E-03	1.94E-01	1.93E-01	4.61E-01
324	489438.17	3859621.48	0.04286	0.01811	0.03474	0.08293	0.008	0.036	0.0174	0.01811	0.44719135	0.033447824	3.617E-06	4.37E-03	3.74E-03	5.03E-03	1.23E-01	1.23E-01	4.94E-01
325	489488.17	3859621.48	0.04033	0.01952	0.04067	0.07305	0.008	0.036	0.0188	0.01952	0.42079391	0.036051989	4.234E-06	3.85E-03	3.69E-03	5.01E-03	1.33E-01	1.33E-01	4.70E-01
326	489538.17	3859621.48	0.03838	0.0212	0.04934	0.06664	0.008	0.036	0.0205	0.0212	0.40044806	0.039154824	5.137E-06	3.51E-03	3.61E-03	5.02E-03	1.45E-01	1.44E-01	4.53E-01
327	489588.17	3859621.48	0.03686	0.02327	0.06132	0.06245	0.008	0.036	0.0225	0.02327	0.38458874	0.04297796	6.384E-06	3.29E-03	3.53E-03	5.05E-03	1.60E-01	1.58E-01	4.41E-01
328	489238.17	3859671.48	0.06699	0.01283	0.01896	0.38308	0.008	0.037	0.0123	0.01283	0.6989582	0.023696056	1.974E-06	2.02E-02	3.52E-03	5.21E-03	8.69E-02	8.72E-02	7.51E-01
329	489288.17	3859671.48	0.05603	0.01347	0.02039	0.19054	0.008	0.036	0.0129	0.01347	0.58460409	0.024878089	2.123E-06	1.00E-02	3.59E-03	5.10E-03	9.15E-02	9.16E-02	6.28E-01
330	489338.17	3859671.48	0.04925	0.01421	0.02217	0.12671	0.008	0.036	0.0136	0.01421	0.51386314	0.026244814	2.308E-06	6.67E-03	3.64E-03	5.00E-03	9.66E-02	9.66E-02	5.55E-01
331	489388.17	3859671.48	0.04477	0.01506	0.02459	0.09725	0.008	0.035	0.0145	0.01506	0.46711985	0.027814701	2.56E-06	5.12E-03	3.66E-03	4.93E-03	1.03E-01	1.02E-01	5.09E-01
332	489438.17	3859671.48	0.04154	0.01598	0.02789	0.08106	0.008	0.035	0.0154	0.01598	0.43341878	0.029513872	2.904E-06	4.27E-03	3.65E-03	4.87E-03	1.09E-01	1.09E-01	4.76E-01
333	489488.17	3859671.48	0.03915	0.01709	0.03259	0.07085	0.008	0.034	0.0165	0.01709	0.40848207	0.03156396	3.393E-06	3.73E-03	3.62E-03	4.83E-03	1.17E-01	1.16E-01	4.53E-01
334	489538.17	3859671.48	0.03727	0.01834	0.03868	0.06421	0.008	0.034	0.0177	0.01834	0.38886658	0.033872617	4.027E-06	3.38E-03	3.56E-03	4.81E-03	1.26E-01	1.25E-01	4.35E-01
335	489588.17	3859671.48	0.03578	0.01981	0.04546	0.05971	0.007	0.034	0.0192	0.01981	0.37332026	0.036587598	4.733E-06	3.15E-03	3.49E-03	4.81E-03	1.36E-01	1.35E-01	4.23E-01
336	489238.17	3859721.48	0.0593	0.01181	0.01612	0.3812	0.007	0.036	0.0113	0.01181	0.61872252	0.021812192	1.678E-06	2.01E-02	3.36E-03	5.10E-03	8.01E-02	8.03E-02	6.69E-01
337	489288.17	3859721.48	0.05047	0.01236	0.01727	0.18818	0.007	0.035	0.0119	0.01236	0.52659233	0.022828001	1.798E-06	9.91E-03	3.46E-03	4.98E-03	8.41E-02	8.40E-02	5.68E-01
338	489338.17	3859721.48	0.0453	0.01296	0.01879	0.12482	0.008	0.035	0.0125	0.01296	0.47264975	0.023936157	1.956E-06	6.57E-03	3.52E-03	4.88E-03	8.84E-02	8.81E-02	5.12E-01
339	489388.17	3859721.48	0.0419	0.01362	0.02086	0.09567	0.008	0.034	0.0131	0.01362	0.43717493	0.025155128	2.172E-06	5.04E-03	3.55E-03	4.80E-03	9.30E-02	9.26E-02	4.76E-01
340	489438.17	3859721.48	0.03941	0.01435	0.02357	0.07939	0.008	0.034	0.0139	0.01435	0.41119485	0.026503383	2.454E-06	4.18E-03	3.55E-03	4.73E-03	9.81E-02	9.76E-02	4.51E-01
341	489488.17	3859721.48	0.03752	0.01522	0.02722	0.06899	0.008	0.033	0.0147	0.01522	0.39147502	0.028110209	2.834E-06	3.63E-03	3.55E-03	4.68E-03	1.04E-01	1.03E-01	4.32E-01
342	489538.17	3859721.48	0.03597	0.01618	0.03144	0.06214	0.007	0.033	0.0157	0.01618	0.37530268	0.029883257	3.273E-06	3.27E-03	3.51E-03	4.64E-03	1.11E-01	1.10E-01	4.17E-01
343	489588.17	3859721.48	0.03468	0.01727	0.035	0.05745	0.007	0.033	0.0167	0.01727	0.36184312	0.031896406	3.644E-06	3.03E-03	3.45E-03	4.62E-03	1.19E-01	1.17E-01	4.06E-01
344	489238.17	3859771.48	0.04515	0.01095	0.01409	0.37836	0.007	0.035	0.0105	0.01095	0.47108468	0.020223836	1.467E-06	1.99E-02	3.20E-03	4.99E-03	7.45E-02	7.45E-02	5.19E-01

345	489288.17	3859771.48	0.0429	0.01142	0.0152	0.18615	0.007	0.035	0.011	0.01142	0.4476087	0.021091891	1.582E-06	9.81E-03	3.32E-03	4.87E-03	7.79E-02	7.77E-02	4.87E-01
346	489338.17	3859771.48	0.04073	0.0119	0.01656	0.12357	0.007	0.034	0.0115	0.0119	0.42496742	0.021978415	1.724E-06	6.51E-03	3.39E-03	4.77E-03	8.13E-02	8.09E-02	4.62E-01
347	489388.17	3859771.48	0.03892	0.01245	0.01832	0.0943	0.007	0.033	0.012	0.01245	0.4060823	0.022994225	1.907E-06	4.97E-03	3.44E-03	4.68E-03	8.52E-02	8.47E-02	4.43E-01
348	489438.17	3859771.48	0.03735	0.01304	0.0205	0.07799	0.007	0.033	0.0126	0.01304	0.38970128	0.024083911	2.134E-06	4.11E-03	3.46E-03	4.61E-03	8.93E-02	8.87E-02	4.27E-01
349	489488.17	3859771.48	0.03604	0.01374	0.02341	0.06737	0.007	0.032	0.0133	0.01374	0.37603304	0.025376759	2.437E-06	3.55E-03	3.47E-03	4.55E-03	9.42E-02	9.34E-02	4.14E-01
350	489538.17	3859771.48	0.03487	0.01449	0.02625	0.06031	0.007	0.032	0.0141	0.01449	0.36382553	0.026761953	2.733E-06	3.18E-03	3.45E-03	4.50E-03	9.95E-02	9.85E-02	4.03E-01
351	489588.17	3859771.48	0.03379	0.01532	0.02772	0.05556	0.007	0.032	0.0149	0.01532	0.35255706	0.028294901	2.886E-06	2.93E-03	3.39E-03	4.47E-03	1.05E-01	1.04E-01	3.93E-01
352	489238.17	3859821.48	0.0402	0.01022	0.01274	0.3766	0.007	0.035	0.0098	0.01022	0.41943752	0.01887558	1.326E-06	1.98E-02	3.05E-03	4.89E-03	6.96E-02	6.95E-02	4.66E-01
353	489288.17	3859821.48	0.03938	0.01062	0.01377	0.18475	0.007	0.034	0.0102	0.01062	0.41088183	0.019614351	1.434E-06	9.73E-03	3.17E-03	4.77E-03	7.24E-02	7.22E-02	4.48E-01
354	489338.17	3859821.48	0.0384	0.01103	0.01494	0.12223	0.007	0.033	0.0106	0.01103	0.40065674	0.02037159	1.555E-06	6.44E-03	3.25E-03	4.67E-03	7.54E-02	7.50E-02	4.36E-01
355	489388.17	3859821.48	0.03735	0.01148	0.01641	0.09306	0.007	0.033	0.0111	0.01148	0.38970128	0.021202707	1.708E-06	4.90E-03	3.32E-03	4.58E-03	7.86E-02	7.81E-02	4.24E-01
356	489438.17	3859821.48	0.03632	0.01199	0.0184	0.07632	0.007	0.032	0.0116	0.01199	0.3789545	0.022144639	1.916E-06	4.02E-03	3.37E-03	4.50E-03	8.23E-02	8.15E-02	4.14E-01
357	489488.17	3859821.48	0.0353	0.01254	0.02062	0.06581	0.007	0.032	0.0122	0.01254	0.36831206	0.023160448	2.147E-06	3.47E-03	3.39E-03	4.44E-03	8.62E-02	8.53E-02	4.04E-01
358	489538.17	3859821.48	0.03432	0.01314	0.02229	0.05871	0.007	0.031	0.0128	0.01314	0.35808696	0.024268603	2.321E-06	3.09E-03	3.38E-03	4.38E-03	9.03E-02	8.94E-02	3.94E-01
359	489588.17	3859821.48	0.03336	0.01379	0.02257	0.05385	0.007	0.031	0.0134	0.01379	0.34807054	0.025469105	2.35E-06	2.84E-03	3.34E-03	4.34E-03	9.49E-02	9.38E-02	3.85E-01
360	489238.17	3859871.48	0.04098	0.0096	0.01175	0.37396	0.006	0.034	0.0092	0.0096	0.42757586	0.017730486	1.223E-06	1.97E-02	2.89E-03	4.80E-03	6.53E-02	6.53E-02	4.73E-01
361	489288.17	3859871.48	0.04002	0.00992	0.0126	0.18421	0.006	0.033	0.0096	0.00992	0.41755945	0.018321503	1.312E-06	9.70E-03	3.02E-03	4.68E-03	6.77E-02	6.75E-02	4.54E-01
362	489338.17	3859871.48	0.03892	0.01028	0.01364	0.12115	0.007	0.033	0.0099	0.01028	0.4060823	0.018986396	1.42E-06	6.38E-03	3.12E-03	4.57E-03	7.04E-02	6.99E-02	4.40E-01
363	489388.17	3859871.48	0.03778	0.01067	0.01505	0.09161	0.007	0.032	0.0103	0.01067	0.3941878	0.019706697	1.567E-06	4.83E-03	3.21E-03	4.48E-03	7.32E-02	7.26E-02	4.27E-01
364	489438.17	3859871.48	0.03667	0.0111	0.01689	0.07459	0.007	0.031	0.0108	0.0111	0.38260632	0.020500875	1.758E-06	3.93E-03	3.27E-03	4.39E-03	7.62E-02	7.55E-02	4.15E-01
365	489488.17	3859871.48	0.03561	0.01154	0.01872	0.06366	0.007	0.031	0.0112	0.01154	0.37154652	0.021313522	1.949E-06	3.35E-03	3.32E-03	4.31E-03	7.94E-02	7.85E-02	4.05E-01
366	489538.17	3859871.48	0.03449	0.01202	0.01919	0.05708	0.007	0.03	0.0117	0.01202	0.3598607	0.022200047	1.998E-06	3.01E-03	3.32E-03	4.26E-03	8.28E-02	8.17E-02	3.94E-01
367	489588.17	3859871.48	0.03346	0.01253	0.01888	0.05215	0.007	0.03	0.0122	0.01253	0.34911392	0.023141979	1.966E-06	2.75E-03	3.30E-03	4.21E-03	8.64E-02	8.52E-02	3.84E-01
368	489238.17	3859921.48	0.04682	0.00906	0.01091	0.36804	0.006	0.034	0.0087	0.00906	0.48850908	0.016733147	1.136E-06	1.94E-02	2.75E-03	4.71E-03	6.17E-02	6.16E-02	5.32E-01
369	489288.17	3859921.48	0.04445	0.00935	0.01171	0.18025	0.006	0.033	0.009	0.00935	0.46378104	0.017268755	1.219E-06	9.49E-03	2.89E-03	4.58E-03	6.39E-02	6.36E-02	4.98E-01
370	489338.17	3859921.48	0.04211	0.00966	0.01274	0.11882	0.006	0.032	0.0093	0.00966	0.43936602	0.017841302	1.326E-06	6.26E-03	3.00E-03	4.48E-03	6.62E-02	6.57E-02	4.71E-01
371	489388.17	3859921.48	0.04006	0.00999	0.01416	0.08945	0.007	0.031	0.0097	0.00999	0.4179768	0.018450787	1.474E-06	4.71E-03	3.10E-03	4.37E-03	6.86E-02	6.79E-02	4.49E-01
372	489438.17	3859921.48	0.03831	0.01032	0.01582	0.07217	0.007	0.03	0.01	0.01032	0.3997177	0.019060273	1.647E-06	3.80E-03	3.19E-03	4.27E-03	7.10E-02	7.02E-02	4.31E-01
373	489488.17	3859921.48	0.03671	0.01067	0.01663	0.06189	0.007	0.03	0.0104	0.01067	0.38302367	0.019706697	1.731E-06	3.26E-03	3.24E-03	4.19E-03	7.35E-02	7.26E-02	4.14E-01
374	489538.17	3859921.48	0.03527	0.01106	0.01646	0.05528	0.007	0.029	0.0108	0.01106	0.36799904	0.020426998	1.714E-06	2.91E-03	3.25E-03	4.14E-03	7.62E-02	7.52E-02	4.00E-01
375	489588.17	3859921.48	0.03401	0.01143	0.01543	0.05013	0.007	0.029	0.0111	0.01143	0.35485249	0.02111036	1.606E-06	2.64E-03	3.25E-03	4.07E-03	7.89E-02	7.77E-02	3.87E-01
376	489238.17	3859971.48	0.06046	0.00859	0.01019	0.36122	0.006	0.033	0.0083	0.00859	0.63082569	0.015865092	1.061E-06	1.90E-02	2.61E-03	4.63E-03	5.86E-02	5.84E-02	6.73E-01
377	489288.17	3859971.48	0.05202	0.00884	0.01098	0.17862	0.006	0.032	0.0085	0.00884	0.54276468	0.016326823	1.143E-06	9.41E-03	2.75E-03	4.50E-03	6.04E-02	6.01E-02	5.76E-01
378	489338.17	3859971.48	0.04679	0.00911	0.01208	0.11671	0.006	0.031	0.0088	0.00911	0.48819606	0.016825493	1.258E-06	6.15E-03	2.88E-03	4.38E-03	6.24E-02	6.19E-02	5.19E-01
379	489388.17	3859971.48	0.04318	0.00938	0.01346	0.08706	0.006	0.03	0.0091	0.00938	0.45053016	0.017324163	1.401E-06	4.59E-03	3.00E-03	4.26E-03	6.44E-02	6.38E-02	4.80E-01
380	489438.17	3859971.48	0.04048	0.0096	0.01422	0.06909	0.007	0.029	0.0093	0.0096	0.42235898	0.017730486	1.48E-06	3.64E-03	3.10E-03	4.14E-03	6.61E-02	6.53E-02	4.52E-01
381	489488.17	3859971.48	0.03838	0.00973	0.01379	0.05735	0.007	0.028	0.0095	0.00973	0.40044806	0.017970587	1.436E-06	3.02E-03	3.18E-03	3.99E-03	6.74E-02	6.62E-02	4.30E-01
382	489538.17	3859971.48	0.03657	0.00987	0.01312	0.05035	0.007	0.028	0.0097	0.00987	0.38156294	0.018229156	1.366E-06	2.65E-03	3.23E-03	3.89E-03	6.85E-02	6.71E-02	4.11E-01
383	489588.17	3859971.48	0.03499	0.01004	0.01228	0.04553	0.007	0.027	0.0099	0.01004	0.36507759	0.018543134	1.278E-06	2.40E-03	3.24E-03	3.81E-03	6.98E-02	6.83E-02	3.95E-01
384	483577.7	3854071	0.05597	0.02086	0.00601	0.12939	0.004	0.084	0.0491	0.02086	0.58397807	0.03852687	6.257E-07	6.82E-03	1.65E-03	1.19E-02	3.48E-01	1.42E-01	8.49E-01
385	483627.7	3854071	0.04859	0.01964	0.0059	0.10731	0.004	0.073	0.0447	0.01964	0.50697685	0.03627362	6.142E-07	5.65E-03	1.65E-03	1.03E-02	3.17E-01	1.34E-01	7.44E-01
386	483677.7	3854071	0.04364	0.01853	0.00591	0.0913	0.004	0.064	0.041	0.01853	0.45532969	0.034223533	6.153E-07	4.81E-03	1.66E-03	9.03E-03	2.91E-01	1.26E-01	6.70E-01
387	483727.7	3854071	0.04001	0.01754	0.00603	0.07922	0.004	0.057	0.0379	0.01754	0.41745511	0.032395076	6.278E-07	4.17E-03	1.66E-03	8.04E-03	2.69E-01	1.19E-01	6.13E-01
388	483777.7	3854071	0.03728	0.01649	0.00616	0.06926	0.004	0.051	0.035	0.01649	0.38897092	0.030455804	6.413E-07	3.65E-03	1.66E-03	7.19E-03	2.48E-01	1.12E-01	5.68E-01
389	483577.7	3854121	0.05797	0.02104	0.0066	0.17547	0.004	0.105	0.0592	0.02104	0.6048456	0.038859316	6.871E-07	9.24E-03	1.67E-03	1.47E-02	4.20E-01	1.43E-01	9.46E-01
390	483627.7	3854121	0.05065	0.01966	0.0065	0.13912	0.004	0.087	0.0527	0.01966	0.52847041	0.036310559	6.767E-07	7.33E-03	1.68E-03	1.23E-02	3.74E-01	1.34E-01	8.26E-01
391	483677.7	3854121	0.04582	0.01835	0.00653	0.11405	0.004	0.074	0.0473	0.01835	0.47807531	0.033891086	6.798E-07	6.01E-03	1.68E-03	1.05E-02	3.35E-01	1.25E-01	7.41E-01
392	483727.7	3854121	0.04233	0.01717	0.00664	0.09588	0.004	0.064	0.0428	0.01717	0.44166145	0.031711714	6.913E-07	5.05E-03	1.69E-03	9.06E-03	3.03E-01	1.17E-01	6.76E-01
393	483777.7	3854121	0.03951	0.01627	0.00679	0.08308	0.004	0.057	0.0393	0.01627	0.41223822	0.030049481	7.069E-07	4.38E-03	1.68E-03	8.05E-03	2.78E-01	1.11E-01	6.24E-01
394	483577.7	3854171	0.06067	0.02094	0.00727	0.25566	0.004	0.138	0.073	0.02094	0.63301678	0.038674624	7.569E-07	1.35E-02	1.71E-03	1.94E-02	5.17E-01	1.42E-01	1.08E+00
395	483627.7	3854171	0.0535	0.01934	0.0072	0.1864	0.004	0.107	0.063	0.01934	0.55820666	0.035719543	7.496E-07	9.82E-03	1.71E-03	1.51E-02	4.47E-01	1.32E-01	9.36E-01
396	483677.7	3854171	0.04862	0.01807	0.00729	0.14632	0.004	0.088	0.0556	0.01807	0.50728986	0.033373947	7.589E-07	7.71E-03	1.71E-03	1.24E-02	3.94E-01	1.23E-01	8.34E-01
397	483727.7	3854171	0.04499	0.01703	0.00743	0.1203	0.004	0.075	0.0498	0.01703	0.46941528	0.031453144	7.735E-07	6.34E-03	1.70E-03	1.06E-02	3.53E-01	1.16E-01	7.56E-01
398	483777.7	3854171	0.04216	0.01606	0.00761	0.10132	0.004	0.065	0.0449	0.01606	0.43988771	0.029661626	7.922E-07	5.34E-03	1.70E-03	9.20E-03	3.18E-01	1.09E-01	6.95E-01
399	483827.7	3854171	0.03996	0.01504	0.00795	0.08613	0.004	0.057	0.0405	0.01504	0.41693342	0.027777762	8.276E-07	4.54E-03	1.71E-03	8.03E-03	2.87E-01	1.02E-01	6.43E-01
400	483877.7	3854171	0.03793	0.01432	0.00859	0.07573	0.004	0.051	0.0373	0.01432	0.39575287	0.026447976	8.943E-07	3.99E-03	1.72E-03	7.21E-03	2.64E-01	9.74E-02	6.02E-01
401	483727.7	3854221	0.04889	0.01698	0.00843	0.15905	0.004	0.092	0.0597	0.01698	0.51010698	0.031360798	8.776E-07	8.38E-03	1.73E-03	1.30E-02	4.23E-01	1.15E-01	8.72E-01
402	483777.7	3854221	0.04575	0.01596	0.00876	0.12855	0.004	0.078	0.0528	0.01596	0.47734494	0.029476934	9.12E-07	6.77E-03	1.73E-03	1.09E-02	3.74E-01	1.09E-01	7.92E-01

403	483827.7	3854221	0.04295	0.01531	0.00949	0.10932	0.004	0.068	0.0481	0.01531	0.44813039	0.028276432	9.88E-07	5.76E-03	1.74E-03	9.56E-03	3.41E-01	1.04E-01	7.30E-01
404	483877.7	3854221	0.04084	0.01445	0.01024	0.0931	0.004	0.059	0.0433	0.01445	0.42611514	0.026688076	1.066E-06	4.90E-03	1.74E-03	8.36E-03	3.07E-01	9.83E-02	6.76E-01
405	489150.19	3858726.45	0.05291	0.04476	0.01664	0.39075	0.015	0.146	0.0482	0.04476	0.55205073	0.082668393	1.732E-06	2.06E-02	6.83E-03	2.06E-02	3.42E-01	3.04E-01	7.20E-01
406	489200.19	3858726.45	0.05047	0.04191	0.01675	0.64617	0.014	0.121	0.0443	0.04191	0.52659233	0.077404655	1.744E-06	3.40E-02	6.72E-03	1.70E-02	3.14E-01	2.85E-01	6.90E-01
407	489150.19	3858776.45	0.05392	0.05129	0.01682	0.5204	0.014	0.197	0.0559	0.05129	0.56258884	0.094728818	1.751E-06	2.74E-02	6.52E-03	2.77E-02	3.96E-01	3.49E-01	7.67E-01
408	489200.19	3858776.45	0.05146	0.04745	0.01689	0.74941	0.014	0.149	0.0505	0.04745	0.53692177	0.087636623	1.758E-06	3.95E-02	6.41E-03	2.10E-02	3.58E-01	3.23E-01	7.27E-01
409	488919.6	3856400.76	0.02392	0.00779	0.01012	0.01924	0.087	0.016	0.0102	0.00779	0.24957576	0.014387551	1.054E-06	1.01E-03	4.06E-02	2.27E-03	7.19E-02	5.30E-02	3.27E-01
410	488919.6	3856450.76	0.02415	0.00792	0.00995	0.01964	0.099	0.017	0.0103	0.00792	0.25197553	0.014627651	1.036E-06	1.03E-03	4.66E-02	2.32E-03	7.30E-02	5.39E-02	3.36E-01
411	488969.6	3856450.76	0.02388	0.00785	0.00982	0.01937	0.099	0.016	0.0102	0.00785	0.24915841	0.014498367	1.022E-06	1.02E-03	4.63E-02	2.29E-03	7.19E-02	5.34E-02	3.32E-01
412	488919.6	3856500.76	0.02438	0.00807	0.00978	0.02006	0.114	0.017	0.0105	0.00807	0.25437529	0.01490469	1.018E-06	1.06E-03	5.34E-02	2.37E-03	7.40E-02	5.49E-02	3.45E-01
413	488969.6	3856500.76	0.02409	0.008	0.00966	0.01978	0.113	0.017	0.0103	0.008	0.2513495	0.014775405	1.006E-06	1.04E-03	5.29E-02	2.35E-03	7.30E-02	5.44E-02	3.41E-01
414	488919.6	3856550.76	0.0246	0.00822	0.00965	0.0205	0.13	0.017	0.0106	0.00822	0.25667072	0.015181729	1.005E-06	1.08E-03	6.11E-02	2.43E-03	7.51E-02	5.59E-02	3.56E-01
415	488969.6	3856550.76	0.02432	0.00815	0.00954	0.0202	0.128	0.017	0.0105	0.00815	0.25374927	0.015052444	9.932E-07	1.06E-03	6.02E-02	2.40E-03	7.40E-02	5.54E-02	3.51E-01
416	488819.6	3856600.76	0.02547	0.00851	0.00974	0.02164	0.154	0.018	0.0111	0.00851	0.2657481	0.015717337	1.014E-06	1.14E-03	7.22E-02	2.54E-03	7.86E-02	5.79E-02	3.78E-01
417	488869.6	3856600.76	0.02516	0.00844	0.00964	0.02128	0.151	0.018	0.0109	0.00844	0.26251363	0.015588053	1.004E-06	1.12E-03	7.09E-02	2.51E-03	7.74E-02	5.74E-02	3.73E-01
418	488919.6	3856600.76	0.02484	0.00837	0.00955	0.02095	0.148	0.018	0.0108	0.00837	0.25917483	0.015458768	9.942E-07	1.10E-03	6.95E-02	2.49E-03	7.62E-02	5.69E-02	3.67E-01
419	488819.6	3856650.76	0.02573	0.00868	0.00966	0.02213	0.176	0.019	0.0113	0.00868	0.26846088	0.016031315	1.006E-06	1.17E-03	8.25E-02	2.61E-03	7.99E-02	5.90E-02	3.92E-01
420	488869.6	3856650.76	0.02541	0.0086	0.00958	0.02176	0.172	0.018	0.0111	0.0086	0.26512208	0.015883561	9.973E-07	1.15E-03	8.05E-02	2.57E-03	7.86E-02	5.85E-02	3.85E-01
421	488819.6	3856700.76	0.02599	0.00885	0.00964	0.02265	0.199	0.019	0.0115	0.00885	0.27117366	0.016345292	1.004E-06	1.19E-03	9.35E-02	2.67E-03	8.11E-02	6.02E-02	4.06E-01
422	488869.6	3856700.76	0.02566	0.00876	0.0096	0.02226	0.194	0.019	0.0113	0.00876	0.26773052	0.016179069	9.994E-07	1.17E-03	9.07E-02	2.64E-03	7.99E-02	5.96E-02	3.99E-01
423	488819.6	3856750.76	0.02628	0.00902	0.00968	0.02319	0.224	0.02	0.0117	0.00902	0.27419946	0.01665927	1.008E-06	1.22E-03	1.05E-01	2.75E-03	8.25E-02	6.13E-02	4.21E-01
424	488869.6	3856750.76	0.02593	0.00894	0.00969	0.02279	0.216	0.019	0.0115	0.00894	0.27054764	0.016511516	1.009E-06	1.20E-03	1.01E-01	2.72E-03	8.11E-02	6.08E-02	4.12E-01
425	488819.6	3857050.76	0.02829	0.01024	0.01126	0.0273	0.358	0.024	0.013	0.01024	0.29517133	0.018912519	1.172E-06	1.44E-03	1.68E-01	3.36E-03	9.23E-02	6.96E-02	5.10E-01
426	488869.6	3857050.76	0.02785	0.01014	0.01141	0.02675	0.337	0.024	0.0128	0.01014	0.29058047	0.018727826	1.188E-06	1.41E-03	1.58E-01	3.31E-03	9.06E-02	6.90E-02	4.94E-01
427	488919.6	3857050.76	0.02745	0.01003	0.01155	0.02622	0.318	0.023	0.0125	0.01003	0.28640697	0.018524664	1.202E-06	1.38E-03	1.49E-01	3.25E-03	8.88E-02	6.82E-02	4.79E-01
428	488819.6	3857100.76	0.02871	0.01048	0.01177	0.02817	0.374	0.025	0.0133	0.01048	0.29955352	0.019355781	1.225E-06	1.48E-03	1.75E-01	3.48E-03	9.44E-02	7.13E-02	5.22E-01
429	488869.6	3857100.76	0.02827	0.01037	0.01189	0.02758	0.351	0.024	0.0131	0.01037	0.29496266	0.019152619	1.238E-06	1.45E-03	1.65E-01	3.42E-03	9.25E-02	7.05E-02	5.06E-01
430	488919.6	3857100.76	0.02783	0.01027	0.01201	0.02703	0.33	0.024	0.0128	0.01027	0.2903718	0.018967927	1.25E-06	1.42E-03	1.55E-01	3.36E-03	9.06E-02	6.98E-02	4.90E-01
431	488819.6	3857150.76	0.02916	0.01073	0.01233	0.02911	0.386	0.026	0.0136	0.01073	0.30424871	0.019817512	1.284E-06	1.53E-03	1.81E-01	3.60E-03	9.65E-02	7.30E-02	5.34E-01
432	488869.6	3857150.76	0.02869	0.01062	0.01242	0.02849	0.361	0.025	0.0133	0.01062	0.29934484	0.019614351	1.293E-06	1.50E-03	1.69E-01	3.54E-03	9.45E-02	7.22E-02	5.16E-01
433	488919.6	3857150.76	0.02825	0.01051	0.0125	0.02791	0.339	0.025	0.0131	0.01051	0.29475398	0.019411189	1.301E-06	1.47E-03	1.59E-01	3.47E-03	9.26E-02	7.15E-02	4.99E-01
434	488969.6	3857150.76	0.02783	0.0104	0.01258	0.02734	0.319	0.024	0.0128	0.0104	0.2903718	0.019208027	1.31E-06	1.44E-03	1.49E-01	3.42E-03	9.08E-02	7.07E-02	4.84E-01
435	488819.6	3857200.76	0.02964	0.01101	0.01296	0.03012	0.392	0.027	0.014	0.01101	0.30925692	0.020334652	1.349E-06	1.59E-03	1.84E-01	3.74E-03	9.88E-02	7.49E-02	5.43E-01
436	488869.6	3857200.76	0.02915	0.01089	0.01302	0.02946	0.366	0.026	0.0136	0.01089	0.30414437	0.020113021	1.355E-06	1.55E-03	1.72E-01	3.67E-03	9.66E-02	7.41E-02	5.24E-01
437	488919.6	3857200.76	0.02869	0.01078	0.0131	0.02884	0.343	0.026	0.0134	0.01078	0.29934484	0.019909859	1.364E-06	1.52E-03	1.61E-01	3.60E-03	9.47E-02	7.33E-02	5.06E-01
438	488969.6	3857200.76	0.02826	0.01065	0.01319	0.02824	0.322	0.025	0.0131	0.01065	0.29485832	0.019669758	1.373E-06	1.49E-03	1.51E-01	3.55E-03	9.27E-02	7.24E-02	4.91E-01
439	488819.6	3857250.76	0.03017	0.01129	0.0137	0.03121	0.393	0.028	0.0143	0.01129	0.31478682	0.020851791	1.426E-06	1.64E-03	1.84E-01	3.88E-03	1.01E-01	7.68E-02	5.50E-01
440	488869.6	3857250.76	0.02966	0.01117	0.01376	0.0305	0.366	0.027	0.014	0.01117	0.3094656	0.02063016	1.433E-06	1.61E-03	1.72E-01	3.81E-03	9.90E-02	7.60E-02	5.30E-01
441	488919.6	3857250.76	0.02918	0.01105	0.01387	0.02984	0.342	0.027	0.0137	0.01105	0.30445739	0.020408529	1.444E-06	1.57E-03	1.60E-01	3.75E-03	9.69E-02	7.51E-02	5.12E-01
442	488969.6	3857250.76	0.02872	0.01093	0.01402	0.0292	0.321	0.026	0.0134	0.01093	0.29965785	0.020186898	1.46E-06	1.54E-03	1.50E-01	3.69E-03	9.48E-02	7.43E-02	4.96E-01
443	488819.6	3857300.76	0.03073	0.0116	0.01469	0.03238	0.388	0.029	0.0147	0.0116	0.32062973	0.021424338	1.529E-06	1.71E-03	1.82E-01	4.05E-03	1.04E-01	7.89E-02	5.55E-01
444	488869.6	3857300.76	0.0302	0.01147	0.0148	0.03162	0.361	0.028	0.0143	0.01147	0.31509983	0.021184237	1.541E-06	1.67E-03	1.69E-01	3.98E-03	1.01E-01	7.80E-02	5.35E-01
445	488919.6	3857300.76	0.02969	0.01134	0.01498	0.03091	0.337	0.028	0.014	0.01134	0.30977861	0.020944137	1.56E-06	1.63E-03	1.58E-01	3.91E-03	9.92E-02	7.71E-02	5.16E-01
446	488819.6	3857450.76	0.03273	0.01263	0.02013	0.03654	0.338	0.033	0.0159	0.01263	0.34149727	0.023326671	2.096E-06	1.92E-03	1.58E-01	4.70E-03	1.13E-01	8.59E-02	5.57E-01
447	488869.6	3857450.76	0.03211	0.01247	0.02023	0.03558	0.314	0.033	0.0155	0.01247	0.33502833	0.023031163	2.106E-06	1.87E-03	1.47E-01	4.61E-03	1.10E-01	8.48E-02	5.37E-01
448	488919.6	3857450.76	0.03151	0.01232	0.02035	0.03469	0.293	0.032	0.0151	0.01232	0.32876807	0.022754124	2.119E-06	1.83E-03	1.37E-01	4.52E-03	1.07E-01	8.38E-02	5.19E-01
449	488819.6	3857500.76	0.03352	0.01301	0.02262	0.03819	0.311	0.035	0.0164	0.01301	0.34973995	0.024028503	2.355E-06	2.01E-03	1.46E-01	4.97E-03	1.16E-01	8.85E-02	5.54E-01
450	488869.6	3857500.76	0.03286	0.01285	0.02259	0.03713	0.29	0.035	0.0159	0.01285	0.34285366	0.023732995	2.352E-06	1.96E-03	1.36E-01	4.86E-03	1.13E-01	8.74E-02	5.35E-01
451	488919.6	3857500.76	0.03223	0.01269	0.02255	0.03616	0.271	0.034	0.0155	0.01269	0.33628038	0.023437487	2.348E-06	1.90E-03	1.27E-01	4.77E-03	1.10E-01	8.63E-02	5.17E-01
452	488819.6	3857550.76	0.03438	0.01344	0.02528	0.03999	0.281	0.037	0.0169	0.01344	0.35871299	0.024822681	2.632E-06	2.11E-03	1.32E-01	5.27E-03	1.20E-01	9.14E-02	5.51E-01
453	488869.6	3857550.76	0.03369	0.01325	0.02506	0.03883	0.262	0.037	0.0164	0.01325	0.35151369	0.024471765	2.609E-06	2.05E-03	1.23E-01	5.15E-03	1.16E-01	9.01E-02	5.32E-01
454	488919.6	3857550.76	0.03302	0.01308	0.02487	0.03777	0.245	0.036	0.016	0.01308	0.34452306	0.024157788	2.589E-06	1.99E-03	1.15E-01	5.04E-03	1.13E-01	8.89E-02	5.15E-01
455	489663.71	3860900.05	0.00963	0.00494	0.00335	0.03664	0.003	0.013	0.0049	0.00494	0.1004772	0.009123813	3.488E-07	1.93E-03	1.52E-03	1.84E-03	3.44E-02	3.36E-02	1.16E-01
456	489813.71	3860900.05	0.00936	0.00518	0.00317	0.02923	0.004	0.013	0.0051	0.00518	0.09766008	0.009567075	3.3E-07	1.54E-03	1.74E-03	1.77E-03	3.61E-02	3.52E-02	1.13E-01
457	489863.71	3860900.05	0.00926	0.00526	0.00305	0.02749	0.004	0.012	0.0052	0.00526	0.0966167	0.009714829	3.175E-07	1.45E-03	1.80E-03	1.75E-03	3.66E-02	3.58E-02	1.12E-01
458	489913.71	3860900.05	0.00917	0.00535	0.00295	0.02605	0.004	0.012	0.0053	0.00535	0.09567766	0.009881052	3.071E-07	1.37E-03	1.85E-03	1.73E-03	3.73E-02	3.64E-02	1.11E-01
459	489963.71	3860900.05	0.00907	0.00544	0.00285	0.02475	0.004	0.012	0.0054	0.00544	0.09463429	0.010047276	2.967E-07	1.30E-03	1.89E-03	1.71E-03	3.79E-02	3.70E-02	1.11E-01
460	490013.71	3860900.05	0.00897	0.00554	0.00279	0.02365	0.004	0.012	0.0055	0.00554	0.09359091	0.010231968	2.905E-07	1.25E-03	1.92E-03	1.70E-03	3.86E-02	3.77E-02	1.10E-01

461	490063.71	3860900.05	0.00888	0.00564	0.00275	0.02267	0.004	0.012	0.0055	0.00564	0.09265187	0.010416661	2.863E-07	1.19E-03	1.94E-03	1.69E-03	3.93E-02	3.84E-02	1.09E-01
462	489663.71	3860950.05	0.00864	0.00481	0.00322	0.03647	0.003	0.012	0.0047	0.00481	0.09014777	0.008883712	3.352E-07	1.92E-03	1.44E-03	1.72E-03	3.34E-02	3.27E-02	1.05E-01
463	489813.71	3860950.05	0.00847	0.00503	0.00305	0.02903	0.004	0.012	0.0049	0.00503	0.08837403	0.009290036	3.175E-07	1.53E-03	1.67E-03	1.67E-03	3.50E-02	3.42E-02	1.03E-01
464	489863.71	3860950.05	0.0084	0.0051	0.00294	0.02727	0.004	0.012	0.005	0.0051	0.08764366	0.009419321	3.061E-07	1.44E-03	1.74E-03	1.65E-03	3.56E-02	3.47E-02	1.03E-01
465	489913.71	3860950.05	0.00834	0.00519	0.00283	0.02581	0.004	0.012	0.0051	0.00519	0.08701764	0.009585544	2.946E-07	1.36E-03	1.79E-03	1.63E-03	3.61E-02	3.53E-02	1.02E-01
466	489963.71	3860950.05	0.00827	0.00527	0.00274	0.02452	0.004	0.012	0.0052	0.00527	0.08628727	0.009733298	2.853E-07	1.29E-03	1.83E-03	1.62E-03	3.67E-02	3.58E-02	1.02E-01
467	490013.71	3860950.05	0.0082	0.00536	0.00268	0.0234	0.004	0.011	0.0053	0.00536	0.08555691	0.009899522	2.79E-07	1.23E-03	1.86E-03	1.61E-03	3.73E-02	3.64E-02	1.01E-01
468	490063.71	3860950.05	0.00813	0.00546	0.00264	0.02243	0.004	0.011	0.0054	0.00546	0.08482654	0.010084214	2.748E-07	1.18E-03	1.89E-03	1.60E-03	3.80E-02	3.71E-02	1.00E-01
469	489513.71	3861000.05	0.00786	0.00451	0.00295	0.05114	0.002	0.012	0.0044	0.00451	0.08200943	0.008329635	3.071E-07	2.69E-03	1.12E-03	1.65E-03	3.13E-02	3.07E-02	9.64E-02
470	489563.71	3861000.05	0.00785	0.00456	0.00302	0.0448	0.003	0.012	0.0045	0.00456	0.08190509	0.008421981	3.144E-07	2.36E-03	1.21E-03	1.63E-03	3.17E-02	3.10E-02	9.63E-02
471	489613.71	3861000.05	0.00784	0.00462	0.00308	0.04006	0.003	0.012	0.0045	0.00462	0.08180075	0.008532797	3.206E-07	2.11E-03	1.29E-03	1.62E-03	3.22E-02	3.14E-02	9.61E-02
472	489663.71	3861000.05	0.00781	0.00469	0.00311	0.03633	0.003	0.011	0.0046	0.00469	0.08148774	0.008662081	3.238E-07	1.91E-03	1.37E-03	1.60E-03	3.26E-02	3.19E-02	9.57E-02
473	489713.71	3861000.05	0.00778	0.00475	0.00308	0.03331	0.003	0.011	0.0047	0.00475	0.08117472	0.008772897	3.206E-07	1.75E-03	1.46E-03	1.59E-03	3.31E-02	3.23E-02	9.55E-02
474	489763.71	3861000.05	0.00774	0.00481	0.00302	0.03086	0.003	0.011	0.0047	0.00481	0.08075737	0.008883712	3.144E-07	1.63E-03	1.53E-03	1.58E-03	3.35E-02	3.27E-02	9.52E-02
475	489813.71	3861000.05	0.00771	0.00489	0.00294	0.02885	0.003	0.011	0.0048	0.00489	0.08044436	0.009031467	3.061E-07	1.52E-03	1.61E-03	1.57E-03	3.41E-02	3.33E-02	9.50E-02
476	489863.71	3861000.05	0.00766	0.00496	0.00283	0.02709	0.004	0.011	0.0049	0.00496	0.07992267	0.009160751	2.946E-07	1.43E-03	1.67E-03	1.55E-03	3.46E-02	3.37E-02	9.46E-02
477	489913.71	3861000.05	0.00762	0.00504	0.00273	0.02561	0.004	0.011	0.005	0.00504	0.07950532	0.009308505	2.842E-07	1.35E-03	1.73E-03	1.54E-03	3.51E-02	3.43E-02	9.43E-02
478	489963.71	3861000.05	0.00757	0.00511	0.00264	0.02431	0.004	0.011	0.005	0.00511	0.07898363	0.00943779	2.748E-07	1.28E-03	1.77E-03	1.53E-03	3.56E-02	3.47E-02	9.39E-02
479	490013.71	3861000.05	0.00752	0.0052	0.00258	0.02319	0.004	0.011	0.0051	0.0052	0.07846194	0.009604013	2.686E-07	1.22E-03	1.81E-03	1.52E-03	3.63E-02	3.54E-02	9.35E-02
480	490063.71	3861000.05	0.00747	0.00529	0.00254	0.02221	0.004	0.011	0.0052	0.00529	0.07794026	0.009770237	2.644E-07	1.17E-03	1.83E-03	1.51E-03	3.68E-02	3.60E-02	9.31E-02
481	489513.71	3861050.05	0.00713	0.00441	0.00285	0.05106	0.002	0.011	0.0043	0.00441	0.07439277	0.008144942	2.967E-07	2.69E-03	1.06E-03	1.52E-03	3.06E-02	3.00E-02	8.84E-02
482	489563.71	3861050.05	0.00713	0.00446	0.00292	0.0447	0.002	0.011	0.0044	0.00446	0.07439277	0.008237288	3.04E-07	2.35E-03	1.14E-03	1.51E-03	3.10E-02	3.03E-02	8.83E-02
483	489613.71	3861050.05	0.00713	0.00452	0.00298	0.03994	0.003	0.011	0.0044	0.00452	0.07439277	0.008348104	3.102E-07	2.10E-03	1.22E-03	1.51E-03	3.14E-02	3.07E-02	8.82E-02
484	489663.71	3861050.05	0.00711	0.00457	0.003	0.03618	0.003	0.011	0.0045	0.00457	0.0741841	0.00844045	3.123E-07	1.91E-03	1.31E-03	1.50E-03	3.18E-02	3.11E-02	8.81E-02
485	489713.71	3861050.05	0.00709	0.00463	0.00297	0.03316	0.003	0.011	0.0046	0.00463	0.07397542	0.008551266	3.092E-07	1.75E-03	1.39E-03	1.49E-03	3.22E-02	3.15E-02	8.79E-02
486	489763.71	3861050.05	0.00707	0.00469	0.00291	0.0307	0.003	0.011	0.0046	0.00469	0.07376675	0.008662081	3.029E-07	1.62E-03	1.47E-03	1.48E-03	3.27E-02	3.19E-02	8.78E-02
487	489813.71	3861050.05	0.00705	0.00476	0.00283	0.02866	0.003	0.01	0.0047	0.00476	0.07355807	0.008791366	2.946E-07	1.51E-03	1.54E-03	1.47E-03	3.32E-02	3.24E-02	8.77E-02
488	489863.71	3861050.05	0.00702	0.00482	0.00273	0.02691	0.003	0.01	0.0048	0.00482	0.07324506	0.008902182	2.842E-07	1.42E-03	1.60E-03	1.46E-03	3.37E-02	3.28E-02	8.75E-02
489	489913.71	3861050.05	0.00699	0.0049	0.00263	0.02541	0.004	0.01	0.0048	0.0049	0.07293205	0.009049936	2.738E-07	1.34E-03	1.66E-03	1.45E-03	3.42E-02	3.33E-02	8.73E-02
490	489963.71	3861050.05	0.00695	0.00497	0.00255	0.02412	0.004	0.01	0.0049	0.00497	0.0725147	0.009179221	2.655E-07	1.27E-03	1.71E-03	1.44E-03	3.46E-02	3.38E-02	8.70E-02
491	490013.71	3861050.05	0.00692	0.00505	0.00249	0.02301	0.004	0.01	0.005	0.00505	0.07220168	0.009326975	2.592E-07	1.21E-03	1.75E-03	1.44E-03	3.52E-02	3.43E-02	8.68E-02
492	490063.71	3861050.05	0.00689	0.00513	0.00245	0.02202	0.004	0.01	0.0051	0.00513	0.07188867	0.009474729	2.551E-07	1.16E-03	1.79E-03	1.43E-03	3.58E-02	3.49E-02	8.66E-02
493	489513.71	3861100.05	0.00652	0.00431	0.00277	0.05081	0.002	0.01	0.0042	0.00431	0.06802818	0.00796025	2.884E-07	2.68E-03	1.00E-03	1.42E-03	2.99E-02	2.93E-02	8.17E-02
494	489563.71	3861100.05	0.00653	0.00435	0.00283	0.04455	0.002	0.01	0.0043	0.00435	0.06813251	0.008034127	2.946E-07	2.35E-03	1.08E-03	1.41E-03	3.03E-02	2.96E-02	8.17E-02
495	489613.71	3861100.05	0.00652	0.0044	0.00287	0.03971	0.002	0.01	0.0043	0.0044	0.06802818	0.008126473	2.988E-07	2.09E-03	1.15E-03	1.40E-03	3.06E-02	2.99E-02	8.15E-02
496	489663.71	3861100.05	0.00652	0.00445	0.00289	0.03598	0.003	0.01	0.0044	0.00445	0.06802818	0.008218819	3.009E-07	1.90E-03	1.24E-03	1.39E-03	3.10E-02	3.03E-02	8.15E-02
497	489713.71	3861100.05	0.00651	0.00451	0.00286	0.03299	0.003	0.01	0.0044	0.00451	0.06792384	0.008329635	2.977E-07	1.74E-03	1.32E-03	1.39E-03	3.15E-02	3.07E-02	8.15E-02
498	489763.71	3861100.05	0.0065	0.00457	0.00281	0.03052	0.003	0.01	0.0045	0.00457	0.0678195	0.00844045	2.925E-07	1.61E-03	1.40E-03	1.38E-03	3.19E-02	3.11E-02	8.15E-02
499	489813.71	3861100.05	0.00649	0.00463	0.00273	0.02848	0.003	0.01	0.0046	0.00463	0.06771516	0.008551266	2.842E-07	1.50E-03	1.47E-03	1.38E-03	3.23E-02	3.15E-02	8.14E-02
500	489863.71	3861100.05	0.00647	0.0047	0.00264	0.02675	0.003	0.01	0.0046	0.0047	0.06750649	0.008680551	2.748E-07	1.41E-03	1.54E-03	1.37E-03	3.28E-02	3.20E-02	8.14E-02
501	489913.71	3861100.05	0.00645	0.00476	0.00255	0.02524	0.003	0.01	0.0047	0.00476	0.06729781	0.008791366	2.655E-07	1.33E-03	1.60E-03	1.37E-03	3.33E-02	3.24E-02	8.13E-02
502	489963.71	3861100.05	0.00642	0.00483	0.00247	0.02395	0.004	0.01	0.0048	0.00483	0.0669848	0.008920651	2.571E-07	1.26E-03	1.66E-03	1.36E-03	3.38E-02	3.28E-02	8.11E-02
503	490013.71	3861100.05	0.00639	0.00491	0.0024	0.02281	0.004	0.01	0.0048	0.00491	0.06667179	0.009068405	2.499E-07	1.20E-03	1.70E-03	1.35E-03	3.43E-02	3.34E-02	8.09E-02
504	490063.71	3861100.05	0.00637	0.00498	0.00236	0.02182	0.004	0.01	0.0049	0.00498	0.06646311	0.00919769	2.457E-07	1.15E-03	1.73E-03	1.35E-03	3.48E-02	3.39E-02	8.08E-02
505	489713.71	3861150.05	0.00602	0.0044	0.00276	0.03283	0.003	0.009	0.0043	0.0044	0.06281129	0.008126473	2.873E-07	1.73E-03	1.25E-03	1.30E-03	3.07E-02	2.99E-02	7.60E-02
506	489763.71	3861150.05	0.00601	0.00446	0.00271	0.03037	0.003	0.009	0.0044	0.00446	0.06270695	0.008237288	2.821E-07	1.60E-03	1.33E-03	1.30E-03	3.11E-02	3.03E-02	7.59E-02
507	489813.71	3861150.05	0.006	0.00452	0.00264	0.02832	0.003	0.009	0.0045	0.00452	0.06260262	0.008348104	2.748E-07	1.49E-03	1.41E-03	1.29E-03	3.15E-02	3.07E-02	7.59E-02
508	489863.71	3861150.05	0.00599	0.00458	0.00255	0.02658	0.003	0.009	0.0045	0.00458	0.06249828	0.00845892	2.655E-07	1.40E-03	1.48E-03	1.29E-03	3.20E-02	3.11E-02	7.59E-02
509	489913.71	3861150.05	0.00597	0.00464	0.00246	0.02508	0.003	0.009	0.0046	0.00464	0.0622896	0.008569735	2.561E-07	1.32E-03	1.54E-03	1.29E-03	3.25E-02	3.16E-02	7.59E-02
510	489963.71	3861150.05	0.00595	0.0047	0.00239	0.02377	0.003	0.009	0.0046	0.0047	0.06208093	0.008680551	2.488E-07	1.25E-03	1.59E-03	1.28E-03	3.29E-02	3.20E-02	7.58E-02
511	490013.71	3861150.05	0.00593	0.00477	0.00232	0.02263	0.003	0.009	0.0047	0.00477	0.06187225	0.008809835	2.415E-07	1.19E-03	1.64E-03	1.28E-03	3.34E-02	3.24E-02	7.57E-02
512	490063.71	3861150.05	0.00591	0.00484	0.00229	0.02165	0.004	0.009	0.0048	0.00484	0.06166358	0.00893912	2.384E-07	1.14E-03	1.68E-03	1.27E-03	3.39E-02	3.29E-02	7.57E-02
513	489613.71	3861200.05	0.00558	0.0042	0.00269	0.0394	0.002	0.009	0.0041	0.0042	0.05822043	0.007757088	2.8E-07	2.08E-03	1.03E-03	1.22E-03	2.92E-02	2.86E-02	7.09E-02
514	489663.71	3861200.05	0.00559	0.00424	0.0027	0.03567	0.002	0.009	0.0042	0.00424	0.05832477	0.007830965	2.811E-07	1.88E-03	1.11E-03	1.22E-03	2.96E-02	2.88E-02	7.11E-02
515	489713.71	3861200.05	0.00559	0.0043	0.00267	0.03268	0.003	0.009	0.0042	0.0043	0.05832477	0.00794178	2.78E-07	1.72E-03	1.19E-03	1.22E-03	3.00E-02	2.92E-02	7.11E-02
516	489763.71	3861200.05	0.00559	0.00435	0.00262	0.03022	0.003	0.009	0.0043	0.00435	0.05832477	0.008034127	2.728E-07	1.59E-03	1.27E-03	1.22E-03	3.04E-02	2.96E-02	7.12E-02
517	489813.71	3861200.05	0.00558	0.0044	0.00255	0.02817	0.003	0.009	0.0044	0.0044	0.05822043	0.008126473	2.655E-07	1.48E-03	1.34E-03	1.22E-03	3.08E-02	2.99E-02	7.13E-02
518	489863.71	3861200.05	0.00558	0.00446	0.00247	0.02643	0.003	0.009	0.0044	0.00446	0.05822043	0.008237288	2.571E-07	1.39E-03	1.42E-03	1.21E-03	3.12E-02	3.03E-02	7.14E-02

519	489913.71	3861200.05	0.00556	0.00452	0.00239	0.02493	0.003	0.009	0.0045	0.00452	0.05801176	0.008348104	2.488E-07	1.31E-03	1.48E-03	1.21E-03	3.17E-02	3.07E-02	7.13E-02
520	489963.71	3861200.05	0.00555	0.00458	0.00231	0.02362	0.003	0.009	0.0045	0.00458	0.05790742	0.00845892	2.405E-07	1.24E-03	1.53E-03	1.21E-03	3.21E-02	3.11E-02	7.13E-02
521	490013.71	3861200.05	0.00553	0.00465	0.00225	0.02249	0.003	0.009	0.0046	0.00465	0.05769874	0.008588204	2.342E-07	1.18E-03	1.58E-03	1.21E-03	3.25E-02	3.16E-02	7.12E-02
522	490063.71	3861200.05	0.00552	0.00471	0.00221	0.02148	0.003	0.009	0.0047	0.00471	0.05759441	0.00869902	2.301E-07	1.13E-03	1.63E-03	1.20E-03	3.29E-02	3.20E-02	7.12E-02
523	489513.71	3861250.05	0.00517	0.00402	0.00251	0.05032	0.002	0.008	0.0039	0.00402	0.05394259	0.007424641	2.613E-07	2.65E-03	8.39E-04	1.14E-03	2.78E-02	2.73E-02	6.65E-02
524	489563.71	3861250.05	0.00519	0.00406	0.00257	0.04406	0.002	0.008	0.004	0.00406	0.05415126	0.007498518	2.676E-07	2.32E-03	9.05E-04	1.14E-03	2.82E-02	2.76E-02	6.66E-02
525	489613.71	3861250.05	0.00521	0.0041	0.00261	0.03929	0.002	0.008	0.004	0.0041	0.05435994	0.007572395	2.717E-07	2.07E-03	9.80E-04	1.14E-03	2.86E-02	2.79E-02	6.68E-02
526	489663.71	3861250.05	0.00522	0.00415	0.00261	0.03554	0.002	0.008	0.0041	0.00415	0.05446428	0.007664742	2.717E-07	1.87E-03	1.05E-03	1.14E-03	2.89E-02	2.82E-02	6.69E-02
527	489713.71	3861250.05	0.00522	0.0042	0.00259	0.03254	0.002	0.008	0.0041	0.0042	0.05446428	0.007757088	2.696E-07	1.71E-03	1.13E-03	1.14E-03	2.93E-02	2.86E-02	6.69E-02
528	489763.71	3861250.05	0.00522	0.00425	0.00254	0.03008	0.003	0.008	0.0042	0.00425	0.05446428	0.007849434	2.644E-07	1.58E-03	1.21E-03	1.14E-03	2.97E-02	2.89E-02	6.70E-02
529	489813.71	3861250.05	0.00522	0.0043	0.00247	0.02803	0.003	0.008	0.0042	0.0043	0.05446428	0.00794178	2.571E-07	1.48E-03	1.28E-03	1.14E-03	3.00E-02	2.92E-02	6.71E-02
530	489863.71	3861250.05	0.00521	0.00435	0.00239	0.02628	0.003	0.008	0.0043	0.00435	0.05435994	0.008034127	2.488E-07	1.38E-03	1.35E-03	1.14E-03	3.05E-02	2.96E-02	6.72E-02
531	489913.71	3861250.05	0.00521	0.00441	0.00232	0.02479	0.003	0.008	0.0044	0.00441	0.05435994	0.008144942	2.415E-07	1.31E-03	1.42E-03	1.14E-03	3.09E-02	3.00E-02	6.73E-02
532	489963.71	3861250.05	0.0052	0.00447	0.00225	0.02349	0.003	0.008	0.0044	0.00447	0.0542556	0.008255758	2.342E-07	1.24E-03	1.48E-03	1.14E-03	3.13E-02	3.04E-02	6.73E-02
533	490013.71	3861250.05	0.00518	0.00453	0.00219	0.02235	0.003	0.008	0.0045	0.00453	0.05404692	0.008366573	2.28E-07	1.18E-03	1.53E-03	1.14E-03	3.17E-02	3.08E-02	6.72E-02
534	490063.71	3861250.05	0.00517	0.00459	0.00215	0.02133	0.003	0.008	0.0045	0.00459	0.05394259	0.008477389	2.238E-07	1.12E-03	1.58E-03	1.14E-03	3.22E-02	3.12E-02	6.72E-02
535	489528.13	3861308.47	0.0048	0.00393	0.00245	0.04814	0.002	0.008	0.0039	0.00393	0.05008209	0.007258418	2.551E-07	2.54E-03	8.07E-04	1.06E-03	2.73E-02	2.67E-02	6.23E-02
536	489578.13	3861308.47	0.00482	0.00397	0.0025	0.04237	0.002	0.008	0.0039	0.00397	0.05029077	0.007332295	2.603E-07	2.23E-03	8.68E-04	1.06E-03	2.76E-02	2.70E-02	6.24E-02
537	489628.13	3861308.47	0.00484	0.00401	0.00252	0.03795	0.002	0.008	0.0039	0.00401	0.05049944	0.007406172	2.623E-07	2.00E-03	9.38E-04	1.06E-03	2.79E-02	2.73E-02	6.26E-02
538	489678.13	3861308.47	0.00485	0.00405	0.00251	0.03446	0.002	0.008	0.004	0.00405	0.05060378	0.007480049	2.613E-07	1.82E-03	1.01E-03	1.07E-03	2.83E-02	2.75E-02	6.27E-02
539	489728.13	3861308.47	0.00485	0.0041	0.00248	0.03163	0.002	0.008	0.004	0.0041	0.05060378	0.007572395	2.582E-07	1.67E-03	1.08E-03	1.07E-03	2.86E-02	2.79E-02	6.27E-02
540	489778.13	3861308.47	0.00485	0.00415	0.00243	0.02929	0.002	0.008	0.0041	0.00415	0.05060378	0.007664742	2.53E-07	1.54E-03	1.16E-03	1.07E-03	2.90E-02	2.82E-02	6.28E-02
541	489678.13	3861358.47	0.00457	0.00397	0.00244	0.03432	0.002	0.007	0.0039	0.00397	0.04768233	0.007332295	2.54E-07	1.81E-03	9.57E-04	1.01E-03	2.76E-02	2.70E-02	5.94E-02
542	489728.13	3861358.47	0.00458	0.00401	0.0024	0.03149	0.002	0.007	0.004	0.00401	0.04778666	0.007406172	2.499E-07	1.66E-03	1.03E-03	1.01E-03	2.80E-02	2.73E-02	5.96E-02
543	489528.13	3861408.47	0.00428	0.00377	0.00233	0.04785	0.002	0.007	0.0037	0.00377	0.04465653	0.00696291	2.426E-07	2.52E-03	7.27E-04	9.57E-04	2.61E-02	2.56E-02	5.63E-02
544	489578.13	3861408.47	0.0043	0.00381	0.00236	0.04209	0.002	0.007	0.0037	0.00381	0.04486521	0.007036787	2.457E-07	2.22E-03	7.78E-04	9.58E-04	2.64E-02	2.59E-02	5.64E-02
545	489628.13	3861408.47	0.00432	0.00385	0.00238	0.03769	0.002	0.007	0.0038	0.00385	0.04507388	0.007110664	2.478E-07	1.99E-03	8.39E-04	9.59E-04	2.68E-02	2.62E-02	5.66E-02
546	489678.13	3861408.47	0.00434	0.00388	0.00236	0.03419	0.002	0.007	0.0038	0.00388	0.04528256	0.007166072	2.457E-07	1.80E-03	9.05E-04	9.59E-04	2.71E-02	2.64E-02	5.68E-02
547	489728.13	3861408.47	0.00434	0.00392	0.00233	0.03136	0.002	0.007	0.0039	0.00392	0.04528256	0.007239949	2.426E-07	1.65E-03	9.71E-04	9.59E-04	2.73E-02	2.67E-02	5.68E-02
548	489528.13	3861458.47	0.00407	0.0037	0.00227	0.04775	0.001	0.007	0.0036	0.0037	0.04246544	0.006833625	2.363E-07	2.52E-03	6.89E-04	9.16E-04	2.56E-02	2.52E-02	5.39E-02
549	489578.13	3861458.47	0.00409	0.00373	0.0023	0.04198	0.002	0.007	0.0037	0.00373	0.04267412	0.006889033	2.394E-07	2.21E-03	7.36E-04	9.17E-04	2.59E-02	2.54E-02	5.40E-02
550	489628.13	3861458.47	0.00411	0.00377	0.00231	0.03756	0.002	0.007	0.0037	0.00377	0.04288279	0.00696291	2.405E-07	1.98E-03	7.92E-04	9.17E-04	2.62E-02	2.56E-02	5.41E-02
551	489678.13	3861458.47	0.00412	0.0038	0.0023	0.03406	0.002	0.007	0.0037	0.0038	0.04298713	0.007018318	2.394E-07	1.79E-03	8.53E-04	9.16E-04	2.65E-02	2.58E-02	5.42E-02
552	489728.13	3861458.47	0.00413	0.00384	0.00226	0.03122	0.002	0.007	0.0038	0.00384	0.04309147	0.007092195	2.353E-07	1.64E-03	9.19E-04	9.16E-04	2.68E-02	2.61E-02	5.43E-02
553	489528.13	3861508.47	0.00388	0.00363	0.00222	0.04763	0.001	0.006	0.0036	0.00363	0.04048302	0.00670434	2.311E-07	2.51E-03	6.56E-04	8.81E-04	2.52E-02	2.47E-02	5.17E-02
554	489578.13	3861508.47	0.0039	0.00366	0.00225	0.04185	0.001	0.006	0.0036	0.00366	0.0406917	0.006759748	2.342E-07	2.20E-03	6.99E-04	8.79E-04	2.54E-02	2.49E-02	5.17E-02
555	489628.13	3861508.47	0.00392	0.00369	0.00225	0.03742	0.002	0.006	0.0036	0.00369	0.04090038	0.006815156	2.342E-07	1.97E-03	7.50E-04	8.79E-04	2.56E-02	2.51E-02	5.19E-02
556	489678.13	3861508.47	0.00393	0.00373	0.00223	0.03393	0.002	0.006	0.0037	0.00373	0.04100471	0.006889033	2.322E-07	1.79E-03	8.11E-04	8.78E-04	2.59E-02	2.54E-02	5.19E-02
557	489728.13	3861508.47	0.00394	0.00376	0.00219	0.0311	0.002	0.006	0.0037	0.00376	0.04110905	0.006944441	2.28E-07	1.64E-03	8.72E-04	8.78E-04	2.62E-02	2.56E-02	5.21E-02
558	489628.13	3861558.47	0.00375	0.00363	0.00219	0.03731	0.002	0.006	0.0036	0.00363	0.03912663	0.00670434	2.28E-07	1.97E-03	7.13E-04	8.47E-04	2.52E-02	2.47E-02	4.99E-02
559	489678.13	3861558.47	0.00377	0.00366	0.00218	0.03382	0.002	0.006	0.0036	0.00366	0.03933531	0.006759748	2.27E-07	1.78E-03	7.69E-04	8.48E-04	2.55E-02	2.49E-02	5.01E-02
560	489728.13	3861558.47	0.00377	0.0037	0.00214	0.031	0.002	0.006	0.0036	0.0037	0.03933531	0.006833625	2.228E-07	1.63E-03	8.25E-04	8.47E-04	2.57E-02	2.52E-02	5.00E-02
561	489357.08	3861015.81	0.00756	0.00432	0.00288	0.09753	0.002	0.012	0.0042	0.00432	0.0788793	0.007978719	2.998E-07	5.14E-03	8.77E-04	1.64E-03	2.99E-02	2.94E-02	9.50E-02
562	489407.08	3861015.81	0.00759	0.00436	0.00284	0.07488	0.002	0.012	0.0043	0.00436	0.07919231	0.008052596	2.957E-07	3.94E-03	9.38E-04	1.63E-03	3.02E-02	2.96E-02	9.43E-02
563	489457.08	3861015.81	0.00761	0.00441	0.00285	0.0612	0.002	0.012	0.0043	0.00441	0.07940098	0.008144942	2.967E-07	3.22E-03	1.01E-03	1.62E-03	3.06E-02	3.00E-02	9.40E-02
564	489357.08	3861065.81	0.00683	0.00423	0.00277	0.09737	0.002	0.011	0.0041	0.00423	0.07126264	0.007812496	2.884E-07	5.13E-03	8.30E-04	1.51E-03	2.92E-02	2.88E-02	8.70E-02
565	489407.08	3861065.81	0.00687	0.00427	0.00274	0.07485	0.002	0.011	0.0042	0.00427	0.07167999	0.007886373	2.853E-07	3.94E-03	8.86E-04	1.50E-03	2.95E-02	2.90E-02	8.64E-02
566	489457.08	3861065.81	0.0069	0.00431	0.00275	0.06115	0.002	0.011	0.0042	0.00431	0.07199301	0.00796025	2.863E-07	3.22E-03	9.52E-04	1.49E-03	2.99E-02	2.93E-02	8.62E-02
567	489357.08	3861115.81	0.00623	0.00414	0.00266	0.09705	0.002	0.01	0.004	0.00414	0.06500238	0.007646272	2.769E-07	5.11E-03	7.88E-04	1.39E-03	2.86E-02	2.82E-02	8.03E-02
568	489407.08	3861115.81	0.00628	0.00418	0.00264	0.07467	0.002	0.01	0.0041	0.00418	0.06552407	0.007720149	2.748E-07	3.93E-03	8.44E-04	1.39E-03	2.89E-02	2.84E-02	7.99E-02
569	489457.08	3861115.81	0.00632	0.00422	0.00267	0.06101	0.002	0.01	0.0041	0.00422	0.06594142	0.007794026	2.78E-07	3.21E-03	9.05E-04	1.38E-03	2.93E-02	2.87E-02	7.98E-02
570	489407.08	3861165.81	0.00578	0.00409	0.00256	0.07423	0.002	0.009	0.004	0.00409	0.06030719	0.007553926	2.665E-07	3.91E-03	8.02E-04	1.29E-03	2.83E-02	2.78E-02	7.44E-02
571	489457.08	3861165.81	0.00582	0.00413	0.00259	0.06079	0.002	0.009	0.004	0.00413	0.06072454	0.007627803	2.696E-07	3.20E-03	8.58E-04	1.29E-03	2.86E-02	2.81E-02	7.42E-02
572	489407.08	3861215.81	0.00535	0.004	0.00247	0.07438	0.002	0.008	0.0039	0.004	0.05582067	0.007387703	2.571E-07	3.92E-03	7.55E-04	1.19E-03	2.76E-02	2.72E-02	6.95E-02
573	489457.08	3861215.81	0.00539	0.00404	0.0025	0.06072	0.002	0.008	0.004	0.00404	0.05623802	0.00746158	2.603E-07	3.20E-03	8.07E-04	1.19E-03	2.80E-02	2.75E-02	6.94E-02
574	489407.08	3861265.81	0.00498	0.00391	0.00239	0.07388	0.002	0.008	0.0038	0.00391	0.05196017	0.007221479	2.488E-07	3.89E-03	7.17E-04	1.11E-03	2.70E-02	2.66E-02	6.53E-02
575	489457.08	3861265.81	0.00502	0.00395	0.00243	0.06041	0.002	0.008	0.0039	0.00395	0.05237752	0.007295356	2.53E-07	3.18E-03	7.64E-04	1.12E-03	2.73E-02	2.69E-02	6.52E-02
576	489309.86	3861110.14	0.00624	0.00411	0.00272	0.13668	0.002	0.01	0.004	0.00411	0.06510672	0.007590865	2.832E-07	7.20E-03	7.50E-04	1.40E-03	2.83E-02	2.79E-02	8.24E-02

577	489407.08	3861315.81	0.00468	0.00383	0.00232	0.07372	0.001	0.007	0.0037	0.00383	0.04883004	0.007073725	2.415E-07	3.88E-03	6.85E-04	1.05E-03	2.64E-02	2.60E-02	6.19E-02
578	489457.08	3861315.81	0.00471	0.00386	0.00236	0.06028	0.002	0.007	0.0038	0.00386	0.04914305	0.007129133	2.457E-07	3.18E-03	7.27E-04	1.05E-03	2.68E-02	2.62E-02	6.18E-02
579	488906.03	3861006.75	0.00726	0.00398	0.00369	0.02058	0.001	0.012	0.0038	0.00398	0.07574916	0.007350764	3.842E-07	1.08E-03	6.89E-04	1.76E-03	2.71E-02	2.71E-02	8.67E-02
580	488956.03	3861006.75	0.0073	0.00402	0.00366	0.02403	0.001	0.012	0.0039	0.00402	0.07616652	0.007424641	3.81E-07	1.27E-03	6.94E-04	1.75E-03	2.75E-02	2.73E-02	8.75E-02
581	488904.24	3861051.87	0.00658	0.00392	0.00367	0.01949	0.001	0.011	0.0038	0.00392	0.0686542	0.007239949	3.821E-07	1.03E-03	6.89E-04	1.57E-03	2.67E-02	2.67E-02	7.92E-02
582	488954.24	3861051.87	0.00661	0.00395	0.00356	0.02332	0.001	0.011	0.0038	0.00395	0.06896721	0.007295356	3.706E-07	1.23E-03	6.85E-04	1.58E-03	2.70E-02	2.69E-02	7.99E-02
583	489004.24	3861051.87	0.00667	0.00399	0.00352	0.02784	0.001	0.011	0.0039	0.00399	0.06959324	0.007369233	3.665E-07	1.47E-03	6.89E-04	1.58E-03	2.73E-02	2.71E-02	8.08E-02
584	488804.24	3861101.87	0.00586	0.00378	0.00348	0.01562	0.001	0.01	0.0036	0.00378	0.06114189	0.006981379	3.623E-07	8.23E-04	6.66E-04	1.44E-03	2.56E-02	2.57E-02	7.10E-02
585	488854.24	3861101.87	0.0059	0.00381	0.00351	0.0173	0.001	0.01	0.0037	0.00381	0.06155924	0.007036787	3.654E-07	9.11E-04	6.71E-04	1.43E-03	2.59E-02	2.59E-02	7.16E-02
586	488904.24	3861101.87	0.00591	0.00384	0.0034	0.0203	0.001	0.01	0.0037	0.00384	0.06166358	0.007092195	3.54E-07	1.07E-03	6.61E-04	1.43E-03	2.61E-02	2.61E-02	7.20E-02
587	488954.24	3861101.87	0.00595	0.00387	0.00332	0.02405	0.001	0.01	0.0037	0.00387	0.06208093	0.007147602	3.456E-07	1.27E-03	6.61E-04	1.43E-03	2.64E-02	2.63E-02	7.26E-02
588	489004.24	3861101.87	0.006	0.0039	0.00325	0.0296	0.001	0.01	0.0038	0.0039	0.06260262	0.00720301	3.383E-07	1.56E-03	6.61E-04	1.43E-03	2.66E-02	2.65E-02	7.36E-02
589	488804.24	3861151.87	0.00533	0.0037	0.00326	0.01588	0.001	0.009	0.0035	0.0037	0.05561199	0.006833625	3.394E-07	8.36E-04	6.42E-04	1.32E-03	2.51E-02	2.52E-02	6.52E-02
590	488854.24	3861151.87	0.00536	0.00372	0.00325	0.01782	0.001	0.009	0.0036	0.00372	0.055925	0.006870564	3.383E-07	9.39E-04	6.42E-04	1.31E-03	2.53E-02	2.53E-02	6.57E-02
591	489129.49	3861187.55	0.00531	0.00384	0.00282	0.08085	0.001	0.009	0.0037	0.00384	0.05540331	0.007092195	2.936E-07	4.26E-03	6.33E-04	1.23E-03	2.64E-02	2.61E-02	6.89E-02
592	489179.49	3861187.55	0.00535	0.00388	0.00274	0.21916	0.001	0.009	0.0038	0.00388	0.05582067	0.007166072	2.853E-07	1.15E-02	6.42E-04	1.23E-03	2.66E-02	2.64E-02	7.67E-02
593	488804.24	3861201.87	0.00493	0.00363	0.00314	0.01577	0.001	0.009	0.0035	0.00363	0.05143848	0.00670434	3.269E-07	8.31E-04	6.28E-04	1.22E-03	2.46E-02	2.47E-02	6.07E-02
594	488854.24	3861201.87	0.00495	0.00365	0.00311	0.01773	0.001	0.009	0.0035	0.00365	0.05164716	0.006741279	3.238E-07	9.34E-04	6.28E-04	1.22E-03	2.48E-02	2.48E-02	6.11E-02
595	489129.49	3861237.55	0.00494	0.00377	0.00272	0.08045	0.001	0.008	0.0037	0.00377	0.05154282	0.00696291	2.832E-07	4.24E-03	6.19E-04	1.16E-03	2.59E-02	2.56E-02	6.47E-02
596	489179.49	3861237.55	0.00498	0.0038	0.00264	0.22149	0.001	0.008	0.0037	0.0038	0.05196017	0.007018318	2.748E-07	1.17E-02	6.19E-04	1.15E-03	2.61E-02	2.58E-02	7.27E-02
597	488804.24	3861251.87	0.00459	0.00356	0.00303	0.01566	0.001	0.008	0.0034	0.00356	0.047891	0.006575055	3.154E-07	8.25E-04	6.14E-04	1.14E-03	2.42E-02	2.42E-02	5.70E-02
598	488854.24	3861251.87	0.00462	0.00358	0.00298	0.01764	0.001	0.008	0.0034	0.00358	0.04820401	0.006611994	3.102E-07	9.29E-04	6.14E-04	1.14E-03	2.43E-02	2.43E-02	5.75E-02
599	488804.24	3861301.87	0.00431	0.0035	0.0029	0.01558	0.001	0.008	0.0033	0.0035	0.04496955	0.00646424	3.019E-07	8.21E-04	6.05E-04	1.07E-03	2.37E-02	2.38E-02	5.38E-02
600	488854.24	3861301.87	0.00433	0.00352	0.00286	0.01755	0.001	0.008	0.0034	0.00352	0.04517822	0.006501178	2.977E-07	9.24E-04	6.05E-04	1.07E-03	2.39E-02	2.39E-02	5.42E-02
601	490943.5	3860181.97	0.01809	0.02819	0.0075	0.03222	0.004	0.027	0.0281	0.02819	0.18874689	0.052064835	7.808E-07	1.70E-03	1.87E-03	3.75E-03	1.99E-01	1.92E-01	2.55E-01
602	490993.5	3860181.97	0.01849	0.03177	0.00753	0.03305	0.004	0.027	0.0318	0.03177	0.19292039	0.058676829	7.839E-07	1.74E-03	1.87E-03	3.85E-03	2.25E-01	2.16E-01	2.68E-01
603	491043.5	3860181.97	0.01915	0.03669	0.00757	0.03398	0.004	0.028	0.0369	0.03669	0.19980668	0.067763703	7.881E-07	1.79E-03	1.88E-03	3.96E-03	2.62E-01	2.49E-01	2.87E-01
604	491093.5	3860181.97	0.0203	0.0437	0.00761	0.03493	0.004	0.029	0.0443	0.0437	0.21180552	0.080710652	7.922E-07	1.84E-03	1.88E-03	4.09E-03	3.14E-01	2.97E-01	3.17E-01
605	490943.5	3860231.97	0.01683	0.02379	0.00683	0.02862	0.004	0.024	0.0236	0.02379	0.17560034	0.043938362	7.11E-07	1.51E-03	1.81E-03	3.39E-03	1.67E-01	1.62E-01	2.32E-01
606	490993.5	3860231.97	0.01706	0.02644	0.00686	0.02921	0.004	0.025	0.0264	0.02644	0.1780001	0.048832715	7.142E-07	1.54E-03	1.82E-03	3.47E-03	1.87E-01	1.80E-01	2.41E-01
607	491043.5	3860231.97	0.01742	0.02967	0.00686	0.02965	0.004	0.025	0.0297	0.02967	0.18175626	0.054798285	7.142E-07	1.56E-03	1.82E-03	3.53E-03	2.10E-01	2.02E-01	2.52E-01
608	491093.5	3860231.97	0.01809	0.03405	0.00687	0.03014	0.004	0.026	0.0342	0.03405	0.18874689	0.062887819	7.152E-07	1.59E-03	1.82E-03	3.61E-03	2.42E-01	2.32E-01	2.69E-01
609	490943.5	3860281.97	0.01576	0.02065	0.00629	0.02587	0.004	0.022	0.0205	0.02065	0.1644362	0.038139015	6.548E-07	1.36E-03	1.75E-03	3.11E-03	1.45E-01	1.40E-01	2.13E-01
610	490993.5	3860281.97	0.01586	0.02261	0.00629	0.02618	0.004	0.022	0.0225	0.02261	0.16547958	0.041758989	6.548E-07	1.38E-03	1.76E-03	3.16E-03	1.59E-01	1.54E-01	2.19E-01
611	491043.5	3860281.97	0.01604	0.02496	0.00628	0.02643	0.004	0.023	0.0248	0.02496	0.16735766	0.046099265	6.538E-07	1.39E-03	1.76E-03	3.21E-03	1.76E-01	1.70E-01	2.26E-01
612	491093.5	3860281.97	0.01637	0.02798	0.00628	0.02669	0.004	0.023	0.0279	0.02798	0.1708008	0.05167698	6.538E-07	1.41E-03	1.77E-03	3.26E-03	1.98E-01	1.90E-01	2.36E-01
613	490943.5	3860331.97	0.0148	0.01829	0.00586	0.02373	0.004	0.02	0.0181	0.01829	0.15441979	0.033780271	6.101E-07	1.25E-03	1.69E-03	2.88E-03	1.28E-01	1.24E-01	1.98E-01
614	490993.5	3860331.97	0.01479	0.01973	0.00581	0.02381	0.004	0.021	0.0195	0.01973	0.15431545	0.036439844	6.049E-07	1.25E-03	1.70E-03	2.91E-03	1.38E-01	1.34E-01	2.01E-01
615	491043.5	3860331.97	0.01485	0.0215	0.00579	0.02392	0.004	0.021	0.0213	0.0215	0.15494147	0.039708902	6.028E-07	1.26E-03	1.70E-03	2.94E-03	1.51E-01	1.46E-01	2.05E-01
616	491093.5	3860331.97	0.01498	0.0237	0.00578	0.02405	0.004	0.021	0.0235	0.0237	0.15629786	0.043772138	6.017E-07	1.27E-03	1.71E-03	2.98E-03	1.67E-01	1.61E-01	2.12E-01
617	490086.72	3859935.12	0.02538	0.01815	0.01518	0.03748	0.005	0.028	0.0178	0.01815	0.26480906	0.033521701	1.58E-06	1.97E-03	2.47E-03	4.00E-03	1.26E-01	1.23E-01	3.09E-01
618	490136.72	3859935.12	0.02487	0.01931	0.01514	0.03763	0.005	0.029	0.0189	0.01931	0.25948784	0.035664135	1.576E-06	1.98E-03	2.41E-03	4.05E-03	1.34E-01	1.31E-01	3.06E-01
619	490186.72	3859935.12	0.02443	0.02062	0.015	0.038	0.005	0.029	0.0202	0.02062	0.25489698	0.038083607	1.562E-06	2.00E-03	2.34E-03	4.10E-03	1.43E-01	1.40E-01	3.05E-01
620	490236.72	3859935.12	0.02404	0.02213	0.01485	0.0386	0.005	0.03	0.0217	0.02213	0.25082781	0.040872465	1.546E-06	2.03E-03	2.29E-03	4.18E-03	1.54E-01	1.50E-01	3.04E-01
621	490286.72	3859935.12	0.0237	0.02383	0.01464	0.03938	0.005	0.03	0.0234	0.02383	0.24728033	0.044012239	1.524E-06	2.07E-03	2.25E-03	4.27E-03	1.66E-01	1.62E-01	3.04E-01
622	490336.72	3859935.12	0.02342	0.02582	0.01438	0.04041	0.005	0.031	0.0253	0.02582	0.24435888	0.047687621	1.497E-06	2.13E-03	2.22E-03	4.39E-03	1.80E-01	1.76E-01	3.05E-01
623	490386.72	3859935.12	0.02321	0.02823	0.01412	0.04178	0.005	0.032	0.0277	0.02823	0.24216778	0.052138712	1.47E-06	2.20E-03	2.20E-03	4.53E-03	1.96E-01	1.92E-01	3.08E-01
624	490436.72	3859935.12	0.02308	0.03111	0.01389	0.04349	0.005	0.034	0.0305	0.03111	0.24081139	0.057457858	1.446E-06	2.29E-03	2.19E-03	4.71E-03	2.16E-01	2.12E-01	3.12E-01
625	490486.72	3859935.12	0.02306	0.0347	0.01377	0.04567	0.005	0.035	0.034	0.0347	0.24060272	0.064088321	1.434E-06	2.41E-03	2.18E-03	4.94E-03	2.41E-01	2.36E-01	3.19E-01
626	490536.72	3859935.12	0.02319	0.03959	0.01384	0.0487	0.005	0.037	0.0388	0.03959	0.24195911	0.073119787	1.441E-06	2.57E-03	2.19E-03	5.24E-03	2.75E-01	2.69E-01	3.30E-01
627	490586.72	3859935.12	0.02349	0.04614	0.014	0.05262	0.005	0.04	0.045	0.04614	0.24508924	0.085217151	1.457E-06	2.77E-03	2.19E-03	5.64E-03	3.19E-01	3.14E-01	3.46E-01
628	490636.72	3859935.12	0.02398	0.05465	0.01418	0.05728	0.005	0.044	0.0531	0.05465	0.25020179	0.100934488	1.476E-06	3.02E-03	2.20E-03	6.13E-03	3.76E-01	3.72E-01	3.67E-01
629	490686.72	3859935.12	0.02489	0.06778	0.01453	0.06397	0.005	0.049	0.0653	0.06778	0.25969652	0.125184622	1.513E-06	3.37E-03	2.22E-03	6.85E-03	4.63E-01	4.61E-01	3.99E-01
630	490736.72	3859935.12	0.02641	0.08668	0.01485	0.07231	0.005	0.055	0.0827	0.08668	0.27555585	0.160091517	1.546E-06	3.81E-03	2.23E-03	7.78E-03	5.86E-01	5.89E-01	4.46E-01
631	490086.72	3859985.12	0.02488	0.01594	0.013	0.03539	0.005	0.027	0.0156	0.01594	0.25959218	0.029439995	1.353E-06	1.86E-03	2.46E-03	3.81E-03	1.11E-01	1.08E-01	2.99E-01
632	490136.72	3859985.12	0.02432	0.01678	0.01306	0.03529	0.005	0.027	0.0165	0.01678	0.25374927	0.030991413	1.36E-06	1.86E-03	2.38E-03	3.83E-03	1.17E-01	1.14E-01	2.95E-01
633	490186.72	3859985.12	0.02382	0.01776	0.01302	0.03541	0.005	0.027	0.0174	0.01776	0.24853238	0.0328014	1.355E-06	1.87E-03	2.32E-03	3.86E-03	1.23E-01	1.21E-01	2.92E-01
634	490236.72	3859985.12	0.02338	0.01887	0.01295	0.03573	0.005	0.028	0.0185	0.01887	0.24394153	0.034851487	1.348E-06	1.88E-03	2.26E-03	3.92E-03	1.31E-01	1.28E-01	2.90E-01

635	490286.72	3859985.12	0.02298	0.02007	0.01283	0.03617	0.005	0.028	0.0197	0.02007	0.23976802	0.037067798	1.336E-06	1.91E-03	2.22E-03	3.97E-03	1.40E-01	1.36E-01	2.88E-01
636	490336.72	3859985.12	0.02263	0.02144	0.01268	0.03678	0.005	0.029	0.021	0.02144	0.2361162	0.039598086	1.32E-06	1.94E-03	2.18E-03	4.05E-03	1.49E-01	1.46E-01	2.87E-01
637	490386.72	3859985.12	0.02232	0.02295	0.01245	0.03752	0.005	0.029	0.0225	0.02295	0.23288173	0.042386944	1.296E-06	1.98E-03	2.14E-03	4.13E-03	1.59E-01	1.56E-01	2.87E-01
638	490436.72	3859985.12	0.02209	0.02477	0.01222	0.03855	0.005	0.03	0.0243	0.02477	0.23048196	0.045748349	1.272E-06	2.03E-03	2.12E-03	4.25E-03	1.72E-01	1.68E-01	2.88E-01
639	490486.72	3859985.12	0.02194	0.02696	0.01203	0.03988	0.005	0.031	0.0264	0.02696	0.2289169	0.049793116	1.252E-06	2.10E-03	2.11E-03	4.39E-03	1.87E-01	1.83E-01	2.91E-01
640	490536.72	3859985.12	0.02189	0.02969	0.01193	0.04164	0.005	0.032	0.0291	0.02969	0.22839521	0.054835223	1.242E-06	2.19E-03	2.11E-03	4.57E-03	2.06E-01	2.02E-01	2.96E-01
641	490586.72	3859985.12	0.02196	0.03313	0.01194	0.04387	0.005	0.034	0.0324	0.03313	0.22912557	0.061188648	1.243E-06	2.31E-03	2.11E-03	4.80E-03	2.30E-01	2.25E-01	3.04E-01
642	490636.72	3859985.12	0.02218	0.03753	0.01203	0.04669	0.005	0.036	0.0367	0.03753	0.231421	0.06931512	1.252E-06	2.46E-03	2.12E-03	5.09E-03	2.60E-01	2.55E-01	3.15E-01
643	490686.72	3859985.12	0.02263	0.04346	0.01224	0.05041	0.005	0.039	0.0423	0.04346	0.2361162	0.08026739	1.274E-06	2.66E-03	2.14E-03	5.47E-03	3.00E-01	2.96E-01	3.31E-01
644	490736.72	3859985.12	0.02336	0.05084	0.01239	0.05434	0.005	0.042	0.0493	0.05084	0.24373285	0.093897701	1.29E-06	2.86E-03	2.15E-03	5.90E-03	3.49E-01	3.46E-01	3.52E-01
645	490786.72	3859985.12	0.02471	0.06121	0.01256	0.05908	0.005	0.046	0.0589	0.06121	0.25781844	0.11305032	1.308E-06	3.11E-03	2.15E-03	6.41E-03	4.17E-01	4.16E-01	3.84E-01
646	490086.72	3860035.12	0.02439	0.01425	0.01125	0.03368	0.005	0.026	0.014	0.01425	0.25447963	0.026318691	1.171E-06	1.77E-03	2.45E-03	3.65E-03	9.88E-02	9.69E-02	2.91E-01
647	490136.72	3860035.12	0.02379	0.01491	0.01141	0.03342	0.005	0.026	0.0146	0.01491	0.24821937	0.027537662	1.188E-06	1.76E-03	2.37E-03	3.65E-03	1.04E-01	1.01E-01	2.86E-01
648	490186.72	3860035.12	0.02325	0.01565	0.01142	0.03332	0.005	0.026	0.0153	0.01565	0.24258514	0.028904387	1.189E-06	1.76E-03	2.30E-03	3.67E-03	1.09E-01	1.06E-01	2.81E-01
649	490236.72	3860035.12	0.02276	0.01647	0.01136	0.03336	0.005	0.026	0.0162	0.01647	0.23747259	0.030418866	1.183E-06	1.76E-03	2.24E-03	3.70E-03	1.14E-01	1.12E-01	2.78E-01
650	490286.72	3860035.12	0.02231	0.01736	0.01127	0.03352	0.005	0.027	0.017	0.01736	0.23277739	0.03206263	1.173E-06	1.77E-03	2.18E-03	3.73E-03	1.21E-01	1.18E-01	2.75E-01
651	490336.72	3860035.12	0.02193	0.01839	0.01122	0.03389	0.005	0.027	0.018	0.01839	0.22881256	0.033964963	1.168E-06	1.79E-03	2.14E-03	3.78E-03	1.28E-01	1.25E-01	2.73E-01
652	490386.72	3860035.12	0.02157	0.01946	0.01108	0.03429	0.004	0.027	0.0191	0.01946	0.2250564	0.035941174	1.153E-06	1.81E-03	2.10E-03	3.83E-03	1.35E-01	1.32E-01	2.72E-01
653	490436.72	3860035.12	0.02128	0.02072	0.01093	0.03489	0.004	0.028	0.0203	0.02072	0.22203061	0.0382683	1.138E-06	1.84E-03	2.07E-03	3.90E-03	1.44E-01	1.41E-01	2.71E-01
654	490486.72	3860035.12	0.02105	0.02218	0.01075	0.03568	0.004	0.028	0.0217	0.02218	0.21963084	0.040964811	1.119E-06	1.88E-03	2.05E-03	3.99E-03	1.54E-01	1.51E-01	2.72E-01
655	490536.72	3860035.12	0.0209	0.02396	0.0106	0.03675	0.004	0.029	0.0235	0.02396	0.21806578	0.044252339	1.104E-06	1.94E-03	2.04E-03	4.10E-03	1.66E-01	1.63E-01	2.74E-01
656	490586.72	3860035.12	0.02084	0.02604	0.01049	0.03804	0.004	0.03	0.0255	0.02604	0.21743975	0.048093945	1.092E-06	2.00E-03	2.04E-03	4.24E-03	1.81E-01	1.77E-01	2.77E-01
657	490636.72	3860035.12	0.02085	0.02844	0.01041	0.03948	0.004	0.031	0.0279	0.02844	0.21754409	0.052526566	1.084E-06	2.08E-03	2.04E-03	4.39E-03	1.97E-01	1.93E-01	2.83E-01
658	490686.72	3860035.12	0.02102	0.03161	0.01046	0.04143	0.004	0.033	0.031	0.03161	0.21931783	0.05838132	1.089E-06	2.18E-03	2.05E-03	4.59E-03	2.19E-01	2.15E-01	2.91E-01
659	490736.72	3860035.12	0.0214	0.03584	0.01062	0.04406	0.004	0.035	0.0351	0.03584	0.22328266	0.066193816	1.106E-06	2.32E-03	2.07E-03	4.87E-03	2.49E-01	2.44E-01	3.04E-01
660	490786.72	3860035.12	0.02196	0.04076	0.01071	0.04659	0.004	0.037	0.0399	0.04076	0.22912557	0.07528069	1.115E-06	2.45E-03	2.07E-03	5.14E-03	2.83E-01	2.77E-01	3.20E-01
661	490836.72	3860035.12	0.02282	0.04727	0.01082	0.04946	0.004	0.039	0.0463	0.04727	0.23809861	0.087304177	1.126E-06	2.61E-03	2.08E-03	5.45E-03	3.28E-01	3.21E-01	3.42E-01
662	490086.72	3860085.12	0.02394	0.01295	0.00989	0.03228	0.005	0.025	0.0127	0.01295	0.24978444	0.023917687	1.03E-06	1.70E-03	2.45E-03	3.52E-03	8.98E-02	8.81E-02	2.83E-01
663	490136.72	3860085.12	0.02326	0.01345	0.01006	0.03185	0.005	0.025	0.0132	0.01345	0.24268947	0.02484115	1.047E-06	1.68E-03	2.36E-03	3.50E-03	9.33E-02	9.15E-02	2.77E-01
664	490186.72	3860085.12	0.0227	0.01406	0.01015	0.03163	0.005	0.025	0.0138	0.01406	0.23684656	0.025967775	1.057E-06	1.67E-03	2.29E-03	3.51E-03	9.76E-02	9.56E-02	2.72E-01
665	490236.72	3860085.12	0.02217	0.01469	0.01011	0.03149	0.005	0.025	0.0144	0.01469	0.23131666	0.027131338	1.053E-06	1.66E-03	2.22E-03	3.52E-03	1.02E-01	9.99E-02	2.68E-01
666	490286.72	3860085.12	0.02169	0.01538	0.01004	0.03146	0.005	0.025	0.0151	0.01538	0.22630846	0.028405717	1.045E-06	1.66E-03	2.16E-03	3.54E-03	1.07E-01	1.05E-01	2.64E-01
667	490336.72	3860085.12	0.02126	0.01613	0.00996	0.03154	0.005	0.025	0.0158	0.01613	0.22182193	0.029790911	1.037E-06	1.66E-03	2.11E-03	3.56E-03	1.12E-01	1.10E-01	2.61E-01
668	490386.72	3860085.12	0.02088	0.01696	0.00989	0.03174	0.004	0.026	0.0166	0.01696	0.2178571	0.031323859	1.03E-06	1.67E-03	2.06E-03	3.59E-03	1.18E-01	1.15E-01	2.59E-01
669	490436.72	3860085.12	0.02054	0.01789	0.00981	0.03206	0.004	0.026	0.0175	0.01789	0.21430962	0.0330415	1.021E-06	1.69E-03	2.03E-03	3.63E-03	1.24E-01	1.22E-01	2.57E-01
670	490486.72	3860085.12	0.02025	0.01893	0.00969	0.0325	0.004	0.026	0.0186	0.01893	0.21128383	0.034962303	1.009E-06	1.71E-03	2.00E-03	3.69E-03	1.31E-01	1.29E-01	2.56E-01
671	490536.72	3860085.12	0.02004	0.02018	0.00957	0.03314	0.004	0.027	0.0198	0.02018	0.20909274	0.03727096	9.963E-07	1.75E-03	1.98E-03	3.76E-03	1.40E-01	1.37E-01	2.57E-01
672	490586.72	3860085.12	0.01989	0.02161	0.00944	0.03394	0.004	0.027	0.0212	0.02161	0.20752767	0.039912064	9.828E-07	1.79E-03	1.98E-03	3.84E-03	1.50E-01	1.47E-01	2.58E-01
673	490636.72	3860085.12	0.0198	0.02325	0.00932	0.03482	0.004	0.028	0.0228	0.02325	0.20658863	0.042941022	9.703E-07	1.83E-03	1.97E-03	3.94E-03	1.62E-01	1.58E-01	2.61E-01
674	490686.72	3860085.12	0.01981	0.02527	0.00927	0.03596	0.004	0.029	0.0248	0.02527	0.20669297	0.046671812	9.651E-07	1.89E-03	1.97E-03	4.06E-03	1.76E-01	1.72E-01	2.65E-01
675	490736.72	3860085.12	0.01993	0.02776	0.00929	0.03735	0.004	0.03	0.0273	0.02776	0.20794502	0.051270657	9.671E-07	1.97E-03	1.98E-03	4.20E-03	1.93E-01	1.89E-01	2.72E-01
676	490786.72	3860085.12	0.02017	0.0308	0.00935	0.03894	0.004	0.031	0.0304	0.0308	0.21044913	0.056885311	9.734E-07	2.05E-03	2.00E-03	4.37E-03	2.15E-01	2.09E-01	2.81E-01
677	490836.72	3860085.12	0.02052	0.03444	0.00939	0.04056	0.004	0.032	0.034	0.03444	0.21410095	0.06360812	9.776E-07	2.14E-03	2.00E-03	4.55E-03	2.41E-01	2.34E-01	2.93E-01
678	490086.72	3860135.12	0.02334	0.0118	0.00859	0.03096	0.005	0.024	0.0115	0.0118	0.24352417	0.021793723	8.943E-07	1.63E-03	2.42E-03	3.38E-03	8.17E-02	8.02E-02	2.74E-01
679	490136.72	3860135.12	0.02269	0.01225	0.00892	0.0305	0.005	0.024	0.012	0.01225	0.23674222	0.022624839	9.286E-07	1.61E-03	2.35E-03	3.37E-03	8.50E-02	8.33E-02	2.68E-01
680	490186.72	3860135.12	0.0221	0.01275	0.00906	0.03016	0.005	0.024	0.0125	0.01275	0.2305863	0.023548302	9.432E-07	1.59E-03	2.28E-03	3.37E-03	8.85E-02	8.67E-02	2.63E-01
681	490236.72	3860135.12	0.02155	0.01326	0.00905	0.02989	0.005	0.024	0.013	0.01326	0.22484773	0.024490234	9.422E-07	1.57E-03	2.21E-03	3.36E-03	9.22E-02	9.02E-02	2.59E-01
682	490286.72	3860135.12	0.02105	0.01383	0.009	0.02974	0.005	0.024	0.0136	0.01383	0.21963084	0.025542982	9.37E-07	1.57E-03	2.14E-03	3.37E-03	9.61E-02	9.40E-02	2.54E-01
683	490336.72	3860135.12	0.0206	0.01444	0.00895	0.02968	0.004	0.024	0.0142	0.01444	0.21493565	0.026669607	9.317E-07	1.56E-03	2.09E-03	3.38E-03	1.00E-01	9.82E-02	2.51E-01
684	490386.72	3860135.12	0.02019	0.01509	0.00888	0.02971	0.004	0.024	0.0148	0.01509	0.2106578	0.027870108	9.245E-07	1.56E-03	2.04E-03	3.39E-03	1.05E-01	1.03E-01	2.48E-01
685	490436.72	3860135.12	0.01982	0.0158	0.00883	0.02982	0.004	0.024	0.0155	0.0158	0.20679731	0.029181426	9.193E-07	1.57E-03	1.99E-03	3.41E-03	1.10E-01	1.07E-01	2.45E-01
686	490486.72	3860135.12	0.0195	0.01661	0.00877	0.03005	0.004	0.024	0.0163	0.01661	0.2034585	0.030677435	9.13E-07	1.58E-03	1.96E-03	3.44E-03	1.15E-01	1.13E-01	2.44E-01
687	490536.72	3860135.12	0.01924	0.01756	0.00871	0.03043	0.004	0.025	0.0172	0.01756	0.20074572	0.032432015	9.068E-07	1.60E-03	1.94E-03	3.49E-03	1.22E-01	1.19E-01	2.43E-01
688	490586.72	3860135.12	0.01903	0.01861	0.00861	0.03089	0.004	0.025	0.0183	0.01861	0.19855463	0.034371287	8.964E-07	1.63E-03	1.92E-03	3.54E-03	1.29E-01	1.27E-01	2.43E-01
689	490636.72	3860135.12	0.01887	0.01981	0.00849	0.03143	0.004	0.026	0.0195	0.01981	0.19688523	0.036587598	8.839E-07	1.66E-03	1.91E-03	3.60E-03	1.38E-01	1.35E-01	2.44E-01
690	490686.72	3860135.12	0.01878	0.02121	0.00838	0.03205	0.004	0.026	0.0209	0.02121	0.19594619	0.039173294	8.724E-07	1.69E-03	1.91E-03	3.67E-03	1.48E-01	1.44E-01	2.46E-01
691	490736.72	3860135.12	0.01876	0.02288	0.00831	0.03282	0.004	0.027	0.0225	0.02288	0.19573751	0.042257659	8.651E-07	1.73E-03	1.91E-03	3.76E-03	1.60E-01	1.56E-01	2.49E-01
692	490786.72	3860135.12	0.01882	0.02495	0.00831	0.0338	0.004	0.027	0.0246	0.02495	0.19636354	0.046080796	8.651E-07	1.78E-03	1.92E-03	3.86E-03	1.74E-01	1.70E-01	2.55E-01

693	490836.72	3860135.12	0.01895	0.02733	0.00831	0.03475	0.004	0.028	0.0271	0.02733	0.19771993	0.050476479	8.651E-07	1.83E-03	1.93E-03	3.97E-03	1.92E-01	1.86E-01	2.62E-01
694	490086.72	3860185.12	0.02273	0.01088	0.00757	0.02985	0.005	0.023	0.0106	0.01088	0.23715958	0.020094551	7.881E-07	1.57E-03	2.41E-03	3.26E-03	7.53E-02	7.40E-02	2.66E-01
695	490136.72	3860185.12	0.02208	0.01127	0.00795	0.02933	0.005	0.023	0.011	0.01127	0.23037763	0.020814852	8.276E-07	1.54E-03	2.34E-03	3.25E-03	7.82E-02	7.66E-02	2.60E-01
696	490186.72	3860185.12	0.02147	0.01169	0.00814	0.02891	0.005	0.023	0.0115	0.01169	0.22401303	0.021590561	8.474E-07	1.52E-03	2.27E-03	3.24E-03	8.11E-02	7.95E-02	2.54E-01
697	490236.72	3860185.12	0.0209	0.01212	0.00817	0.02856	0.005	0.023	0.0119	0.01212	0.21806578	0.022384739	8.505E-07	1.50E-03	2.20E-03	3.23E-03	8.42E-02	8.24E-02	2.49E-01
698	490286.72	3860185.12	0.02038	0.01259	0.00814	0.0283	0.005	0.023	0.0124	0.01259	0.21264022	0.023252794	8.474E-07	1.49E-03	2.13E-03	3.22E-03	8.75E-02	8.56E-02	2.45E-01
699	490336.72	3860185.12	0.01991	0.01309	0.00808	0.02812	0.004	0.023	0.0129	0.01309	0.20773635	0.024176257	8.412E-07	1.48E-03	2.07E-03	3.22E-03	9.10E-02	8.90E-02	2.41E-01
700	490386.72	3860185.12	0.01949	0.01363	0.00803	0.02803	0.004	0.023	0.0134	0.01363	0.20335416	0.025173597	8.36E-07	1.48E-03	2.02E-03	3.22E-03	9.49E-02	9.27E-02	2.37E-01
701	490436.72	3860185.12	0.0191	0.01422	0.00799	0.02802	0.004	0.023	0.014	0.01422	0.19928499	0.026263283	8.318E-07	1.48E-03	1.96E-03	3.23E-03	9.90E-02	9.67E-02	2.35E-01
702	490486.72	3860185.12	0.01876	0.01487	0.00795	0.02808	0.004	0.023	0.0146	0.01487	0.19573751	0.027463785	8.276E-07	1.48E-03	1.93E-03	3.25E-03	1.03E-01	1.01E-01	2.32E-01
703	490536.72	3860185.12	0.01847	0.0156	0.00793	0.02825	0.004	0.023	0.0153	0.0156	0.19271172	0.02881204	8.256E-07	1.49E-03	1.89E-03	3.27E-03	1.09E-01	1.06E-01	2.31E-01
704	490586.72	3860185.12	0.01822	0.01645	0.00789	0.02853	0.004	0.023	0.0162	0.01645	0.19010328	0.030381927	8.214E-07	1.50E-03	1.88E-03	3.30E-03	1.14E-01	1.12E-01	2.30E-01
705	490636.72	3860185.12	0.01801	0.01737	0.00779	0.0288	0.004	0.024	0.0171	0.01737	0.18791218	0.032081099	8.11E-07	1.52E-03	1.86E-03	3.34E-03	1.21E-01	1.18E-01	2.29E-01
706	490686.72	3860185.12	0.01786	0.01845	0.0077	0.02919	0.004	0.024	0.0181	0.01845	0.18634712	0.034075779	8.016E-07	1.54E-03	1.85E-03	3.38E-03	1.29E-01	1.25E-01	2.30E-01
707	490736.72	3860185.12	0.01775	0.01965	0.00759	0.02958	0.004	0.024	0.0194	0.01965	0.1851994	0.036292089	7.902E-07	1.56E-03	1.85E-03	3.43E-03	1.37E-01	1.34E-01	2.32E-01
708	490786.72	3860185.12	0.01771	0.02112	0.00753	0.03011	0.004	0.025	0.0208	0.02112	0.18478205	0.03900707	7.839E-07	1.59E-03	1.85E-03	3.49E-03	1.48E-01	1.44E-01	2.35E-01
709	490836.72	3860185.12	0.01772	0.02287	0.0075	0.0307	0.004	0.025	0.0226	0.02287	0.18488639	0.04223919	7.808E-07	1.62E-03	1.86E-03	3.56E-03	1.60E-01	1.56E-01	2.39E-01
710	490086.72	3860235.12	0.02207	0.01013	0.00674	0.0289	0.005	0.022	0.0099	0.01013	0.23027329	0.018709357	7.017E-07	1.52E-03	2.40E-03	3.15E-03	7.01E-02	6.89E-02	2.57E-01
711	490136.72	3860235.12	0.02139	0.01046	0.0071	0.02831	0.005	0.022	0.0102	0.01046	0.22317832	0.019318843	7.392E-07	1.49E-03	2.33E-03	3.13E-03	7.24E-02	7.11E-02	2.51E-01
712	490186.72	3860235.12	0.02078	0.01081	0.00735	0.02782	0.005	0.022	0.0106	0.01081	0.21681373	0.019965267	7.652E-07	1.47E-03	2.26E-03	3.12E-03	7.50E-02	7.35E-02	2.45E-01
713	490236.72	3860235.12	0.02021	0.01118	0.00743	0.02741	0.005	0.022	0.011	0.01118	0.21086648	0.020648629	7.735E-07	1.44E-03	2.19E-03	3.10E-03	7.77E-02	7.60E-02	2.40E-01
714	490286.72	3860235.12	0.01968	0.01158	0.00742	0.02707	0.005	0.022	0.0114	0.01158	0.20533658	0.021387399	7.725E-07	1.43E-03	2.12E-03	3.09E-03	8.05E-02	7.87E-02	2.35E-01
715	490336.72	3860235.12	0.01921	0.01201	0.00737	0.02681	0.004	0.022	0.0118	0.01201	0.20043271	0.022181577	7.673E-07	1.41E-03	2.06E-03	3.08E-03	8.35E-02	8.17E-02	2.31E-01
716	490386.72	3860235.12	0.01877	0.01247	0.00732	0.02662	0.004	0.022	0.0123	0.01247	0.19584185	0.023031163	7.621E-07	1.40E-03	2.00E-03	3.07E-03	8.68E-02	8.48E-02	2.27E-01
717	490436.72	3860235.12	0.01838	0.01297	0.00728	0.02651	0.004	0.022	0.0128	0.01297	0.19177268	0.023954626	7.579E-07	1.40E-03	1.95E-03	3.07E-03	9.03E-02	8.82E-02	2.24E-01
718	490486.72	3860235.12	0.01802	0.0135	0.00725	0.02645	0.004	0.022	0.0133	0.0135	0.18801652	0.024933497	7.548E-07	1.39E-03	1.90E-03	3.08E-03	9.41E-02	9.18E-02	2.22E-01
719	490536.72	3860235.12	0.01771	0.01411	0.00724	0.02648	0.004	0.022	0.0139	0.01411	0.18478205	0.026060121	7.537E-07	1.39E-03	1.87E-03	3.09E-03	9.83E-02	9.59E-02	2.20E-01
720	490586.72	3860235.12	0.01744	0.01479	0.00722	0.02657	0.004	0.022	0.0145	0.01479	0.18196494	0.027316031	7.516E-07	1.40E-03	1.84E-03	3.10E-03	1.03E-01	1.01E-01	2.18E-01
721	490636.72	3860235.12	0.0172	0.01554	0.00718	0.02671	0.004	0.022	0.0153	0.01554	0.17946083	0.028701225	7.475E-07	1.41E-03	1.81E-03	3.12E-03	1.08E-01	1.06E-01	2.17E-01
722	490686.72	3860235.12	0.01701	0.0164	0.00712	0.0269	0.004	0.022	0.0161	0.0164	0.17747842	0.030289581	7.412E-07	1.42E-03	1.81E-03	3.15E-03	1.14E-01	1.12E-01	2.17E-01
723	490736.72	3860235.12	0.01686	0.01737	0.00704	0.02712	0.004	0.023	0.0171	0.01737	0.17591335	0.032081099	7.329E-07	1.43E-03	1.80E-03	3.18E-03	1.21E-01	1.18E-01	2.17E-01
724	490786.72	3860235.12	0.01675	0.01848	0.00695	0.02737	0.004	0.023	0.0182	0.01848	0.17476564	0.034131186	7.235E-07	1.44E-03	1.79E-03	3.22E-03	1.29E-01	1.26E-01	2.19E-01
725	490086.72	3860285.12	0.02131	0.00949	0.00604	0.02803	0.005	0.022	0.0093	0.00949	0.22234362	0.017527325	6.288E-07	1.48E-03	2.38E-03	3.04E-03	6.56E-02	6.45E-02	2.48E-01
726	490136.72	3860285.12	0.02064	0.00977	0.00638	0.0274	0.005	0.021	0.0096	0.00977	0.215353	0.018044464	6.642E-07	1.44E-03	2.32E-03	3.02E-03	6.77E-02	6.64E-02	2.41E-01
727	490186.72	3860285.12	0.02002	0.01007	0.00665	0.02685	0.005	0.021	0.0099	0.01007	0.20888406	0.018598542	6.923E-07	1.41E-03	2.26E-03	2.99E-03	6.98E-02	6.85E-02	2.35E-01
728	490236.72	3860285.12	0.01946	0.0104	0.00679	0.0264	0.005	0.021	0.0102	0.0104	0.20304115	0.019208027	7.069E-07	1.39E-03	2.19E-03	2.98E-03	7.22E-02	7.07E-02	2.30E-01
729	490286.72	3860285.12	0.01894	0.01074	0.00681	0.026	0.005	0.021	0.0105	0.01074	0.19761559	0.019835982	7.09E-07	1.37E-03	2.12E-03	2.96E-03	7.46E-02	7.30E-02	2.25E-01
730	490336.72	3860285.12	0.01846	0.01111	0.00677	0.02567	0.004	0.021	0.0109	0.01111	0.19260738	0.020519344	7.048E-07	1.35E-03	2.05E-03	2.95E-03	7.73E-02	7.55E-02	2.21E-01
731	490386.72	3860285.12	0.01803	0.01151	0.00673	0.02542	0.004	0.021	0.0113	0.01151	0.18812086	0.021258114	7.006E-07	1.34E-03	1.99E-03	2.94E-03	8.01E-02	7.83E-02	2.18E-01
732	490436.72	3860285.12	0.01764	0.01193	0.00668	0.02521	0.004	0.021	0.0117	0.01193	0.18405169	0.022033823	6.954E-07	1.33E-03	1.94E-03	2.93E-03	8.32E-02	8.11E-02	2.14E-01
733	490486.72	3860285.12	0.01728	0.0124	0.00665	0.02507	0.004	0.021	0.0122	0.0124	0.18029553	0.022901878	6.923E-07	1.32E-03	1.89E-03	2.92E-03	8.64E-02	8.43E-02	2.11E-01
734	490536.72	3860285.12	0.01695	0.0129	0.00662	0.02497	0.004	0.021	0.0127	0.0129	0.17685239	0.023825341	6.892E-07	1.32E-03	1.84E-03	2.92E-03	9.00E-02	8.77E-02	2.09E-01
735	490586.72	3860285.12	0.01667	0.01346	0.00661	0.02493	0.004	0.021	0.0133	0.01346	0.17393093	0.02485962	6.881E-07	1.31E-03	1.81E-03	2.93E-03	9.40E-02	9.15E-02	2.07E-01
736	490636.72	3860285.12	0.01642	0.0141	0.00661	0.02494	0.004	0.021	0.0139	0.0141	0.17132249	0.026041652	6.881E-07	1.31E-03	1.78E-03	2.94E-03	9.83E-02	9.59E-02	2.06E-01
737	490686.72	3860285.12	0.01621	0.01481	0.00659	0.02502	0.004	0.021	0.0146	0.01481	0.1691314	0.027352969	6.861E-07	1.32E-03	1.76E-03	2.95E-03	1.03E-01	1.01E-01	2.05E-01
738	490736.72	3860285.12	0.01603	0.01561	0.00654	0.0251	0.004	0.021	0.0154	0.01561	0.16725332	0.02883051	6.809E-07	1.32E-03	1.75E-03	2.97E-03	1.09E-01	1.06E-01	2.05E-01
739	490786.72	3860285.12	0.01589	0.01653	0.00647	0.02523	0.004	0.021	0.0163	0.01653	0.16579259	0.030529681	6.736E-07	1.33E-03	1.74E-03	2.99E-03	1.15E-01	1.12E-01	2.05E-01
740	490086.72	3860335.12	0.02046	0.00895	0.00546	0.02725	0.005	0.021	0.0087	0.00895	0.21347492	0.016529985	5.684E-07	1.44E-03	2.36E-03	2.93E-03	6.19E-02	6.09E-02	2.38E-01
741	490136.72	3860335.12	0.01981	0.0092	0.00576	0.02658	0.005	0.021	0.009	0.0092	0.20669297	0.016991716	5.997E-07	1.40E-03	2.31E-03	2.90E-03	6.37E-02	6.26E-02	2.31E-01
742	490186.72	3860335.12	0.01921	0.00946	0.00604	0.02599	0.005	0.02	0.0093	0.00946	0.20043271	0.017471917	6.288E-07	1.37E-03	2.25E-03	2.88E-03	6.55E-02	6.43E-02	2.26E-01
743	490236.72	3860335.12	0.01866	0.00974	0.00623	0.02549	0.005	0.02	0.0095	0.00974	0.19469413	0.017989056	6.486E-07	1.34E-03	2.18E-03	2.86E-03	6.76E-02	6.62E-02	2.20E-01
744	490286.72	3860335.12	0.01815	0.01004	0.00628	0.02505	0.005	0.02	0.0098	0.01004	0.18937291	0.018543134	6.538E-07	1.32E-03	2.11E-03	2.84E-03	6.97E-02	6.83E-02	2.16E-01
745	490336.72	3860335.12	0.01768	0.01036	0.00626	0.02467	0.004	0.02	0.0102	0.01036	0.18446904	0.01913415	6.517E-07	1.30E-03	2.05E-03	2.82E-03	7.20E-02	7.04E-02	2.11E-01
746	490386.72	3860335.12	0.01726	0.0107	0.00622	0.02435	0.004	0.02	0.0105	0.0107	0.18008686	0.019762105	6.475E-07	1.28E-03	1.98E-03	2.80E-03	7.45E-02	7.28E-02	2.08E-01
747	490436.72	3860335.12	0.01687	0.01107	0.00617	0.02409	0.004	0.02	0.0109	0.01107	0.17601769	0.020445467	6.423E-07	1.27E-03	1.93E-03	2.79E-03	7.72E-02	7.53E-02	2.04E-01
748	490486.72	3860335.12	0.01652	0.01148	0.00613	0.02387	0.004	0.02	0.0113	0.01148	0.17236587	0.021202707	6.382E-07	1.26E-03	1.87E-03	2.78E-03	8.01E-02	7.81E-02	2.01E-01
749	490536.72	3860335.12	0.0162	0.01192	0.00611	0.02371	0.004	0.02	0.0118	0.01192	0.16902706	0.022015354	6.361E-07	1.25E-03	1.82E-03	2.78E-03	8.33E-02	8.11E-02	1.99E-01
750	490586.72	3860335.12	0.0159	0.0124	0.00609	0.02357	0.004	0.02	0.0122	0.0124	0.16589693	0.022901878	6.34E-07	1.24E-03	1.78E-03	2.78E-03	8.66E-02	8.43E-02	1.97E-01

751	490636.72	3860335.12	0.01565	0.01294	0.00609	0.02348	0.004	0.02	0.0128	0.01294	0.16328849	0.023899218	6.34E-07	1.24E-03	1.75E-03	2.78E-03	9.03E-02	8.80E-02	1.95E-01
752	490686.72	3860335.12	0.01542	0.01354	0.00609	0.02345	0.004	0.02	0.0133	0.01354	0.16088872	0.025007374	6.34E-07	1.24E-03	1.73E-03	2.78E-03	9.45E-02	9.21E-02	1.94E-01
753	490736.72	3860335.12	0.01523	0.01421	0.00608	0.02344	0.004	0.02	0.014	0.01421	0.15890631	0.026244814	6.33E-07	1.23E-03	1.71E-03	2.79E-03	9.93E-02	9.66E-02	1.94E-01
754	490786.72	3860335.12	0.01507	0.01499	0.00605	0.0235	0.004	0.02	0.0148	0.01499	0.1572369	0.027685416	6.298E-07	1.24E-03	1.70E-03	2.81E-03	1.05E-01	1.02E-01	1.93E-01
755	490086.72	3860385.12	0.01951	0.00849	0.00499	0.02654	0.005	0.02	0.0083	0.00849	0.20356284	0.015680399	5.195E-07	1.40E-03	2.34E-03	2.81E-03	5.88E-02	5.77E-02	2.27E-01
756	490136.72	3860385.12	0.01889	0.00871	0.00524	0.02583	0.005	0.02	0.0085	0.00871	0.1970939	0.016086723	5.455E-07	1.36E-03	2.29E-03	2.79E-03	6.04E-02	5.92E-02	2.21E-01
757	490186.72	3860385.12	0.01831	0.00893	0.0055	0.02521	0.005	0.02	0.0087	0.00893	0.19104232	0.016493046	5.726E-07	1.33E-03	2.23E-03	2.76E-03	6.19E-02	6.07E-02	2.15E-01
758	490236.72	3860385.12	0.01779	0.00918	0.00571	0.02467	0.005	0.019	0.009	0.00918	0.18561676	0.016954778	5.944E-07	1.30E-03	2.17E-03	2.74E-03	6.36E-02	6.24E-02	2.10E-01
759	490286.72	3860385.12	0.01731	0.00944	0.00581	0.0242	0.005	0.019	0.0093	0.00944	0.18060855	0.017434978	6.049E-07	1.27E-03	2.11E-03	2.71E-03	6.55E-02	6.42E-02	2.05E-01
760	490336.72	3860385.12	0.01686	0.00972	0.00582	0.02378	0.004	0.019	0.0095	0.00972	0.17591335	0.017952118	6.059E-07	1.25E-03	2.04E-03	2.70E-03	6.75E-02	6.61E-02	2.01E-01
761	490386.72	3860385.12	0.01645	0.01002	0.00578	0.02342	0.004	0.019	0.0098	0.01002	0.1716355	0.018506195	6.017E-07	1.23E-03	1.98E-03	2.68E-03	6.97E-02	6.81E-02	1.98E-01
762	490436.72	3860385.12	0.01608	0.01035	0.00574	0.0231	0.004	0.019	0.0102	0.01035	0.16777501	0.019115681	5.976E-07	1.22E-03	1.92E-03	2.67E-03	7.21E-02	7.04E-02	1.94E-01
763	490486.72	3860385.12	0.01574	0.0107	0.0057	0.02284	0.004	0.019	0.0105	0.0107	0.16422753	0.019762105	5.934E-07	1.20E-03	1.87E-03	2.65E-03	7.47E-02	7.28E-02	1.92E-01
764	490536.72	3860385.12	0.01543	0.01109	0.00567	0.02261	0.004	0.019	0.0109	0.01109	0.16099306	0.020482406	5.903E-07	1.19E-03	1.81E-03	2.65E-03	7.74E-02	7.54E-02	1.89E-01
765	490586.72	3860385.12	0.01514	0.01151	0.00565	0.02242	0.004	0.019	0.0114	0.01151	0.15796727	0.021258114	5.882E-07	1.18E-03	1.77E-03	2.64E-03	8.04E-02	7.83E-02	1.87E-01
766	490636.72	3860385.12	0.01488	0.01197	0.00564	0.02226	0.004	0.019	0.0118	0.01197	0.15525449	0.0221077	5.872E-07	1.17E-03	1.73E-03	2.63E-03	8.37E-02	8.14E-02	1.85E-01
767	490686.72	3860385.12	0.01466	0.01249	0.00565	0.02216	0.004	0.019	0.0123	0.01249	0.15295906	0.023068102	5.882E-07	1.17E-03	1.70E-03	2.64E-03	8.73E-02	8.49E-02	1.84E-01
768	490736.72	3860385.12	0.01445	0.01306	0.00564	0.02207	0.004	0.019	0.0129	0.01306	0.15076797	0.024120849	5.872E-07	1.16E-03	1.67E-03	2.64E-03	9.13E-02	8.88E-02	1.83E-01
769	490786.72	3860385.12	0.01427	0.0137	0.00563	0.02203	0.004	0.019	0.0135	0.0137	0.14888989	0.025302882	5.861E-07	1.16E-03	1.66E-03	2.65E-03	9.58E-02	9.32E-02	1.82E-01
770	490136.72	3860435.12	0.01789	0.0083	0.00479	0.02515	0.005	0.019	0.0081	0.0083	0.18666013	0.015329483	4.987E-07	1.32E-03	2.27E-03	2.66E-03	5.75E-02	5.64E-02	2.09E-01
771	490186.72	3860435.12	0.01736	0.0085	0.00504	0.02451	0.005	0.019	0.0083	0.0085	0.18113023	0.015698868	5.247E-07	1.29E-03	2.22E-03	2.64E-03	5.90E-02	5.78E-02	2.04E-01
772	490236.72	3860435.12	0.01687	0.00871	0.00525	0.02394	0.005	0.019	0.0085	0.00871	0.17601769	0.016086723	5.466E-07	1.26E-03	2.16E-03	2.62E-03	6.04E-02	5.92E-02	1.99E-01
773	490286.72	3860435.12	0.01641	0.00894	0.00539	0.02344	0.004	0.018	0.0088	0.00894	0.17121815	0.016511516	5.611E-07	1.23E-03	2.10E-03	2.59E-03	6.21E-02	6.08E-02	1.95E-01
774	490336.72	3860435.12	0.01599	0.00918	0.00542	0.02299	0.004	0.018	0.009	0.00918	0.16683597	0.016954778	5.643E-07	1.21E-03	2.04E-03	2.57E-03	6.38E-02	6.24E-02	1.91E-01
775	490386.72	3860435.12	0.01561	0.00945	0.00541	0.0226	0.004	0.018	0.0093	0.00945	0.16287114	0.017453448	5.632E-07	1.19E-03	1.98E-03	2.56E-03	6.57E-02	6.43E-02	1.87E-01
776	490436.72	3860435.12	0.01526	0.00973	0.00537	0.02226	0.004	0.018	0.0096	0.00973	0.15921932	0.017970587	5.59E-07	1.17E-03	1.92E-03	2.54E-03	6.78E-02	6.62E-02	1.84E-01
777	490486.72	3860435.12	0.01494	0.01004	0.00532	0.02195	0.004	0.018	0.0099	0.01004	0.15588051	0.018543134	5.538E-07	1.16E-03	1.86E-03	2.53E-03	7.01E-02	6.83E-02	1.82E-01
778	490536.72	3860435.12	0.01464	0.01038	0.00529	0.02168	0.004	0.018	0.0102	0.01038	0.15275038	0.019171088	5.507E-07	1.14E-03	1.81E-03	2.52E-03	7.25E-02	7.06E-02	1.79E-01
779	490586.72	3860435.12	0.01437	0.01075	0.00526	0.02144	0.004	0.018	0.0106	0.01075	0.14993326	0.019854451	5.476E-07	1.13E-03	1.75E-03	2.51E-03	7.51E-02	7.31E-02	1.77E-01
780	490636.72	3860435.12	0.01412	0.01115	0.00524	0.02124	0.004	0.018	0.011	0.01115	0.14732482	0.020593221	5.455E-07	1.12E-03	1.71E-03	2.51E-03	7.79E-02	7.58E-02	1.75E-01
781	490686.72	3860435.12	0.0139	0.0116	0.00524	0.02108	0.004	0.018	0.0115	0.0116	0.14502939	0.021424338	5.455E-07	1.11E-03	1.67E-03	2.50E-03	8.11E-02	7.89E-02	1.74E-01
782	490736.72	3860435.12	0.0137	0.0121	0.00525	0.02096	0.004	0.018	0.012	0.0121	0.14294264	0.022347801	5.466E-07	1.10E-03	1.65E-03	2.50E-03	8.47E-02	8.23E-02	1.73E-01
783	490786.72	3860435.12	0.01351	0.01265	0.00525	0.02085	0.003	0.018	0.0125	0.01265	0.14096022	0.02336361	5.466E-07	1.10E-03	1.62E-03	2.51E-03	8.85E-02	8.60E-02	1.72E-01
784	490136.72	3860485.12	0.01685	0.00796	0.00442	0.02455	0.005	0.018	0.0078	0.00796	0.17580901	0.014701528	4.601E-07	1.29E-03	2.25E-03	2.55E-03	5.52E-02	5.41E-02	1.98E-01
785	490186.72	3860485.12	0.01635	0.00814	0.00463	0.02389	0.005	0.018	0.008	0.00814	0.17059213	0.015033975	4.82E-07	1.26E-03	2.20E-03	2.52E-03	5.64E-02	5.54E-02	1.93E-01
786	490236.72	3860485.12	0.0159	0.00832	0.00484	0.0233	0.005	0.018	0.0082	0.00832	0.16589693	0.015366422	5.039E-07	1.23E-03	2.15E-03	2.50E-03	5.77E-02	5.66E-02	1.88E-01
787	490286.72	3860485.12	0.01549	0.00853	0.005	0.02278	0.004	0.018	0.0084	0.00853	0.16161909	0.015754276	5.205E-07	1.20E-03	2.10E-03	2.48E-03	5.92E-02	5.80E-02	1.84E-01
788	490336.72	3860485.12	0.0151	0.00874	0.00508	0.02231	0.004	0.017	0.0086	0.00874	0.15754992	0.01614213	5.289E-07	1.18E-03	2.04E-03	2.46E-03	6.07E-02	5.94E-02	1.81E-01
789	490386.72	3860485.12	0.01475	0.00897	0.00508	0.0219	0.004	0.017	0.0088	0.00897	0.1538981	0.016566923	5.289E-07	1.15E-03	1.97E-03	2.44E-03	6.24E-02	6.10E-02	1.77E-01
790	490436.72	3860485.12	0.01444	0.00922	0.00506	0.02154	0.004	0.017	0.0091	0.00922	0.15066363	0.017028655	5.268E-07	1.13E-03	1.92E-03	2.43E-03	6.42E-02	6.27E-02	1.75E-01
791	490486.72	3860485.12	0.01413	0.00949	0.00501	0.0212	0.004	0.017	0.0093	0.00949	0.14742916	0.017527325	5.216E-07	1.12E-03	1.86E-03	2.41E-03	6.62E-02	6.45E-02	1.72E-01
792	490536.72	3860485.12	0.01385	0.00978	0.00496	0.02089	0.004	0.017	0.0096	0.00978	0.1445077	0.018062933	5.164E-07	1.10E-03	1.80E-03	2.40E-03	6.83E-02	6.65E-02	1.70E-01
793	490586.72	3860485.12	0.0136	0.0101	0.00492	0.02062	0.004	0.017	0.01	0.0101	0.14189926	0.018653949	5.122E-07	1.09E-03	1.75E-03	2.39E-03	7.06E-02	6.87E-02	1.68E-01
794	490636.72	3860485.12	0.01337	0.01046	0.0049	0.02039	0.004	0.017	0.0103	0.01046	0.1394995	0.019318843	5.101E-07	1.07E-03	1.70E-03	2.39E-03	7.31E-02	7.11E-02	1.66E-01
795	490686.72	3860485.12	0.01315	0.01084	0.00489	0.02017	0.004	0.017	0.0107	0.01084	0.13720407	0.020020674	5.091E-07	1.06E-03	1.66E-03	2.38E-03	7.59E-02	7.37E-02	1.65E-01
796	490736.72	3860485.12	0.01295	0.01127	0.00489	0.02001	0.003	0.017	0.0111	0.01127	0.13511731	0.020814852	5.091E-07	1.05E-03	1.62E-03	2.38E-03	7.89E-02	7.66E-02	1.63E-01
797	490786.72	3860485.12	0.01277	0.01176	0.0049	0.01987	0.003	0.017	0.0116	0.01176	0.13323923	0.021719846	5.101E-07	1.05E-03	1.59E-03	2.38E-03	8.23E-02	8.00E-02	1.62E-01
798	490136.72	3860535.12	0.01576	0.00767	0.00411	0.02402	0.005	0.017	0.0075	0.00767	0.1644362	0.01416592	4.279E-07	1.27E-03	2.22E-03	2.43E-03	5.32E-02	5.22E-02	1.86E-01
799	490186.72	3860535.12	0.01534	0.00783	0.00429	0.02334	0.005	0.017	0.0077	0.00783	0.16005402	0.014461428	4.466E-07	1.23E-03	2.19E-03	2.41E-03	5.43E-02	5.32E-02	1.81E-01
800	490236.72	3860535.12	0.01492	0.008	0.00448	0.02273	0.005	0.017	0.0078	0.008	0.15567184	0.014775405	4.664E-07	1.20E-03	2.14E-03	2.38E-03	5.55E-02	5.44E-02	1.77E-01
801	490286.72	3860535.12	0.01454	0.00817	0.00465	0.0222	0.004	0.017	0.008	0.00817	0.15170701	0.015089383	4.841E-07	1.17E-03	2.08E-03	2.36E-03	5.67E-02	5.56E-02	1.74E-01
802	490336.72	3860535.12	0.0142	0.00837	0.00476	0.02172	0.004	0.017	0.0082	0.00837	0.14815952	0.015458768	4.955E-07	1.14E-03	2.03E-03	2.34E-03	5.81E-02	5.69E-02	1.70E-01
803	490386.72	3860535.12	0.01389	0.00857	0.0048	0.0213	0.004	0.017	0.0084	0.00857	0.14492506	0.015828153	4.997E-07	1.12E-03	1.97E-03	2.33E-03	5.96E-02	5.83E-02	1.67E-01
804	490436.72	3860535.12	0.01361	0.0088	0.00478	0.02092	0.004	0.016	0.0086	0.0088	0.1420036	0.016252946	4.976E-07	1.10E-03	1.92E-03	2.32E-03	6.12E-02	5.98E-02	1.65E-01
805	490486.72	3860535.12	0.01334	0.00904	0.00474	0.02057	0.004	0.016	0.0089	0.00904	0.13918648	0.016696208	4.935E-07	1.08E-03	1.86E-03	2.31E-03	6.29E-02	6.15E-02	1.63E-01
806	490536.72	3860535.12	0.0131	0.0093	0.00472	0.02028	0.004	0.016	0.0092	0.0093	0.13668238	0.017176409	4.914E-07	1.07E-03	1.81E-03	2.30E-03	6.49E-02	6.32E-02	1.61E-01
807	490586.72	3860535.12	0.01285	0.00957	0.00465	0.01993	0.004	0.016	0.0094	0.00957	0.13407394	0.017675079	4.841E-07	1.05E-03	1.74E-03	2.28E-03	6.68E-02	6.51E-02	1.59E-01
808	490636.72	3860535.12	0.01263	0.00987	0.00461	0.01966	0.004	0.016	0.0097	0.00987	0.13177851	0.018229156	4.799E-07	1.04E-03	1.69E-03	2.27E-03	6.90E-02	6.71E-02	1.57E-01

809	490686.72	3860535.12	0.01242	0.01021	0.00459	0.01942	0.004	0.016	0.0101	0.01021	0.12958741	0.018857111	4.778E-07	1.02E-03	1.65E-03	2.27E-03	7.14E-02	6.94E-02	1.55E-01
810	490736.72	3860535.12	0.01223	0.01058	0.00458	0.0192	0.003	0.016	0.0105	0.01058	0.127605	0.019540474	4.768E-07	1.01E-03	1.61E-03	2.26E-03	7.40E-02	7.19E-02	1.54E-01
811	490786.72	3860535.12	0.01206	0.011	0.00458	0.01903	0.003	0.016	0.0109	0.011	0.12583126	0.020316182	4.768E-07	1.00E-03	1.58E-03	2.26E-03	7.70E-02	7.48E-02	1.53E-01
812	490136.72	3860585.12	0.01468	0.00739	0.00385	0.02354	0.005	0.016	0.0073	0.00739	0.15316773	0.013648781	4.008E-07	1.24E-03	2.20E-03	2.32E-03	5.14E-02	5.03E-02	1.74E-01
813	490186.72	3860585.12	0.01426	0.00754	0.00396	0.02284	0.005	0.016	0.0074	0.00754	0.14878555	0.01392582	4.123E-07	1.20E-03	2.15E-03	2.28E-03	5.23E-02	5.13E-02	1.69E-01
814	490236.72	3860585.12	0.01392	0.0077	0.00414	0.02223	0.005	0.016	0.0075	0.0077	0.14523807	0.014221328	4.31E-07	1.17E-03	2.11E-03	2.27E-03	5.34E-02	5.24E-02	1.66E-01
815	490286.72	3860585.12	0.01361	0.00787	0.00433	0.02169	0.004	0.016	0.0077	0.00787	0.1420036	0.014535305	4.508E-07	1.14E-03	2.07E-03	2.25E-03	5.46E-02	5.35E-02	1.63E-01
816	490336.72	3860585.12	0.01331	0.00804	0.00446	0.0212	0.004	0.016	0.0079	0.00804	0.13887347	0.014849282	4.643E-07	1.12E-03	2.02E-03	2.23E-03	5.58E-02	5.47E-02	1.60E-01
817	490386.72	3860585.12	0.01303	0.00823	0.00452	0.02075	0.004	0.016	0.0081	0.00823	0.13595201	0.015200198	4.706E-07	1.09E-03	1.97E-03	2.22E-03	5.72E-02	5.60E-02	1.58E-01
818	490436.72	3860585.12	0.01279	0.00844	0.00455	0.02038	0.004	0.016	0.0083	0.00844	0.13344791	0.015588053	4.737E-07	1.07E-03	1.92E-03	2.21E-03	5.87E-02	5.74E-02	1.56E-01
819	490486.72	3860585.12	0.01257	0.00865	0.00454	0.02004	0.004	0.016	0.0085	0.00865	0.13115248	0.015975907	4.726E-07	1.06E-03	1.87E-03	2.21E-03	6.02E-02	5.88E-02	1.54E-01
820	490536.72	3860585.12	0.01234	0.00888	0.00448	0.01969	0.004	0.016	0.0087	0.00888	0.12875271	0.0164007	4.664E-07	1.04E-03	1.81E-03	2.20E-03	6.19E-02	6.04E-02	1.52E-01
821	490586.72	3860585.12	0.0121	0.00912	0.0044	0.01932	0.004	0.015	0.009	0.00912	0.12624861	0.016843962	4.581E-07	1.02E-03	1.74E-03	2.18E-03	6.36E-02	6.20E-02	1.50E-01
822	490636.72	3860585.12	0.0119	0.00938	0.00436	0.01903	0.004	0.015	0.0093	0.00938	0.12416185	0.017324163	4.539E-07	1.00E-03	1.69E-03	2.17E-03	6.55E-02	6.38E-02	1.48E-01
823	490686.72	3860585.12	0.01172	0.00968	0.00433	0.01876	0.004	0.015	0.0096	0.00968	0.12228378	0.017878241	4.508E-07	9.88E-04	1.64E-03	2.16E-03	6.77E-02	6.58E-02	1.47E-01
824	490736.72	3860585.12	0.01154	0.01	0.00432	0.01852	0.003	0.015	0.0099	0.01	0.1204057	0.018469257	4.497E-07	9.76E-04	1.60E-03	2.16E-03	7.00E-02	6.80E-02	1.46E-01
825	490786.72	3860585.12	0.01138	0.01036	0.0043	0.0183	0.003	0.015	0.0102	0.01036	0.11873629	0.01913415	4.477E-07	9.64E-04	1.56E-03	2.16E-03	7.25E-02	7.04E-02	1.45E-01
826	490136.72	3860635.12	0.01363	0.00712	0.00364	0.02309	0.005	0.016	0.007	0.00712	0.14221228	0.013150111	3.789E-07	1.22E-03	2.19E-03	2.21E-03	4.95E-02	4.84E-02	1.62E-01
827	490186.72	3860635.12	0.01328	0.00727	0.00373	0.02241	0.005	0.016	0.0071	0.00727	0.13856046	0.01342715	3.883E-07	1.18E-03	2.14E-03	2.19E-03	5.05E-02	4.94E-02	1.59E-01
828	490236.72	3860635.12	0.01296	0.00742	0.00386	0.02179	0.004	0.015	0.0073	0.00742	0.13522165	0.013704188	4.018E-07	1.15E-03	2.10E-03	2.16E-03	5.15E-02	5.05E-02	1.55E-01
829	490286.72	3860635.12	0.01268	0.00758	0.00403	0.02123	0.004	0.015	0.0074	0.00758	0.13230019	0.013999697	4.195E-07	1.12E-03	2.05E-03	2.14E-03	5.26E-02	5.15E-02	1.53E-01
830	490336.72	3860635.12	0.01243	0.00775	0.00417	0.02073	0.004	0.015	0.0076	0.00775	0.12969175	0.014313674	4.341E-07	1.09E-03	2.01E-03	2.13E-03	5.38E-02	5.27E-02	1.50E-01
831	490386.72	3860635.12	0.01219	0.00792	0.00427	0.02028	0.004	0.015	0.0078	0.00792	0.12718765	0.014627651	4.445E-07	1.07E-03	1.96E-03	2.12E-03	5.50E-02	5.39E-02	1.48E-01
832	490436.72	3860635.12	0.01197	0.00811	0.00429	0.01986	0.004	0.015	0.008	0.00811	0.12489222	0.014978567	4.466E-07	1.05E-03	1.91E-03	2.10E-03	5.63E-02	5.51E-02	1.46E-01
833	490486.72	3860635.12	0.01176	0.00831	0.00427	0.01948	0.004	0.015	0.0082	0.00831	0.12270113	0.015347952	4.445E-07	1.03E-03	1.86E-03	2.09E-03	5.77E-02	5.65E-02	1.44E-01
834	490536.72	3860635.12	0.01158	0.00852	0.00424	0.01914	0.004	0.015	0.0084	0.00852	0.12082305	0.015735807	4.414E-07	1.01E-03	1.81E-03	2.09E-03	5.93E-02	5.79E-02	1.43E-01
835	490586.72	3860635.12	0.01138	0.00874	0.00419	0.01879	0.004	0.015	0.0086	0.00874	0.11873629	0.01614213	4.362E-07	9.90E-04	1.74E-03	2.08E-03	6.09E-02	5.94E-02	1.41E-01
836	490636.72	3860635.12	0.01121	0.00898	0.00415	0.01849	0.004	0.015	0.0088	0.00898	0.11696255	0.016585393	4.32E-07	9.74E-04	1.69E-03	2.07E-03	6.26E-02	6.11E-02	1.40E-01
837	490686.72	3860635.12	0.01104	0.00924	0.00412	0.0182	0.004	0.015	0.0091	0.00924	0.11518881	0.017065593	4.289E-07	9.59E-04	1.64E-03	2.07E-03	6.45E-02	6.28E-02	1.39E-01
838	490736.72	3860635.12	0.01088	0.00951	0.00409	0.01792	0.003	0.015	0.0094	0.00951	0.11351941	0.017564263	4.258E-07	9.44E-04	1.59E-03	2.06E-03	6.65E-02	6.47E-02	1.38E-01
839	490786.72	3860635.12	0.01073	0.00983	0.00407	0.01769	0.003	0.015	0.0097	0.00983	0.11195434	0.018155279	4.237E-07	9.32E-04	1.55E-03	2.06E-03	6.88E-02	6.68E-02	1.37E-01
840	490136.72	3860685.12	0.01259	0.00685	0.00343	0.02271	0.005	0.015	0.0067	0.00685	0.13136116	0.012651441	3.571E-07	1.20E-03	2.15E-03	2.10E-03	4.76E-02	4.66E-02	1.50E-01
841	490186.72	3860685.12	0.01234	0.00699	0.00353	0.022	0.005	0.015	0.0069	0.00699	0.12875271	0.01291001	3.675E-07	1.16E-03	2.13E-03	2.09E-03	4.86E-02	4.75E-02	1.48E-01
842	490236.72	3860685.12	0.01206	0.00714	0.00363	0.02139	0.004	0.015	0.007	0.00714	0.12583126	0.013187049	3.779E-07	1.13E-03	2.09E-03	2.07E-03	4.96E-02	4.86E-02	1.45E-01
843	490286.72	3860685.12	0.01179	0.00729	0.00375	0.02081	0.004	0.014	0.0071	0.00729	0.12301414	0.013464088	3.904E-07	1.10E-03	2.04E-03	2.04E-03	5.06E-02	4.96E-02	1.43E-01
844	490336.72	3860685.12	0.01158	0.00746	0.00391	0.02031	0.004	0.014	0.0073	0.00746	0.12082305	0.013778066	4.071E-07	1.07E-03	2.00E-03	2.03E-03	5.18E-02	5.07E-02	1.41E-01
845	490386.72	3860685.12	0.01138	0.00762	0.00402	0.01985	0.004	0.014	0.0075	0.00762	0.11873629	0.014073574	4.185E-07	1.05E-03	1.95E-03	2.02E-03	5.29E-02	5.18E-02	1.39E-01
846	490436.72	3860685.12	0.01119	0.0078	0.00407	0.01942	0.004	0.014	0.0076	0.0078	0.11675388	0.01440602	4.237E-07	1.02E-03	1.90E-03	2.00E-03	5.41E-02	5.30E-02	1.37E-01
847	490486.72	3860685.12	0.011	0.00798	0.00406	0.01902	0.004	0.014	0.0078	0.00798	0.11477146	0.014738467	4.227E-07	1.00E-03	1.85E-03	1.99E-03	5.55E-02	5.43E-02	1.36E-01
848	490536.72	3860685.12	0.01084	0.00818	0.00404	0.01865	0.004	0.014	0.008	0.00818	0.11310206	0.015107852	4.206E-07	9.82E-04	1.80E-03	1.99E-03	5.69E-02	5.56E-02	1.34E-01
849	490586.72	3860685.12	0.01068	0.00839	0.004	0.01831	0.004	0.014	0.0082	0.00839	0.11143266	0.015495706	4.164E-07	9.64E-04	1.74E-03	1.98E-03	5.84E-02	5.71E-02	1.33E-01
850	490636.72	3860685.12	0.01053	0.00861	0.00396	0.018	0.004	0.014	0.0085	0.00861	0.10986759	0.01590203	4.123E-07	9.48E-04	1.69E-03	1.98E-03	6.00E-02	5.85E-02	1.32E-01
851	490686.72	3860685.12	0.01039	0.00885	0.00393	0.01771	0.004	0.014	0.0087	0.00885	0.10840686	0.016345292	4.091E-07	9.33E-04	1.65E-03	1.97E-03	6.18E-02	6.02E-02	1.31E-01
852	490736.72	3860685.12	0.01025	0.00911	0.0039	0.01743	0.003	0.014	0.009	0.00911	0.10694613	0.016825493	4.06E-07	9.18E-04	1.59E-03	1.97E-03	6.36E-02	6.19E-02	1.30E-01
853	490786.72	3860685.12	0.01012	0.00939	0.00388	0.01719	0.003	0.014	0.0093	0.00939	0.10558974	0.017342632	4.039E-07	9.05E-04	1.55E-03	1.97E-03	6.57E-02	6.39E-02	1.29E-01
854	490136.72	3860735.12	0.01156	0.00659	0.00322	0.02238	0.004	0.014	0.0065	0.00659	0.12061437	0.01217124	3.352E-07	1.18E-03	2.09E-03	1.99E-03	4.58E-02	4.48E-02	1.39E-01
855	490186.72	3860735.12	0.01134	0.00672	0.00328	0.02166	0.004	0.014	0.0066	0.00672	0.11831894	0.012411341	3.415E-07	1.14E-03	2.07E-03	1.97E-03	4.67E-02	4.57E-02	1.37E-01
856	490236.72	3860735.12	0.01113	0.00686	0.00338	0.02102	0.004	0.014	0.0067	0.00686	0.11612785	0.01266991	3.519E-07	1.11E-03	2.04E-03	1.95E-03	4.76E-02	4.66E-02	1.35E-01
857	490286.72	3860735.12	0.01094	0.007	0.00352	0.02045	0.004	0.014	0.0069	0.007	0.11414544	0.01292848	3.665E-07	1.08E-03	2.01E-03	1.94E-03	4.87E-02	4.76E-02	1.33E-01
858	490336.72	3860735.12	0.01076	0.00716	0.00366	0.01993	0.004	0.014	0.007	0.00716	0.11226736	0.013223988	3.81E-07	1.05E-03	1.98E-03	1.93E-03	4.97E-02	4.87E-02	1.32E-01
859	490386.72	3860735.12	0.0106	0.00732	0.00379	0.01945	0.004	0.014	0.0072	0.00732	0.11059795	0.013519496	3.946E-07	1.02E-03	1.94E-03	1.92E-03	5.09E-02	4.98E-02	1.30E-01
860	490436.72	3860735.12	0.01046	0.0075	0.00389	0.01904	0.004	0.014	0.0074	0.0075	0.10913723	0.013851943	4.05E-07	1.00E-03	1.90E-03	1.92E-03	5.21E-02	5.10E-02	1.29E-01
861	490486.72	3860735.12	0.0103	0.00767	0.0039	0.01863	0.004	0.014	0.0075	0.00767	0.10746782	0.01416592	4.06E-07	9.81E-04	1.85E-03	1.90E-03	5.34E-02	5.22E-02	1.28E-01
862	490536.72	3860735.12	0.01014	0.00785	0.00386	0.01823	0.004	0.013	0.0077	0.00785	0.10579842	0.014498367	4.018E-07	9.60E-04	1.79E-03	1.89E-03	5.46E-02	5.34E-02	1.26E-01
863	490586.72	3860735.12	0.01	0.00805	0.00382	0.01788	0.004	0.013	0.0079	0.00805	0.10433769	0.014867752	3.977E-07	9.42E-04	1.74E-03	1.89E-03	5.60E-02	5.47E-02	1.25E-01
864	490636.72	3860735.12	0.00987	0.00826	0.00378	0.01755	0.004	0.013	0.0081	0.00826	0.1029813	0.015255606	3.935E-07	9.24E-04	1.69E-03	1.88E-03	5.75E-02	5.62E-02	1.24E-01
865	490686.72	3860735.12	0.00976	0.00849	0.00375	0.01726	0.004	0.013	0.0084	0.00849	0.10183359	0.015680399	3.904E-07	9.09E-04	1.64E-03	1.88E-03	5.92E-02	5.77E-02	1.23E-01
866	490736.72	3860735.12	0.00964	0.00873	0.00373	0.01699	0.003	0.013	0.0086	0.00873	0.10058154	0.016123661	3.883E-07	8.95E-04	1.59E-03	1.88E-03	6.10E-02	5.94E-02	1.23E-01

867	490136.72	3860785.12	0.01062	0.00632	0.00305	0.02206	0.004	0.013	0.0062	0.00632	0.11080663	0.01167257	3.175E-07	1.16E-03	2.04E-03	1.89E-03	4.39E-02	4.30E-02	1.29E-01
868	490186.72	3860785.12	0.01045	0.00645	0.0031	0.02134	0.004	0.013	0.0063	0.00645	0.10903289	0.011912671	3.227E-07	1.12E-03	2.03E-03	1.87E-03	4.48E-02	4.39E-02	1.27E-01
869	490236.72	3860785.12	0.01028	0.00658	0.00318	0.02069	0.004	0.013	0.0065	0.00658	0.10725915	0.012152771	3.311E-07	1.09E-03	2.01E-03	1.86E-03	4.57E-02	4.47E-02	1.25E-01
870	490286.72	3860785.12	0.01013	0.00672	0.00329	0.0201	0.004	0.013	0.0066	0.00672	0.10569408	0.012411341	3.425E-07	1.06E-03	1.98E-03	1.84E-03	4.67E-02	4.57E-02	1.24E-01
871	490336.72	3860785.12	0.00998	0.00686	0.00343	0.01957	0.004	0.013	0.0067	0.00686	0.10412902	0.01266991	3.571E-07	1.03E-03	1.96E-03	1.83E-03	4.77E-02	4.66E-02	1.23E-01
872	490386.72	3860785.12	0.00986	0.00702	0.00357	0.0191	0.004	0.013	0.0069	0.00702	0.10287696	0.012965418	3.717E-07	1.01E-03	1.92E-03	1.83E-03	4.87E-02	4.77E-02	1.22E-01
873	490436.72	3860785.12	0.00973	0.00718	0.00366	0.01866	0.004	0.013	0.007	0.00718	0.10152057	0.013260926	3.81E-07	9.83E-04	1.88E-03	1.82E-03	4.99E-02	4.88E-02	1.21E-01
874	490486.72	3860785.12	0.00961	0.00736	0.00372	0.01826	0.004	0.013	0.0072	0.00736	0.10026852	0.013593373	3.873E-07	9.62E-04	1.84E-03	1.81E-03	5.12E-02	5.00E-02	1.20E-01
875	490536.72	3860785.12	0.00948	0.00753	0.00371	0.01787	0.004	0.013	0.0074	0.00753	0.09891213	0.01390735	3.862E-07	9.41E-04	1.79E-03	1.80E-03	5.24E-02	5.12E-02	1.19E-01
876	490586.72	3860785.12	0.00936	0.00771	0.00366	0.01749	0.004	0.013	0.0076	0.00771	0.09766008	0.014239797	3.81E-07	9.21E-04	1.74E-03	1.80E-03	5.36E-02	5.24E-02	1.18E-01
877	490636.72	3860785.12	0.00925	0.00791	0.00362	0.01715	0.004	0.013	0.0078	0.00791	0.09651237	0.014609182	3.769E-07	9.03E-04	1.69E-03	1.79E-03	5.51E-02	5.38E-02	1.17E-01
878	490686.72	3860785.12	0.00915	0.00812	0.00359	0.01685	0.004	0.013	0.008	0.00812	0.09546899	0.014997036	3.737E-07	8.88E-04	1.64E-03	1.79E-03	5.66E-02	5.52E-02	1.16E-01
879	490736.72	3860785.12	0.00905	0.00836	0.00356	0.01657	0.003	0.013	0.0082	0.00836	0.09442561	0.015440299	3.706E-07	8.73E-04	1.59E-03	1.79E-03	5.83E-02	5.68E-02	1.16E-01
880	490086.72	3860835.12	0.00989	0.00596	0.0029	0.02259	0.004	0.013	0.0059	0.00596	0.10318998	0.011007677	3.019E-07	1.19E-03	2.00E-03	1.80E-03	4.14E-02	4.05E-02	1.20E-01
881	490136.72	3860835.12	0.00976	0.00608	0.00291	0.02178	0.004	0.013	0.006	0.00608	0.10183359	0.011229308	3.029E-07	1.15E-03	2.01E-03	1.79E-03	4.23E-02	4.13E-02	1.19E-01
882	490186.72	3860835.12	0.00962	0.00619	0.00294	0.02104	0.004	0.013	0.0061	0.00619	0.10037286	0.01143247	3.061E-07	1.11E-03	1.99E-03	1.78E-03	4.31E-02	4.21E-02	1.18E-01
883	490236.72	3860835.12	0.00949	0.00632	0.003	0.02038	0.004	0.013	0.0062	0.00632	0.09901647	0.01167257	3.123E-07	1.07E-03	1.98E-03	1.76E-03	4.39E-02	4.30E-02	1.16E-01
884	490286.72	3860835.12	0.00937	0.00645	0.0031	0.01979	0.004	0.012	0.0063	0.00645	0.09776442	0.011912671	3.227E-07	1.04E-03	1.96E-03	1.75E-03	4.49E-02	4.39E-02	1.15E-01
885	490336.72	3860835.12	0.00925	0.00658	0.00322	0.01925	0.004	0.012	0.0065	0.00658	0.09651237	0.012152771	3.352E-07	1.01E-03	1.93E-03	1.74E-03	4.58E-02	4.47E-02	1.14E-01
886	490386.72	3860835.12	0.00914	0.00673	0.00335	0.01877	0.004	0.012	0.0066	0.00673	0.09536465	0.01242981	3.488E-07	9.89E-04	1.90E-03	1.73E-03	4.68E-02	4.58E-02	1.13E-01
887	490436.72	3860835.12	0.00904	0.00688	0.00346	0.01833	0.004	0.012	0.0068	0.00688	0.09432127	0.012706849	3.602E-07	9.66E-04	1.87E-03	1.73E-03	4.78E-02	4.68E-02	1.13E-01
888	490486.72	3860835.12	0.00895	0.00705	0.00353	0.01792	0.004	0.012	0.0069	0.00705	0.09338223	0.013020826	3.675E-07	9.44E-04	1.83E-03	1.72E-03	4.90E-02	4.79E-02	1.12E-01
889	490536.72	3860835.12	0.00885	0.00721	0.00355	0.01753	0.004	0.012	0.0071	0.00721	0.09233886	0.013316334	3.696E-07	9.23E-04	1.79E-03	1.72E-03	5.01E-02	4.90E-02	1.11E-01
890	490586.72	3860835.12	0.00875	0.00739	0.00353	0.01716	0.004	0.012	0.0073	0.00739	0.09129548	0.013648781	3.675E-07	9.04E-04	1.74E-03	1.71E-03	5.14E-02	5.03E-02	1.10E-01
891	490636.72	3860835.12	0.00866	0.00757	0.00349	0.01681	0.004	0.012	0.0074	0.00757	0.09035644	0.013981227	3.633E-07	8.85E-04	1.69E-03	1.70E-03	5.26E-02	5.15E-02	1.10E-01
892	490686.72	3860835.12	0.00857	0.00777	0.00345	0.01649	0.004	0.012	0.0076	0.00777	0.0894174	0.014350612	3.592E-07	8.69E-04	1.64E-03	1.70E-03	5.41E-02	5.28E-02	1.09E-01
893	490736.72	3860835.12	0.00849	0.00799	0.00342	0.0162	0.003	0.012	0.0079	0.00799	0.0885827	0.014756936	3.56E-07	8.53E-04	1.59E-03	1.70E-03	5.57E-02	5.43E-02	1.09E-01
894	490086.72	3860885.12	0.00907	0.00575	0.00278	0.02233	0.004	0.012	0.0057	0.00575	0.09463429	0.010619823	2.894E-07	1.18E-03	1.96E-03	1.71E-03	4.00E-02	3.91E-02	1.11E-01
895	490136.72	3860885.12	0.00896	0.00586	0.00278	0.02151	0.004	0.012	0.0058	0.00586	0.09348657	0.010822984	2.894E-07	1.13E-03	1.96E-03	1.70E-03	4.07E-02	3.98E-02	1.10E-01
896	490186.72	3860885.12	0.00886	0.00596	0.0028	0.02077	0.004	0.012	0.0059	0.00596	0.0924432	0.011007677	2.915E-07	1.09E-03	1.96E-03	1.69E-03	4.15E-02	4.05E-02	1.09E-01
897	490236.72	3860885.12	0.00876	0.00608	0.00285	0.0201	0.004	0.012	0.006	0.00608	0.09139982	0.011229308	2.967E-07	1.06E-03	1.95E-03	1.67E-03	4.23E-02	4.13E-02	1.08E-01
898	490286.72	3860885.12	0.00866	0.0062	0.00293	0.01951	0.004	0.012	0.0061	0.0062	0.09035644	0.011450939	3.05E-07	1.03E-03	1.93E-03	1.66E-03	4.31E-02	4.22E-02	1.07E-01
899	490336.72	3860885.12	0.00857	0.00633	0.00303	0.01897	0.004	0.012	0.0062	0.00633	0.0894174	0.01169104	3.154E-07	9.99E-04	1.90E-03	1.65E-03	4.39E-02	4.30E-02	1.07E-01
900	490386.72	3860885.12	0.00849	0.00646	0.00316	0.01848	0.004	0.012	0.0063	0.00646	0.0885827	0.01193114	3.29E-07	9.73E-04	1.88E-03	1.65E-03	4.49E-02	4.39E-02	1.06E-01
901	490436.72	3860885.12	0.00841	0.0066	0.00327	0.01803	0.004	0.012	0.0065	0.0066	0.087748	0.012189709	3.404E-07	9.50E-04	1.85E-03	1.64E-03	4.58E-02	4.49E-02	1.05E-01
902	490486.72	3860885.12	0.00833	0.00675	0.00336	0.01761	0.004	0.012	0.0066	0.00675	0.0869133	0.012466748	3.498E-07	9.28E-04	1.81E-03	1.64E-03	4.69E-02	4.59E-02	1.05E-01
903	490536.72	3860885.12	0.00825	0.00691	0.0034	0.01722	0.004	0.012	0.0068	0.00691	0.0860786	0.012762256	3.54E-07	9.07E-04	1.78E-03	1.63E-03	4.80E-02	4.70E-02	1.04E-01
904	490586.72	3860885.12	0.00818	0.00707	0.0034	0.01685	0.004	0.012	0.0069	0.00707	0.08534823	0.013057765	3.54E-07	8.88E-04	1.73E-03	1.62E-03	4.91E-02	4.81E-02	1.04E-01
905	490636.72	3860885.12	0.0081	0.00724	0.00337	0.01649	0.004	0.012	0.0071	0.00724	0.08451353	0.013371742	3.508E-07	8.69E-04	1.68E-03	1.62E-03	5.04E-02	4.92E-02	1.03E-01
906	490686.72	3860885.12	0.00803	0.00743	0.00333	0.01616	0.003	0.011	0.0073	0.00743	0.08378317	0.013722658	3.467E-07	8.51E-04	1.64E-03	1.61E-03	5.17E-02	5.05E-02	1.03E-01
907	490736.72	3860885.12	0.00796	0.00762	0.00329	0.01585	0.003	0.011	0.0075	0.00762	0.0830528	0.014073574	3.425E-07	8.35E-04	1.59E-03	1.61E-03	5.31E-02	5.18E-02	1.02E-01
908	490086.72	3860935.12	0.00831	0.00555	0.00266	0.02208	0.004	0.012	0.0055	0.00555	0.08670462	0.010250437	2.769E-07	1.16E-03	1.91E-03	1.62E-03	3.87E-02	3.77E-02	1.03E-01
909	490136.72	3860935.12	0.00823	0.00565	0.00266	0.02124	0.004	0.011	0.0056	0.00565	0.08586992	0.01043513	2.769E-07	1.12E-03	1.91E-03	1.61E-03	3.93E-02	3.84E-02	1.02E-01
910	490186.72	3860935.12	0.00815	0.00575	0.00267	0.02051	0.004	0.011	0.0057	0.00575	0.08503522	0.010619823	2.78E-07	1.08E-03	1.91E-03	1.60E-03	4.00E-02	3.91E-02	1.01E-01
911	490236.72	3860935.12	0.00808	0.00586	0.00271	0.01985	0.004	0.011	0.0058	0.00586	0.08430486	0.010822984	2.821E-07	1.05E-03	1.91E-03	1.59E-03	4.08E-02	3.98E-02	1.01E-01
912	490286.72	3860935.12	0.00801	0.00598	0.00278	0.01926	0.004	0.011	0.0059	0.00598	0.08357449	0.011044616	2.894E-07	1.01E-03	1.90E-03	1.58E-03	4.16E-02	4.07E-02	1.00E-01
913	490336.72	3860935.12	0.00794	0.00609	0.00287	0.01871	0.004	0.011	0.006	0.00609	0.08284413	0.011247777	2.988E-07	9.86E-04	1.88E-03	1.57E-03	4.24E-02	4.14E-02	9.95E-02
914	490386.72	3860935.12	0.00788	0.00622	0.00298	0.01822	0.004	0.011	0.0061	0.00622	0.0822181	0.011487878	3.102E-07	9.60E-04	1.86E-03	1.56E-03	4.32E-02	4.23E-02	9.90E-02
915	490436.72	3860935.12	0.00782	0.00635	0.0031	0.01776	0.004	0.011	0.0062	0.00635	0.08159208	0.011727978	3.227E-07	9.35E-04	1.83E-03	1.56E-03	4.41E-02	4.32E-02	9.86E-02
916	490486.72	3860935.12	0.00775	0.00649	0.00319	0.01734	0.004	0.011	0.0064	0.00649	0.08086171	0.011986548	3.321E-07	9.13E-04	1.80E-03	1.55E-03	4.51E-02	4.41E-02	9.80E-02
917	490536.72	3860935.12	0.00769	0.00663	0.00325	0.01694	0.004	0.011	0.0065	0.00663	0.08023569	0.012245117	3.383E-07	8.92E-04	1.76E-03	1.55E-03	4.61E-02	4.51E-02	9.77E-02
918	490586.72	3860935.12	0.00763	0.00678	0.00327	0.01656	0.004	0.011	0.0067	0.00678	0.07960966	0.012522156	3.404E-07	8.72E-04	1.73E-03	1.54E-03	4.71E-02	4.61E-02	9.73E-02
919	490636.72	3860935.12	0.00757	0.00694	0.00325	0.0162	0.004	0.011	0.0068	0.00694	0.07898363	0.012817664	3.383E-07	8.53E-04	1.68E-03	1.54E-03	4.82E-02	4.72E-02	9.69E-02
920	490686.72	3860935.12	0.00751	0.00711	0.00322	0.01587	0.003	0.011	0.007	0.00711	0.07835761	0.013131642	3.352E-07	8.36E-04	1.64E-03	1.53E-03	4.94E-02	4.83E-02	9.65E-02
921	490736.72	3860935.12	0.00746	0.00729	0.00318	0.01556	0.003	0.011	0.0072	0.00729	0.07783592	0.013464088	3.311E-07	8.20E-04	1.59E-03	1.53E-03	5.07E-02	4.96E-02	9.63E-02
922	490786.72	3860935.12	0.0074	0.00748	0.00315	0.01527	0.003	0.011	0.0074	0.00748	0.07720989	0.013815004	3.279E-07	8.04E-04	1.55E-03	1.53E-03	5.21E-02	5.09E-02	9.61E-02
923	490836.72	3860935.12	0.00735	0.00769	0.00312	0.01501	0.003	0.011	0.0076	0.00769	0.0766882	0.014202858	3.248E-07	7.91E-04	1.51E-03	1.53E-03	5.36E-02	5.23E-02	9.61E-02
924	490086.72	3860985.12	0.00764	0.00538	0.00256	0.02186	0.004	0.011	0.0053	0.00538	0.079714	0.00993646	2.665E-07	1.15E-03	1.86E-03	1.53E-03	3.75E-02	3.66E-02	9.51E-02

925	490136.72	3860985.12	0.00758	0.00547	0.00255	0.02103	0.004	0.011	0.0054	0.00547	0.07908797	0.010102683	2.655E-07	1.11E-03	1.87E-03	1.52E-03	3.81E-02	3.72E-02	9.46E-02
926	490186.72	3860985.12	0.00752	0.00557	0.00256	0.0203	0.004	0.011	0.0055	0.00557	0.07846194	0.010287376	2.665E-07	1.07E-03	1.88E-03	1.52E-03	3.88E-02	3.79E-02	9.41E-02
927	490236.72	3860985.12	0.00747	0.00567	0.00259	0.01962	0.004	0.011	0.0056	0.00567	0.07794026	0.010472069	2.696E-07	1.03E-03	1.88E-03	1.51E-03	3.95E-02	3.86E-02	9.37E-02
928	490286.72	3860985.12	0.00741	0.00577	0.00264	0.01902	0.004	0.011	0.0057	0.00577	0.07731423	0.010656761	2.748E-07	1.00E-03	1.87E-03	1.50E-03	4.01E-02	3.92E-02	9.32E-02
929	490336.72	3860985.12	0.00736	0.00588	0.00272	0.01847	0.004	0.011	0.0058	0.00588	0.07679254	0.010859923	2.832E-07	9.73E-04	1.85E-03	1.49E-03	4.09E-02	4.00E-02	9.29E-02
930	490386.72	3860985.12	0.00731	0.00599	0.00282	0.01797	0.004	0.011	0.0059	0.00599	0.07627085	0.011063085	2.936E-07	9.47E-04	1.83E-03	1.49E-03	4.17E-02	4.07E-02	9.25E-02
931	490436.72	3860985.12	0.00727	0.00612	0.00293	0.01751	0.004	0.011	0.006	0.00612	0.0758535	0.011303185	3.05E-07	9.22E-04	1.81E-03	1.48E-03	4.25E-02	4.16E-02	9.23E-02
932	490486.72	3860985.12	0.00722	0.00624	0.00303	0.01708	0.004	0.01	0.0061	0.00624	0.07533181	0.011524816	3.154E-07	9.00E-04	1.78E-03	1.48E-03	4.34E-02	4.24E-02	9.19E-02
933	490536.72	3860985.12	0.00717	0.00637	0.0031	0.01667	0.004	0.01	0.0063	0.00637	0.07481013	0.011764917	3.227E-07	8.78E-04	1.75E-03	1.47E-03	4.43E-02	4.33E-02	9.16E-02
934	490586.72	3860985.12	0.00712	0.00651	0.00314	0.01629	0.004	0.01	0.0064	0.00651	0.07428844	0.012023486	3.269E-07	8.58E-04	1.72E-03	1.46E-03	4.52E-02	4.43E-02	9.13E-02
935	490636.72	3860985.12	0.00708	0.00666	0.00314	0.01594	0.004	0.01	0.0065	0.00666	0.07387109	0.012300525	3.269E-07	8.40E-04	1.68E-03	1.46E-03	4.63E-02	4.53E-02	9.11E-02
936	490686.72	3860985.12	0.00703	0.00681	0.00312	0.01561	0.003	0.01	0.0067	0.00681	0.0733494	0.012577564	3.248E-07	8.22E-04	1.64E-03	1.46E-03	4.73E-02	4.63E-02	9.09E-02
937	490736.72	3860985.12	0.00698	0.00697	0.00308	0.01529	0.003	0.01	0.0068	0.00697	0.07282771	0.012873072	3.206E-07	8.05E-04	1.59E-03	1.45E-03	4.85E-02	4.74E-02	9.06E-02
938	490786.72	3860985.12	0.00694	0.00715	0.00305	0.015	0.003	0.01	0.007	0.00715	0.07241036	0.013205519	3.175E-07	7.90E-04	1.55E-03	1.45E-03	4.97E-02	4.86E-02	9.05E-02
939	490836.72	3860985.12	0.0069	0.00734	0.00302	0.01474	0.003	0.01	0.0072	0.00734	0.07199301	0.013556434	3.144E-07	7.76E-04	1.51E-03	1.45E-03	5.12E-02	4.99E-02	9.05E-02
940	490086.72	3861035.12	0.00703	0.00521	0.00247	0.02165	0.004	0.01	0.0051	0.00521	0.0733494	0.009622483	2.571E-07	1.14E-03	1.81E-03	1.45E-03	3.63E-02	3.54E-02	8.83E-02
941	490136.72	3861035.12	0.00699	0.0053	0.00246	0.02082	0.004	0.01	0.0052	0.0053	0.07293205	0.009788706	2.561E-07	1.10E-03	1.83E-03	1.44E-03	3.70E-02	3.60E-02	8.80E-02
942	490186.72	3861035.12	0.00695	0.00539	0.00246	0.02008	0.004	0.01	0.0053	0.00539	0.0725147	0.009954929	2.561E-07	1.06E-03	1.84E-03	1.43E-03	3.76E-02	3.67E-02	8.77E-02
943	490236.72	3861035.12	0.00691	0.00549	0.00248	0.01941	0.004	0.01	0.0054	0.00549	0.07209735	0.010139622	2.582E-07	1.02E-03	1.84E-03	1.43E-03	3.82E-02	3.73E-02	8.74E-02
944	490286.72	3861035.12	0.00687	0.00558	0.00252	0.0188	0.004	0.01	0.0055	0.00558	0.07167999	0.010305845	2.623E-07	9.90E-04	1.83E-03	1.42E-03	3.88E-02	3.79E-02	8.71E-02
945	490336.72	3861035.12	0.00683	0.00568	0.00258	0.01824	0.004	0.01	0.0056	0.00568	0.07126264	0.010490538	2.686E-07	9.61E-04	1.82E-03	1.42E-03	3.95E-02	3.86E-02	8.69E-02
946	490386.72	3861035.12	0.0068	0.00579	0.00267	0.01774	0.004	0.01	0.0057	0.00579	0.07094963	0.0106937	2.78E-07	9.34E-04	1.81E-03	1.41E-03	4.03E-02	3.94E-02	8.67E-02
947	490436.72	3861035.12	0.00676	0.00591	0.00278	0.01728	0.004	0.01	0.0058	0.00591	0.07053228	0.010915331	2.894E-07	9.10E-04	1.79E-03	1.41E-03	4.11E-02	4.02E-02	8.65E-02
948	490486.72	3861035.12	0.00673	0.00602	0.00288	0.01684	0.004	0.01	0.0059	0.00602	0.07021927	0.011118493	2.998E-07	8.87E-04	1.77E-03	1.40E-03	4.19E-02	4.09E-02	8.63E-02
949	490536.72	3861035.12	0.00669	0.00614	0.00296	0.01644	0.004	0.01	0.006	0.00614	0.06980192	0.011340124	3.082E-07	8.66E-04	1.74E-03	1.40E-03	4.27E-02	4.18E-02	8.60E-02
950	490586.72	3861035.12	0.00665	0.00627	0.00301	0.01606	0.004	0.01	0.0062	0.00627	0.06938457	0.011580224	3.134E-07	8.46E-04	1.71E-03	1.39E-03	4.36E-02	4.26E-02	8.59E-02
951	490636.72	3861035.12	0.00662	0.0064	0.00303	0.0157	0.004	0.01	0.0063	0.0064	0.06907155	0.011820324	3.154E-07	8.27E-04	1.67E-03	1.39E-03	4.45E-02	4.35E-02	8.58E-02
952	490686.72	3861035.12	0.00658	0.00654	0.00302	0.01536	0.003	0.01	0.0064	0.00654	0.0686542	0.012078894	3.144E-07	8.09E-04	1.63E-03	1.38E-03	4.54E-02	4.45E-02	8.55E-02
953	490736.72	3861035.12	0.00654	0.00669	0.00299	0.01505	0.003	0.01	0.0066	0.00669	0.06823685	0.012355933	3.113E-07	7.93E-04	1.59E-03	1.38E-03	4.65E-02	4.55E-02	8.53E-02
954	490786.72	3861035.12	0.00651	0.00685	0.00296	0.01476	0.003	0.01	0.0067	0.00685	0.06792384	0.012651441	3.082E-07	7.77E-04	1.55E-03	1.38E-03	4.76E-02	4.66E-02	8.53E-02
955	490836.72	3861035.12	0.00647	0.00702	0.00293	0.0145	0.003	0.01	0.0069	0.00702	0.06750649	0.012965418	3.05E-07	7.64E-04	1.51E-03	1.38E-03	4.89E-02	4.77E-02	8.53E-02
956	490086.72	3861085.12	0.0065	0.00506	0.00238	0.02147	0.004	0.01	0.005	0.00506	0.0678195	0.009345444	2.478E-07	1.13E-03	1.76E-03	1.37E-03	3.54E-02	3.44E-02	8.24E-02
957	490136.72	3861085.12	0.00648	0.00515	0.00237	0.02064	0.004	0.01	0.0051	0.00515	0.06761082	0.009511667	2.467E-07	1.09E-03	1.78E-03	1.37E-03	3.59E-02	3.50E-02	8.23E-02
958	490186.72	3861085.12	0.00645	0.00524	0.00237	0.0199	0.004	0.01	0.0052	0.00524	0.06729781	0.009677891	2.467E-07	1.05E-03	1.80E-03	1.36E-03	3.65E-02	3.56E-02	8.20E-02
959	490236.72	3861085.12	0.00642	0.00532	0.00239	0.01922	0.004	0.01	0.0052	0.00532	0.0669848	0.009825645	2.488E-07	1.01E-03	1.81E-03	1.36E-03	3.71E-02	3.62E-02	8.19E-02
960	490286.72	3861085.12	0.00638	0.00541	0.00241	0.0186	0.004	0.01	0.0053	0.00541	0.06656745	0.009991868	2.509E-07	9.80E-04	1.80E-03	1.35E-03	3.77E-02	3.68E-02	8.16E-02
961	490336.72	3861085.12	0.00635	0.0055	0.00246	0.01804	0.004	0.01	0.0054	0.0055	0.06625443	0.010158091	2.561E-07	9.50E-04	1.79E-03	1.34E-03	3.83E-02	3.74E-02	8.14E-02
962	490386.72	3861085.12	0.00633	0.00561	0.00254	0.01754	0.004	0.01	0.0055	0.00561	0.06604576	0.010361253	2.644E-07	9.24E-04	1.78E-03	1.34E-03	3.90E-02	3.81E-02	8.13E-02
963	490436.72	3861085.12	0.0063	0.00571	0.00263	0.01706	0.004	0.01	0.0056	0.00571	0.06573275	0.010545946	2.738E-07	8.99E-04	1.77E-03	1.34E-03	3.97E-02	3.88E-02	8.12E-02
964	490486.72	3861085.12	0.00627	0.00582	0.00273	0.01663	0.004	0.009	0.0057	0.00582	0.06541973	0.010749107	2.842E-07	8.76E-04	1.74E-03	1.33E-03	4.05E-02	3.96E-02	8.10E-02
965	490536.72	3861085.12	0.00625	0.00593	0.00283	0.01622	0.004	0.009	0.0058	0.00593	0.06521106	0.010952269	2.946E-07	8.54E-04	1.73E-03	1.33E-03	4.12E-02	4.03E-02	8.10E-02
966	490586.72	3861085.12	0.00622	0.00605	0.00289	0.01584	0.004	0.009	0.0059	0.00605	0.06489804	0.0111739	3.009E-07	8.34E-04	1.69E-03	1.33E-03	4.20E-02	4.11E-02	8.08E-02
967	490636.72	3861085.12	0.00619	0.00617	0.00292	0.01548	0.004	0.009	0.0061	0.00617	0.06458503	0.011395531	3.04E-07	8.15E-04	1.66E-03	1.32E-03	4.29E-02	4.20E-02	8.07E-02
968	490686.72	3861085.12	0.00616	0.0063	0.00292	0.01514	0.003	0.009	0.0062	0.0063	0.06427202	0.011635632	3.04E-07	7.97E-04	1.62E-03	1.32E-03	4.37E-02	4.28E-02	8.05E-02
969	490736.72	3861085.12	0.00613	0.00644	0.0029	0.01483	0.003	0.009	0.0063	0.00644	0.06395901	0.011894201	3.019E-07	7.81E-04	1.58E-03	1.32E-03	4.47E-02	4.38E-02	8.05E-02
970	490786.72	3861085.12	0.0061	0.00658	0.00287	0.01455	0.003	0.009	0.0065	0.00658	0.06364599	0.012152771	2.988E-07	7.66E-04	1.55E-03	1.31E-03	4.57E-02	4.47E-02	8.04E-02
971	490836.72	3861085.12	0.00608	0.00674	0.00284	0.01428	0.003	0.009	0.0066	0.00674	0.06343732	0.012448279	2.957E-07	7.52E-04	1.51E-03	1.31E-03	4.68E-02	4.58E-02	8.05E-02
972	490086.72	3861135.12	0.00603	0.00492	0.0023	0.02129	0.004	0.009	0.0049	0.00492	0.06291563	0.009086874	2.394E-07	1.12E-03	1.71E-03	1.30E-03	3.44E-02	3.35E-02	7.70E-02
973	490136.72	3861135.12	0.00601	0.005	0.00228	0.02046	0.004	0.009	0.0049	0.005	0.06270695	0.009234628	2.374E-07	1.08E-03	1.74E-03	1.29E-03	3.49E-02	3.40E-02	7.70E-02
974	490186.72	3861135.12	0.00599	0.00508	0.00229	0.01972	0.004	0.009	0.005	0.00508	0.06249828	0.009382382	2.384E-07	1.04E-03	1.75E-03	1.29E-03	3.55E-02	3.45E-02	7.69E-02
975	490236.72	3861135.12	0.00597	0.00516	0.0023	0.01904	0.004	0.009	0.0051	0.00516	0.0622896	0.009530136	2.394E-07	1.00E-03	1.77E-03	1.29E-03	3.61E-02	3.51E-02	7.69E-02
976	490286.72	3861135.12	0.00595	0.00525	0.00232	0.01843	0.004	0.009	0.0052	0.00525	0.06208093	0.00969636	2.415E-07	9.71E-04	1.77E-03	1.28E-03	3.66E-02	3.57E-02	7.67E-02
977	490336.72	3861135.12	0.00593	0.00534	0.00236	0.01786	0.004	0.009	0.0053	0.00534	0.06187225	0.009862583	2.457E-07	9.41E-04	1.76E-03	1.28E-03	3.72E-02	3.63E-02	7.66E-02
978	490386.72	3861135.12	0.0059	0.00543	0.00242	0.01734	0.004	0.009	0.0053	0.00543	0.06155924	0.010028806	2.519E-07	9.13E-04	1.76E-03	1.28E-03	3.78E-02	3.69E-02	7.64E-02
979	490436.72	3861135.12	0.00588	0.00553	0.0025	0.01687	0.004	0.009	0.0054	0.00553	0.06135056	0.010213499	2.603E-07	8.89E-04	1.74E-03	1.27E-03	3.85E-02	3.76E-02	7.63E-02
980	490486.72	3861135.12	0.00586	0.00563	0.0026	0.01643	0.004	0.009	0.0055	0.00563	0.06114189	0.010398192	2.707E-07	8.65E-04	1.73E-03	1.27E-03	3.92E-02	3.83E-02	7.63E-02
981	490536.72	3861135.12	0.00584	0.00574	0.00269	0.01602	0.004	0.009	0.0056	0.00574	0.06093321	0.010601353	2.8E-07	8.44E-04	1.71E-03	1.27E-03	3.99E-02	3.90E-02	7.62E-02
982	490586.72	3861135.12	0.00582	0.00585	0.00276	0.01564	0.004	0.009	0.0057	0.00585	0.06072454	0.010804515	2.873E-07	8.24E-04	1.68E-03	1.26E-03	4.07E-02	3.98E-02	7.62E-02

983	490636.72	3861135.12	0.0058	0.00596	0.0028	0.01528	0.004	0.009	0.0058	0.00596	0.06051586	0.011007677	2.915E-07	8.05E-04	1.65E-03	1.26E-03	4.14E-02	4.05E-02	7.61E-02
984	490686.72	3861135.12	0.00578	0.00608	0.00282	0.01495	0.003	0.009	0.006	0.00608	0.06030719	0.011229308	2.936E-07	7.87E-04	1.62E-03	1.26E-03	4.22E-02	4.13E-02	7.61E-02
985	490736.72	3861135.12	0.00575	0.0062	0.00282	0.01465	0.003	0.009	0.0061	0.0062	0.05999417	0.011450939	2.936E-07	7.72E-04	1.58E-03	1.25E-03	4.31E-02	4.22E-02	7.60E-02
986	490786.72	3861135.12	0.00573	0.00634	0.0028	0.01436	0.003	0.009	0.0062	0.00634	0.0597855	0.011709509	2.915E-07	7.56E-04	1.55E-03	1.25E-03	4.40E-02	4.31E-02	7.59E-02
987	490836.72	3861135.12	0.00571	0.00648	0.00277	0.01409	0.003	0.009	0.0064	0.00648	0.05957682	0.011968078	2.884E-07	7.42E-04	1.51E-03	1.25E-03	4.50E-02	4.41E-02	7.60E-02
988	490086.72	3861185.12	0.00562	0.00478	0.00222	0.02112	0.004	0.009	0.0047	0.00478	0.05863778	0.008828305	2.311E-07	1.11E-03	1.66E-03	1.22E-03	3.34E-02	3.25E-02	7.24E-02
989	490136.72	3861185.12	0.0056	0.00485	0.00221	0.02027	0.004	0.009	0.0048	0.00485	0.05842911	0.00895759	2.301E-07	1.07E-03	1.68E-03	1.22E-03	3.39E-02	3.30E-02	7.23E-02
990	490186.72	3861185.12	0.00559	0.00493	0.0022	0.01952	0.004	0.009	0.0049	0.00493	0.05832477	0.009105344	2.29E-07	1.03E-03	1.71E-03	1.22E-03	3.44E-02	3.35E-02	7.23E-02
991	490236.72	3861185.12	0.00557	0.00501	0.00221	0.01885	0.004	0.009	0.0049	0.00501	0.05811609	0.009253098	2.301E-07	9.93E-04	1.72E-03	1.22E-03	3.50E-02	3.41E-02	7.22E-02
992	490286.72	3861185.12	0.00556	0.0051	0.00223	0.01825	0.004	0.009	0.005	0.0051	0.05801176	0.009419321	2.322E-07	9.61E-04	1.74E-03	1.22E-03	3.56E-02	3.47E-02	7.22E-02
993	490336.72	3861185.12	0.00553	0.00518	0.00226	0.01767	0.004	0.009	0.0051	0.00518	0.05769874	0.009567075	2.353E-07	9.31E-04	1.73E-03	1.21E-03	3.61E-02	3.52E-02	7.21E-02
994	490386.72	3861185.12	0.00552	0.00526	0.00231	0.01715	0.004	0.009	0.0052	0.00526	0.05759441	0.009714829	2.405E-07	9.03E-04	1.73E-03	1.21E-03	3.67E-02	3.58E-02	7.21E-02
995	490436.72	3861185.12	0.0055	0.00536	0.00238	0.01668	0.004	0.009	0.0053	0.00536	0.05738573	0.009899522	2.478E-07	8.79E-04	1.72E-03	1.21E-03	3.73E-02	3.64E-02	7.20E-02
996	490486.72	3861185.12	0.00549	0.00545	0.00247	0.01624	0.004	0.009	0.0054	0.00545	0.05728139	0.010065745	2.571E-07	8.55E-04	1.70E-03	1.21E-03	3.80E-02	3.71E-02	7.20E-02
997	490536.72	3861185.12	0.00548	0.00556	0.00256	0.01585	0.004	0.009	0.0055	0.00556	0.05717706	0.010268907	2.665E-07	8.35E-04	1.69E-03	1.21E-03	3.87E-02	3.78E-02	7.21E-02
998	490586.72	3861185.12	0.00546	0.00566	0.00264	0.01547	0.004	0.009	0.0056	0.00566	0.05696838	0.010453599	2.748E-07	8.15E-04	1.66E-03	1.21E-03	3.93E-02	3.85E-02	7.19E-02
999	490636.72	3861185.12	0.00544	0.00576	0.00269	0.01509	0.003	0.009	0.0057	0.00576	0.0567597	0.010638292	2.8E-07	7.95E-04	1.64E-03	1.20E-03	4.00E-02	3.92E-02	7.19E-02
1000	490686.72	3861185.12	0.00542	0.00587	0.00272	0.01476	0.003	0.009	0.0058	0.00587	0.05655103	0.010841454	2.832E-07	7.77E-04	1.60E-03	1.20E-03	4.08E-02	3.99E-02	7.19E-02
1001	490736.72	3861185.12	0.00541	0.00599	0.00273	0.01447	0.003	0.009	0.0059	0.00599	0.05644669	0.011063085	2.842E-07	7.62E-04	1.58E-03	1.20E-03	4.16E-02	4.07E-02	7.19E-02
1002	490786.72	3861185.12	0.00539	0.00611	0.00272	0.01419	0.003	0.009	0.006	0.00611	0.05623802	0.011284716	2.832E-07	7.47E-04	1.54E-03	1.20E-03	4.24E-02	4.15E-02	7.19E-02
1003	490836.72	3861185.12	0.00537	0.00624	0.0027	0.01392	0.003	0.009	0.0061	0.00624	0.05602934	0.011524816	2.811E-07	7.33E-04	1.51E-03	1.20E-03	4.34E-02	4.24E-02	7.19E-02
1004	490086.72	3861235.12	0.00526	0.00465	0.00215	0.02095	0.003	0.008	0.0046	0.00465	0.05488163	0.008588204	2.238E-07	1.10E-03	1.60E-03	1.16E-03	3.26E-02	3.16E-02	6.83E-02
1005	490136.72	3861235.12	0.00524	0.00472	0.00213	0.02011	0.003	0.008	0.0047	0.00472	0.05467295	0.008717489	2.217E-07	1.06E-03	1.64E-03	1.16E-03	3.30E-02	3.21E-02	6.82E-02
1006	490186.72	3861235.12	0.00523	0.00479	0.00213	0.01936	0.004	0.008	0.0047	0.00479	0.05456861	0.008846774	2.217E-07	1.02E-03	1.66E-03	1.16E-03	3.35E-02	3.26E-02	6.82E-02
1007	490236.72	3861235.12	0.00521	0.00487	0.00213	0.01867	0.004	0.008	0.0048	0.00487	0.05435994	0.008994528	2.217E-07	9.83E-04	1.68E-03	1.15E-03	3.40E-02	3.31E-02	6.81E-02
1008	490386.72	3861235.12	0.00517	0.0051	0.00221	0.01697	0.004	0.008	0.005	0.0051	0.05394259	0.009419321	2.301E-07	8.94E-04	1.69E-03	1.15E-03	3.56E-02	3.47E-02	6.81E-02
1009	490436.72	3861235.12	0.00516	0.00519	0.00227	0.01649	0.004	0.008	0.0051	0.00519	0.05383825	0.009585544	2.363E-07	8.69E-04	1.68E-03	1.15E-03	3.62E-02	3.53E-02	6.80E-02
1010	490486.72	3861235.12	0.00515	0.00528	0.00235	0.01605	0.004	0.008	0.0052	0.00528	0.05373391	0.009751768	2.446E-07	8.45E-04	1.67E-03	1.15E-03	3.68E-02	3.59E-02	6.80E-02
1011	490536.72	3861235.12	0.00514	0.00538	0.00244	0.01567	0.004	0.008	0.0053	0.00538	0.05362957	0.00993646	2.54E-07	8.25E-04	1.66E-03	1.15E-03	3.75E-02	3.66E-02	6.81E-02
1012	490586.72	3861235.12	0.00513	0.00548	0.00253	0.01531	0.004	0.008	0.0054	0.00548	0.05352524	0.010121153	2.634E-07	8.06E-04	1.65E-03	1.15E-03	3.82E-02	3.73E-02	6.82E-02
1013	490636.72	3861235.12	0.00511	0.00557	0.00258	0.01492	0.003	0.008	0.0055	0.00557	0.05331656	0.010287376	2.686E-07	7.86E-04	1.62E-03	1.15E-03	3.88E-02	3.79E-02	6.80E-02
1014	490686.72	3861235.12	0.0051	0.00568	0.00262	0.0146	0.003	0.008	0.0056	0.00568	0.05321222	0.010490538	2.728E-07	7.69E-04	1.59E-03	1.14E-03	3.95E-02	3.86E-02	6.81E-02
1015	490736.72	3861235.12	0.00509	0.00579	0.00265	0.01431	0.003	0.008	0.0057	0.00579	0.05310789	0.0106937	2.759E-07	7.54E-04	1.57E-03	1.14E-03	4.02E-02	3.94E-02	6.81E-02
1016	490786.72	3861235.12	0.00508	0.00591	0.00265	0.01403	0.003	0.008	0.0058	0.00591	0.05300355	0.010915331	2.759E-07	7.39E-04	1.54E-03	1.14E-03	4.10E-02	4.02E-02	6.82E-02
1017	490836.72	3861235.12	0.00507	0.00603	0.00263	0.01376	0.003	0.008	0.0059	0.00603	0.05289921	0.011136962	2.738E-07	7.25E-04	1.51E-03	1.14E-03	4.19E-02	4.10E-02	6.83E-02
1018	490086.72	3861285.12	0.00494	0.00453	0.00209	0.02081	0.003	0.008	0.0045	0.00453	0.05154282	0.008366573	2.176E-07	1.10E-03	1.56E-03	1.10E-03	3.18E-02	3.08E-02	6.47E-02
1019	490136.72	3861285.12	0.00493	0.0046	0.00207	0.01999	0.003	0.008	0.0046	0.0046	0.05143848	0.008495858	2.155E-07	1.05E-03	1.59E-03	1.10E-03	3.22E-02	3.13E-02	6.46E-02
1020	490186.72	3861285.12	0.00492	0.00467	0.00207	0.01922	0.003	0.008	0.0046	0.00467	0.05133414	0.008625143	2.155E-07	1.01E-03	1.62E-03	1.10E-03	3.27E-02	3.18E-02	6.46E-02
1021	490236.72	3861285.12	0.0049	0.00473	0.00207	0.01853	0.004	0.008	0.0047	0.00473	0.05112547	0.008735958	2.155E-07	9.76E-04	1.64E-03	1.10E-03	3.32E-02	3.22E-02	6.46E-02
1022	490386.72	3861285.12	0.00486	0.00496	0.00212	0.01681	0.004	0.008	0.0049	0.00496	0.05070812	0.009160751	2.207E-07	8.85E-04	1.66E-03	1.10E-03	3.46E-02	3.37E-02	6.44E-02
1023	490436.72	3861285.12	0.00485	0.00504	0.00217	0.01634	0.004	0.008	0.005	0.00504	0.05060378	0.009308505	2.259E-07	8.61E-04	1.66E-03	1.10E-03	3.52E-02	3.43E-02	6.45E-02
1024	490486.72	3861285.12	0.00484	0.00512	0.00224	0.01589	0.004	0.008	0.0051	0.00512	0.05049944	0.009456259	2.332E-07	8.37E-04	1.65E-03	1.10E-03	3.58E-02	3.48E-02	6.45E-02
1025	490536.72	3861285.12	0.00483	0.00521	0.00232	0.01549	0.003	0.008	0.0051	0.00521	0.05039511	0.009622483	2.415E-07	8.16E-04	1.64E-03	1.10E-03	3.63E-02	3.54E-02	6.45E-02
1026	490586.72	3861285.12	0.00482	0.00531	0.0024	0.01513	0.003	0.008	0.0052	0.00531	0.05029077	0.009807175	2.499E-07	7.97E-04	1.62E-03	1.10E-03	3.70E-02	3.61E-02	6.45E-02
1027	490636.72	3861285.12	0.00481	0.0054	0.00247	0.01476	0.003	0.008	0.0053	0.0054	0.05018643	0.009973399	2.571E-07	7.77E-04	1.60E-03	1.09E-03	3.76E-02	3.67E-02	6.45E-02
1028	490686.72	3861285.12	0.0048	0.00549	0.00252	0.01443	0.003	0.008	0.0054	0.00549	0.05008209	0.010139622	2.623E-07	7.60E-04	1.58E-03	1.09E-03	3.83E-02	3.73E-02	6.46E-02
1029	490736.72	3861285.12	0.0048	0.0056	0.00256	0.01416	0.003	0.008	0.0055	0.0056	0.05008209	0.010342784	2.665E-07	7.46E-04	1.56E-03	1.09E-03	3.90E-02	3.81E-02	6.47E-02
1030	490786.72	3861285.12	0.00479	0.00571	0.00257	0.01387	0.003	0.008	0.0056	0.00571	0.04997775	0.010545946	2.676E-07	7.31E-04	1.53E-03	1.09E-03	3.97E-02	3.88E-02	6.47E-02
1031	490836.72	3861285.12	0.00478	0.00582	0.00256	0.01359	0.003	0.008	0.0057	0.00582	0.04987342	0.010749107	2.665E-07	7.16E-04	1.50E-03	1.09E-03	4.05E-02	3.96E-02	6.48E-02
1032	490061.24	3859716.13	0.02974	0.04913	0.03751	0.05613	0.006	0.04	0.0487	0.04913	0.3103003	0.090739458	3.905E-06	2.96E-03	2.66E-03	5.64E-03	3.45E-01	3.34E-01	4.23E-01
1033	490111.24	3859716.13	0.03017	0.05955	0.03654	0.05942	0.006	0.042	0.0592	0.05955	0.31478682	0.109984424	3.804E-06	3.13E-03	2.62E-03	5.98E-03	4.19E-01	4.05E-01	4.51E-01
1034	490161.24	3859716.13	0.03105	0.07459	0.03604	0.06365	0.006	0.046	0.0741	0.07459	0.32396854	0.137762186	3.752E-06	3.35E-03	2.58E-03	6.40E-03	5.25E-01	5.07E-01	4.92E-01
1035	490211.24	3859716.13	0.03257	0.09742	0.03604	0.06913	0.005	0.05	0.0967	0.09742	0.33982787	0.179927499	3.752E-06	3.64E-03	2.56E-03	6.97E-03	6.85E-01	6.62E-01	5.55E-01
1036	490061.24	3859766.13	0.02809	0.03457	0.02933	0.04953	0.006	0.036	0.0341	0.03457	0.29308458	0.06384822	3.053E-06	2.61E-03	2.61E-03	5.06E-03	2.42E-01	2.35E-01	3.74E-01
1037	490111.24	3859766.13	0.02801	0.0394	0.0285	0.0514	0.005	0.037	0.0389	0.0394	0.29224988	0.072768871	2.967E-06	2.71E-03	2.56E-03	5.27E-03	2.76E-01	2.68E-01	3.84E-01
1038	490161.24	3859766.13	0.02808	0.04558	0.02774	0.05379	0.005	0.039	0.0451	0.04558	0.29298024	0.084182872	2.888E-06	2.83E-03	2.52E-03	5.52E-03	3.19E-01	3.10E-01	3.98E-01
1039	490211.24	3859766.13	0.02835	0.05403	0.02723	0.05694	0.005	0.042	0.0535	0.05403	0.29579736	0.099789394	2.835E-06	3.00E-03	2.49E-03	5.84E-03	3.79E-01	3.67E-01	4.18E-01
1040	490061.24	3859816.13	0.0271	0.02672	0.02359	0.04474	0.005	0.033	0.0263	0.02672	0.28275515	0.049349854	2.456E-06	2.36E-03	2.57E-03	4.64E-03	1.86E-01	1.82E-01	3.46E-01

1041	490111.24	3859816.13	0.02679	0.02945	0.0231	0.04576	0.005	0.034	0.029	0.02945	0.27952068	0.054391961	2.405E-06	2.41E-03	2.51E-03	4.77E-03	2.05E-01	2.00E-01	3.49E-01
1042	490161.24	3859816.13	0.02658	0.03278	0.02258	0.04719	0.005	0.035	0.0323	0.03278	0.27732959	0.060542224	2.351E-06	2.49E-03	2.46E-03	4.93E-03	2.29E-01	2.23E-01	3.54E-01
1043	490211.24	3859816.13	0.02646	0.0369	0.02205	0.04903	0.005	0.036	0.0364	0.0369	0.27607753	0.068151557	2.296E-06	2.58E-03	2.42E-03	5.12E-03	2.58E-01	2.51E-01	3.61E-01
1044	490061.24	3859866.13	0.0264	0.02187	0.01934	0.04113	0.005	0.031	0.0215	0.02187	0.27545151	0.040392264	2.013E-06	2.17E-03	2.54E-03	4.32E-03	1.52E-01	1.49E-01	3.28E-01
1045	490111.24	3859866.13	0.02598	0.02363	0.01915	0.04165	0.005	0.031	0.0232	0.02363	0.27106933	0.043642854	1.994E-06	2.19E-03	2.48E-03	4.40E-03	1.65E-01	1.61E-01	3.28E-01
1046	490161.24	3859866.13	0.02562	0.02572	0.01887	0.04247	0.005	0.032	0.0253	0.02572	0.26731317	0.047502928	1.964E-06	2.24E-03	2.42E-03	4.50E-03	1.79E-01	1.75E-01	3.28E-01
1047	490211.24	3859866.13	0.02533	0.02816	0.01854	0.04358	0.005	0.033	0.0277	0.02816	0.26428738	0.052009427	1.93E-06	2.30E-03	2.38E-03	4.63E-03	1.96E-01	1.91E-01	3.30E-01
1048	490061.24	3859916.13	0.02584	0.01858	0.01612	0.03834	0.005	0.029	0.0182	0.01858	0.2696086	0.034315879	1.678E-06	2.02E-03	2.52E-03	4.07E-03	1.29E-01	1.26E-01	3.15E-01
1049	490111.24	3859916.13	0.02534	0.01983	0.01614	0.03853	0.005	0.029	0.0195	0.01983	0.26439171	0.036624536	1.68E-06	2.03E-03	2.45E-03	4.11E-03	1.38E-01	1.35E-01	3.13E-01
1050	490161.24	3859916.13	0.02489	0.02123	0.016	0.03892	0.005	0.03	0.0208	0.02123	0.25969652	0.039210232	1.666E-06	2.05E-03	2.39E-03	4.18E-03	1.48E-01	1.44E-01	3.11E-01
1051	490211.24	3859916.13	0.0245	0.02283	0.0158	0.03952	0.005	0.03	0.0224	0.02283	0.25562735	0.042165313	1.645E-06	2.08E-03	2.33E-03	4.26E-03	1.59E-01	1.55E-01	3.10E-01
1052	490229.25	3859815.26	0.02648	0.03894	0.02197	0.04999	0.005	0.037	0.0384	0.03894	0.27628621	0.071919286	2.287E-06	2.63E-03	2.41E-03	5.22E-03	2.72E-01	2.65E-01	3.66E-01
1053	490279.25	3859815.26	0.02652	0.04478	0.02157	0.05258	0.005	0.039	0.0442	0.04478	0.27670356	0.082705332	2.246E-06	2.77E-03	2.39E-03	5.49E-03	3.13E-01	3.04E-01	3.78E-01
1054	490329.25	3859815.26	0.02675	0.05256	0.0214	0.05591	0.005	0.041	0.0518	0.05256	0.27910333	0.097074413	2.228E-06	2.95E-03	2.37E-03	5.84E-03	3.67E-01	3.57E-01	3.97E-01
1055	490379.25	3859815.26	0.02728	0.06391	0.02153	0.06053	0.005	0.045	0.0628	0.06391	0.28463323	0.11803702	2.241E-06	3.19E-03	2.37E-03	6.31E-03	4.45E-01	4.35E-01	4.25E-01
1056	490429.25	3859815.26	0.02826	0.08148	0.02189	0.0669	0.005	0.05	0.0796	0.08148	0.29485832	0.150487504	2.279E-06	3.52E-03	2.37E-03	6.97E-03	5.64E-01	5.54E-01	4.68E-01
1057	490229.25	3859865.26	0.02526	0.02928	0.01847	0.04415	0.005	0.033	0.0288	0.02928	0.26355701	0.054077984	1.923E-06	2.33E-03	2.36E-03	4.69E-03	2.04E-01	1.99E-01	3.32E-01
1058	490279.25	3859865.26	0.02507	0.03244	0.01807	0.0457	0.005	0.035	0.0319	0.03244	0.2615746	0.059914269	1.881E-06	2.41E-03	2.33E-03	4.85E-03	2.26E-01	2.21E-01	3.37E-01
1059	490329.25	3859865.26	0.02496	0.03635	0.01772	0.04768	0.005	0.036	0.0357	0.03635	0.26042688	0.067135748	1.845E-06	2.51E-03	2.31E-03	5.06E-03	2.53E-01	2.47E-01	3.44E-01
1060	490379.25	3859865.26	0.02499	0.04142	0.01753	0.05031	0.005	0.038	0.0407	0.04142	0.26073989	0.076499661	1.825E-06	2.65E-03	2.29E-03	5.33E-03	2.88E-01	2.82E-01	3.54E-01
1061	490429.25	3859865.26	0.02518	0.04819	0.01753	0.05375	0.005	0.04	0.0473	0.04819	0.26272231	0.089003348	1.825E-06	2.83E-03	2.29E-03	5.69E-03	3.35E-01	3.28E-01	3.70E-01
1062	490229.25	3859915.26	0.02439	0.02355	0.01578	0.03988	0.005	0.031	0.0231	0.02355	0.25447963	0.0434951	1.643E-06	2.10E-03	2.32E-03	4.29E-03	1.64E-01	1.60E-01	3.10E-01
1063	490279.25	3859915.26	0.02407	0.02549	0.01552	0.04078	0.005	0.031	0.025	0.02549	0.25114083	0.047078135	1.616E-06	2.15E-03	2.27E-03	4.40E-03	1.77E-01	1.73E-01	3.11E-01
1064	490329.25	3859915.26	0.02382	0.02783	0.01523	0.04201	0.005	0.032	0.0273	0.02783	0.24853238	0.051399941	1.586E-06	2.21E-03	2.25E-03	4.53E-03	1.94E-01	1.89E-01	3.13E-01
1065	490379.25	3859915.26	0.02365	0.03067	0.01495	0.04361	0.005	0.033	0.0301	0.03067	0.24675864	0.05664521	1.556E-06	2.30E-03	2.23E-03	4.70E-03	2.13E-01	2.09E-01	3.17E-01
1066	490429.25	3859915.26	0.02357	0.03413	0.01474	0.04561	0.005	0.035	0.0335	0.03413	0.24592394	0.063035573	1.535E-06	2.40E-03	2.21E-03	4.91E-03	2.37E-01	2.32E-01	3.24E-01
1067	490451.43	3859872.59	0.02501	0.0487	0.01707	0.05397	0.005	0.041	0.0477	0.0487	0.26094857	0.08994528	1.777E-06	2.84E-03	2.27E-03	5.72E-03	3.38E-01	3.31E-01	3.69E-01
1068	490501.43	3859872.59	0.02546	0.05853	0.01727	0.05877	0.005	0.044	0.0571	0.05853	0.26564377	0.10810056	1.798E-06	3.10E-03	2.28E-03	6.21E-03	4.05E-01	3.98E-01	3.92E-01
1069	490551.43	3859872.59	0.02626	0.07376	0.01764	0.06543	0.005	0.049	0.0715	0.07376	0.27399078	0.136229238	1.836E-06	3.45E-03	2.29E-03	6.91E-03	5.07E-01	5.02E-01	4.28E-01
1070	490601.43	3859872.59	0.02759	0.09801	0.01806	0.07448	0.005	0.056	0.0941	0.09801	0.28786769	0.181017185	1.88E-06	3.92E-03	2.31E-03	7.88E-03	6.66E-01	6.66E-01	4.83E-01
1071	490451.43	3859922.59	0.02337	0.03442	0.01437	0.04568	0.005	0.035	0.0338	0.03442	0.24383719	0.063571182	1.496E-06	2.41E-03	2.20E-03	4.93E-03	2.39E-01	2.34E-01	3.22E-01
1072	490501.43	3859922.59	0.02344	0.03898	0.01434	0.04841	0.005	0.037	0.0382	0.03898	0.24456755	0.071993163	1.493E-06	2.55E-03	2.20E-03	5.21E-03	2.71E-01	2.65E-01	3.32E-01
1073	490551.43	3859922.59	0.02369	0.04524	0.01447	0.0521	0.005	0.04	0.0442	0.04524	0.24717599	0.083554917	1.506E-06	2.74E-03	2.20E-03	5.58E-03	3.13E-01	3.08E-01	3.47E-01
1074	490601.43	3859922.59	0.02414	0.05399	0.01472	0.05696	0.005	0.043	0.0525	0.05399	0.25187119	0.099715517	1.532E-06	3.00E-03	2.22E-03	6.08E-03	3.72E-01	3.67E-01	3.68E-01
1075	482129.67	3852241.07	0.0118	0.06427	0.00146	0.00202	0.002	0.002	0.0647	0.06427	0.12311848	0.118701913	1.52E-07	1.06E-04	9.19E-04	3.46E-04	4.58E-01	4.37E-01	2.64E-01
1076	482029.67	3852291.07	0.01941	0.11996	0.00144	0.00208	0.002	0.002	0.1203	0.11996	0.20251946	0.221557204	1.499E-07	1.10E-04	9.38E-04	3.47E-04	8.53E-01	8.16E-01	4.62E-01
1077	482079.67	3852291.07	0.01566	0.09303	0.00145	0.00207	0.002	0.002	0.0934	0.09303	0.16339283	0.171819495	1.51E-07	1.09E-04	9.38E-04	3.50E-04	6.62E-01	6.33E-01	3.66E-01
1078	482129.67	3852291.07	0.01337	0.07562	0.00148	0.00207	0.002	0.003	0.076	0.07562	0.1394995	0.139664519	1.541E-07	1.09E-04	9.33E-04	3.55E-04	5.39E-01	5.14E-01	3.05E-01
1079	482179.67	3852291.07	0.01187	0.06291	0.00151	0.00208	0.002	0.003	0.0633	0.06291	0.12384884	0.116190094	1.572E-07	1.10E-04	9.28E-04	3.59E-04	4.48E-01	4.28E-01	2.62E-01
1080	482229.67	3852291.07	0.01084	0.05325	0.00155	0.00209	0.002	0.003	0.0536	0.05325	0.11310206	0.098348792	1.614E-07	1.10E-04	9.24E-04	3.62E-04	3.80E-01	3.62E-01	2.31E-01
1081	482029.67	3852341.07	0.02577	0.16545	0.00148	0.00213	0.002	0.003	0.1657	0.16545	0.26887823	0.305573852	1.541E-07	1.12E-04	9.52E-04	3.57E-04	1.17E+00	1.13E+00	6.25E-01
1082	482079.67	3852341.07	0.0194	0.11891	0.00148	0.00212	0.002	0.003	0.1193	0.11891	0.20241512	0.219617932	1.541E-07	1.12E-04	9.52E-04	3.60E-04	8.45E-01	8.09E-01	4.60E-01
1083	482129.67	3852341.07	0.01569	0.0923	0.0015	0.00212	0.002	0.003	0.0927	0.0923	0.16370584	0.17047124	1.562E-07	1.12E-04	9.47E-04	3.63E-04	6.57E-01	6.28E-01	3.65E-01
1084	482179.67	3852341.07	0.01343	0.07473	0.00153	0.00212	0.002	0.003	0.0751	0.07473	0.14012552	0.138020755	1.593E-07	1.12E-04	9.43E-04	3.67E-04	5.32E-01	5.08E-01	3.04E-01
1085	482259.06	3852400.14	0.01278	0.07051	0.00166	0.00219	0.002	0.003	0.0709	0.07051	0.13334357	0.130226729	1.728E-07	1.15E-04	9.57E-04	3.87E-04	5.02E-01	4.79E-01	2.88E-01
1086	482309.06	3852400.14	0.01155	0.05827	0.0017	0.00221	0.002	0.003	0.0586	0.05827	0.12051004	0.107620359	1.77E-07	1.16E-04	9.52E-04	3.90E-04	4.15E-01	3.96E-01	2.48E-01
1087	482209.06	3852450.14	0.01769	0.10562	0.00163	0.00224	0.002	0.003	0.106	0.10562	0.18457338	0.19507229	1.697E-07	1.18E-04	9.75E-04	3.92E-04	7.51E-01	7.18E-01	4.14E-01
1088	482259.06	3852450.14	0.01475	0.0842	0.00168	0.00224	0.002	0.003	0.0846	0.0842	0.1538981	0.155511142	1.749E-07	1.18E-04	9.71E-04	3.97E-04	5.99E-01	5.73E-01	3.38E-01
1089	482309.06	3852450.14	0.01291	0.06876	0.00172	0.00226	0.002	0.003	0.0691	0.06876	0.13469996	0.126994609	1.791E-07	1.19E-04	9.71E-04	4.01E-04	4.90E-01	4.68E-01	2.85E-01
1090	482209.06	3852500.14	0.02272	0.13913	0.00166	0.0023	0.002	0.003	0.1395	0.13913	0.23705524	0.256962769	1.728E-07	1.21E-04	9.89E-04	4.04E-04	9.89E-01	9.46E-01	5.38E-01
1091	482259.06	3852500.14	0.01775	0.10463	0.0017	0.0023	0.002	0.003	0.105	0.10463	0.1851994	0.193243833	1.77E-07	1.21E-04	9.89E-04	4.08E-04	7.44E-01	7.11E-01	4.13E-01
1092	482309.06	3852500.14	0.01486	0.08282	0.00174	0.00231	0.002	0.003	0.0832	0.08282	0.15504581	0.152962384	1.811E-07	1.22E-04	9.85E-04	4.11E-04	5.89E-01	5.63E-01	3.36E-01
1093	482283.91	3852513.62	0.01698	0.09861	0.00173	0.00232	0.002	0.003	0.099	0.09861	0.1771654	0.182125341	1.801E-07	1.22E-04	9.89E-04	4.12E-04	7.01E-01	6.71E-01	3.92E-01
1094	482333.91	3852513.62	0.01439	0.07913	0.00179	0.00233	0.002	0.003	0.0795	0.07913	0.15014194	0.146147228	1.863E-07	1.23E-04	9.89E-04	4.16E-04	5.63E-01	5.38E-01	3.23E-01
1095	482283.91	3852563.62	0.02137	0.12785	0.00176	0.00239	0.002	0.003	0.1283	0.12785	0.22296965	0.236129447	1.832E-07	1.26E-04	1.00E-03	4.25E-04	9.09E-01	8.69E-01	5.00E-01
1096	482333.91	3852563.62	0.01706	0.09811	0.00182	0.00239	0.002	0.003	0.0985	0.09811	0.1780001	0.181201878	1.895E-07	1.26E-04	1.00E-03	4.29E-04	6.98E-01	6.67E-01	3.91E-01
1097	482383.91	3852563.62	0.01448	0.07925	0.00189	0.00241	0.002	0.003	0.0796	0.07925	0.15108098	0.14636886	1.968E-07	1.27E-04	9.99E-04	4.32E-04	5.64E-01	5.39E-01	3.24E-01
1098	482283.91	3852613.62	0.02854	0.1775	0.00178	0.00246	0.002	0.003	0.1778	0.1775	0.29777977	0.327829307	1.853E-07	1.30E-04	1.02E-03	4.38E-04	1.26E+00	1.21E+00	6.80E-01

1099	482333.91	3852613.62	0.02143	0.12657	0.00185	0.00246	0.002	0.003	0.1269	0.12657	0.22359568	0.233765382	1.926E-07	1.30E-04	1.02E-03	4.42E-04	8.99E-01	8.61E-01	4.98E-01
1100	482383.91	3852613.62	0.01716	0.09754	0.00192	0.00247	0.002	0.003	0.0979	0.09754	0.17904348	0.18014913	1.999E-07	1.30E-04	1.02E-03	4.46E-04	6.94E-01	6.63E-01	3.91E-01
1101	482602.38	3852600.87	0.01045	0.04426	0.0022	0.00254	0.002	0.003	0.0446	0.04426	0.10903289	0.08174493	2.29E-07	1.34E-04	9.99E-04	4.39E-04	3.16E-01	3.01E-01	2.07E-01
1102	482652.38	3852600.87	0.00984	0.0395	0.00222	0.00256	0.002	0.003	0.0399	0.0395	0.10266829	0.072953564	2.311E-07	1.35E-04	9.89E-04	4.38E-04	2.83E-01	2.69E-01	1.91E-01
1103	482702.38	3852600.87	0.0094	0.03451	0.00221	0.00259	0.002	0.003	0.035	0.03451	0.09807743	0.063737405	2.301E-07	1.36E-04	9.89E-04	4.33E-04	2.48E-01	2.35E-01	1.77E-01
1104	482552.38	3852650.87	0.01228	0.05831	0.0022	0.00259	0.002	0.003	0.0585	0.05831	0.12812669	0.107694236	2.29E-07	1.36E-04	1.02E-03	4.56E-04	4.15E-01	3.96E-01	2.56E-01
1105	482602.38	3852650.87	0.0113	0.05026	0.00226	0.00261	0.002	0.003	0.0506	0.05026	0.11790159	0.092826484	2.353E-07	1.37E-04	1.01E-03	4.54E-04	3.58E-01	3.42E-01	2.29E-01
1106	482652.38	3852650.87	0.01053	0.04441	0.0023	0.00263	0.002	0.003	0.0448	0.04441	0.10986759	0.082021969	2.394E-07	1.39E-04	1.01E-03	4.54E-04	3.17E-01	3.02E-01	2.09E-01
1107	482702.38	3852650.87	0.00991	0.03973	0.00231	0.00265	0.002	0.003	0.0402	0.03973	0.10339865	0.073378357	2.405E-07	1.40E-04	1.00E-03	4.53E-04	2.85E-01	2.70E-01	1.93E-01
1108	482552.38	3852700.87	0.01379	0.06859	0.00225	0.00266	0.002	0.003	0.0688	0.06859	0.14388168	0.126680632	2.342E-07	1.40E-04	1.04E-03	4.74E-04	4.88E-01	4.66E-01	2.94E-01
1109	482602.38	3852700.87	0.01242	0.05866	0.00232	0.00268	0.002	0.003	0.059	0.05866	0.12958741	0.10834066	2.415E-07	1.41E-04	1.03E-03	4.73E-04	4.18E-01	3.99E-01	2.58E-01
1110	482652.38	3852700.87	0.01137	0.05183	0.00239	0.0027	0.002	0.003	0.0522	0.05183	0.11863196	0.095726158	2.488E-07	1.42E-04	1.03E-03	4.75E-04	3.70E-01	3.52E-01	2.34E-01
1111	482702.38	3852700.87	0.01061	0.04517	0.0024	0.00272	0.002	0.003	0.0457	0.04517	0.11070229	0.083425633	2.499E-07	1.43E-04	1.02E-03	4.73E-04	3.23E-01	3.07E-01	2.12E-01
1112	482452.38	3852750.87	0.02406	0.13791	0.0021	0.0027	0.002	0.003	0.1381	0.13791	0.25103649	0.254709519	2.186E-07	1.42E-04	1.06E-03	4.91E-04	9.79E-01	9.38E-01	5.48E-01
1113	482521.29	3852749.74	0.01755	0.09394	0.00223	0.00272	0.002	0.004	0.0942	0.09394	0.18311265	0.173500198	2.322E-07	1.43E-04	1.06E-03	4.92E-04	6.67E-01	6.39E-01	3.87E-01
1114	482571.29	3852749.74	0.01503	0.07636	0.00233	0.00275	0.002	0.004	0.0766	0.07636	0.15681955	0.141031244	2.426E-07	1.45E-04	1.05E-03	4.92E-04	5.43E-01	5.19E-01	3.23E-01
1115	482521.29	3852799.74	0.0219	0.12086	0.00227	0.00281	0.002	0.004	0.1211	0.12086	0.22849955	0.223219437	2.363E-07	1.48E-04	1.07E-03	5.11E-04	8.58E-01	8.22E-01	4.90E-01
1116	482571.29	3852799.74	0.01782	0.09356	0.00238	0.00283	0.002	0.004	0.0938	0.09356	0.18592977	0.172798366	2.478E-07	1.49E-04	1.07E-03	5.11E-04	6.65E-01	6.36E-01	3.89E-01
1117	482621.29	3852799.74	0.0153	0.0759	0.00246	0.00285	0.002	0.004	0.0762	0.0759	0.15963667	0.140181659	2.561E-07	1.50E-04	1.06E-03	5.11E-04	5.40E-01	5.16E-01	3.26E-01
1118	482571.29	3852849.74	0.02242	0.11938	0.00241	0.00293	0.002	0.004	0.1196	0.11938	0.23392511	0.220485987	2.509E-07	1.54E-04	1.08E-03	5.32E-04	8.47E-01	8.12E-01	4.92E-01
1119	482621.29	3852849.74	0.01831	0.09193	0.00251	0.00295	0.002	0.004	0.0922	0.09193	0.19104232	0.169787877	2.613E-07	1.55E-04	1.08E-03	5.30E-04	6.54E-01	6.25E-01	3.91E-01
1120	482577.42	3852901.55	0.02969	0.15754	0.00246	0.00304	0.002	0.004	0.1577	0.15754	0.30977861	0.29096467	2.561E-07	1.60E-04	1.10E-03	5.54E-04	1.12E+00	1.07E+00	6.48E-01
1121	482627.42	3852901.55	0.02283	0.1133	0.00256	0.00307	0.002	0.004	0.1136	0.1133	0.23820295	0.209256679	2.665E-07	1.62E-04	1.10E-03	5.54E-04	8.05E-01	7.70E-01	4.84E-01
1122	482629.96	3852955.85	0.03123	0.1541	0.00262	0.00319	0.002	0.004	0.1546	0.1541	0.32584661	0.284611246	2.728E-07	1.68E-04	1.12E-03	5.81E-04	1.10E+00	1.05E+00	6.60E-01
1123	482679.96	3852955.85	0.02396	0.11014	0.00272	0.00322	0.002	0.004	0.111	0.11014	0.24999311	0.203420394	2.832E-07	1.70E-04	1.12E-03	5.80E-04	7.86E-01	7.49E-01	4.92E-01
1124	482781.63	3853034.48	0.02171	0.0812	0.00295	0.00349	0.002	0.004	0.0829	0.0812	0.22651713	0.149970365	3.071E-07	1.84E-04	1.15E-03	6.22E-04	5.87E-01	5.52E-01	4.13E-01
1125	482831.63	3853034.48	0.01831	0.06536	0.00296	0.00352	0.002	0.004	0.0668	0.06536	0.19104232	0.120715062	3.082E-07	1.85E-04	1.15E-03	6.18E-04	4.73E-01	4.44E-01	3.42E-01
1126	482881.63	3853034.48	0.0161	0.05423	0.00293	0.00357	0.002	0.004	0.0555	0.05423	0.16798369	0.100158779	3.05E-07	1.88E-04	1.14E-03	6.15E-04	3.93E-01	3.69E-01	2.94E-01
1127	482781.63	3853084.48	0.02509	0.09184	0.00305	0.00366	0.002	0.005	0.0936	0.09184	0.26178327	0.169621654	3.175E-07	1.93E-04	1.16E-03	6.56E-04	6.63E-01	6.24E-01	4.72E-01
1128	482831.63	3853084.48	0.02057	0.07205	0.00306	0.00369	0.002	0.005	0.0736	0.07205	0.21462263	0.133070995	3.186E-07	1.94E-04	1.16E-03	6.53E-04	5.21E-01	4.90E-01	3.81E-01
1129	482881.63	3853084.48	0.01774	0.05936	0.00304	0.00373	0.002	0.005	0.0607	0.05936	0.18509507	0.109633508	3.165E-07	1.96E-04	1.16E-03	6.50E-04	4.30E-01	4.04E-01	3.23E-01
1130	482781.63	3853134.48	0.029	0.10707	0.00315	0.00384	0.003	0.005	0.1089	0.10707	0.30257931	0.197750332	3.279E-07	2.02E-04	1.18E-03	6.94E-04	7.72E-01	7.28E-01	5.46E-01
1131	482831.63	3853134.48	0.02305	0.08099	0.00318	0.00387	0.003	0.005	0.0826	0.08099	0.24049838	0.14958251	3.311E-07	2.04E-04	1.18E-03	6.91E-04	5.85E-01	5.51E-01	4.27E-01
1132	482881.63	3853134.48	0.01949	0.06543	0.00317	0.00391	0.003	0.005	0.0668	0.06543	0.20335416	0.120844347	3.3E-07	2.06E-04	1.18E-03	6.91E-04	4.73E-01	4.45E-01	3.55E-01
1133	482831.63	3853184.48	0.02618	0.09296	0.0033	0.00408	0.003	0.005	0.0947	0.09296	0.27315608	0.17169021	3.436E-07	2.15E-04	1.20E-03	7.34E-04	6.71E-01	6.32E-01	4.86E-01
1134	482881.63	3853184.48	0.0216	0.07273	0.00331	0.00412	0.003	0.005	0.0743	0.07273	0.22536942	0.134326904	3.446E-07	2.17E-04	1.20E-03	7.36E-04	5.26E-01	4.95E-01	3.93E-01
1135	484154.84	3854250.98	0.03453	0.01126	0.01176	0.05493	0.004	0.038	0.03	0.01126	0.36027805	0.020796383	1.224E-06	2.89E-03	1.79E-03	5.29E-03	2.13E-01	7.66E-02	5.27E-01
1136	484204.84	3854250.98	0.03336	0.01091	0.01194	0.05095	0.004	0.035	0.0284	0.01091	0.34807054	0.020149959	1.243E-06	2.68E-03	1.79E-03	4.96E-03	2.01E-01	7.42E-02	5.05E-01
1137	484154.84	3854300.98	0.03766	0.01115	0.0136	0.0622	0.004	0.041	0.0329	0.01115	0.39293575	0.020593221	1.416E-06	3.28E-03	1.82E-03	5.73E-03	2.33E-01	7.58E-02	5.82E-01
1138	484204.84	3854300.98	0.03618	0.01088	0.01387	0.05767	0.004	0.038	0.0312	0.01088	0.37749377	0.020094551	1.444E-06	3.04E-03	1.82E-03	5.39E-03	2.21E-01	7.40E-02	5.55E-01
1139	484074.19	3854519.8	0.06689	0.01231	0.02923	0.22269	0.004	0.103	0.0843	0.01231	0.69791483	0.022735655	3.043E-06	1.17E-02	1.93E-03	1.46E-02	5.97E-01	8.37E-02	1.26E+00
1140	484124.19	3854519.8	0.062	0.01182	0.02878	0.17027	0.004	0.084	0.0711	0.01182	0.64689369	0.021830661	2.996E-06	8.97E-03	1.94E-03	1.19E-02	5.04E-01	8.04E-02	1.11E+00
1141	484074.19	3854569.8	0.07909	0.01262	0.03562	0.37789	0.004	0.146	0.1173	0.01262	0.82520681	0.023308202	3.708E-06	1.99E-02	1.97E-03	2.05E-02	8.31E-01	8.58E-02	1.64E+00
1142	484124.19	3854569.8	0.07217	0.01204	0.03468	0.24938	0.004	0.109	0.093	0.01204	0.75300513	0.022236985	3.61E-06	1.31E-02	1.97E-03	1.53E-02	6.59E-01	8.19E-02	1.38E+00
1143	485205.11	3855188.89	0.07078	0.01134	0.01893	0.18798	0.007	0.083	0.0672	0.01134	0.73850219	0.020944137	1.971E-06	9.90E-03	3.18E-03	1.16E-02	4.76E-01	7.71E-02	1.18E+00
1144	485255.11	3855188.89	0.06672	0.01095	0.01837	0.1469	0.007	0.07	0.0576	0.01095	0.69614109	0.020223836	1.912E-06	7.74E-03	3.18E-03	9.84E-03	4.08E-01	7.45E-02	1.07E+00
1145	485205.11	3855238.89	0.07827	0.01159	0.01851	0.26222	0.007	0.1	0.0778	0.01159	0.81665112	0.021405869	1.927E-06	1.38E-02	3.30E-03	1.40E-02	5.51E-01	7.88E-02	1.34E+00
1146	485255.11	3855238.89	0.07244	0.01131	0.01834	0.19309	0.007	0.083	0.066	0.01131	0.75582225	0.020888729	1.909E-06	1.02E-02	3.31E-03	1.16E-02	4.67E-01	7.69E-02	1.19E+00
1147	485205.11	3855288.89	0.08631	0.01226	0.01899	0.47875	0.007	0.14	0.1013	0.01226	0.90053863	0.022643309	1.977E-06	2.52E-02	3.45E-03	1.97E-02	7.18E-01	8.34E-02	1.61E+00
1148	485255.11	3855288.89	0.07879	0.0119	0.01891	0.29194	0.007	0.107	0.081	0.0119	0.82207668	0.021978415	1.969E-06	1.54E-02	3.46E-03	1.50E-02	5.74E-01	8.09E-02	1.37E+00
1149	485255.11	3855338.89	0.0877	0.01255	0.01972	0.54582	0.008	0.148	0.1037	0.01255	0.91504156	0.023178917	2.053E-06	2.88E-02	3.61E-03	2.08E-02	7.35E-01	8.53E-02	1.64E+00
1150	485305.11	3855338.89	0.07977	0.01212	0.01961	0.31977	0.008	0.112	0.0829	0.01212	0.83230177	0.022384739	2.042E-06	1.68E-02	3.62E-03	1.57E-02	5.87E-01	8.24E-02	1.40E+00
1151	485852.5	3855635.28	0.06225	0.01155	0.02865	0.119	0.011	0.058	0.0435	0.01155	0.64950214	0.021331992	2.983E-06	6.27E-03	5.08E-03	8.18E-03	3.08E-01	7.85E-02	9.20E-01
1152	485902.5	3855635.28	0.05968	0.01119	0.02797	0.10147	0.011	0.052	0.0393	0.01119	0.62268735	0.020667098	2.912E-06	5.34E-03	5.12E-03	7.32E-03	2.78E-01	7.61E-02	8.63E-01
1153	485852.5	3855685.28	0.06619	0.01194	0.03181	0.14714	0.011	0.066	0.0485	0.01194	0.69061119	0.022052293	3.312E-06	7.75E-03	5.36E-03	9.35E-03	3.44E-01	8.12E-02	9.98E-01
1154	485902.5	3855685.28	0.06315	0.01155	0.0308	0.12096	0.012	0.058	0.0432	0.01155	0.65889253	0.021331992	3.206E-06	6.37E-03	5.39E-03	8.22E-03	3.06E-01	7.85E-02	9.28E-01
1155	485852.5	3855735.28	0.0709	0.01235	0.03532	0.19232	0.012	0.078	0.0548	0.01235	0.73975424	0.022809532	3.677E-06	1.01E-02	5.67E-03	1.10E-02	3.88E-01	8.40E-02	1.09E+00
1156	485902.5	3855735.28	0.06703	0.012	0.03417	0.15206	0.012	0.067	0.0484	0.012	0.69937555	0.022163108	3.557E-06	8.01E-03	5.71E-03	9.46E-03	3.43E-01	8.16E-02	1.01E+00

1157	485852.5	3855785.28	0.0766	0.01287	0.03949	0.28133	0.013	0.097	0.0634	0.01287	0.79922673	0.023769933	4.111E-06	1.48E-02	6.00E-03	1.36E-02	4.49E-01	8.75E-02	1.22E+00
1158	485902.5	3855785.28	0.07192	0.01239	0.0376	0.20127	0.013	0.079	0.0545	0.01239	0.75039669	0.022883409	3.914E-06	1.06E-02	6.04E-03	1.11E-02	3.86E-01	8.43E-02	1.10E+00
1159	486809.46	3856465.28	0.06315	0.01226	0.01521	0.13094	0.056	0.061	0.0391	0.01226	0.65889253	0.022643309	1.583E-06	6.90E-03	2.62E-02	8.53E-03	2.77E-01	8.34E-02	9.17E-01
1160	486859.46	3856465.28	0.06018	0.01207	0.01503	0.11137	0.058	0.055	0.0362	0.01207	0.62790423	0.022292393	1.565E-06	5.87E-03	2.74E-02	7.73E-03	2.56E-01	8.21E-02	8.65E-01
1161	486909.46	3856465.28	0.05759	0.01186	0.0148	0.09701	0.061	0.05	0.0336	0.01186	0.60088077	0.021904538	1.541E-06	5.11E-03	2.85E-02	7.09E-03	2.38E-01	8.06E-02	8.21E-01
1162	486809.46	3856515.28	0.06668	0.01267	0.0146	0.16188	0.063	0.069	0.043	0.01267	0.69572373	0.023400548	1.52E-06	8.53E-03	2.95E-02	9.74E-03	3.05E-01	8.62E-02	9.85E-01
1163	486859.46	3856515.28	0.06317	0.01248	0.01451	0.13264	0.066	0.062	0.0394	0.01248	0.6591012	0.023049632	1.511E-06	6.99E-03	3.11E-02	8.68E-03	2.79E-01	8.49E-02	9.23E-01
1164	486909.46	3856515.28	0.06017	0.01228	0.01436	0.11257	0.07	0.056	0.0363	0.01228	0.6277999	0.022680247	1.495E-06	5.93E-03	3.27E-02	7.86E-03	2.57E-01	8.35E-02	8.71E-01
1165	486980.94	3856357.95	0.05029	0.0109	0.01553	0.06578	0.049	0.039	0.0267	0.0109	0.52471426	0.02013149	1.617E-06	3.46E-03	2.30E-02	5.42E-03	1.89E-01	7.41E-02	6.92E-01
1166	487030.94	3856357.95	0.04867	0.01075	0.01518	0.06074	0.051	0.037	0.0254	0.01075	0.50781155	0.019854451	1.58E-06	3.20E-03	2.39E-02	5.14E-03	1.80E-01	7.31E-02	6.66E-01
1167	486980.94	3856407.95	0.05204	0.01123	0.015	0.07251	0.056	0.041	0.0284	0.01123	0.54297335	0.020740975	1.562E-06	3.82E-03	2.61E-02	5.82E-03	2.01E-01	7.64E-02	7.24E-01
1168	487030.94	3856407.95	0.05026	0.01106	0.01467	0.06636	0.058	0.039	0.0269	0.01106	0.52440124	0.020426998	1.527E-06	3.50E-03	2.71E-02	5.49E-03	1.90E-01	7.52E-02	6.96E-01
1169	487447.18	3856437.45	0.04016	0.01013	0.01222	0.04094	0.076	0.028	0.0192	0.01013	0.41902017	0.018709357	1.272E-06	2.16E-03	3.55E-02	3.96E-03	1.36E-01	6.89E-02	5.47E-01
1170	487497.18	3856437.45	0.03918	0.01002	0.01206	0.0391	0.076	0.027	0.0186	0.01002	0.40879508	0.018506195	1.256E-06	2.06E-03	3.58E-02	3.84E-03	1.32E-01	6.81E-02	5.32E-01
1171	487547.18	3856437.45	0.03825	0.00993	0.01192	0.03745	0.077	0.027	0.018	0.00993	0.39909167	0.018339972	1.241E-06	1.97E-03	3.62E-02	3.73E-03	1.27E-01	6.75E-02	5.19E-01
1172	487447.18	3856487.45	0.04106	0.01039	0.01192	0.04322	0.091	0.029	0.02	0.01039	0.42841057	0.019189558	1.241E-06	2.28E-03	4.25E-02	4.15E-03	1.42E-01	7.07E-02	5.68E-01
1173	487497.18	3856487.45	0.04003	0.01027	0.01177	0.04115	0.092	0.029	0.0193	0.01027	0.41766378	0.018967927	1.225E-06	2.17E-03	4.31E-02	4.01E-03	1.37E-01	6.98E-02	5.53E-01
1174	487547.18	3856487.45	0.03904	0.01017	0.01163	0.0393	0.094	0.028	0.0186	0.01017	0.40733435	0.018783234	1.211E-06	2.07E-03	4.38E-02	3.89E-03	1.32E-01	6.92E-02	5.39E-01
1175	487447.18	3856537.45	0.04203	0.01066	0.01168	0.04578	0.11	0.031	0.0208	0.01066	0.43853132	0.019688228	1.216E-06	2.41E-03	5.15E-02	4.35E-03	1.47E-01	7.25E-02	5.91E-01
1176	487497.18	3856537.45	0.04093	0.01053	0.01153	0.04344	0.112	0.03	0.02	0.01053	0.42705418	0.019448127	1.2E-06	2.29E-03	5.25E-02	4.20E-03	1.42E-01	7.16E-02	5.76E-01
1177	487547.18	3856537.45	0.03987	0.01043	0.01141	0.04137	0.115	0.029	0.0193	0.01043	0.41599438	0.019263435	1.188E-06	2.18E-03	5.39E-02	4.06E-03	1.37E-01	7.09E-02	5.61E-01
1178	489285.89	3858826.54	0.04914	0.04791	0.01783	0.49404	0.013	0.132	0.0497	0.04791	0.51271542	0.088486209	1.856E-06	2.60E-02	5.97E-03	1.86E-02	3.52E-01	3.26E-01	6.78E-01
1179	489335.89	3858826.54	0.04708	0.04463	0.01822	0.3378	0.013	0.112	0.0456	0.04463	0.49122186	0.082428293	1.897E-06	1.78E-02	5.89E-03	1.57E-02	3.23E-01	3.03E-01	6.32E-01
1180	489385.89	3858826.54	0.04524	0.04175	0.01863	0.25922	0.012	0.098	0.042	0.04175	0.47202372	0.077109147	1.939E-06	1.37E-02	5.84E-03	1.37E-02	2.98E-01	2.84E-01	5.96E-01
1181	489435.89	3858826.54	0.0436	0.03926	0.01913	0.21208	0.012	0.088	0.0391	0.03926	0.45491234	0.072510302	1.992E-06	1.12E-02	5.80E-03	1.23E-02	2.77E-01	2.67E-01	5.67E-01
1182	489485.89	3858826.54	0.0421	0.03708	0.01989	0.18056	0.012	0.08	0.0366	0.03708	0.43926169	0.068484004	2.071E-06	9.51E-03	5.78E-03	1.12E-02	2.59E-01	2.52E-01	5.41E-01
1183	489535.89	3858826.54	0.04072	0.03514	0.02096	0.15788	0.012	0.074	0.0344	0.03514	0.42486308	0.064900968	2.182E-06	8.32E-03	5.78E-03	1.04E-02	2.44E-01	2.39E-01	5.19E-01
1184	489585.89	3858826.54	0.03946	0.03342	0.02177	0.1408	0.012	0.069	0.0325	0.03342	0.41171654	0.061724256	2.266E-06	7.42E-03	5.79E-03	9.64E-03	2.30E-01	2.27E-01	4.99E-01
1185	489635.89	3858826.54	0.03829	0.03187	0.02162	0.12737	0.012	0.064	0.0308	0.03187	0.39950903	0.058861521	2.251E-06	6.71E-03	5.81E-03	9.04E-03	2.18E-01	2.17E-01	4.82E-01
1186	489685.89	3858826.54	0.03721	0.03046	0.02087	0.11655	0.012	0.061	0.0294	0.03046	0.38824055	0.056257356	2.173E-06	6.14E-03	5.85E-03	8.53E-03	2.08E-01	2.07E-01	4.66E-01
1187	489735.89	3858826.54	0.0362	0.02916	0.02005	0.10766	0.013	0.057	0.028	0.02916	0.37770245	0.053856353	2.087E-06	5.67E-03	5.89E-03	8.09E-03	1.98E-01	1.98E-01	4.51E-01
1188	489785.89	3858826.54	0.03525	0.02801	0.01922	0.1003	0.013	0.055	0.0268	0.02801	0.36779037	0.051732388	2.001E-06	5.28E-03	5.94E-03	7.70E-03	1.90E-01	1.90E-01	4.38E-01
1189	489835.89	3858826.54	0.03438	0.02691	0.01865	0.09398	0.013	0.052	0.0257	0.02691	0.35871299	0.04970077	1.942E-06	4.95E-03	5.98E-03	7.36E-03	1.82E-01	1.83E-01	4.26E-01
1190	489885.89	3858826.54	0.03353	0.02592	0.01831	0.08866	0.013	0.05	0.0247	0.02592	0.34984428	0.047872313	1.906E-06	4.67E-03	6.02E-03	7.06E-03	1.75E-01	1.76E-01	4.14E-01
1191	489935.89	3858826.54	0.03273	0.02499	0.01788	0.08404	0.013	0.048	0.0238	0.02499	0.34149727	0.046154673	1.861E-06	4.43E-03	6.05E-03	6.79E-03	1.69E-01	1.70E-01	4.04E-01
1192	489985.89	3858826.54	0.03198	0.02412	0.01752	0.07996	0.013	0.046	0.0229	0.02412	0.33367194	0.044547847	1.824E-06	4.21E-03	6.09E-03	6.54E-03	1.62E-01	1.64E-01	3.93E-01
1193	490035.89	3858826.54	0.03129	0.02325	0.01742	0.07629	0.013	0.045	0.0221	0.02325	0.32647264	0.042941022	1.814E-06	4.02E-03	6.12E-03	6.30E-03	1.56E-01	1.58E-01	3.84E-01
1194	489285.89	3858876.54	0.05115	0.05542	0.01876	0.56935	0.012	0.173	0.0578	0.05542	0.5336873	0.102356621	1.953E-06	3.00E-02	5.72E-03	2.43E-02	4.09E-01	3.77E-01	7.29E-01
1195	489335.89	3858876.54	0.04879	0.05102	0.0192	0.381	0.012	0.138	0.0522	0.05102	0.5090636	0.094230148	1.999E-06	2.01E-02	5.63E-03	1.94E-02	3.70E-01	3.47E-01	6.72E-01
1196	489385.89	3858876.54	0.04672	0.04731	0.01976	0.28855	0.012	0.117	0.0477	0.04731	0.4874657	0.087378054	2.057E-06	1.52E-02	5.56E-03	1.64E-02	3.38E-01	3.22E-01	6.28E-01
1197	489435.89	3858876.54	0.04495	0.0441	0.02039	0.23337	0.012	0.102	0.044	0.0441	0.46899793	0.081449422	2.123E-06	1.23E-02	5.51E-03	1.43E-02	3.11E-01	3.00E-01	5.94E-01
1198	489485.89	3858876.54	0.04335	0.04132	0.02121	0.19663	0.012	0.091	0.0408	0.04132	0.4523039	0.076314969	2.208E-06	1.04E-02	5.47E-03	1.28E-02	2.89E-01	2.81E-01	5.65E-01
1199	489535.89	3858876.54	0.04186	0.03889	0.02241	0.17037	0.012	0.082	0.0381	0.03889	0.43675758	0.071826939	2.333E-06	8.97E-03	5.45E-03	1.16E-02	2.70E-01	2.64E-01	5.40E-01
1200	489585.89	3858876.54	0.0405	0.03672	0.02358	0.15055	0.012	0.076	0.0357	0.03672	0.42256766	0.067819111	2.455E-06	7.93E-03	5.45E-03	1.06E-02	2.53E-01	2.50E-01	5.18E-01
1201	489635.89	3858876.54	0.03922	0.03483	0.02375	0.13535	0.012	0.07	0.0337	0.03483	0.40921243	0.064328421	2.473E-06	7.13E-03	5.46E-03	9.88E-03	2.39E-01	2.37E-01	4.98E-01
1202	489685.89	3858876.54	0.03805	0.03314	0.02294	0.12312	0.012	0.066	0.0319	0.03314	0.39700492	0.061207117	2.388E-06	6.49E-03	5.49E-03	9.24E-03	2.26E-01	2.25E-01	4.80E-01
1203	489735.89	3858876.54	0.03697	0.03159	0.02196	0.11306	0.012	0.062	0.0303	0.03159	0.38573645	0.058344382	2.286E-06	5.96E-03	5.52E-03	8.69E-03	2.15E-01	2.15E-01	4.64E-01
1204	489785.89	3858876.54	0.03595	0.03022	0.02102	0.10482	0.012	0.059	0.0289	0.03022	0.37509401	0.055814094	2.188E-06	5.52E-03	5.56E-03	8.23E-03	2.05E-01	2.05E-01	4.50E-01
1205	489835.89	3858876.54	0.035	0.02896	0.02038	0.09775	0.012	0.056	0.0277	0.02896	0.36518192	0.053486967	2.122E-06	5.15E-03	5.60E-03	7.82E-03	1.96E-01	1.97E-01	4.36E-01
1206	489885.89	3858876.54	0.03409	0.02784	0.01997	0.09188	0.012	0.053	0.0266	0.02784	0.35568719	0.051418411	2.079E-06	4.84E-03	5.64E-03	7.47E-03	1.88E-01	1.89E-01	4.24E-01
1207	489935.89	3858876.54	0.03325	0.02675	0.01942	0.08665	0.012	0.051	0.0255	0.02675	0.34692283	0.049405262	2.022E-06	4.56E-03	5.68E-03	7.14E-03	1.80E-01	1.82E-01	4.12E-01
1208	489985.89	3858876.54	0.03247	0.02569	0.01908	0.08205	0.012	0.049	0.0244	0.02569	0.33878449	0.047447521	1.986E-06	4.32E-03	5.72E-03	6.85E-03	1.73E-01	1.75E-01	4.02E-01
1209	490035.89	3858876.54	0.03173	0.02472	0.01921	0.07805	0.012	0.047	0.0235	0.02472	0.3310635	0.045656003	2E-06	4.11E-03	5.76E-03	6.58E-03	1.66E-01	1.68E-01	3.91E-01
1210	489285.89	3858926.54	0.05459	0.06592	0.02028	0.78878	0.012	0.271	0.0691	0.06592	0.56957946	0.12174934	2.111E-06	4.15E-02	5.51E-03	3.82E-02	4.89E-01	4.48E-01	8.18E-01
1211	489335.89	3858926.54	0.05184	0.05974	0.02076	0.49518	0.012	0.195	0.0613	0.05974	0.5408866	0.11033534	2.161E-06	2.61E-02	5.41E-03	2.75E-02	4.34E-01	4.06E-01	7.38E-01
1212	489385.89	3858926.54	0.04952	0.0546	0.0214	0.35454	0.011	0.152	0.0551	0.0546	0.51668025	0.100842142	2.228E-06	1.87E-02	5.32E-03	2.14E-02	3.91E-01	3.71E-01	6.82E-01
1213	489435.89	3858926.54	0.0475	0.05035	0.02222	0.27598	0.011	0.126	0.0502	0.05035	0.49560404	0.092992708	2.313E-06	1.45E-02	5.26E-03	1.77E-02	3.56E-01	3.42E-01	6.39E-01
1214	489485.89	3858926.54	0.04557	0.04672	0.02316	0.22617	0.011	0.108	0.0461	0.04672	0.47546687	0.086288367	2.411E-06	1.19E-02	5.21E-03	1.52E-02	3.27E-01	3.18E-01	6.03E-01

1215	489535.89	3858926.54	0.04371	0.04358	0.02449	0.19198	0.011	0.096	0.0427	0.04358	0.45606005	0.080489021	2.55E-06	1.01E-02	5.18E-03	1.34E-02	3.03E-01	2.96E-01	5.71E-01
1216	489585.89	3858926.54	0.04205	0.04086	0.0261	0.1671	0.011	0.086	0.0398	0.04086	0.43874	0.075465383	2.717E-06	8.80E-03	5.16E-03	1.21E-02	2.82E-01	2.78E-01	5.44E-01
1217	489635.89	3858926.54	0.04057	0.03848	0.02674	0.14826	0.011	0.078	0.0373	0.03848	0.42329802	0.0710697	2.784E-06	7.81E-03	5.16E-03	1.10E-02	2.64E-01	2.62E-01	5.21E-01
1218	489685.89	3858926.54	0.03923	0.03636	0.02591	0.13338	0.011	0.072	0.0351	0.03636	0.40931677	0.067154217	2.697E-06	7.03E-03	5.17E-03	1.02E-02	2.48E-01	2.47E-01	5.00E-01
1219	489735.89	3858926.54	0.03798	0.03453	0.02477	0.12159	0.011	0.067	0.0332	0.03453	0.39627456	0.063774343	2.579E-06	6.40E-03	5.19E-03	9.49E-03	2.35E-01	2.35E-01	4.81E-01
1220	489785.89	3858926.54	0.03684	0.03289	0.02368	0.11191	0.011	0.063	0.0315	0.03289	0.38438006	0.060745385	2.465E-06	5.89E-03	5.21E-03	8.91E-03	2.23E-01	2.24E-01	4.65E-01
1221	489835.89	3858926.54	0.0358	0.03137	0.02293	0.10365	0.011	0.06	0.03	0.03137	0.37352894	0.057938058	2.387E-06	5.46E-03	5.25E-03	8.40E-03	2.13E-01	2.13E-01	4.50E-01
1222	489885.89	3858926.54	0.0348	0.03002	0.02234	0.09677	0.011	0.057	0.0287	0.03002	0.36309517	0.055444709	2.326E-06	5.10E-03	5.28E-03	7.97E-03	2.03E-01	2.04E-01	4.36E-01
1223	489935.89	3858926.54	0.03389	0.02877	0.02173	0.09076	0.011	0.054	0.0274	0.02877	0.35360044	0.053136052	2.262E-06	4.78E-03	5.33E-03	7.58E-03	1.94E-01	1.96E-01	4.23E-01
1224	489985.89	3858926.54	0.03305	0.02758	0.02157	0.0855	0.011	0.051	0.0263	0.02758	0.34483607	0.05093821	2.246E-06	4.50E-03	5.37E-03	7.23E-03	1.86E-01	1.88E-01	4.11E-01
1225	490035.89	3858926.54	0.0323	0.02634	0.02193	0.08077	0.012	0.049	0.0251	0.02634	0.33701075	0.048648022	2.283E-06	4.25E-03	5.43E-03	6.90E-03	1.78E-01	1.79E-01	4.01E-01
1226	489335.89	3858976.54	0.06026	0.07214	0.0231	0.88238	0.011	0.339	0.0742	0.07214	0.62873894	0.133237218	2.405E-06	4.65E-02	5.21E-03	4.77E-02	5.26E-01	4.91E-01	8.96E-01
1227	489385.89	3858976.54	0.05799	0.06471	0.02383	0.53197	0.011	0.229	0.0654	0.06471	0.60505428	0.11951456	2.481E-06	2.80E-02	5.12E-03	3.23E-02	4.64E-01	4.40E-01	8.14E-01
1228	489435.89	3858976.54	0.05354	0.05882	0.02488	0.37151	0.011	0.172	0.0588	0.05882	0.55862401	0.108636168	2.59E-06	1.96E-02	5.04E-03	2.42E-02	4.16E-01	4.00E-01	7.32E-01
1229	489485.89	3858976.54	0.04975	0.05385	0.02605	0.28454	0.011	0.138	0.0533	0.05385	0.51908002	0.099456947	2.712E-06	1.50E-02	4.98E-03	1.94E-02	3.78E-01	3.66E-01	6.69E-01
1230	489535.89	3858976.54	0.04671	0.04965	0.02752	0.23085	0.011	0.116	0.0488	0.04965	0.48736136	0.09169986	2.865E-06	1.22E-02	4.94E-03	1.63E-02	3.45E-01	3.38E-01	6.20E-01
1231	489585.89	3858976.54	0.04434	0.04615	0.02958	0.19502	0.01	0.101	0.0451	0.04615	0.46263333	0.08523562	3.079E-06	1.03E-02	4.90E-03	1.42E-02	3.19E-01	3.14E-01	5.83E-01
1232	489635.89	3858976.54	0.04245	0.04308	0.03092	0.16904	0.01	0.09	0.0419	0.04308	0.44291351	0.079565558	3.219E-06	8.90E-03	4.89E-03	1.27E-02	2.97E-01	2.93E-01	5.53E-01
1233	489685.89	3858976.54	0.04082	0.0404	0.03023	0.1494	0.01	0.082	0.0391	0.0404	0.42590646	0.074615797	3.147E-06	7.87E-03	4.89E-03	1.15E-02	2.77E-01	2.75E-01	5.27E-01
1234	489735.89	3858976.54	0.03935	0.0381	0.02881	0.13424	0.01	0.075	0.0367	0.0381	0.41056882	0.070367868	2.999E-06	7.07E-03	4.90E-03	1.05E-02	2.60E-01	2.59E-01	5.05E-01
1235	489785.89	3858976.54	0.03802	0.0361	0.02752	0.12219	0.01	0.07	0.0347	0.0361	0.39669191	0.066674017	2.865E-06	6.44E-03	4.90E-03	9.79E-03	2.46E-01	2.45E-01	4.85E-01
1236	489835.89	3858976.54	0.03681	0.0343	0.02666	0.11223	0.011	0.065	0.0329	0.0343	0.38406705	0.063349551	2.775E-06	5.91E-03	4.93E-03	9.15E-03	2.33E-01	2.33E-01	4.67E-01
1237	489885.89	3858976.54	0.03574	0.03261	0.02575	0.10363	0.011	0.061	0.0312	0.03261	0.37290291	0.060228246	2.681E-06	5.46E-03	4.97E-03	8.58E-03	2.21E-01	2.22E-01	4.52E-01
1238	489935.89	3858976.54	0.03473	0.0311	0.02514	0.09643	0.011	0.058	0.0298	0.0311	0.36236481	0.057439388	2.617E-06	5.08E-03	5.01E-03	8.10E-03	2.11E-01	2.11E-01	4.37E-01
1239	489985.89	3858976.54	0.03379	0.02974	0.0254	0.09033	0.011	0.055	0.0284	0.02974	0.35255706	0.054927569	2.644E-06	4.76E-03	5.05E-03	7.69E-03	2.01E-01	2.02E-01	4.24E-01
1240	490035.89	3858976.54	0.03304	0.02803	0.02601	0.08411	0.011	0.051	0.0267	0.02803	0.34473174	0.051769327	2.708E-06	4.43E-03	5.13E-03	7.22E-03	1.89E-01	1.91E-01	4.12E-01
1241	489385.89	3859026.54	0.06833	0.07957	0.02744	0.62801	0.011	0.432	0.0809	0.07957	0.71293945	0.146959876	2.857E-06	3.31E-02	4.94E-03	6.08E-02	5.73E-01	5.41E-01	9.91E-01
1242	489435.89	3859026.54	0.06365	0.07067	0.02866	0.63159	0.01	0.274	0.071	0.07067	0.66410941	0.130522237	2.984E-06	3.33E-02	4.85E-03	3.86E-02	5.03E-01	4.81E-01	8.94E-01
1243	489485.89	3859026.54	0.05539	0.06356	0.03019	0.41739	0.01	0.196	0.0632	0.06356	0.57792648	0.117390596	3.143E-06	2.20E-02	4.78E-03	2.76E-02	4.48E-01	4.32E-01	7.65E-01
1244	489535.89	3859026.54	0.05062	0.05781	0.03205	0.3088	0.01	0.153	0.0571	0.05781	0.5281574	0.106770773	3.337E-06	1.63E-02	4.73E-03	2.15E-02	4.04E-01	3.93E-01	6.89E-01
1245	489585.89	3859026.54	0.04754	0.05298	0.03446	0.24491	0.01	0.126	0.052	0.05298	0.49602139	0.097850122	3.587E-06	1.29E-02	4.68E-03	1.77E-02	3.68E-01	3.60E-01	6.37E-01
1246	489635.89	3859026.54	0.04516	0.04898	0.03681	0.20369	0.01	0.108	0.0478	0.04898	0.47118902	0.090462419	3.832E-06	1.07E-02	4.66E-03	1.52E-02	3.39E-01	3.33E-01	5.98E-01
1247	489685.89	3859026.54	0.04312	0.04554	0.03659	0.17478	0.01	0.095	0.0443	0.04554	0.44990413	0.084108995	3.809E-06	9.21E-03	4.64E-03	1.34E-02	3.14E-01	3.10E-01	5.65E-01
1248	489735.89	3859026.54	0.04128	0.04263	0.03483	0.15359	0.01	0.085	0.0413	0.04263	0.430706	0.078734441	3.626E-06	8.09E-03	4.63E-03	1.20E-02	2.93E-01	2.90E-01	5.37E-01
1249	489785.89	3859026.54	0.03964	0.04008	0.03319	0.13726	0.01	0.078	0.0387	0.04008	0.41359461	0.074024781	3.455E-06	7.23E-03	4.64E-03	1.10E-02	2.74E-01	2.73E-01	5.12E-01
1250	489835.89	3859026.54	0.03823	0.03774	0.03193	0.124	0.01	0.072	0.0364	0.03774	0.398883	0.069702975	3.324E-06	6.53E-03	4.66E-03	1.01E-02	2.58E-01	2.57E-01	4.91E-01
1251	489885.89	3859026.54	0.03694	0.03573	0.03082	0.11332	0.01	0.067	0.0344	0.03573	0.38542344	0.065990654	3.209E-06	5.97E-03	4.68E-03	9.37E-03	2.43E-01	2.43E-01	4.72E-01
1252	489935.89	3859026.54	0.03578	0.0339	0.03046	0.10439	0.01	0.062	0.0326	0.0339	0.37332026	0.06261078	3.171E-06	5.50E-03	4.72E-03	8.76E-03	2.31E-01	2.31E-01	4.55E-01
1253	489985.89	3859026.54	0.03471	0.03224	0.03143	0.09685	0.01	0.059	0.0309	0.03224	0.36215613	0.059544884	3.272E-06	5.10E-03	4.75E-03	8.25E-03	2.19E-01	2.19E-01	4.40E-01
1254	490035.89	3859026.54	0.03389	0.03014	0.03288	0.08906	0.01	0.054	0.0289	0.03014	0.35360044	0.05566634	3.423E-06	4.69E-03	4.83E-03	7.66E-03	2.04E-01	2.05E-01	4.26E-01
1255	489485.89	3859076.54	0.06196	0.07771	0.0363	0.81758	0.01	0.336	0.0781	0.07771	0.64647634	0.143524594	3.779E-06	4.31E-02	4.61E-03	4.73E-02	5.54E-01	5.28E-01	9.10E-01
1256	489535.89	3859076.54	0.0587	0.06916	0.03876	0.49721	0.01	0.228	0.0689	0.06916	0.61246226	0.127733379	4.035E-06	2.62E-02	4.54E-03	3.20E-02	4.88E-01	4.70E-01	8.21E-01
1257	489585.89	3859076.54	0.05403	0.06233	0.04177	0.34786	0.01	0.17	0.0617	0.06233	0.56373655	0.115118877	4.349E-06	1.83E-02	4.50E-03	2.40E-02	4.37E-01	4.24E-01	7.39E-01
1258	489635.89	3859076.54	0.05015	0.05687	0.04541	0.26735	0.009	0.137	0.0559	0.05687	0.52325353	0.105034663	4.727E-06	1.41E-02	4.45E-03	1.93E-02	3.96E-01	3.87E-01	6.76E-01
1259	489685.89	3859076.54	0.04689	0.0523	0.04623	0.21766	0.009	0.116	0.0512	0.0523	0.48923944	0.096594213	4.813E-06	1.15E-02	4.42E-03	1.63E-02	3.63E-01	3.56E-01	6.25E-01
1260	489735.89	3859076.54	0.04415	0.04842	0.04399	0.18409	0.009	0.101	0.0472	0.04842	0.46065091	0.089428141	4.58E-06	9.70E-03	4.41E-03	1.41E-02	3.34E-01	3.29E-01	5.84E-01
1261	489785.89	3859076.54	0.0419	0.0451	0.04177	0.15994	0.009	0.089	0.0438	0.0451	0.43717493	0.083296348	4.349E-06	8.42E-03	4.40E-03	1.26E-02	3.10E-01	3.07E-01	5.50E-01
1262	489835.89	3859076.54	0.04005	0.04216	0.04008	0.14155	0.009	0.081	0.0409	0.04216	0.41787246	0.077866386	4.173E-06	7.46E-03	4.41E-03	1.14E-02	2.89E-01	2.87E-01	5.22E-01
1263	489885.89	3859076.54	0.03846	0.03959	0.03873	0.12716	0.009	0.074	0.0383	0.03959	0.40128277	0.073119787	4.032E-06	6.70E-03	4.43E-03	1.04E-02	2.71E-01	2.69E-01	4.98E-01
1264	489935.89	3859076.54	0.03705	0.03736	0.03929	0.11566	0.009	0.068	0.036	0.03736	0.38657115	0.069001143	4.09E-06	6.09E-03	4.45E-03	9.63E-03	2.55E-01	2.54E-01	4.77E-01
1265	489985.89	3859076.54	0.03582	0.03532	0.04167	0.10601	0.01	0.064	0.034	0.03532	0.37373762	0.065233415	4.338E-06	5.58E-03	4.49E-03	8.97E-03	2.41E-01	2.40E-01	4.59E-01
1266	490035.89	3859076.54	0.03483	0.03294	0.04485	0.09661	0.01	0.059	0.0317	0.03294	0.36340818	0.060837732	4.669E-06	5.09E-03	4.55E-03	8.27E-03	2.24E-01	2.24E-01	4.43E-01
1267	489585.89	3859126.54	0.06846	0.07596	0.05331	0.62204	0.009	0.271	0.0759	0.07596	0.71429584	0.140292474	5.55E-06	3.28E-02	4.32E-03	3.82E-02	5.37E-01	5.17E-01	9.51E-01
1268	489635.89	3859126.54	0.05925	0.06792	0.05855	0.4064	0.009	0.194	0.0674	0.06792	0.61820083	0.125443192	6.095E-06	2.14E-02	4.27E-03	2.73E-02	4.77E-01	4.62E-01	8.12E-01
1269	489685.89	3859126.54	0.05253	0.06141	0.0613	0.29865	0.009	0.151	0.0606	0.06141	0.5480859	0.113419706	6.382E-06	1.57E-02	4.23E-03	2.13E-02	4.29E-01	4.18E-01	7.14E-01
1270	489735.89	3859126.54	0.04795	0.05607	0.05851	0.23637	0.009	0.125	0.055	0.05607	0.50029924	0.103557122	6.091E-06	1.25E-02	4.21E-03	1.75E-02	3.90E-01	3.81E-01	6.47E-01
1271	489785.89	3859126.54	0.04475	0.05162	0.05538	0.19623	0.009	0.107	0.0505	0.05162	0.46691117	0.095338303	5.765E-06	1.03E-02	4.20E-03	1.50E-02	3.58E-01	3.51E-01	5.98E-01
1272	489835.89	3859126.54	0.04234	0.04778	0.05291	0.16806	0.009	0.094	0.0466	0.04778	0.44176579	0.088246109	5.508E-06	8.85E-03	4.20E-03	1.32E-02	3.30E-01	3.25E-01	5.61E-01

1273	489885.89	3859126.54	0.04036	0.04443	0.05182	0.14719	0.009	0.084	0.0432	0.04443	0.42110693	0.082058908	5.395E-06	7.75E-03	4.21E-03	1.18E-02	3.06E-01	3.02E-01	5.31E-01
1274	489935.89	3859126.54	0.03865	0.04161	0.05456	0.13143	0.009	0.077	0.0404	0.04161	0.40326518	0.076850577	5.68E-06	6.92E-03	4.22E-03	1.08E-02	2.86E-01	2.83E-01	5.05E-01
1275	489985.89	3859126.54	0.03722	0.03892	0.05948	0.11819	0.009	0.07	0.0377	0.03892	0.38834489	0.071882347	6.192E-06	6.23E-03	4.25E-03	9.86E-03	2.67E-01	2.65E-01	4.83E-01
1276	490035.89	3859126.54	0.03595	0.03639	0.06461	0.1073	0.009	0.065	0.0352	0.03639	0.37509401	0.067209625	6.726E-06	5.65E-03	4.30E-03	9.10E-03	2.49E-01	2.47E-01	4.63E-01
1277	489585.89	3859176.54	0.07604	0.09717	0.07177	0.57723	0.009	0.356	0.098	0.09717	0.79338382	0.179465768	7.472E-06	3.04E-02	4.18E-03	5.00E-02	6.94E-01	6.61E-01	1.09E+00
1278	489635.89	3859176.54	0.06753	0.08431	0.07967	0.82129	0.009	0.332	0.0843	0.08431	0.70459244	0.155714303	8.294E-06	4.33E-02	4.12E-03	4.67E-02	5.97E-01	5.73E-01	9.78E-01
1279	489685.89	3859176.54	0.05814	0.07453	0.08629	0.4925	0.009	0.225	0.074	0.07453	0.60661935	0.13765137	8.983E-06	2.59E-02	4.07E-03	3.17E-02	5.25E-01	5.07E-01	8.24E-01
1280	489735.89	3859176.54	0.05257	0.06681	0.08354	0.34207	0.009	0.169	0.0661	0.06681	0.54850325	0.123393104	8.697E-06	1.80E-02	4.03E-03	2.37E-02	4.68E-01	4.54E-01	7.31E-01
1281	489785.89	3859176.54	0.04868	0.06043	0.0784	0.2613	0.009	0.136	0.0595	0.06043	0.50791589	0.111609718	8.162E-06	1.38E-02	4.01E-03	1.91E-02	4.22E-01	4.11E-01	6.67E-01
1282	489835.89	3859176.54	0.04561	0.05521	0.07483	0.21175	0.009	0.114	0.0542	0.05521	0.47588422	0.101968766	7.79E-06	1.12E-02	4.00E-03	1.60E-02	3.84E-01	3.75E-01	6.18E-01
1283	489885.89	3859176.54	0.04302	0.05078	0.07598	0.17834	0.009	0.099	0.0497	0.05078	0.44886075	0.093786886	7.91E-06	9.39E-03	4.00E-03	1.39E-02	3.52E-01	3.45E-01	5.77E-01
1284	489935.89	3859176.54	0.04079	0.04708	0.0839	0.15478	0.009	0.088	0.046	0.04708	0.42559345	0.086953261	8.735E-06	8.15E-03	4.01E-03	1.24E-02	3.26E-01	3.20E-01	5.43E-01
1285	489985.89	3859176.54	0.03897	0.04364	0.0924	0.13618	0.009	0.079	0.0425	0.04364	0.40660399	0.080599836	9.619E-06	7.17E-03	4.04E-03	1.11E-02	3.01E-01	2.97E-01	5.14E-01
1286	490035.89	3859176.54	0.03733	0.04092	0.09838	0.12253	0.009	0.073	0.0398	0.04092	0.38949261	0.075576199	1.024E-05	6.45E-03	4.06E-03	1.02E-02	2.82E-01	2.78E-01	4.90E-01
1287	489685.89	3859226.54	0.0687	0.09469	0.1303	0.59462	0.008	0.42	0.0949	0.09469	0.71679995	0.174885392	1.357E-05	3.13E-02	3.93E-03	5.91E-02	6.72E-01	6.44E-01	1.01E+00
1288	489735.89	3859226.54	0.06529	0.08256	0.12975	0.62257	0.008	0.267	0.0823	0.08256	0.6812208	0.152482184	1.351E-05	3.28E-02	3.88E-03	3.76E-02	5.83E-01	5.61E-01	9.30E-01
1289	489785.89	3859226.54	0.05745	0.07305	0.12111	0.40423	0.008	0.192	0.0725	0.07305	0.59942004	0.13491792	1.261E-05	2.13E-02	3.85E-03	2.70E-02	5.14E-01	4.97E-01	8.04E-01
1290	489835.89	3859226.54	0.05158	0.0654	0.1165	0.29408	0.008	0.149	0.0647	0.0654	0.53817382	0.120788939	1.213E-05	1.55E-02	3.84E-03	2.10E-02	4.59E-01	4.45E-01	7.13E-01
1291	489885.89	3859226.54	0.04712	0.05928	0.12659	0.23146	0.008	0.123	0.0585	0.05928	0.49163921	0.109485754	1.318E-05	1.22E-02	3.83E-03	1.73E-02	4.15E-01	4.03E-01	6.46E-01
1292	489935.89	3859226.54	0.04377	0.05419	0.1439	0.19145	0.008	0.105	0.0533	0.05419	0.45668608	0.100084902	1.498E-05	1.01E-02	3.83E-03	1.48E-02	3.78E-01	3.68E-01	5.95E-01
1293	489985.89	3859226.54	0.04127	0.04952	0.15335	0.16227	0.008	0.092	0.0486	0.04952	0.43060166	0.091459759	1.596E-05	8.55E-03	3.85E-03	1.29E-02	3.44E-01	3.37E-01	5.55E-01
1294	490035.89	3859226.54	0.03918	0.0461	0.15892	0.14295	0.008	0.083	0.0452	0.0461	0.40879508	0.085143273	1.654E-05	7.53E-03	3.86E-03	1.16E-02	3.20E-01	3.13E-01	5.23E-01
1295	489735.89	3859276.54	0.07693	0.10813	0.22568	0.54171	0.008	0.334	0.109	0.10813	0.80266987	0.199708073	2.349E-05	2.85E-02	3.75E-03	4.70E-02	7.72E-01	7.35E-01	1.12E+00
1296	489785.89	3859276.54	0.07098	0.09244	0.20984	0.83597	0.008	0.327	0.0927	0.09244	0.74058894	0.170729809	2.185E-05	4.40E-02	3.71E-03	4.61E-02	6.57E-01	6.29E-01	1.03E+00
1297	489835.89	3859276.54	0.06008	0.08044	0.21325	0.49404	0.008	0.222	0.0804	0.08044	0.62686086	0.148566701	2.22E-05	2.60E-02	3.69E-03	3.12E-02	5.69E-01	5.47E-01	8.59E-01
1298	489885.89	3859276.54	0.05209	0.07139	0.25123	0.33969	0.008	0.167	0.0711	0.07139	0.54349504	0.131852024	2.615E-05	1.79E-02	3.67E-03	2.34E-02	5.04E-01	4.85E-01	7.38E-01
1299	489935.89	3859276.54	0.04736	0.064	0.27629	0.25731	0.008	0.134	0.0635	0.064	0.49414331	0.118203243	2.876E-05	1.36E-02	3.67E-03	1.88E-02	4.50E-01	4.35E-01	6.63E-01
1300	489985.89	3859276.54	0.0442	0.05743	0.27676	0.20495	0.008	0.111	0.0568	0.05743	0.4611726	0.106068941	2.881E-05	1.08E-02	3.69E-03	1.56E-02	4.03E-01	3.91E-01	6.09E-01
1301	490035.89	3859276.54	0.0416	0.05312	0.27042	0.1755	0.008	0.098	0.0524	0.05312	0.4340448	0.098108692	2.815E-05	9.24E-03	3.68E-03	1.38E-02	3.71E-01	3.61E-01	5.69E-01
1302	490458.06	3859590.74	0.05263	0.08963	0.07744	0.42568	0.006	0.184	0.0903	0.08963	0.54912928	0.165539948	8.062E-06	2.24E-02	2.85E-03	2.59E-02	6.40E-01	6.09E-01	7.96E-01
1303	490508.06	3859590.74	0.04623	0.07926	0.07185	0.31311	0.006	0.147	0.0798	0.07926	0.48235315	0.146387329	7.48E-06	1.65E-02	2.87E-03	2.07E-02	5.66E-01	5.39E-01	6.95E-01
1304	490558.06	3859590.74	0.04175	0.07064	0.06689	0.24666	0.006	0.123	0.0711	0.07064	0.43560987	0.130466829	6.964E-06	1.30E-02	2.88E-03	1.72E-02	5.04E-01	4.80E-01	6.22E-01
1305	490608.06	3859590.74	0.03849	0.06352	0.06229	0.2017	0.006	0.104	0.0638	0.06352	0.40159578	0.117316719	6.485E-06	1.06E-02	2.91E-03	1.46E-02	4.52E-01	4.32E-01	5.67E-01
1306	490658.06	3859590.74	0.03601	0.05756	0.05808	0.16974	0.006	0.091	0.0578	0.05756	0.37572003	0.106309042	6.046E-06	8.94E-03	2.93E-03	1.28E-02	4.09E-01	3.91E-01	5.25E-01
1307	490708.06	3859590.74	0.03404	0.05245	0.05424	0.14613	0.006	0.081	0.0526	0.05245	0.35516551	0.096871252	5.647E-06	7.70E-03	2.95E-03	1.13E-02	3.73E-01	3.57E-01	4.90E-01
1308	490758.06	3859590.74	0.03245	0.04791	0.05071	0.12785	0.006	0.072	0.048	0.04791	0.33857581	0.088486209	5.279E-06	6.73E-03	2.98E-03	1.02E-02	3.40E-01	3.26E-01	4.61E-01
1309	490808.06	3859590.74	0.03109	0.04429	0.04762	0.11447	0.006	0.066	0.0443	0.04429	0.32438589	0.081800338	4.958E-06	6.03E-03	3.01E-03	9.32E-03	3.14E-01	3.01E-01	4.37E-01
1310	490858.06	3859590.74	0.02994	0.04101	0.04472	0.10332	0.006	0.061	0.041	0.04101	0.31238705	0.075742422	4.656E-06	5.44E-03	3.04E-03	8.58E-03	2.90E-01	2.79E-01	4.17E-01
1311	490458.06	3859640.74	0.06816	0.12927	0.05934	0.88896	0.006	0.36	0.1313	0.12927	0.71116571	0.238752082	6.178E-06	4.68E-02	2.72E-03	5.07E-02	9.31E-01	8.79E-01	1.10E+00
1312	490508.06	3859640.74	0.06127	0.11	0.05747	0.66082	0.006	0.248	0.1116	0.11	0.63927704	0.203161824	5.983E-06	3.48E-02	2.74E-03	3.49E-02	7.91E-01	7.48E-01	9.58E-01
1313	490558.06	3859640.74	0.05223	0.09541	0.05468	0.43857	0.006	0.186	0.0968	0.09541	0.54495577	0.176215178	5.693E-06	2.31E-02	2.76E-03	2.62E-02	6.86E-01	6.49E-01	8.10E-01
1314	490608.06	3859640.74	0.04561	0.08285	0.05158	0.31854	0.006	0.147	0.084	0.08285	0.47588422	0.153017792	5.37E-06	1.68E-02	2.78E-03	2.07E-02	5.95E-01	5.63E-01	7.01E-01
1315	490658.06	3859640.74	0.04105	0.07273	0.04869	0.24662	0.006	0.121	0.0736	0.07273	0.42830623	0.134326904	5.069E-06	1.30E-02	2.80E-03	1.70E-02	5.21E-01	4.95E-01	6.22E-01
1316	490708.06	3859640.74	0.03776	0.06504	0.04614	0.20082	0.006	0.103	0.0657	0.06504	0.39397913	0.120124046	4.803E-06	1.06E-02	2.82E-03	1.45E-02	4.66E-01	4.42E-01	5.65E-01
1317	490758.06	3859640.74	0.03529	0.05843	0.04368	0.16801	0.006	0.089	0.059	0.05843	0.36820772	0.107915867	4.547E-06	8.85E-03	2.85E-03	1.26E-02	4.18E-01	3.97E-01	5.21E-01
1318	490808.06	3859640.74	0.03331	0.05343	0.04156	0.1464	0.006	0.08	0.0538	0.05343	0.34754885	0.098681239	4.327E-06	7.71E-03	2.87E-03	1.13E-02	3.81E-01	3.63E-01	4.86E-01
1319	490858.06	3859640.74	0.03169	0.04917	0.03957	0.12993	0.006	0.073	0.0495	0.04917	0.33064615	0.090813335	4.119E-06	6.84E-03	2.89E-03	1.03E-02	3.51E-01	3.34E-01	4.58E-01
1320	490608.06	3859690.74	0.06028	0.11734	0.04202	0.68308	0.006	0.249	0.1201	0.11734	0.62894761	0.216718258	4.375E-06	3.60E-02	2.66E-03	3.50E-02	8.51E-01	7.98E-01	9.72E-01
1321	490658.06	3859690.74	0.05137	0.09842	0.04018	0.44281	0.006	0.184	0.1006	0.09842	0.53598273	0.181774425	4.183E-06	2.33E-02	2.69E-03	2.59E-02	7.13E-01	6.69E-01	8.13E-01
1322	490708.06	3859690.74	0.04475	0.08513	0.03852	0.31986	0.006	0.145	0.0868	0.08513	0.46691117	0.157228782	4.01E-06	1.68E-02	2.71E-03	2.04E-02	6.15E-01	5.79E-01	7.00E-01
1323	490758.06	3859690.74	0.04023	0.07448	0.0369	0.24675	0.006	0.119	0.0758	0.07448	0.41975054	0.137559024	3.842E-06	1.30E-02	2.72E-03	1.68E-02	5.37E-01	5.06E-01	6.20E-01
1324	490808.06	3859690.74	0.03699	0.06644	0.03546	0.20105	0.006	0.102	0.0675	0.06644	0.38594513	0.122709742	3.692E-06	1.06E-02	2.74E-03	1.44E-02	4.78E-01	4.52E-01	5.62E-01
1325	490858.06	3859690.74	0.03447	0.06079	0.03429	0.17383	0.006	0.091	0.0616	0.06079	0.35965203	0.112274612	3.57E-06	9.16E-03	2.76E-03	1.28E-02	4.37E-01	4.13E-01	5.20E-01
1326	490708.06	3859740.74	0.05913	0.12289	0.03205	0.70559	0.006	0.25	0.127	0.12289	0.61694878	0.226968696	3.337E-06	3.72E-02	2.59E-03	3.52E-02	9.00E-01	8.36E-01	9.83E-01
1327	490758.06	3859740.74	0.05041	0.10452	0.03122	0.45974	0.006	0.188	0.1075	0.10452	0.52596631	0.193040671	3.25E-06	2.42E-02	2.60E-03	2.64E-02	7.62E-01	7.11E-01	8.23E-01
1328	490808.06	3859740.74	0.0439	0.09025	0.0303	0.33271	0.006	0.149	0.0926	0.09025	0.45804247	0.166685042	3.154E-06	1.75E-02	2.62E-03	2.10E-02	6.56E-01	6.14E-01	7.08E-01
1329	490858.06	3859740.74	0.03945	0.07959	0.02947	0.26237	0.006	0.125	0.0814	0.07959	0.4116122	0.146996814	3.068E-06	1.38E-02	2.63E-03	1.76E-02	5.77E-01	5.41E-01	6.28E-01
1330	490786.56	3859749.39	0.04859	0.10231	0.02985	0.42741	0.006	0.179	0.1053	0.10231	0.50697685	0.188958966	3.108E-06	2.25E-02	2.59E-03	2.51E-02	7.46E-01	6.96E-01	7.96E-01

1331	490836.56	3859749.39	0.04266	0.08862	0.02901	0.31671	0.006	0.144	0.0909	0.08862	0.4451046	0.163674553	3.02E-06	1.67E-02	2.61E-03	2.03E-02	6.44E-01	6.03E-01	6.90E-01
1332	490786.56	3859799.39	0.0619	0.16253	0.02529	0.77344	0.005	0.345	0.1703	0.16253	0.64585032	0.30018083	2.633E-06	4.07E-02	2.49E-03	4.86E-02	1.21E+00	1.11E+00	1.14E+00
1333	490836.56	3859799.39	0.05661	0.13129	0.02478	0.67766	0.005	0.243	0.1373	0.13129	0.59065568	0.242482872	2.58E-06	3.57E-02	2.50E-03	3.43E-02	9.73E-01	8.93E-01	9.86E-01
1334	492307.84	3854508.36	0.01013	0.00396	0.00535	0.00609	0.008	0.006	0.0047	0.00396	0.10569408	0.007313826	5.57E-07	3.21E-04	3.87E-03	8.48E-04	3.31E-02	2.69E-02	1.24E-01
1335	486445.7	3854753.6	0.02291	0.00597	0.01185	0.01797	0.005	0.014	0.0113	0.00597	0.23903765	0.011026146	1.234E-06	9.47E-04	2.47E-03	1.95E-03	7.98E-02	4.06E-02	2.95E-01
1336	472599.75	3877830.11	0.00021	0.00036	0.00023	0.00033	2E-04	4E-04	0.0004	0.00036	0.00219109	0.000664893	2.394E-08	1.74E-05	8.91E-05	5.49E-05	2.55E-03	2.45E-03	3.12E-03
1337	493107.48	3866840.19	0.00097	0.00079	0.00046	0.00093	0.001	0.001	0.0008	0.00079	0.01012076	0.001459071	4.789E-08	4.90E-05	4.78E-04	1.48E-04	5.67E-03	5.37E-03	1.26E-02
1338	495815.79	3861662.87	0.00309	0.03463	0.00205	0.00519	0.002	0.005	0.0347	0.03463	0.03224035	0.063959036	2.134E-07	2.73E-04	9.99E-04	7.32E-04	2.46E-01	2.35E-01	1.09E-01
1339	480272.33	3841389.2	0.0005	0.00065	0.00027	0.00037	4E-04	4E-04	0.0007	0.00065	0.00521688	0.001200502	2.811E-08	1.95E-05	2.06E-04	5.91E-05	4.68E-03	4.42E-03	6.96E-03
1340	497005.18	3862813.64	0.0018	0.01204	0.00122	0.00302	0.002	0.003	0.0121	0.01204	0.01878078	0.022236985	1.27E-07	1.59E-04	7.92E-04	3.78E-04	8.58E-02	8.19E-02	4.63E-02
1341	493677.33	3860302.55	0.00857	0.01329	0.00619	0.01459	0.004	0.203	0.0132	0.01329	0.0894174	0.024545642	6.444E-07	7.69E-04	1.81E-03	2.85E-02	9.34E-02	9.04E-02	1.48E-01
1342	493727.33	3860302.55	0.00849	0.01306	0.00614	0.01438	0.004	0.201	0.013	0.01306	0.0885827	0.024120849	6.392E-07	7.57E-04	1.80E-03	2.82E-02	9.18E-02	8.88E-02	1.46E-01
1343	493777.33	3860302.55	0.00842	0.01283	0.00609	0.01418	0.004	0.199	0.0127	0.01283	0.08785234	0.023696056	6.34E-07	7.47E-04	1.79E-03	2.80E-02	9.01E-02	8.72E-02	1.45E-01
1344	493827.33	3860302.55	0.00835	0.01259	0.00604	0.01398	0.004	0.197	0.0125	0.01259	0.08712197	0.023252794	6.288E-07	7.36E-04	1.79E-03	2.77E-02	8.84E-02	8.56E-02	1.43E-01
1345	493877.33	3860302.55	0.00827	0.01241	0.006	0.01379	0.004	0.193	0.0123	0.01241	0.08628727	0.022920348	6.246E-07	7.26E-04	1.78E-03	2.71E-02	8.71E-02	8.44E-02	1.42E-01
1346	493927.33	3860302.55	0.00819	0.01226	0.00596	0.0136	0.004	0.187	0.0121	0.01226	0.08545257	0.022643309	6.205E-07	7.16E-04	1.77E-03	2.62E-02	8.59E-02	8.34E-02	1.39E-01
1347	493977.33	3860302.55	0.00815	0.01194	0.00589	0.01341	0.004	0.188	0.0118	0.01194	0.08503522	0.022052293	6.132E-07	7.06E-04	1.77E-03	2.64E-02	8.37E-02	8.12E-02	1.38E-01
1348	494027.33	3860302.55	0.0081	0.01171	0.00584	0.01323	0.004	0.185	0.0116	0.01171	0.08451353	0.0216275	6.08E-07	6.97E-04	1.77E-03	2.61E-02	8.20E-02	7.96E-02	1.37E-01
1349	493677.33	3860352.55	0.0083	0.0137	0.00596	0.01412	0.004	0.096	0.0136	0.0137	0.08660028	0.025302882	6.205E-07	7.44E-04	1.79E-03	1.35E-02	9.64E-02	9.32E-02	1.31E-01
1350	493727.33	3860352.55	0.00822	0.0135	0.00593	0.01393	0.004	0.095	0.0134	0.0135	0.08576558	0.024933497	6.173E-07	7.34E-04	1.77E-03	1.33E-02	9.49E-02	9.18E-02	1.30E-01
1351	493777.33	3860352.55	0.00813	0.0133	0.0059	0.01375	0.004	0.093	0.0132	0.0133	0.08482654	0.024564111	6.142E-07	7.24E-04	1.76E-03	1.31E-02	9.35E-02	9.04E-02	1.28E-01
1352	493827.33	3860352.55	0.00806	0.01307	0.00586	0.01356	0.004	0.092	0.013	0.01307	0.08409618	0.024139319	6.101E-07	7.14E-04	1.74E-03	1.30E-02	9.18E-02	8.89E-02	1.27E-01
1353	493877.33	3860352.55	0.008	0.01283	0.00581	0.01338	0.004	0.092	0.0127	0.01283	0.08347015	0.023696056	6.049E-07	7.05E-04	1.74E-03	1.29E-02	9.01E-02	8.72E-02	1.25E-01
1354	493927.33	3860352.55	0.00795	0.01256	0.00576	0.01321	0.004	0.092	0.0124	0.01256	0.08294847	0.023197386	5.997E-07	6.96E-04	1.73E-03	1.29E-02	8.81E-02	8.54E-02	1.24E-01
1355	493977.33	3860352.55	0.00791	0.01226	0.0057	0.01303	0.004	0.092	0.0121	0.01226	0.08253111	0.022643309	5.934E-07	6.86E-04	1.73E-03	1.29E-02	8.60E-02	8.34E-02	1.23E-01
1356	494027.33	3860352.55	0.00785	0.01208	0.00566	0.01287	0.004	0.09	0.012	0.01208	0.08190509	0.022310862	5.892E-07	6.78E-04	1.72E-03	1.27E-02	8.47E-02	8.21E-02	1.22E-01
1357	493677.33	3860402.55	0.00802	0.01423	0.00575	0.01365	0.004	0.062	0.0141	0.01423	0.08367883	0.026281752	5.986E-07	7.19E-04	1.76E-03	8.77E-03	1.00E-01	9.68E-02	1.25E-01
1358	493727.33	3860402.55	0.00794	0.014	0.00572	0.01348	0.004	0.062	0.0139	0.014	0.08284413	0.025856959	5.955E-07	7.10E-04	1.74E-03	8.67E-03	9.86E-02	9.52E-02	1.23E-01
1359	493777.33	3860402.55	0.00789	0.01365	0.00567	0.01331	0.004	0.062	0.0136	0.01365	0.08232244	0.025210535	5.903E-07	7.01E-04	1.74E-03	8.67E-03	9.60E-02	9.28E-02	1.22E-01
1360	493827.33	3860402.55	0.00781	0.01349	0.00565	0.01315	0.004	0.061	0.0134	0.01349	0.08148774	0.024915027	5.882E-07	6.93E-04	1.72E-03	8.54E-03	9.49E-02	9.17E-02	1.20E-01
1361	493877.33	3860402.55	0.00774	0.01328	0.00562	0.01299	0.004	0.06	0.0132	0.01328	0.08075737	0.024527173	5.851E-07	6.84E-04	1.70E-03	8.46E-03	9.34E-02	9.03E-02	1.19E-01
1362	493927.33	3860402.55	0.0077	0.01295	0.00557	0.01282	0.004	0.06	0.0128	0.01295	0.08034002	0.023917687	5.799E-07	6.75E-04	1.70E-03	8.45E-03	9.10E-02	8.81E-02	1.18E-01
1363	493977.33	3860402.55	0.00767	0.01262	0.00551	0.01266	0.004	0.06	0.0125	0.01262	0.08002701	0.023308202	5.736E-07	6.67E-04	1.69E-03	8.46E-03	8.86E-02	8.58E-02	1.17E-01
1364	494027.33	3860402.55	0.0076	0.01247	0.00548	0.01251	0.004	0.059	0.0124	0.01247	0.07929665	0.023031163	5.705E-07	6.59E-04	1.68E-03	8.35E-03	8.75E-02	8.48E-02	1.16E-01
1365	493677.33	3860452.55	0.00776	0.01469	0.0055	0.01317	0.004	0.047	0.0146	0.01469	0.08096605	0.027131338	5.726E-07	6.94E-04	1.74E-03	6.58E-03	1.04E-01	9.99E-02	1.21E-01
1366	493727.33	3860452.55	0.00766	0.01454	0.00546	0.01302	0.004	0.046	0.0145	0.01454	0.07992267	0.026854299	5.684E-07	6.86E-04	1.72E-03	6.47E-03	1.02E-01	9.89E-02	1.19E-01
1367	493777.33	3860452.55	0.0076	0.0143	0.00543	0.01287	0.004	0.046	0.0142	0.0143	0.07929665	0.026411037	5.653E-07	6.78E-04	1.71E-03	6.41E-03	1.01E-01	9.72E-02	1.18E-01
1368	493827.33	3860452.55	0.00755	0.01397	0.00542	0.01273	0.004	0.045	0.0139	0.01397	0.07877496	0.025801552	5.643E-07	6.71E-04	1.69E-03	6.39E-03	9.83E-02	9.50E-02	1.17E-01
1369	493877.33	3860452.55	0.0075	0.01369	0.0054	0.01259	0.004	0.045	0.0136	0.01369	0.07825327	0.025284412	5.622E-07	6.63E-04	1.68E-03	6.35E-03	9.63E-02	9.31E-02	1.15E-01
1370	493927.33	3860452.55	0.00747	0.01331	0.00536	0.01244	0.004	0.045	0.0132	0.01331	0.07794026	0.024582581	5.58E-07	6.55E-04	1.67E-03	6.36E-03	9.36E-02	9.05E-02	1.14E-01
1371	493977.33	3860452.55	0.00742	0.0131	0.00533	0.0123	0.004	0.045	0.013	0.0131	0.07741857	0.024194726	5.549E-07	6.48E-04	1.66E-03	6.30E-03	9.21E-02	8.91E-02	1.13E-01
1372	494027.33	3860452.55	0.00736	0.01291	0.0053	0.01216	0.004	0.044	0.0128	0.01291	0.07679254	0.02384381	5.518E-07	6.41E-04	1.65E-03	6.23E-03	9.07E-02	8.78E-02	1.12E-01
1373	493677.33	3860502.55	0.00749	0.01522	0.00523	0.01269	0.004	0.037	0.0152	0.01522	0.07814893	0.028110209	5.445E-07	6.68E-04	1.73E-03	5.27E-03	1.07E-01	1.03E-01	1.18E-01
1374	493727.33	3860502.55	0.00742	0.01503	0.0052	0.01256	0.004	0.037	0.015	0.01503	0.07741857	0.027759293	5.414E-07	6.62E-04	1.71E-03	5.20E-03	1.06E-01	1.02E-01	1.16E-01
1375	493777.33	3860502.55	0.00735	0.01476	0.00518	0.01243	0.004	0.037	0.0147	0.01476	0.0766882	0.027260623	5.393E-07	6.55E-04	1.69E-03	5.16E-03	1.04E-01	1.00E-01	1.15E-01
1376	493827.33	3860502.55	0.0073	0.0145	0.00517	0.0123	0.004	0.036	0.0144	0.0145	0.07616652	0.026780422	5.382E-07	6.48E-04	1.67E-03	5.11E-03	1.02E-01	9.86E-02	1.14E-01
1377	493877.33	3860502.55	0.00725	0.01418	0.00516	0.01218	0.004	0.036	0.0141	0.01418	0.07564483	0.026189406	5.372E-07	6.42E-04	1.66E-03	5.09E-03	9.98E-02	9.64E-02	1.13E-01
1378	493927.33	3860502.55	0.00722	0.01382	0.00516	0.01206	0.004	0.036	0.0137	0.01382	0.07533181	0.025524513	5.372E-07	6.35E-04	1.65E-03	5.07E-03	9.74E-02	9.40E-02	1.12E-01
1379	493977.33	3860502.55	0.00717	0.01363	0.00513	0.01193	0.003	0.036	0.0135	0.01363	0.07481013	0.025173597	5.341E-07	6.28E-04	1.64E-03	5.02E-03	9.59E-02	9.27E-02	1.11E-01
1380	494027.33	3860502.55	0.00712	0.0134	0.00511	0.01181	0.003	0.035	0.0133	0.0134	0.07428844	0.024748804	5.32E-07	6.22E-04	1.62E-03	4.98E-03	9.43E-02	9.11E-02	1.09E-01
1381	493627.33	3860552.55	0.0073	0.01611	0.005	0.01232	0.004	0.031	0.0161	0.01611	0.07616652	0.029753973	5.205E-07	6.49E-04	1.73E-03	4.43E-03	1.14E-01	1.10E-01	1.17E-01
1382	493677.33	3860552.55	0.00722	0.01588	0.00497	0.0122	0.004	0.031	0.0158	0.01588	0.07533181	0.02932918	5.174E-07	6.43E-04	1.71E-03	4.38E-03	1.12E-01	1.08E-01	1.16E-01
1383	493727.33	3860552.55	0.00715	0.01564	0.00495	0.01209	0.004	0.031	0.0156	0.01564	0.07460145	0.028885918	5.153E-07	6.37E-04	1.69E-03	4.33E-03	1.10E-01	1.06E-01	1.14E-01
1384	493777.33	3860552.55	0.0071	0.01533	0.00493	0.01198	0.004	0.031	0.0153	0.01533	0.07407976	0.028313371	5.132E-07	6.31E-04	1.67E-03	4.30E-03	1.08E-01	1.04E-01	1.13E-01
1385	493827.33	3860552.55	0.00706	0.01498	0.00493	0.01187	0.004	0.03	0.0149	0.01498	0.07366241	0.027666947	5.132E-07	6.25E-04	1.66E-03	4.28E-03	1.06E-01	1.02E-01	1.12E-01
1386	493877.33	3860552.55	0.00701	0.01475	0.00491	0.01176	0.004	0.03	0.0147	0.01475	0.07314072	0.027242154	5.112E-07	6.19E-04	1.64E-03	4.24E-03	1.04E-01	1.00E-01	1.11E-01
1387	493927.33	3860552.55	0.00697	0.01444	0.00491	0.01166	0.003	0.03	0.0144	0.01444	0.07272337	0.026669607	5.112E-07	6.14E-04	1.63E-03	4.21E-03	1.02E-01	9.82E-02	1.09E-01
1388	493977.33	3860552.55	0.00694	0.01412	0.0049	0.01156	0.003	0.03	0.014	0.01412	0.07241036	0.02607859	5.101E-07	6.09E-04	1.62E-03	4.19E-03	9.94E-02	9.60E-02	1.08E-01

1389	494027.33	3860552.55	0.00688	0.01391	0.00489	0.01145	0.003	0.03	0.0138	0.01391	0.07178433	0.025690736	5.091E-07	6.03E-04	1.60E-03	4.15E-03	9.80E-02	9.46E-02	1.07E-01
1390	493627.33	3860602.55	0.00704	0.01676	0.00476	0.01183	0.004	0.027	0.0167	0.01676	0.07345374	0.030954474	4.955E-07	6.23E-04	1.71E-03	3.77E-03	1.18E-01	1.14E-01	1.15E-01
1391	493727.33	3860602.55	0.00689	0.01633	0.00469	0.01161	0.004	0.026	0.0163	0.01633	0.07188867	0.030160296	4.883E-07	6.12E-04	1.67E-03	3.69E-03	1.15E-01	1.11E-01	1.12E-01
1392	493777.33	3860602.55	0.00686	0.01592	0.0047	0.01153	0.004	0.026	0.0159	0.01592	0.07157566	0.029403057	4.893E-07	6.07E-04	1.66E-03	3.68E-03	1.12E-01	1.08E-01	1.11E-01
1393	493827.33	3860602.55	0.00681	0.01562	0.00469	0.01144	0.004	0.026	0.0156	0.01562	0.07105397	0.028848979	4.883E-07	6.03E-04	1.65E-03	3.65E-03	1.10E-01	1.06E-01	1.10E-01
1394	493877.33	3860602.55	0.00678	0.01527	0.00469	0.01136	0.003	0.026	0.0152	0.01527	0.07074096	0.028202555	4.883E-07	5.98E-04	1.63E-03	3.64E-03	1.08E-01	1.04E-01	1.09E-01
1395	493927.33	3860602.55	0.00674	0.01497	0.00469	0.01127	0.003	0.026	0.0149	0.01497	0.0703236	0.027648477	4.883E-07	5.94E-04	1.62E-03	3.61E-03	1.06E-01	1.02E-01	1.08E-01
1396	493977.33	3860602.55	0.00671	0.01467	0.00468	0.01118	0.003	0.026	0.0146	0.01467	0.07001059	0.0270944	4.872E-07	5.89E-04	1.60E-03	3.59E-03	1.03E-01	9.98E-02	1.07E-01
1397	494027.33	3860602.55	0.00665	0.01448	0.00466	0.01108	0.003	0.025	0.0144	0.01448	0.06938457	0.026743484	4.851E-07	5.84E-04	1.58E-03	3.56E-03	1.02E-01	9.85E-02	1.05E-01
1398	493627.33	3860652.55	0.00678	0.01752	0.00453	0.01135	0.004	0.023	0.0175	0.01752	0.07074096	0.032358138	4.716E-07	5.98E-04	1.69E-03	3.25E-03	1.24E-01	1.19E-01	1.13E-01
1399	493727.33	3860652.55	0.00665	0.01701	0.00447	0.01116	0.004	0.023	0.017	0.01701	0.06938457	0.031416206	4.654E-07	5.88E-04	1.66E-03	3.19E-03	1.20E-01	1.16E-01	1.11E-01
1400	493777.33	3860652.55	0.00662	0.01662	0.00447	0.01109	0.004	0.023	0.0166	0.01662	0.06907155	0.030695905	4.654E-07	5.84E-04	1.64E-03	3.18E-03	1.17E-01	1.13E-01	1.10E-01
1401	493827.33	3860652.55	0.00658	0.01625	0.00448	0.01102	0.003	0.023	0.0162	0.01625	0.0686542	0.030012542	4.664E-07	5.80E-04	1.63E-03	3.18E-03	1.15E-01	1.10E-01	1.08E-01
1402	493877.33	3860652.55	0.00656	0.01587	0.00448	0.01095	0.003	0.023	0.0158	0.01587	0.06844553	0.02931071	4.664E-07	5.77E-04	1.62E-03	3.17E-03	1.12E-01	1.08E-01	1.07E-01
1403	493927.33	3860652.55	0.00652	0.01557	0.00447	0.01087	0.003	0.022	0.0155	0.01557	0.06802818	0.028756633	4.654E-07	5.73E-04	1.60E-03	3.15E-03	1.10E-01	1.06E-01	1.06E-01
1404	493977.33	3860652.55	0.00648	0.0153	0.00447	0.01079	0.003	0.022	0.0152	0.0153	0.06761082	0.028257963	4.654E-07	5.68E-04	1.59E-03	3.14E-03	1.08E-01	1.04E-01	1.05E-01
1405	494027.33	3860652.55	0.00645	0.01497	0.00447	0.01072	0.003	0.022	0.0149	0.01497	0.06729781	0.027648477	4.654E-07	5.65E-04	1.58E-03	3.13E-03	1.06E-01	1.02E-01	1.04E-01
1406	494311.06	3858401.99	0.01054	0.00418	0.00595	0.01113	0.01	0.011	0.0041	0.00418	0.10997193	0.007720149	6.194E-07	5.86E-04	4.46E-03	1.52E-03	2.93E-02	2.84E-02	1.25E-01
1407	494361.06	3858401.99	0.01037	0.00414	0.00588	0.01096	0.009	0.011	0.0041	0.00414	0.10819819	0.007646272	6.121E-07	5.77E-04	4.39E-03	1.52E-03	2.90E-02	2.82E-02	1.23E-01
1408	494411.06	3858401.99	0.01025	0.00411	0.00582	0.01083	0.009	0.011	0.0041	0.00411	0.10694613	0.007590865	6.059E-07	5.70E-04	4.35E-03	1.52E-03	2.88E-02	2.79E-02	1.22E-01
1409	494461.06	3858401.99	0.01018	0.00409	0.00578	0.01074	0.009	0.011	0.0041	0.00409	0.10621577	0.007553926	6.017E-07	5.66E-04	4.32E-03	1.52E-03	2.87E-02	2.78E-02	1.21E-01
1410	494511.06	3858401.99	0.01005	0.00406	0.00572	0.0106	0.009	0.011	0.004	0.00406	0.10485938	0.007498518	5.955E-07	5.58E-04	4.27E-03	1.53E-03	2.85E-02	2.76E-02	1.20E-01
1411	494561.06	3858401.99	0.00998	0.00404	0.00567	0.01051	0.009	0.011	0.004	0.00404	0.10412902	0.00746158	5.903E-07	5.54E-04	4.24E-03	1.54E-03	2.83E-02	2.75E-02	1.19E-01
1412	494611.06	3858401.99	0.00981	0.00401	0.00561	0.01038	0.009	0.011	0.004	0.00401	0.10235528	0.007406172	5.84E-07	5.47E-04	4.19E-03	1.54E-03	2.81E-02	2.73E-02	1.17E-01
1413	494661.06	3858401.99	0.0097	0.00398	0.00555	0.01026	0.009	0.011	0.0039	0.00398	0.10120756	0.007350764	5.778E-07	5.40E-04	4.09E-03	1.55E-03	2.79E-02	2.71E-02	1.16E-01
1414	494711.06	3858401.99	0.00955	0.00395	0.00548	0.01012	0.009	0.011	0.0039	0.00395	0.0996425	0.007295356	5.705E-07	5.33E-04	4.03E-03	1.55E-03	2.77E-02	2.69E-02	1.14E-01
1415	494761.06	3858401.99	0.00946	0.00392	0.00543	0.01002	0.009	0.011	0.0039	0.00392	0.09870346	0.007239949	5.653E-07	5.28E-04	3.99E-03	1.56E-03	2.76E-02	2.67E-02	1.13E-01
1416	494811.06	3858401.99	0.00934	0.0039	0.00538	0.00989	0.008	0.011	0.0039	0.0039	0.0974514	0.00720301	5.601E-07	5.21E-04	3.94E-03	1.56E-03	2.73E-02	2.65E-02	1.12E-01
1417	494861.06	3858401.99	0.00923	0.00387	0.00532	0.00978	0.008	0.011	0.0038	0.00387	0.09630369	0.007147602	5.538E-07	5.15E-04	3.90E-03	1.57E-03	2.71E-02	2.63E-02	1.10E-01
1418	494911.06	3858401.99	0.00912	0.00384	0.00527	0.00966	0.008	0.011	0.0038	0.00384	0.09515598	0.007092195	5.486E-07	5.09E-04	3.86E-03	1.58E-03	2.69E-02	2.61E-02	1.09E-01
1419	494961.06	3858401.99	0.00901	0.00382	0.00522	0.00955	0.008	0.011	0.0038	0.00382	0.09400826	0.007055256	5.434E-07	5.03E-04	3.82E-03	1.59E-03	2.68E-02	2.60E-02	1.08E-01
1420	495011.06	3858401.99	0.00887	0.00379	0.00516	0.00942	0.008	0.011	0.0037	0.00379	0.09254753	0.006999848	5.372E-07	4.96E-04	3.77E-03	1.59E-03	2.65E-02	2.58E-02	1.06E-01
1421	495061.06	3858401.99	0.00876	0.00376	0.00511	0.00931	0.008	0.011	0.0037	0.00376	0.09139982	0.006944441	5.32E-07	4.90E-04	3.72E-03	1.60E-03	2.64E-02	2.56E-02	1.05E-01
1422	495111.06	3858401.99	0.00857	0.00372	0.00504	0.00914	0.008	0.011	0.0037	0.00372	0.0894174	0.006870564	5.247E-07	4.81E-04	3.65E-03	1.61E-03	2.60E-02	2.53E-02	1.03E-01
1423	495161.06	3858401.99	0.00853	0.0037	0.005	0.00908	0.008	0.012	0.0037	0.0037	0.08900005	0.006833625	5.205E-07	4.78E-04	3.63E-03	1.63E-03	2.59E-02	2.52E-02	1.02E-01
1424	495211.06	3858401.99	0.00836	0.00366	0.00492	0.00893	0.008	0.012	0.0036	0.00366	0.08722631	0.006759748	5.122E-07	4.70E-04	3.56E-03	1.64E-03	2.56E-02	2.49E-02	1.00E-01
1425	495261.06	3858401.99	0.00826	0.00364	0.00487	0.00883	0.008	0.012	0.0036	0.00364	0.08618293	0.006722809	5.07E-07	4.65E-04	3.52E-03	1.66E-03	2.55E-02	2.48E-02	9.93E-02
1426	495311.06	3858401.99	0.00817	0.00362	0.00482	0.00873	0.007	0.012	0.0036	0.00362	0.08524389	0.006685871	5.018E-07	4.60E-04	3.48E-03	1.68E-03	2.53E-02	2.46E-02	9.82E-02
1427	495361.06	3858401.99	0.00809	0.0036	0.00478	0.00865	0.007	0.012	0.0036	0.0036	0.08440919	0.006648932	4.976E-07	4.56E-04	3.46E-03	1.71E-03	2.52E-02	2.45E-02	9.74E-02
1428	495411.06	3858401.99	0.00805	0.00359	0.00475	0.00859	0.007	0.012	0.0035	0.00359	0.08399184	0.006630463	4.945E-07	4.52E-04	3.44E-03	1.75E-03	2.51E-02	2.44E-02	9.69E-02
1429	495461.06	3858401.99	0.00801	0.00358	0.00473	0.00854	0.007	0.013	0.0035	0.00358	0.08357449	0.006611994	4.924E-07	4.50E-04	3.42E-03	1.79E-03	2.50E-02	2.43E-02	9.65E-02
1430	495511.06	3858401.99	0.00797	0.00356	0.0047	0.00848	0.007	0.013	0.0035	0.00356	0.08315714	0.006575055	4.893E-07	4.47E-04	3.40E-03	1.84E-03	2.49E-02	2.42E-02	9.62E-02
1431	495561.06	3858401.99	0.0079	0.00354	0.00465	0.00839	0.007	0.013	0.0035	0.00354	0.08242678	0.006538117	4.841E-07	4.42E-04	3.36E-03	1.90E-03	2.48E-02	2.41E-02	9.54E-02
1432	495611.06	3858401.99	0.00785	0.00353	0.00462	0.00834	0.007	0.014	0.0035	0.00353	0.08190509	0.006519648	4.81E-07	4.39E-04	3.34E-03	1.97E-03	2.47E-02	2.40E-02	9.49E-02
1433	495661.06	3858401.99	0.00786	0.00353	0.00462	0.00832	0.007	0.015	0.0035	0.00353	0.08200943	0.006519648	4.81E-07	4.38E-04	3.36E-03	2.05E-03	2.48E-02	2.40E-02	9.52E-02
1434	494311.06	3858451.99	0.01077	0.00428	0.00607	0.01124	0.01	0.011	0.0042	0.00428	0.1123717	0.007904842	6.319E-07	5.92E-04	4.47E-03	1.57E-03	3.00E-02	2.91E-02	1.28E-01
1435	494361.06	3858451.99	0.01063	0.00424	0.00599	0.01109	0.009	0.011	0.0042	0.00424	0.11091097	0.007830965	6.236E-07	5.84E-04	4.41E-03	1.57E-03	2.98E-02	2.88E-02	1.26E-01
1436	494411.06	3858451.99	0.0105	0.00421	0.00592	0.01096	0.009	0.011	0.0042	0.00421	0.10955458	0.007775557	6.163E-07	5.77E-04	4.37E-03	1.58E-03	2.95E-02	2.86E-02	1.25E-01
1437	494461.06	3858451.99	0.01039	0.00418	0.00587	0.01084	0.009	0.011	0.0041	0.00418	0.10840686	0.007720149	6.111E-07	5.71E-04	4.32E-03	1.58E-03	2.93E-02	2.84E-02	1.24E-01
1438	494511.06	3858451.99	0.01031	0.00416	0.00582	0.01074	0.009	0.011	0.0041	0.00416	0.10757216	0.007683211	6.059E-07	5.66E-04	4.30E-03	1.59E-03	2.92E-02	2.83E-02	1.23E-01
1439	494561.06	3858451.99	0.01018	0.00412	0.00576	0.0106	0.009	0.011	0.0041	0.00412	0.10621577	0.007609334	5.997E-07	5.58E-04	4.24E-03	1.60E-03	2.90E-02	2.80E-02	1.21E-01
1440	494611.06	3858451.99	0.01007	0.0041	0.0057	0.01048	0.009	0.011	0.0041	0.0041	0.10506806	0.007572395	5.934E-07	5.52E-04	4.20E-03	1.60E-03	2.88E-02	2.79E-02	1.20E-01
1441	494661.06	3858451.99	0.00996	0.00407	0.00565	0.01037	0.009	0.011	0.004	0.00407	0.10392034	0.007516987	5.882E-07	5.46E-04	4.15E-03	1.61E-03	2.86E-02	2.77E-02	1.19E-01
1442	494711.06	3858451.99	0.00982	0.00404	0.00558	0.01023	0.009	0.011	0.004	0.00404	0.10245961	0.00746158	5.809E-07	5.39E-04	4.10E-03	1.61E-03	2.83E-02	2.75E-02	1.17E-01
1443	494761.06	3858451.99	0.00968	0.004	0.00552	0.0101	0.009	0.011	0.004	0.004	0.10099889	0.007387703	5.747E-07	5.32E-04	4.05E-03	1.62E-03	2.81E-02	2.72E-02	1.16E-01
1444	494811.06	3858451.99	0.00953	0.00397	0.00547	0.00998	0.009	0.012	0.0039	0.00397	0.09943382	0.007332295	5.695E-07	5.26E-04	4.00E-03	1.62E-03	2.79E-02	2.70E-02	1.14E-01
1445	494861.06	3858451.99	0.00941	0.00394	0.00539	0.00986	0.008	0.012	0.0039	0.00394	0.09818177	0.007276887	5.611E-07	5.19E-04	3.90E-03	1.63E-03	2.77E-02	2.68E-02	1.12E-01
1446	494911.06	3858451.99	0.00928	0.00391	0.00532	0.00971	0.008	0.012	0.0039	0.00391	0.09682538	0.007221479	5.538E-07	5.11E-04	3.84E-03	1.64E-03	2.74E-02	2.66E-02	1.11E-01

1447	494961.06	3858451.99	0.00913	0.00388	0.00527	0.00959	0.008	0.012	0.0038	0.00388	0.09526031	0.007166072	5.486E-07	5.05E-04	3.79E-03	1.64E-03	2.72E-02	2.64E-02	1.09E-01
1448	495011.06	3858451.99	0.00898	0.00384	0.00521	0.00945	0.008	0.012	0.0038	0.00384	0.09369525	0.007092195	5.424E-07	4.98E-04	3.74E-03	1.65E-03	2.70E-02	2.61E-02	1.08E-01
1449	495061.06	3858451.99	0.00891	0.00382	0.00517	0.00936	0.008	0.012	0.0038	0.00382	0.09296488	0.007055256	5.382E-07	4.93E-04	3.71E-03	1.66E-03	2.69E-02	2.60E-02	1.07E-01
1450	495111.06	3858451.99	0.00877	0.00379	0.00511	0.00923	0.008	0.012	0.0038	0.00379	0.09150416	0.006999848	5.32E-07	4.86E-04	3.66E-03	1.68E-03	2.66E-02	2.58E-02	1.05E-01
1451	495161.06	3858451.99	0.00861	0.00376	0.00504	0.00909	0.008	0.012	0.0037	0.00376	0.08983475	0.006944441	5.247E-07	4.79E-04	3.60E-03	1.69E-03	2.63E-02	2.56E-02	1.03E-01
1452	495211.06	3858451.99	0.00847	0.00372	0.00499	0.00896	0.008	0.012	0.0037	0.00372	0.08837403	0.006870564	5.195E-07	4.72E-04	3.55E-03	1.70E-03	2.61E-02	2.53E-02	1.02E-01
1453	495261.06	3858451.99	0.00838	0.0037	0.00494	0.00886	0.007	0.012	0.0037	0.0037	0.08743499	0.006833625	5.143E-07	4.67E-04	3.51E-03	1.73E-03	2.59E-02	2.52E-02	1.01E-01
1454	495311.06	3858451.99	0.0083	0.00368	0.00488	0.00878	0.007	0.012	0.0036	0.00368	0.08660028	0.006796686	5.08E-07	4.62E-04	3.48E-03	1.75E-03	2.57E-02	2.50E-02	9.98E-02
1455	495361.06	3858451.99	0.00823	0.00366	0.00485	0.0087	0.007	0.013	0.0036	0.00366	0.08586992	0.006759748	5.049E-07	4.58E-04	3.45E-03	1.79E-03	2.56E-02	2.49E-02	9.91E-02
1456	495411.06	3858451.99	0.00819	0.00365	0.00482	0.00864	0.007	0.013	0.0036	0.00365	0.08545257	0.006741279	5.018E-07	4.55E-04	3.44E-03	1.83E-03	2.56E-02	2.48E-02	9.87E-02
1457	495461.06	3858451.99	0.00815	0.00364	0.00479	0.00859	0.007	0.013	0.0036	0.00364	0.08503522	0.006722809	4.987E-07	4.52E-04	3.42E-03	1.89E-03	2.55E-02	2.48E-02	9.83E-02
1458	495511.06	3858451.99	0.00807	0.00362	0.00475	0.0085	0.007	0.014	0.0036	0.00362	0.08420052	0.006685871	4.945E-07	4.48E-04	3.39E-03	1.94E-03	2.54E-02	2.46E-02	9.74E-02
1459	495561.06	3858451.99	0.00807	0.00361	0.00473	0.00847	0.007	0.014	0.0036	0.00361	0.08420052	0.006667402	4.924E-07	4.46E-04	3.39E-03	2.02E-03	2.53E-02	2.45E-02	9.75E-02
1460	495611.06	3858451.99	0.00797	0.00359	0.00469	0.00838	0.007	0.015	0.0036	0.00359	0.08315714	0.006630463	4.883E-07	4.41E-04	3.34E-03	2.09E-03	2.52E-02	2.44E-02	9.64E-02
1461	495661.06	3858451.99	0.00795	0.00358	0.00467	0.00834	0.007	0.016	0.0036	0.00358	0.08294847	0.006611994	4.862E-07	4.39E-04	3.33E-03	2.18E-03	2.52E-02	2.43E-02	9.63E-02
1462	494311.06	3858501.99	0.01086	0.00436	0.00614	0.01126	0.009	0.011	0.0043	0.00436	0.11331073	0.008052596	6.392E-07	5.93E-04	4.41E-03	1.61E-03	3.05E-02	2.96E-02	1.29E-01
1463	494361.06	3858501.99	0.01075	0.00433	0.00609	0.01114	0.009	0.012	0.0043	0.00433	0.11216302	0.007997188	6.34E-07	5.87E-04	4.38E-03	1.62E-03	3.03E-02	2.94E-02	1.28E-01
1464	494411.06	3858501.99	0.01064	0.00429	0.00601	0.01101	0.009	0.012	0.0043	0.00429	0.11101531	0.007923311	6.257E-07	5.80E-04	4.33E-03	1.63E-03	3.01E-02	2.92E-02	1.26E-01
1465	494461.06	3858501.99	0.01055	0.00427	0.00596	0.01091	0.009	0.012	0.0042	0.00427	0.11007627	0.007886373	6.205E-07	5.75E-04	4.30E-03	1.64E-03	3.00E-02	2.90E-02	1.25E-01
1466	494511.06	3858501.99	0.01041	0.00423	0.00589	0.01077	0.009	0.012	0.0042	0.00423	0.10861554	0.007812496	6.132E-07	5.67E-04	4.25E-03	1.64E-03	2.97E-02	2.88E-02	1.24E-01
1467	494561.06	3858501.99	0.01038	0.00422	0.00586	0.01072	0.009	0.012	0.0042	0.00422	0.10830252	0.007794026	6.101E-07	5.65E-04	4.25E-03	1.66E-03	2.96E-02	2.87E-02	1.23E-01
1468	494611.06	3858501.99	0.01026	0.00419	0.00579	0.01059	0.009	0.012	0.0042	0.00419	0.10705047	0.007738619	6.028E-07	5.58E-04	4.20E-03	1.67E-03	2.94E-02	2.85E-02	1.22E-01
1469	494661.06	3858501.99	0.01017	0.00416	0.00574	0.01049	0.009	0.012	0.0041	0.00416	0.10611143	0.007683211	5.976E-07	5.53E-04	4.17E-03	1.68E-03	2.93E-02	2.83E-02	1.21E-01
1470	494711.06	3858501.99	0.01003	0.00412	0.00567	0.01035	0.009	0.012	0.0041	0.00412	0.10465071	0.007609334	5.903E-07	5.45E-04	4.11E-03	1.69E-03	2.90E-02	2.80E-02	1.20E-01
1471	494761.06	3858501.99	0.00987	0.00409	0.0056	0.01019	0.009	0.012	0.0041	0.00409	0.1029813	0.007553926	5.83E-07	5.37E-04	4.05E-03	1.69E-03	2.87E-02	2.78E-02	1.18E-01
1472	494811.06	3858501.99	0.00972	0.00405	0.00554	0.01005	0.009	0.012	0.004	0.00405	0.10141624	0.007480049	5.767E-07	5.29E-04	4.00E-03	1.69E-03	2.85E-02	2.75E-02	1.16E-01
1473	494861.06	3858501.99	0.00962	0.00402	0.00548	0.00994	0.008	0.012	0.004	0.00402	0.10037286	0.007424641	5.705E-07	5.24E-04	3.96E-03	1.70E-03	2.83E-02	2.73E-02	1.15E-01
1474	494911.06	3858501.99	0.00939	0.00398	0.00541	0.00977	0.008	0.012	0.0039	0.00398	0.09797309	0.007350764	5.632E-07	5.15E-04	3.89E-03	1.70E-03	2.79E-02	2.71E-02	1.12E-01
1475	494961.06	3858501.99	0.00929	0.00395	0.00534	0.00966	0.008	0.012	0.0039	0.00395	0.09692972	0.007295356	5.559E-07	5.09E-04	3.79E-03	1.71E-03	2.78E-02	2.69E-02	1.11E-01
1476	495011.06	3858501.99	0.00912	0.00391	0.00528	0.00952	0.008	0.012	0.0039	0.00391	0.09515598	0.007221479	5.497E-07	5.01E-04	3.73E-03	1.72E-03	2.75E-02	2.66E-02	1.09E-01
1477	495061.06	3858501.99	0.00904	0.00389	0.00524	0.00943	0.008	0.012	0.0039	0.00389	0.09432127	0.007184541	5.455E-07	4.97E-04	3.70E-03	1.73E-03	2.73E-02	2.65E-02	1.08E-01
1478	495111.06	3858501.99	0.00885	0.00384	0.00515	0.00925	0.008	0.012	0.0038	0.00384	0.09233886	0.007092195	5.361E-07	4.87E-04	3.62E-03	1.74E-03	2.70E-02	2.61E-02	1.06E-01
1479	495161.06	3858501.99	0.00872	0.00381	0.0051	0.00913	0.008	0.013	0.0038	0.00381	0.09098247	0.007036787	5.309E-07	4.81E-04	3.58E-03	1.76E-03	2.67E-02	2.59E-02	1.05E-01
1480	495211.06	3858501.99	0.00859	0.00378	0.00504	0.00901	0.008	0.013	0.0037	0.00378	0.08962608	0.006981379	5.247E-07	4.75E-04	3.53E-03	1.78E-03	2.65E-02	2.57E-02	1.03E-01
1481	495261.06	3858501.99	0.00849	0.00376	0.005	0.00891	0.007	0.013	0.0037	0.00376	0.0885827	0.006944441	5.205E-07	4.69E-04	3.49E-03	1.80E-03	2.64E-02	2.56E-02	1.02E-01
1482	495311.06	3858501.99	0.00843	0.00374	0.00496	0.00884	0.007	0.013	0.0037	0.00374	0.08795667	0.006907502	5.164E-07	4.66E-04	3.47E-03	1.84E-03	2.62E-02	2.54E-02	1.01E-01
1483	495361.06	3858501.99	0.00837	0.00372	0.00493	0.00876	0.007	0.013	0.0037	0.00372	0.08733065	0.006870564	5.132E-07	4.61E-04	3.45E-03	1.88E-03	2.61E-02	2.53E-02	1.01E-01
1484	495411.06	3858501.99	0.00833	0.00371	0.0049	0.0087	0.007	0.014	0.0037	0.00371	0.0869133	0.006852094	5.101E-07	4.58E-04	3.43E-03	1.93E-03	2.60E-02	2.52E-02	1.00E-01
1485	495461.06	3858501.99	0.00828	0.0037	0.00487	0.00864	0.007	0.014	0.0037	0.0037	0.08639161	0.006833625	5.07E-07	4.55E-04	3.42E-03	2.00E-03	2.59E-02	2.52E-02	9.99E-02
1486	495511.06	3858501.99	0.00823	0.00368	0.00483	0.00858	0.007	0.015	0.0037	0.00368	0.08586992	0.006796686	5.028E-07	4.52E-04	3.39E-03	2.07E-03	2.59E-02	2.50E-02	9.94E-02
1487	495561.06	3858501.99	0.00821	0.00368	0.00481	0.00854	0.007	0.015	0.0036	0.00368	0.08566125	0.006796686	5.008E-07	4.50E-04	3.39E-03	2.15E-03	2.58E-02	2.50E-02	9.92E-02
1488	495611.06	3858501.99	0.00814	0.00365	0.00475	0.00846	0.007	0.016	0.0036	0.00365	0.08493088	0.006741279	4.945E-07	4.46E-04	3.34E-03	2.24E-03	2.56E-02	2.48E-02	9.85E-02
1489	495661.06	3858501.99	0.0081	0.00365	0.00475	0.00841	0.007	0.017	0.0036	0.00365	0.08451353	0.006741279	4.945E-07	4.43E-04	3.35E-03	2.35E-03	2.56E-02	2.48E-02	9.82E-02
1490	494311.06	3858551.99	0.01084	0.00439	0.00614	0.01116	0.009	0.012	0.0043	0.00439	0.11310206	0.008108004	6.392E-07	5.88E-04	4.27E-03	1.65E-03	3.08E-02	2.99E-02	1.29E-01
1491	494361.06	3858551.99	0.01084	0.00438	0.00611	0.01113	0.009	0.012	0.0043	0.00438	0.11310206	0.008089534	6.361E-07	5.86E-04	4.28E-03	1.67E-03	3.08E-02	2.98E-02	1.29E-01
1492	494411.06	3858551.99	0.01081	0.00439	0.00613	0.01111	0.009	0.012	0.0044	0.00439	0.11278905	0.008108004	6.382E-07	5.85E-04	4.31E-03	1.69E-03	3.08E-02	2.99E-02	1.28E-01
1493	494461.06	3858551.99	0.01075	0.00437	0.00608	0.01104	0.009	0.012	0.0043	0.00437	0.11216302	0.008071065	6.33E-07	5.82E-04	4.30E-03	1.70E-03	3.07E-02	2.97E-02	1.28E-01
1494	494511.06	3858551.99	0.01066	0.00434	0.00603	0.01093	0.009	0.012	0.0043	0.00434	0.11122398	0.008015657	6.278E-07	5.76E-04	4.27E-03	1.72E-03	3.05E-02	2.95E-02	1.27E-01
1495	494561.06	3858551.99	0.01057	0.00432	0.00598	0.01084	0.009	0.012	0.0043	0.00432	0.11028494	0.007978719	6.226E-07	5.71E-04	4.25E-03	1.73E-03	3.03E-02	2.94E-02	1.26E-01
1496	494611.06	3858551.99	0.01046	0.00429	0.00592	0.01072	0.009	0.012	0.0043	0.00429	0.10913723	0.007923311	6.163E-07	5.65E-04	4.21E-03	1.74E-03	3.01E-02	2.92E-02	1.25E-01
1497	494661.06	3858551.99	0.01037	0.00426	0.00587	0.01062	0.009	0.013	0.0042	0.00426	0.10819819	0.007867903	6.111E-07	5.59E-04	4.18E-03	1.76E-03	3.00E-02	2.90E-02	1.24E-01
1498	494711.06	3858551.99	0.01021	0.00422	0.00578	0.01047	0.009	0.013	0.0042	0.00422	0.10652878	0.007794026	6.017E-07	5.51E-04	4.12E-03	1.77E-03	2.97E-02	2.87E-02	1.22E-01
1499	494761.06	3858551.99	0.01006	0.00418	0.00571	0.01032	0.009	0.013	0.0041	0.00418	0.10496372	0.007720149	5.944E-07	5.44E-04	4.06E-03	1.77E-03	2.93E-02	2.84E-02	1.20E-01
1500	494811.06	3858551.99	0.00994	0.00414	0.00564	0.01019	0.009	0.013	0.0041	0.00414	0.10371167	0.007646272	5.872E-07	5.37E-04	4.01E-03	1.78E-03	2.91E-02	2.82E-02	1.19E-01
1501	494861.06	3858551.99	0.00979	0.0041	0.00557	0.01005	0.008	0.013	0.0041	0.0041	0.1021466	0.007572395	5.799E-07	5.29E-04	3.96E-03	1.78E-03	2.88E-02	2.79E-02	1.17E-01
1502	494911.06	3858551.99	0.00962	0.00406	0.0055	0.00988	0.008	0.013	0.004	0.00406	0.10037286	0.007498518	5.726E-07	5.20E-04	3.89E-03	1.78E-03	2.86E-02	2.76E-02	1.15E-01
1503	494961.06	3858551.99	0.00948	0.00403	0.00543	0.00975	0.008	0.013	0.004	0.00403	0.09891213	0.00744311	5.653E-07	5.14E-04	3.84E-03	1.79E-03	2.83E-02	2.74E-02	1.13E-01
1504	495011.06	3858551.99	0.00931	0.00398	0.00536	0.00959	0.008	0.013	0.004	0.00398	0.09713839	0.007350764	5.58E-07	5.05E-04	3.78E-03	1.80E-03	2.80E-02	2.71E-02	1.11E-01

1505	495061.06	3858551.99	0.00916	0.00395	0.0053	0.00948	0.008	0.013	0.0039	0.00395	0.09557333	0.007295356	5.518E-07	4.99E-04	3.74E-03	1.81E-03	2.78E-02	2.69E-02	1.10E-01
1506	495111.06	3858551.99	0.00897	0.00391	0.00522	0.00931	0.008	0.013	0.0039	0.00391	0.09359091	0.007221479	5.434E-07	4.90E-04	3.61E-03	1.82E-03	2.74E-02	2.66E-02	1.08E-01
1507	495161.06	3858551.99	0.00883	0.00387	0.00517	0.00918	0.008	0.013	0.0038	0.00387	0.09213018	0.007147602	5.382E-07	4.84E-04	3.56E-03	1.84E-03	2.72E-02	2.63E-02	1.06E-01
1508	495211.06	3858551.99	0.00871	0.00384	0.0051	0.00906	0.008	0.013	0.0038	0.00384	0.09087813	0.007092195	5.309E-07	4.77E-04	3.52E-03	1.87E-03	2.70E-02	2.61E-02	1.05E-01
1509	495261.06	3858551.99	0.00862	0.00382	0.00506	0.00897	0.007	0.013	0.0038	0.00382	0.08993909	0.007055256	5.268E-07	4.72E-04	3.48E-03	1.90E-03	2.68E-02	2.60E-02	1.04E-01
1510	495311.06	3858551.99	0.00857	0.0038	0.00502	0.0089	0.007	0.014	0.0038	0.0038	0.0894174	0.007018318	5.226E-07	4.69E-04	3.47E-03	1.94E-03	2.67E-02	2.58E-02	1.03E-01
1511	495361.06	3858551.99	0.00851	0.00379	0.00499	0.00883	0.007	0.014	0.0038	0.00379	0.08879138	0.006999848	5.195E-07	4.65E-04	3.45E-03	1.99E-03	2.66E-02	2.58E-02	1.02E-01
1512	495411.06	3858551.99	0.00847	0.00378	0.00496	0.00878	0.007	0.015	0.0037	0.00378	0.08837403	0.006981379	5.164E-07	4.62E-04	3.43E-03	2.06E-03	2.65E-02	2.57E-02	1.02E-01
1513	495461.06	3858551.99	0.00842	0.00376	0.00493	0.00871	0.007	0.015	0.0037	0.00376	0.08785234	0.006944441	5.132E-07	4.59E-04	3.41E-03	2.13E-03	2.64E-02	2.56E-02	1.02E-01
1514	495511.06	3858551.99	0.00839	0.00375	0.0049	0.00866	0.007	0.016	0.0037	0.00375	0.08753932	0.006925971	5.101E-07	4.56E-04	3.40E-03	2.21E-03	2.64E-02	2.55E-02	1.01E-01
1515	495561.06	3858551.99	0.00834	0.00374	0.00487	0.0086	0.007	0.016	0.0037	0.00374	0.08701764	0.006907502	5.07E-07	4.53E-04	3.39E-03	2.31E-03	2.63E-02	2.54E-02	1.01E-01
1516	495611.06	3858551.99	0.00828	0.00372	0.00484	0.00853	0.007	0.017	0.0037	0.00372	0.08639161	0.006870564	5.039E-07	4.49E-04	3.36E-03	2.41E-03	2.61E-02	2.53E-02	1.00E-01
1517	495661.06	3858551.99	0.00821	0.00371	0.0048	0.00846	0.007	0.018	0.0037	0.00371	0.08566125	0.006852094	4.997E-07	4.46E-04	3.34E-03	2.53E-03	2.60E-02	2.52E-02	9.96E-02
1518	494311.06	3858601.99	0.01048	0.00437	0.00608	0.01088	0.009	0.012	0.0043	0.00437	0.1093459	0.008071065	6.33E-07	5.73E-04	4.04E-03	1.66E-03	3.06E-02	2.97E-02	1.25E-01
1519	494361.06	3858601.99	0.01084	0.00444	0.00615	0.0111	0.009	0.012	0.0044	0.00444	0.11310206	0.00820035	6.403E-07	5.85E-04	4.18E-03	1.72E-03	3.11E-02	3.02E-02	1.29E-01
1520	494411.06	3858601.99	0.01102	0.0045	0.00625	0.01127	0.009	0.013	0.0045	0.0045	0.11498014	0.008311166	6.507E-07	5.94E-04	4.31E-03	1.77E-03	3.16E-02	3.06E-02	1.31E-01
1521	494461.06	3858601.99	0.01095	0.00448	0.00621	0.01119	0.009	0.013	0.0044	0.00448	0.11424977	0.008274227	6.465E-07	5.89E-04	4.30E-03	1.78E-03	3.15E-02	3.05E-02	1.30E-01
1522	494511.06	3858601.99	0.01085	0.00443	0.00613	0.01102	0.009	0.013	0.0044	0.00443	0.1132064	0.008181881	6.382E-07	5.80E-04	4.25E-03	1.79E-03	3.12E-02	3.01E-02	1.29E-01
1523	494561.06	3858601.99	0.01078	0.00443	0.00611	0.01099	0.009	0.013	0.0044	0.00443	0.11247603	0.008181881	6.361E-07	5.79E-04	4.26E-03	1.81E-03	3.11E-02	3.01E-02	1.28E-01
1524	494611.06	3858601.99	0.01065	0.00439	0.00604	0.01085	0.009	0.013	0.0044	0.00439	0.11111964	0.008108004	6.288E-07	5.72E-04	4.21E-03	1.83E-03	3.08E-02	2.99E-02	1.27E-01
1525	494661.06	3858601.99	0.01054	0.00436	0.00598	0.01074	0.009	0.013	0.0043	0.00436	0.10997193	0.008052596	6.226E-07	5.66E-04	4.17E-03	1.85E-03	3.06E-02	2.96E-02	1.26E-01
1526	494711.06	3858601.99	0.0104	0.00432	0.00591	0.01059	0.009	0.013	0.0043	0.00432	0.1085112	0.007978719	6.153E-07	5.58E-04	4.12E-03	1.86E-03	3.03E-02	2.94E-02	1.24E-01
1527	494761.06	3858601.99	0.01025	0.00428	0.00584	0.01045	0.009	0.013	0.0042	0.00428	0.10694613	0.007904842	6.08E-07	5.50E-04	4.07E-03	1.86E-03	3.00E-02	2.91E-02	1.22E-01
1528	494811.06	3858601.99	0.01006	0.00422	0.00574	0.01026	0.009	0.013	0.0042	0.00422	0.10496372	0.007794026	5.976E-07	5.40E-04	3.99E-03	1.86E-03	2.97E-02	2.87E-02	1.20E-01
1529	494861.06	3858601.99	0.00994	0.00419	0.00568	0.01014	0.008	0.013	0.0042	0.00419	0.10371167	0.007738619	5.913E-07	5.34E-04	3.95E-03	1.87E-03	2.95E-02	2.85E-02	1.19E-01
1530	494911.06	3858601.99	0.00975	0.00414	0.00558	0.00997	0.008	0.013	0.0041	0.00414	0.10172925	0.007646272	5.809E-07	5.25E-04	3.88E-03	1.87E-03	2.91E-02	2.82E-02	1.17E-01
1531	494961.06	3858601.99	0.00961	0.0041	0.00551	0.00983	0.008	0.013	0.0041	0.0041	0.10026852	0.007572395	5.736E-07	5.18E-04	3.83E-03	1.88E-03	2.88E-02	2.79E-02	1.15E-01
1532	495011.06	3858601.99	0.00946	0.00406	0.00545	0.00968	0.008	0.013	0.004	0.00406	0.09870346	0.007498518	5.674E-07	5.10E-04	3.77E-03	1.89E-03	2.86E-02	2.76E-02	1.13E-01
1533	495061.06	3858601.99	0.00932	0.00402	0.00538	0.00954	0.008	0.014	0.004	0.00402	0.09724273	0.007424641	5.601E-07	5.03E-04	3.72E-03	1.91E-03	2.83E-02	2.73E-02	1.12E-01
1534	495111.06	3858601.99	0.00907	0.00397	0.00529	0.00936	0.008	0.014	0.0039	0.00397	0.09463429	0.007332295	5.507E-07	4.93E-04	3.64E-03	1.92E-03	2.79E-02	2.70E-02	1.09E-01
1535	495161.06	3858601.99	0.00895	0.00394	0.00523	0.00924	0.008	0.014	0.0039	0.00394	0.09338223	0.007276887	5.445E-07	4.87E-04	3.55E-03	1.94E-03	2.76E-02	2.68E-02	1.07E-01
1536	495211.06	3858601.99	0.00886	0.00391	0.00519	0.00915	0.007	0.014	0.0039	0.00391	0.0924432	0.007221479	5.403E-07	4.82E-04	3.51E-03	1.97E-03	2.75E-02	2.66E-02	1.07E-01
1537	495261.06	3858601.99	0.00877	0.00389	0.00514	0.00905	0.007	0.014	0.0039	0.00389	0.09150416	0.007184541	5.351E-07	4.77E-04	3.48E-03	2.01E-03	2.73E-02	2.65E-02	1.06E-01
1538	495311.06	3858601.99	0.00869	0.00387	0.0051	0.00897	0.007	0.015	0.0038	0.00387	0.09066945	0.007147602	5.309E-07	4.72E-04	3.46E-03	2.06E-03	2.72E-02	2.63E-02	1.05E-01
1539	495361.06	3858601.99	0.00864	0.00385	0.00507	0.00891	0.007	0.015	0.0038	0.00385	0.09014777	0.007110664	5.278E-07	4.69E-04	3.44E-03	2.12E-03	2.71E-02	2.62E-02	1.04E-01
1540	495411.06	3858601.99	0.00859	0.00384	0.00503	0.00884	0.007	0.016	0.0038	0.00384	0.08962608	0.007092195	5.237E-07	4.66E-04	3.42E-03	2.20E-03	2.70E-02	2.61E-02	1.04E-01
1541	495461.06	3858601.99	0.00855	0.00383	0.005	0.00879	0.007	0.016	0.0038	0.00383	0.08920873	0.007073725	5.205E-07	4.63E-04	3.41E-03	2.28E-03	2.69E-02	2.60E-02	1.03E-01
1542	495511.06	3858601.99	0.00848	0.00381	0.00496	0.0087	0.007	0.017	0.0038	0.00381	0.08847836	0.007036787	5.164E-07	4.58E-04	3.39E-03	2.37E-03	2.68E-02	2.59E-02	1.03E-01
1543	495561.06	3858601.99	0.00845	0.0038	0.00494	0.00866	0.007	0.018	0.0038	0.0038	0.08816535	0.007018318	5.143E-07	4.56E-04	3.38E-03	2.48E-03	2.67E-02	2.58E-02	1.02E-01
1544	495611.06	3858601.99	0.00836	0.00378	0.00489	0.00857	0.007	0.018	0.0038	0.00378	0.08722631	0.006981379	5.091E-07	4.51E-04	3.34E-03	2.60E-03	2.66E-02	2.57E-02	1.01E-01
1545	495661.06	3858601.99	0.00833	0.00377	0.00487	0.00852	0.007	0.02	0.0037	0.00377	0.0869133	0.00696291	5.07E-07	4.49E-04	3.33E-03	2.75E-03	2.65E-02	2.56E-02	1.01E-01
1546	494311.06	3858651.99	0.01047	0.00443	0.00614	0.01084	0.008	0.012	0.0044	0.00443	0.10924156	0.008181881	6.392E-07	5.71E-04	3.92E-03	1.71E-03	3.10E-02	3.01E-02	1.24E-01
1547	494361.06	3858651.99	0.01083	0.00449	0.0062	0.01106	0.009	0.013	0.0045	0.00449	0.11299772	0.008292696	6.455E-07	5.83E-04	4.06E-03	1.77E-03	3.15E-02	3.05E-02	1.29E-01
1548	494411.06	3858651.99	0.01116	0.00457	0.00626	0.01134	0.009	0.013	0.0045	0.00457	0.11644087	0.00844045	6.517E-07	5.97E-04	4.25E-03	1.84E-03	3.22E-02	3.11E-02	1.33E-01
1549	494461.06	3858651.99	0.01111	0.00458	0.00634	0.01132	0.009	0.013	0.0046	0.00458	0.11591918	0.00845892	6.6E-07	5.96E-04	4.28E-03	1.87E-03	3.22E-02	3.11E-02	1.32E-01
1550	494511.06	3858651.99	0.01101	0.00455	0.00628	0.0112	0.009	0.013	0.0045	0.00455	0.1148758	0.008403512	6.538E-07	5.90E-04	4.25E-03	1.89E-03	3.20E-02	3.09E-02	1.31E-01
1551	494561.06	3858651.99	0.01093	0.00453	0.00623	0.01111	0.009	0.014	0.0045	0.00453	0.1140411	0.008366573	6.486E-07	5.85E-04	4.24E-03	1.91E-03	3.18E-02	3.08E-02	1.30E-01
1552	494611.06	3858651.99	0.01083	0.0045	0.00618	0.01101	0.009	0.014	0.0045	0.0045	0.11299772	0.008311166	6.434E-07	5.80E-04	4.21E-03	1.93E-03	3.17E-02	3.06E-02	1.29E-01
1553	494661.06	3858651.99	0.01071	0.00446	0.00611	0.01087	0.009	0.014	0.0044	0.00446	0.11174567	0.008237288	6.361E-07	5.73E-04	4.17E-03	1.95E-03	3.14E-02	3.03E-02	1.28E-01
1554	494711.06	3858651.99	0.01055	0.00441	0.00603	0.01071	0.009	0.014	0.0044	0.00441	0.11007627	0.008144942	6.278E-07	5.64E-04	4.11E-03	1.97E-03	3.10E-02	3.00E-02	1.26E-01
1555	494761.06	3858651.99	0.01042	0.00437	0.00596	0.01057	0.009	0.014	0.0043	0.00437	0.10871988	0.008071065	6.205E-07	5.57E-04	4.07E-03	1.98E-03	3.08E-02	2.97E-02	1.24E-01
1556	494811.06	3858651.99	0.01024	0.00432	0.00587	0.0104	0.009	0.014	0.0043	0.00432	0.1068418	0.007978719	6.111E-07	5.48E-04	4.00E-03	1.98E-03	3.04E-02	2.94E-02	1.22E-01
1557	494861.06	3858651.99	0.01008	0.00428	0.00579	0.01023	0.008	0.014	0.0042	0.00428	0.10517239	0.007904842	6.028E-07	5.39E-04	3.93E-03	1.98E-03	3.00E-02	2.91E-02	1.20E-01
1558	494911.06	3858651.99	0.0099	0.00422	0.00569	0.01006	0.008	0.014	0.0042	0.00422	0.10329432	0.007794026	5.924E-07	5.30E-04	3.87E-03	1.98E-03	2.97E-02	2.87E-02	1.18E-01
1559	494961.06	3858651.99	0.00973	0.00418	0.00561	0.0099	0.008	0.014	0.0041	0.00418	0.10152057	0.007720149	5.84E-07	5.21E-04	3.81E-03	1.99E-03	2.93E-02	2.84E-02	1.16E-01
1560	495011.06	3858651.99	0.00959	0.00414	0.00554	0.00976	0.008	0.014	0.0041	0.00414	0.10005985	0.007646272	5.767E-07	5.14E-04	3.76E-03	2.01E-03	2.91E-02	2.82E-02	1.15E-01
1561	495061.06	3858651.99	0.00944	0.00409	0.00546	0.00962	0.008	0.014	0.0041	0.00409	0.09849478	0.007553926	5.684E-07	5.07E-04	3.70E-03	2.02E-03	2.88E-02	2.78E-02	1.13E-01
1562	495111.06	3858651.99	0.00927	0.00405	0.00538	0.00945	0.008	0.015	0.004	0.00405	0.09672104	0.007480049	5.601E-07	4.98E-04	3.64E-03	2.04E-03	2.85E-02	2.75E-02	1.11E-01

1563	495161.06	3858651.99	0.00915	0.00402	0.00532	0.00934	0.008	0.015	0.004	0.00402	0.09546899	0.007424641	5.538E-07	4.92E-04	3.60E-03	2.07E-03	2.83E-02	2.73E-02	1.10E-01
1564	495211.06	3858651.99	0.00902	0.00398	0.00526	0.00921	0.008	0.015	0.004	0.00398	0.0941126	0.007350764	5.476E-07	4.85E-04	3.55E-03	2.10E-03	2.80E-02	2.71E-02	1.09E-01
1565	495261.06	3858651.99	0.00896	0.00396	0.00522	0.00914	0.008	0.015	0.0039	0.00396	0.09348657	0.007313826	5.434E-07	4.81E-04	3.54E-03	2.15E-03	2.78E-02	2.69E-02	1.08E-01
1566	495311.06	3858651.99	0.00884	0.00394	0.00518	0.00906	0.007	0.016	0.0039	0.00394	0.09223452	0.007276887	5.393E-07	4.77E-04	3.51E-03	2.21E-03	2.77E-02	2.68E-02	1.07E-01
1567	495361.06	3858651.99	0.00879	0.00393	0.00514	0.00899	0.007	0.016	0.0039	0.00393	0.09171283	0.007258418	5.351E-07	4.74E-04	3.50E-03	2.29E-03	2.76E-02	2.67E-02	1.06E-01
1568	495411.06	3858651.99	0.00874	0.00391	0.00511	0.00894	0.007	0.017	0.0039	0.00391	0.09119114	0.007221479	5.32E-07	4.71E-04	3.48E-03	2.38E-03	2.76E-02	2.66E-02	1.06E-01
1569	495461.06	3858651.99	0.00872	0.0039	0.00508	0.00889	0.007	0.018	0.0039	0.0039	0.09098247	0.00720301	5.289E-07	4.68E-04	3.48E-03	2.48E-03	2.75E-02	2.65E-02	1.06E-01
1570	495511.06	3858651.99	0.00863	0.00388	0.00503	0.0088	0.007	0.018	0.0039	0.00388	0.09004343	0.007166072	5.237E-07	4.64E-04	3.45E-03	2.58E-03	2.73E-02	2.64E-02	1.05E-01
1571	495561.06	3858651.99	0.00856	0.00386	0.00499	0.00873	0.007	0.019	0.0038	0.00386	0.08931306	0.007129133	5.195E-07	4.60E-04	3.37E-03	2.70E-03	2.72E-02	2.62E-02	1.04E-01
1572	495611.06	3858651.99	0.00847	0.00384	0.00494	0.00864	0.007	0.02	0.0038	0.00384	0.08837403	0.007092195	5.143E-07	4.55E-04	3.33E-03	2.84E-03	2.70E-02	2.61E-02	1.03E-01
1573	495661.06	3858651.99	0.00843	0.00382	0.00491	0.00858	0.007	0.022	0.0038	0.00382	0.08795667	0.007055256	5.112E-07	4.52E-04	3.32E-03	3.02E-03	2.69E-02	2.60E-02	1.03E-01
1574	494311.06	3858701.99	0.01064	0.00453	0.00629	0.01094	0.008	0.013	0.0045	0.00453	0.11101531	0.008366573	6.548E-07	5.76E-04	3.88E-03	1.78E-03	3.17E-02	3.08E-02	1.27E-01
1575	494361.06	3858701.99	0.01111	0.00463	0.00633	0.01128	0.009	0.013	0.0046	0.00463	0.11591918	0.008551266	6.59E-07	5.94E-04	4.08E-03	1.86E-03	3.25E-02	3.15E-02	1.32E-01
1576	494411.06	3858701.99	0.0113	0.00468	0.00639	0.01146	0.009	0.014	0.0047	0.00468	0.11790159	0.008643612	6.652E-07	6.04E-04	4.22E-03	1.93E-03	3.29E-02	3.18E-02	1.34E-01
1577	494461.06	3858701.99	0.01124	0.00466	0.00635	0.0114	0.009	0.014	0.0046	0.00466	0.11727557	0.008606674	6.611E-07	6.00E-04	4.22E-03	1.96E-03	3.28E-02	3.17E-02	1.34E-01
1578	494511.06	3858701.99	0.01115	0.00466	0.00642	0.01134	0.009	0.014	0.0046	0.00466	0.11633653	0.008606674	6.684E-07	5.97E-04	4.23E-03	1.99E-03	3.28E-02	3.17E-02	1.33E-01
1579	494561.06	3858701.99	0.01106	0.00463	0.00637	0.01123	0.009	0.014	0.0046	0.00463	0.11539749	0.008551266	6.632E-07	5.92E-04	4.21E-03	2.01E-03	3.26E-02	3.15E-02	1.32E-01
1580	494611.06	3858701.99	0.01088	0.00457	0.00626	0.01104	0.009	0.014	0.0045	0.00457	0.11351941	0.00844045	6.517E-07	5.82E-04	4.14E-03	2.02E-03	3.22E-02	3.11E-02	1.30E-01
1581	494661.06	3858701.99	0.01082	0.00455	0.00622	0.01098	0.009	0.015	0.0045	0.00455	0.11289338	0.008403512	6.475E-07	5.78E-04	4.14E-03	2.06E-03	3.20E-02	3.09E-02	1.29E-01
1582	494711.06	3858701.99	0.0105	0.00445	0.00606	0.01063	0.009	0.015	0.0044	0.00445	0.10955458	0.008218819	6.309E-07	5.60E-04	3.99E-03	2.06E-03	3.13E-02	3.03E-02	1.25E-01
1583	494761.06	3858701.99	0.01051	0.00445	0.00605	0.01064	0.009	0.015	0.0044	0.00445	0.10965892	0.008218819	6.298E-07	5.60E-04	4.02E-03	2.10E-03	3.13E-02	3.03E-02	1.26E-01
1584	494811.06	3858701.99	0.01034	0.0044	0.00596	0.01046	0.008	0.015	0.0044	0.0044	0.10788517	0.008126473	6.205E-07	5.51E-04	3.96E-03	2.11E-03	3.10E-02	2.99E-02	1.24E-01
1585	494861.06	3858701.99	0.01019	0.00436	0.00588	0.0103	0.008	0.015	0.0043	0.00436	0.10632011	0.008052596	6.121E-07	5.43E-04	3.90E-03	2.12E-03	3.07E-02	2.96E-02	1.22E-01
1586	494911.06	3858701.99	0.01005	0.00432	0.00581	0.01017	0.008	0.015	0.0043	0.00432	0.10485938	0.007978719	6.049E-07	5.36E-04	3.86E-03	2.13E-03	3.04E-02	2.94E-02	1.20E-01
1587	494961.06	3858701.99	0.00982	0.00425	0.0057	0.00995	0.008	0.015	0.0042	0.00425	0.10245961	0.007849434	5.934E-07	5.24E-04	3.77E-03	2.12E-03	2.99E-02	2.89E-02	1.18E-01
1588	495011.06	3858701.99	0.00966	0.0042	0.00561	0.00979	0.008	0.015	0.0042	0.0042	0.10079021	0.007757088	5.84E-07	5.16E-04	3.71E-03	2.14E-03	2.95E-02	2.86E-02	1.16E-01
1589	495061.06	3858701.99	0.00957	0.00418	0.00556	0.0097	0.008	0.015	0.0042	0.00418	0.09985117	0.007720149	5.788E-07	5.11E-04	3.69E-03	2.17E-03	2.94E-02	2.84E-02	1.15E-01
1590	495111.06	3858701.99	0.00939	0.00412	0.00545	0.00953	0.008	0.016	0.0041	0.00412	0.09797309	0.007609334	5.674E-07	5.02E-04	3.62E-03	2.19E-03	2.90E-02	2.80E-02	1.13E-01
1591	495161.06	3858701.99	0.00929	0.00409	0.00539	0.00942	0.008	0.016	0.0041	0.00409	0.09692972	0.007553926	5.611E-07	4.96E-04	3.59E-03	2.22E-03	2.88E-02	2.78E-02	1.12E-01
1592	495211.06	3858701.99	0.00915	0.00406	0.00533	0.00929	0.008	0.016	0.004	0.00406	0.09546899	0.007498518	5.549E-07	4.89E-04	3.55E-03	2.26E-03	2.86E-02	2.76E-02	1.10E-01
1593	495261.06	3858701.99	0.0091	0.00404	0.00529	0.00922	0.008	0.017	0.004	0.00404	0.0949473	0.00746158	5.507E-07	4.86E-04	3.53E-03	2.33E-03	2.84E-02	2.75E-02	1.10E-01
1594	495311.06	3858701.99	0.00905	0.00402	0.00525	0.00916	0.008	0.017	0.004	0.00402	0.09442561	0.007424641	5.466E-07	4.82E-04	3.52E-03	2.41E-03	2.83E-02	2.73E-02	1.09E-01
1595	495361.06	3858701.99	0.00898	0.004	0.00521	0.00908	0.007	0.018	0.004	0.004	0.09369525	0.007387703	5.424E-07	4.78E-04	3.50E-03	2.50E-03	2.82E-02	2.72E-02	1.09E-01
1596	495411.06	3858701.99	0.00894	0.00399	0.00518	0.00903	0.007	0.018	0.004	0.00399	0.0932779	0.007369233	5.393E-07	4.76E-04	3.49E-03	2.60E-03	2.81E-02	2.71E-02	1.08E-01
1597	495461.06	3858701.99	0.00888	0.00398	0.00514	0.00897	0.007	0.019	0.004	0.00398	0.09265187	0.007350764	5.351E-07	4.72E-04	3.47E-03	2.71E-03	2.80E-02	2.71E-02	1.08E-01
1598	495511.06	3858701.99	0.00881	0.00395	0.0051	0.00889	0.007	0.02	0.0039	0.00395	0.09192151	0.007295356	5.309E-07	4.68E-04	3.45E-03	2.84E-03	2.78E-02	2.69E-02	1.07E-01
1599	495561.06	3858701.99	0.00872	0.00393	0.00505	0.0088	0.007	0.021	0.0039	0.00393	0.09098247	0.007258418	5.257E-07	4.64E-04	3.42E-03	2.98E-03	2.77E-02	2.67E-02	1.06E-01
1600	495611.06	3858701.99	0.00864	0.00391	0.005	0.00872	0.007	0.022	0.0039	0.00391	0.09014777	0.007221479	5.205E-07	4.59E-04	3.39E-03	3.16E-03	2.76E-02	2.66E-02	1.05E-01
1601	495661.06	3858701.99	0.00858	0.00389	0.00496	0.00865	0.007	0.024	0.0039	0.00389	0.08952174	0.007184541	5.164E-07	4.56E-04	3.38E-03	3.38E-03	2.74E-02	2.65E-02	1.05E-01
1602	494311.06	3858751.99	0.01086	0.00464	0.00642	0.01104	0.008	0.013	0.0046	0.00464	0.11331073	0.008569735	6.684E-07	5.82E-04	3.84E-03	1.87E-03	3.25E-02	3.16E-02	1.29E-01
1603	494361.06	3858751.99	0.01133	0.00476	0.00649	0.01149	0.009	0.014	0.0047	0.00476	0.11821461	0.008791366	6.756E-07	6.05E-04	4.09E-03	1.97E-03	3.35E-02	3.24E-02	1.35E-01
1604	494411.06	3858751.99	0.01144	0.0048	0.00654	0.01162	0.009	0.014	0.0048	0.0048	0.11936232	0.008865243	6.809E-07	6.12E-04	4.20E-03	2.03E-03	3.38E-02	3.26E-02	1.36E-01
1605	494461.06	3858751.99	0.01137	0.00478	0.00649	0.01155	0.009	0.015	0.0048	0.00478	0.11863196	0.008828305	6.756E-07	6.08E-04	4.20E-03	2.07E-03	3.37E-02	3.25E-02	1.35E-01
1606	494511.06	3858751.99	0.0113	0.00479	0.00659	0.01152	0.009	0.015	0.0048	0.00479	0.11790159	0.008846774	6.861E-07	6.07E-04	4.22E-03	2.12E-03	3.37E-02	3.26E-02	1.35E-01
1607	494561.06	3858751.99	0.0112	0.00473	0.00648	0.01135	0.009	0.015	0.0047	0.00473	0.11685822	0.008735958	6.746E-07	5.98E-04	4.18E-03	2.14E-03	3.33E-02	3.22E-02	1.34E-01
1608	494611.06	3858751.99	0.01104	0.00468	0.0064	0.01117	0.009	0.015	0.0047	0.00468	0.11518881	0.008643612	6.663E-07	5.88E-04	4.13E-03	2.16E-03	3.29E-02	3.18E-02	1.32E-01
1609	494661.06	3858751.99	0.01094	0.00464	0.00629	0.01106	0.009	0.016	0.0046	0.00464	0.11414544	0.008569735	6.548E-07	5.83E-04	4.09E-03	2.20E-03	3.27E-02	3.16E-02	1.31E-01
1610	494711.06	3858751.99	0.01075	0.00457	0.0062	0.01084	0.009	0.016	0.0045	0.00457	0.11216302	0.00844045	6.455E-07	5.71E-04	4.00E-03	2.23E-03	3.22E-02	3.11E-02	1.28E-01
1611	494761.06	3858751.99	0.01063	0.00455	0.00616	0.01074	0.009	0.016	0.0045	0.00455	0.11091097	0.008403512	6.413E-07	5.66E-04	4.00E-03	2.27E-03	3.20E-02	3.09E-02	1.27E-01
1612	494811.06	3858751.99	0.01045	0.00449	0.00606	0.01055	0.008	0.016	0.0045	0.00449	0.10903289	0.008292696	6.309E-07	5.56E-04	3.92E-03	2.27E-03	3.16E-02	3.05E-02	1.25E-01
1613	494861.06	3858751.99	0.01028	0.00444	0.00597	0.01037	0.008	0.016	0.0044	0.00444	0.10725915	0.00820035	6.215E-07	5.46E-04	3.86E-03	2.28E-03	3.12E-02	3.02E-02	1.23E-01
1614	494911.06	3858751.99	0.0101	0.00438	0.00587	0.01019	0.008	0.016	0.0044	0.00438	0.10538107	0.008089534	6.111E-07	5.37E-04	3.79E-03	2.28E-03	3.08E-02	2.98E-02	1.21E-01
1615	494961.06	3858751.99	0.00996	0.00434	0.00579	0.01004	0.008	0.016	0.0043	0.00434	0.10392034	0.008015657	6.028E-07	5.29E-04	3.75E-03	2.30E-03	3.05E-02	2.95E-02	1.20E-01
1616	495011.06	3858751.99	0.00985	0.00431	0.00573	0.00993	0.008	0.017	0.0043	0.00431	0.10277263	0.00796025	5.965E-07	5.23E-04	3.71E-03	2.33E-03	3.03E-02	2.93E-02	1.18E-01
1617	495061.06	3858751.99	0.0097	0.00426	0.00565	0.00978	0.008	0.017	0.0042	0.00426	0.10120756	0.007867903	5.882E-07	5.15E-04	3.67E-03	2.36E-03	3.00E-02	2.90E-02	1.17E-01
1618	495111.06	3858751.99	0.00953	0.00421	0.00555	0.00962	0.008	0.017	0.0042	0.00421	0.09943382	0.007775557	5.778E-07	5.07E-04	3.61E-03	2.38E-03	2.96E-02	2.86E-02	1.15E-01
1619	495161.06	3858751.99	0.00942	0.00418	0.00549	0.00951	0.008	0.017	0.0042	0.00418	0.09828611	0.007720149	5.715E-07	5.01E-04	3.58E-03	2.43E-03	2.94E-02	2.84E-02	1.13E-01
1620	495211.06	3858751.99	0.00929	0.00414	0.00541	0.00938	0.008	0.018	0.0041	0.00414	0.09692972	0.007646272	5.632E-07	4.94E-04	3.54E-03	2.48E-03	2.91E-02	2.82E-02	1.12E-01

1621	495261.06	3858751.99	0.00923	0.00412	0.00537	0.00931	0.008	0.018	0.0041	0.00412	0.09630369	0.007609334	5.59E-07	4.90E-04	3.52E-03	2.57E-03	2.90E-02	2.80E-02	1.11E-01
1622	495311.06	3858751.99	0.00917	0.0041	0.00533	0.00925	0.007	0.019	0.0041	0.0041	0.09567766	0.007572395	5.549E-07	4.87E-04	3.51E-03	2.66E-03	2.89E-02	2.79E-02	1.11E-01
1623	495361.06	3858751.99	0.0091	0.00408	0.00529	0.00917	0.007	0.02	0.0041	0.00408	0.0949473	0.007535457	5.507E-07	4.83E-04	3.49E-03	2.76E-03	2.88E-02	2.77E-02	1.10E-01
1624	495411.06	3858751.99	0.00907	0.00407	0.00526	0.00913	0.007	0.021	0.0041	0.00407	0.09463429	0.007516987	5.476E-07	4.81E-04	3.49E-03	2.89E-03	2.87E-02	2.77E-02	1.10E-01
1625	495461.06	3858751.99	0.00901	0.00406	0.00522	0.00906	0.007	0.021	0.004	0.00406	0.09400826	0.007498518	5.434E-07	4.77E-04	3.47E-03	3.02E-03	2.86E-02	2.76E-02	1.09E-01
1626	495511.06	3858751.99	0.00894	0.00403	0.00515	0.00898	0.007	0.023	0.004	0.00403	0.0932779	0.00744311	5.361E-07	4.73E-04	3.45E-03	3.17E-03	2.84E-02	2.74E-02	1.09E-01
1627	495561.06	3858751.99	0.00885	0.00401	0.0051	0.0089	0.007	0.024	0.004	0.00401	0.09233886	0.007406172	5.309E-07	4.69E-04	3.43E-03	3.35E-03	2.83E-02	2.73E-02	1.08E-01
1628	495611.06	3858751.99	0.00877	0.00398	0.00505	0.00881	0.007	0.025	0.004	0.00398	0.09150416	0.007350764	5.257E-07	4.64E-04	3.40E-03	3.57E-03	2.81E-02	2.71E-02	1.07E-01
1629	495661.06	3858751.99	0.0087	0.00396	0.00501	0.00873	0.007	0.027	0.0039	0.00396	0.09077379	0.007313826	5.216E-07	4.60E-04	3.38E-03	3.84E-03	2.79E-02	2.69E-02	1.07E-01
1630	494311.06	3858801.99	0.01115	0.00478	0.00657	0.01128	0.008	0.014	0.0047	0.00478	0.11633653	0.008828305	6.84E-07	5.94E-04	3.85E-03	1.98E-03	3.35E-02	3.25E-02	1.33E-01
1631	494361.06	3858801.99	0.01149	0.00489	0.00665	0.01166	0.009	0.015	0.0049	0.00489	0.11988401	0.009031467	6.923E-07	6.14E-04	4.08E-03	2.08E-03	3.44E-02	3.33E-02	1.37E-01
1632	494411.06	3858801.99	0.01151	0.00491	0.00665	0.0117	0.009	0.015	0.0049	0.00491	0.12009268	0.009068405	6.923E-07	6.16E-04	4.14E-03	2.14E-03	3.45E-02	3.34E-02	1.37E-01
1633	494461.06	3858801.99	0.01148	0.0049	0.00664	0.01169	0.009	0.016	0.0049	0.0049	0.11977967	0.009049936	6.913E-07	6.16E-04	4.17E-03	2.20E-03	3.45E-02	3.33E-02	1.37E-01
1634	494511.06	3858801.99	0.01141	0.00491	0.00673	0.01167	0.009	0.016	0.0049	0.00491	0.11904931	0.009068405	7.006E-07	6.15E-04	4.20E-03	2.26E-03	3.45E-02	3.34E-02	1.36E-01
1635	494561.06	3858801.99	0.01132	0.00488	0.00667	0.01157	0.009	0.016	0.0049	0.00488	0.11811027	0.009012997	6.944E-07	6.09E-04	4.19E-03	2.30E-03	3.44E-02	3.32E-02	1.35E-01
1636	494611.06	3858801.99	0.01121	0.00484	0.00659	0.01144	0.009	0.017	0.0048	0.00484	0.11696255	0.00893912	6.861E-07	6.03E-04	4.15E-03	2.35E-03	3.40E-02	3.29E-02	1.34E-01
1637	494661.06	3858801.99	0.01107	0.00478	0.00649	0.01126	0.009	0.017	0.0048	0.00478	0.11550183	0.008828305	6.756E-07	5.93E-04	4.10E-03	2.40E-03	3.37E-02	3.25E-02	1.33E-01
1638	494711.06	3858801.99	0.0109	0.00471	0.00637	0.01105	0.009	0.017	0.0047	0.00471	0.11372809	0.00869902	6.632E-07	5.82E-04	4.03E-03	2.44E-03	3.32E-02	3.20E-02	1.31E-01
1639	494761.06	3858801.99	0.01071	0.00464	0.00625	0.01083	0.008	0.018	0.0046	0.00464	0.11174567	0.008569735	6.507E-07	5.70E-04	3.95E-03	2.47E-03	3.27E-02	3.16E-02	1.28E-01
1640	494811.06	3858801.99	0.01052	0.00457	0.00613	0.01061	0.008	0.018	0.0046	0.00457	0.10976325	0.00844045	6.382E-07	5.59E-04	3.87E-03	2.48E-03	3.22E-02	3.11E-02	1.26E-01
1641	494861.06	3858801.99	0.01039	0.00453	0.00605	0.01047	0.008	0.018	0.0045	0.00453	0.10840686	0.008366573	6.298E-07	5.51E-04	3.83E-03	2.50E-03	3.19E-02	3.08E-02	1.25E-01
1642	494911.06	3858801.99	0.01022	0.00447	0.00595	0.01028	0.008	0.018	0.0044	0.00447	0.10663312	0.008255758	6.194E-07	5.41E-04	3.77E-03	2.51E-03	3.15E-02	3.04E-02	1.23E-01
1643	494961.06	3858801.99	0.01008	0.00443	0.00587	0.01014	0.008	0.018	0.0044	0.00443	0.10517239	0.008181881	6.111E-07	5.34E-04	3.72E-03	2.54E-03	3.12E-02	3.01E-02	1.21E-01
1644	495011.06	3858801.99	0.00993	0.00438	0.00578	0.00998	0.008	0.018	0.0044	0.00438	0.10360733	0.008089534	6.017E-07	5.26E-04	3.67E-03	2.57E-03	3.08E-02	2.98E-02	1.20E-01
1645	495061.06	3858801.99	0.00982	0.00435	0.00572	0.00987	0.008	0.019	0.0043	0.00435	0.10245961	0.008034127	5.955E-07	5.20E-04	3.64E-03	2.62E-03	3.06E-02	2.96E-02	1.18E-01
1646	495111.06	3858801.99	0.00964	0.00429	0.00562	0.0097	0.008	0.019	0.0043	0.00429	0.10058154	0.007923311	5.851E-07	5.11E-04	3.58E-03	2.64E-03	3.02E-02	2.92E-02	1.16E-01
1647	495161.06	3858801.99	0.0095	0.00425	0.00554	0.00956	0.008	0.019	0.0042	0.00425	0.09912081	0.007849434	5.767E-07	5.04E-04	3.54E-03	2.70E-03	2.99E-02	2.89E-02	1.15E-01
1648	495211.06	3858801.99	0.00941	0.00422	0.00549	0.00946	0.007	0.02	0.0042	0.00422	0.09818177	0.007794026	5.715E-07	4.98E-04	3.51E-03	2.79E-03	2.97E-02	2.87E-02	1.14E-01
1649	495261.06	3858801.99	0.00935	0.0042	0.00544	0.00939	0.007	0.021	0.0042	0.0042	0.09755574	0.007757088	5.663E-07	4.95E-04	3.50E-03	2.89E-03	2.95E-02	2.86E-02	1.13E-01
1650	495311.06	3858801.99	0.0093	0.00419	0.0054	0.00934	0.007	0.021	0.0042	0.00419	0.09703405	0.007738619	5.622E-07	4.92E-04	3.50E-03	3.00E-03	2.95E-02	2.85E-02	1.13E-01
1651	495361.06	3858801.99	0.00923	0.00417	0.00536	0.00926	0.007	0.022	0.0041	0.00417	0.09630369	0.00770168	5.58E-07	4.88E-04	3.48E-03	3.12E-03	2.93E-02	2.84E-02	1.12E-01
1652	495411.06	3858801.99	0.00921	0.00416	0.00533	0.00924	0.007	0.023	0.0041	0.00416	0.09609501	0.007683211	5.549E-07	4.87E-04	3.49E-03	3.28E-03	2.93E-02	2.83E-02	1.12E-01
1653	495461.06	3858801.99	0.00914	0.00414	0.00528	0.00916	0.007	0.024	0.0041	0.00414	0.09536465	0.007646272	5.497E-07	4.82E-04	3.47E-03	3.44E-03	2.92E-02	2.82E-02	1.11E-01
1654	495511.06	3858801.99	0.00906	0.00411	0.00523	0.00907	0.007	0.026	0.0041	0.00411	0.09452995	0.007590865	5.445E-07	4.78E-04	3.45E-03	3.62E-03	2.90E-02	2.79E-02	1.11E-01
1655	495561.06	3858801.99	0.00898	0.00409	0.00518	0.009	0.007	0.027	0.0041	0.00409	0.09369525	0.007553926	5.393E-07	4.74E-04	3.43E-03	3.84E-03	2.88E-02	2.78E-02	1.10E-01
1656	495611.06	3858801.99	0.00888	0.00406	0.00512	0.0089	0.007	0.029	0.004	0.00406	0.09265187	0.007498518	5.33E-07	4.69E-04	3.40E-03	4.11E-03	2.86E-02	2.76E-02	1.09E-01
1657	495661.06	3858801.99	0.00882	0.00404	0.00508	0.00883	0.007	0.032	0.004	0.00404	0.09202584	0.00746158	5.289E-07	4.65E-04	3.39E-03	4.48E-03	2.86E-02	2.75E-02	1.09E-01
1658	494311.06	3858851.99	0.01162	0.00502	0.00681	0.01178	0.009	0.015	0.005	0.00502	0.1212404	0.009271567	7.09E-07	6.21E-04	4.01E-03	2.14E-03	3.53E-02	3.41E-02	1.38E-01
1659	494361.06	3858851.99	0.01172	0.00508	0.00687	0.01199	0.009	0.016	0.005	0.00508	0.12228378	0.009382382	7.152E-07	6.32E-04	4.15E-03	2.23E-03	3.57E-02	3.45E-02	1.40E-01
1660	494411.06	3858851.99	0.01164	0.00505	0.00681	0.0119	0.009	0.016	0.005	0.00505	0.12144907	0.009326975	7.09E-07	6.27E-04	4.15E-03	2.28E-03	3.55E-02	3.43E-02	1.39E-01
1661	494461.06	3858851.99	0.01158	0.00503	0.00678	0.01186	0.009	0.017	0.005	0.00503	0.12082305	0.009290036	7.058E-07	6.25E-04	4.16E-03	2.35E-03	3.54E-02	3.42E-02	1.38E-01
1662	494511.06	3858851.99	0.01149	0.00503	0.00685	0.01181	0.009	0.017	0.005	0.00503	0.11988401	0.009290036	7.131E-07	6.22E-04	4.17E-03	2.42E-03	3.54E-02	3.42E-02	1.38E-01
1663	494561.06	3858851.99	0.01139	0.00499	0.00678	0.0117	0.009	0.018	0.005	0.00499	0.11884063	0.009216159	7.058E-07	6.16E-04	4.15E-03	2.48E-03	3.51E-02	3.39E-02	1.37E-01
1664	494611.06	3858851.99	0.01127	0.00494	0.00668	0.01154	0.009	0.018	0.0049	0.00494	0.11758858	0.009123813	6.954E-07	6.08E-04	4.11E-03	2.55E-03	3.48E-02	3.36E-02	1.35E-01
1665	494661.06	3858851.99	0.01113	0.00489	0.00658	0.01136	0.009	0.019	0.0049	0.00489	0.11612785	0.009031467	6.85E-07	5.98E-04	4.06E-03	2.61E-03	3.44E-02	3.33E-02	1.34E-01
1666	494711.06	3858851.99	0.01095	0.00481	0.00645	0.01113	0.008	0.019	0.0048	0.00481	0.11424977	0.008883712	6.715E-07	5.86E-04	3.98E-03	2.68E-03	3.39E-02	3.27E-02	1.32E-01
1667	494761.06	3858851.99	0.01077	0.00474	0.00632	0.0109	0.008	0.019	0.0047	0.00474	0.1123717	0.008754428	6.58E-07	5.74E-04	3.90E-03	2.74E-03	3.34E-02	3.22E-02	1.29E-01
1668	494811.06	3858851.99	0.01062	0.00468	0.00621	0.01071	0.008	0.02	0.0047	0.00468	0.11080663	0.008643612	6.465E-07	5.64E-04	3.84E-03	2.77E-03	3.29E-02	3.18E-02	1.28E-01
1669	494861.06	3858851.99	0.01049	0.00463	0.00613	0.01057	0.008	0.02	0.0046	0.00463	0.10945024	0.008551266	6.382E-07	5.57E-04	3.80E-03	2.81E-03	3.27E-02	3.15E-02	1.26E-01
1670	494911.06	3858851.99	0.01034	0.00458	0.00603	0.0104	0.008	0.02	0.0046	0.00458	0.10788517	0.00845892	6.278E-07	5.48E-04	3.74E-03	2.83E-03	3.22E-02	3.11E-02	1.25E-01
1671	494961.06	3858851.99	0.01019	0.00453	0.00594	0.01024	0.008	0.02	0.0045	0.00453	0.10632011	0.008366573	6.184E-07	5.39E-04	3.70E-03	2.87E-03	3.19E-02	3.08E-02	1.23E-01
1672	495011.06	3858851.99	0.01007	0.00448	0.00586	0.01011	0.008	0.021	0.0045	0.00448	0.10506806	0.008274227	6.101E-07	5.33E-04	3.66E-03	2.93E-03	3.16E-02	3.05E-02	1.22E-01
1673	495061.06	3858851.99	0.00993	0.00444	0.00577	0.00996	0.008	0.021	0.0044	0.00444	0.10360733	0.00820035	6.007E-07	5.25E-04	3.61E-03	2.98E-03	3.12E-02	3.02E-02	1.20E-01
1674	495111.06	3858851.99	0.0097	0.00437	0.00565	0.00973	0.008	0.021	0.0043	0.00437	0.10120756	0.008071065	5.882E-07	5.13E-04	3.53E-03	3.01E-03	3.08E-02	2.97E-02	1.17E-01
1675	495161.06	3858851.99	0.00957	0.00432	0.00557	0.0096	0.007	0.022	0.0043	0.00432	0.09985117	0.007978719	5.799E-07	5.06E-04	3.49E-03	3.09E-03	3.04E-02	2.94E-02	1.16E-01
1676	495211.06	3858851.99	0.00953	0.00431	0.00554	0.00956	0.007	0.023	0.0043	0.00431	0.09943382	0.00796025	5.767E-07	5.04E-04	3.49E-03	3.23E-03	3.03E-02	2.93E-02	1.16E-01
1677	495261.06	3858851.99	0.00947	0.00429	0.00549	0.00949	0.007	0.024	0.0043	0.00429	0.09880779	0.007923311	5.715E-07	5.00E-04	3.48E-03	3.35E-03	3.02E-02	2.92E-02	1.15E-01
1678	495311.06	3858851.99	0.00942	0.00428	0.00545	0.00944	0.007	0.025	0.0043	0.00428	0.09828611	0.007904842	5.674E-07	4.97E-04	3.48E-03	3.50E-03	3.01E-02	2.91E-02	1.15E-01

1679	495361.06	3858851.99	0.00937	0.00426	0.00541	0.00937	0.007	0.026	0.0042	0.00426	0.09776442	0.007867903	5.632E-07	4.94E-04	3.48E-03	3.66E-03	3.00E-02	2.90E-02	1.14E-01
1680	495411.06	3858851.99	0.00931	0.00424	0.00536	0.00931	0.007	0.027	0.0042	0.00424	0.09713839	0.007830965	5.58E-07	4.90E-04	3.47E-03	3.84E-03	2.98E-02	2.88E-02	1.14E-01
1681	495461.06	3858851.99	0.00926	0.00422	0.00532	0.00926	0.007	0.029	0.0042	0.00422	0.0966167	0.007794026	5.538E-07	4.88E-04	3.47E-03	4.04E-03	2.98E-02	2.87E-02	1.13E-01
1682	495511.06	3858851.99	0.00921	0.0042	0.00527	0.00917	0.007	0.03	0.0042	0.0042	0.09609501	0.007757088	5.486E-07	4.83E-04	3.45E-03	4.28E-03	2.95E-02	2.86E-02	1.13E-01
1683	495561.06	3858851.99	0.00906	0.00416	0.00521	0.00906	0.007	0.032	0.0041	0.00416	0.09452995	0.007683211	5.424E-07	4.77E-04	3.41E-03	4.52E-03	2.93E-02	2.83E-02	1.12E-01
1684	495611.06	3858851.99	0.00896	0.00413	0.00515	0.00896	0.007	0.035	0.0041	0.00413	0.09348657	0.007627803	5.361E-07	4.72E-04	3.38E-03	4.86E-03	2.91E-02	2.81E-02	1.11E-01
1685	495661.06	3858851.99	0.00891	0.00412	0.00511	0.0089	0.007	0.038	0.0041	0.00412	0.09296488	0.007609334	5.32E-07	4.69E-04	3.37E-03	5.36E-03	2.90E-02	2.80E-02	1.11E-01
1686	494311.06	3858901.99	0.01177	0.00517	0.00697	0.012	0.009	0.016	0.0051	0.00517	0.12280546	0.009548606	7.256E-07	6.32E-04	4.03E-03	2.27E-03	3.63E-02	3.52E-02	1.40E-01
1687	494361.06	3858901.99	0.01181	0.00521	0.00702	0.01215	0.009	0.017	0.0052	0.00521	0.12322282	0.009622483	7.308E-07	6.40E-04	4.14E-03	2.36E-03	3.66E-02	3.54E-02	1.41E-01
1688	494411.06	3858901.99	0.01174	0.0052	0.00697	0.01211	0.009	0.017	0.0052	0.0052	0.12249245	0.009604013	7.256E-07	6.38E-04	4.15E-03	2.43E-03	3.66E-02	3.54E-02	1.41E-01
1689	494461.06	3858901.99	0.01166	0.0052	0.00706	0.01209	0.009	0.018	0.0052	0.0052	0.12165775	0.009604013	7.35E-07	6.37E-04	4.17E-03	2.52E-03	3.66E-02	3.54E-02	1.40E-01
1690	494511.06	3858901.99	0.01158	0.00518	0.007	0.01202	0.009	0.019	0.0051	0.00518	0.12082305	0.009567075	7.287E-07	6.33E-04	4.17E-03	2.61E-03	3.64E-02	3.52E-02	1.39E-01
1691	494561.06	3858901.99	0.01146	0.00512	0.00689	0.01186	0.009	0.019	0.0051	0.00512	0.119571	0.009456259	7.173E-07	6.25E-04	4.13E-03	2.70E-03	3.61E-02	3.48E-02	1.38E-01
1692	494611.06	3858901.99	0.0113	0.00504	0.00675	0.01161	0.009	0.02	0.005	0.00504	0.11790159	0.009308505	7.027E-07	6.12E-04	4.05E-03	2.78E-03	3.55E-02	3.43E-02	1.36E-01
1693	494661.06	3858901.99	0.01118	0.00499	0.00665	0.01146	0.009	0.021	0.005	0.00499	0.11664954	0.009216159	6.923E-07	6.04E-04	4.01E-03	2.89E-03	3.51E-02	3.39E-02	1.35E-01
1694	494711.06	3858901.99	0.01102	0.00492	0.00652	0.01123	0.008	0.021	0.0049	0.00492	0.11498014	0.009086874	6.788E-07	5.92E-04	3.94E-03	3.00E-03	3.46E-02	3.35E-02	1.33E-01
1695	494761.06	3858901.99	0.01084	0.00484	0.00639	0.01099	0.008	0.022	0.0048	0.00484	0.11310206	0.00893912	6.652E-07	5.79E-04	3.85E-03	3.10E-03	3.41E-02	3.29E-02	1.31E-01
1696	494811.06	3858901.99	0.0107	0.00479	0.00629	0.01082	0.008	0.023	0.0048	0.00479	0.11164133	0.008846774	6.548E-07	5.70E-04	3.81E-03	3.20E-03	3.37E-02	3.26E-02	1.29E-01
1697	494861.06	3858901.99	0.01059	0.00474	0.0062	0.01069	0.008	0.023	0.0047	0.00474	0.11049362	0.008754428	6.455E-07	5.63E-04	3.77E-03	3.26E-03	3.34E-02	3.22E-02	1.28E-01
1698	494911.06	3858901.99	0.01039	0.00466	0.00607	0.01046	0.008	0.023	0.0046	0.00466	0.10840686	0.008606674	6.319E-07	5.51E-04	3.69E-03	3.27E-03	3.29E-02	3.17E-02	1.26E-01
1699	494961.06	3858901.99	0.01026	0.00462	0.00598	0.01031	0.008	0.024	0.0046	0.00462	0.10705047	0.008532797	6.226E-07	5.43E-04	3.65E-03	3.35E-03	3.25E-02	3.14E-02	1.24E-01
1700	495011.06	3858901.99	0.01014	0.00457	0.0059	0.01017	0.008	0.024	0.0045	0.00457	0.10579842	0.00844045	6.142E-07	5.36E-04	3.61E-03	3.44E-03	3.22E-02	3.11E-02	1.23E-01
1701	495061.06	3858901.99	0.00997	0.00451	0.00579	0.00999	0.008	0.025	0.0045	0.00451	0.10402468	0.008329635	6.028E-07	5.26E-04	3.55E-03	3.51E-03	3.17E-02	3.07E-02	1.21E-01
1702	495111.06	3858901.99	0.00975	0.00444	0.00567	0.00976	0.007	0.025	0.0044	0.00444	0.10172925	0.00820035	5.903E-07	5.14E-04	3.47E-03	3.58E-03	3.12E-02	3.02E-02	1.19E-01
1703	495161.06	3858901.99	0.00965	0.0044	0.0056	0.00966	0.007	0.026	0.0044	0.0044	0.10068587	0.008126473	5.83E-07	5.09E-04	3.45E-03	3.72E-03	3.10E-02	2.99E-02	1.18E-01
1704	495211.06	3858901.99	0.00964	0.0044	0.00558	0.00965	0.007	0.028	0.0044	0.0044	0.10058154	0.008126473	5.809E-07	5.08E-04	3.47E-03	3.92E-03	3.10E-02	2.99E-02	1.18E-01
1705	495261.06	3858901.99	0.00959	0.00438	0.00553	0.0096	0.007	0.029	0.0044	0.00438	0.10005985	0.008089534	5.757E-07	5.06E-04	3.47E-03	4.10E-03	3.09E-02	2.98E-02	1.17E-01
1706	495311.06	3858901.99	0.00952	0.00436	0.00548	0.00952	0.007	0.03	0.0043	0.00436	0.09932948	0.008052596	5.705E-07	5.01E-04	3.46E-03	4.28E-03	3.07E-02	2.96E-02	1.17E-01
1707	495361.06	3858901.99	0.00946	0.00434	0.00544	0.00946	0.007	0.032	0.0043	0.00434	0.09870346	0.008015657	5.663E-07	4.98E-04	3.45E-03	4.48E-03	3.06E-02	2.95E-02	1.16E-01
1708	495411.06	3858901.99	0.00942	0.00433	0.0054	0.00942	0.007	0.034	0.0043	0.00433	0.09828611	0.007997188	5.622E-07	4.96E-04	3.46E-03	4.72E-03	3.05E-02	2.94E-02	1.16E-01
1709	495461.06	3858901.99	0.00934	0.0043	0.00535	0.00934	0.007	0.035	0.0043	0.0043	0.0974514	0.00794178	5.57E-07	4.92E-04	3.44E-03	4.95E-03	3.03E-02	2.92E-02	1.15E-01
1710	495511.06	3858901.99	0.00924	0.00427	0.00529	0.00924	0.007	0.037	0.0043	0.00427	0.09640803	0.007886373	5.507E-07	4.87E-04	3.42E-03	5.21E-03	3.01E-02	2.90E-02	1.14E-01
1711	495561.06	3858901.99	0.00916	0.00424	0.00523	0.00915	0.007	0.039	0.0042	0.00424	0.09557333	0.007830965	5.445E-07	4.82E-04	3.39E-03	5.55E-03	2.99E-02	2.88E-02	1.14E-01
1712	495611.06	3858901.99	0.00906	0.00421	0.00517	0.00904	0.007	0.043	0.0042	0.00421	0.09452995	0.007775557	5.382E-07	4.76E-04	3.37E-03	5.98E-03	2.97E-02	2.86E-02	1.13E-01
1713	495661.06	3858901.99	0.00901	0.0042	0.00514	0.00899	0.007	0.047	0.0042	0.0042	0.09400826	0.007757088	5.351E-07	4.74E-04	3.37E-03	6.67E-03	2.96E-02	2.86E-02	1.13E-01
1714	494311.06	3858951.99	0.01194	0.00538	0.0072	0.01236	0.009	0.017	0.0053	0.00538	0.12457921	0.00993646	7.496E-07	6.51E-04	4.11E-03	2.41E-03	3.78E-02	3.66E-02	1.43E-01
1715	494361.06	3858951.99	0.01189	0.00538	0.00718	0.01239	0.009	0.018	0.0053	0.00538	0.12405752	0.00993646	7.475E-07	6.53E-04	4.15E-03	2.50E-03	3.78E-02	3.66E-02	1.42E-01
1716	494411.06	3858951.99	0.01178	0.00533	0.00708	0.01226	0.009	0.018	0.0053	0.00533	0.1229098	0.009844114	7.371E-07	6.46E-04	4.13E-03	2.59E-03	3.75E-02	3.62E-02	1.41E-01
1717	494461.06	3858951.99	0.0117	0.00534	0.00716	0.01225	0.009	0.019	0.0053	0.00534	0.1220751	0.009862583	7.454E-07	6.45E-04	4.15E-03	2.70E-03	3.75E-02	3.63E-02	1.41E-01
1718	494511.06	3858951.99	0.01161	0.0053	0.00708	0.01214	0.009	0.02	0.0053	0.0053	0.12113606	0.009788706	7.371E-07	6.39E-04	4.14E-03	2.82E-03	3.73E-02	3.60E-02	1.40E-01
1719	494561.06	3858951.99	0.01149	0.00524	0.00697	0.01198	0.009	0.021	0.0052	0.00524	0.11988401	0.009677891	7.256E-07	6.31E-04	4.09E-03	2.94E-03	3.68E-02	3.56E-02	1.38E-01
1720	494611.06	3858951.99	0.01135	0.00517	0.00684	0.01176	0.009	0.022	0.0051	0.00517	0.11842328	0.009548606	7.121E-07	6.19E-04	4.03E-03	3.09E-03	3.64E-02	3.52E-02	1.37E-01
1721	494661.06	3858951.99	0.01122	0.00511	0.00672	0.01156	0.008	0.023	0.0051	0.00511	0.11706689	0.00943779	6.996E-07	6.09E-04	3.97E-03	3.25E-03	3.59E-02	3.47E-02	1.36E-01
1722	494711.06	3858951.99	0.01105	0.00502	0.00656	0.0113	0.008	0.024	0.005	0.00502	0.11529315	0.009271567	6.829E-07	5.95E-04	3.88E-03	3.42E-03	3.54E-02	3.41E-02	1.34E-01
1723	494761.06	3858951.99	0.0109	0.00495	0.00645	0.0111	0.008	0.026	0.0049	0.00495	0.11372809	0.009142282	6.715E-07	5.85E-04	3.82E-03	3.63E-03	3.49E-02	3.37E-02	1.32E-01
1724	494811.06	3858951.99	0.01078	0.0049	0.00635	0.01095	0.008	0.027	0.0049	0.0049	0.11247603	0.009049936	6.611E-07	5.77E-04	3.78E-03	3.82E-03	3.45E-02	3.33E-02	1.31E-01
1725	494861.06	3858951.99	0.01066	0.00485	0.00626	0.0108	0.008	0.028	0.0048	0.00485	0.11122398	0.00895759	6.517E-07	5.69E-04	3.75E-03	3.94E-03	3.42E-02	3.30E-02	1.30E-01
1726	494911.06	3858951.99	0.01051	0.00479	0.00614	0.01061	0.008	0.029	0.0048	0.00479	0.10965892	0.008846774	6.392E-07	5.59E-04	3.69E-03	4.04E-03	3.37E-02	3.26E-02	1.28E-01
1727	494961.06	3858951.99	0.0104	0.00475	0.00606	0.01049	0.008	0.03	0.0047	0.00475	0.1085112	0.008772897	6.309E-07	5.53E-04	3.66E-03	4.22E-03	3.34E-02	3.23E-02	1.27E-01
1728	495011.06	3858951.99	0.01018	0.00466	0.00592	0.01022	0.008	0.03	0.0046	0.00466	0.10621577	0.008606674	6.163E-07	5.38E-04	3.56E-03	4.27E-03	3.28E-02	3.17E-02	1.24E-01
1729	495061.06	3858951.99	0.00997	0.00457	0.00578	0.00998	0.007	0.031	0.0046	0.00457	0.10402468	0.00844045	6.017E-07	5.26E-04	3.47E-03	4.39E-03	3.22E-02	3.11E-02	1.22E-01
1730	495111.06	3858951.99	0.00978	0.00451	0.00568	0.00979	0.007	0.032	0.0045	0.00451	0.10204226	0.008329635	5.913E-07	5.16E-04	3.40E-03	4.53E-03	3.17E-02	3.07E-02	1.20E-01
1731	495161.06	3858951.99	0.0098	0.00451	0.00566	0.00981	0.007	0.034	0.0045	0.00451	0.10225094	0.008329635	5.892E-07	5.17E-04	3.44E-03	4.85E-03	3.18E-02	3.07E-02	1.21E-01
1732	495211.06	3858951.99	0.00974	0.0045	0.00562	0.00975	0.007	0.036	0.0045	0.0045	0.10162491	0.008311166	5.851E-07	5.14E-04	3.45E-03	5.12E-03	3.17E-02	3.06E-02	1.20E-01
1733	495261.06	3858951.99	0.00969	0.00448	0.00557	0.0097	0.007	0.038	0.0045	0.00448	0.10110322	0.008274227	5.799E-07	5.11E-04	3.45E-03	5.39E-03	3.15E-02	3.05E-02	1.20E-01
1734	495311.06	3858951.99	0.00958	0.00444	0.0055	0.00959	0.007	0.04	0.0044	0.00444	0.09995551	0.00820035	5.726E-07	5.05E-04	3.42E-03	5.59E-03	3.13E-02	3.02E-02	1.19E-01
1735	495361.06	3858951.99	0.00953	0.00442	0.00546	0.00954	0.007	0.042	0.0044	0.00442	0.09943382	0.008163411	5.684E-07	5.03E-04	3.42E-03	5.87E-03	3.12E-02	3.01E-02	1.19E-01
1736	495411.06	3858951.99	0.00949	0.00441	0.00543	0.00951	0.007	0.044	0.0044	0.00441	0.09901647	0.008144942	5.653E-07	5.01E-04	3.43E-03	6.18E-03	3.11E-02	3.00E-02	1.18E-01

1737	495461.06	3858951.99	0.00942	0.00439	0.00538	0.00943	0.007	0.046	0.0044	0.00439	0.09828611	0.008108004	5.601E-07	4.97E-04	3.42E-03	6.46E-03	3.10E-02	2.99E-02	1.18E-01
1738	495511.06	3858951.99	0.00937	0.00438	0.00534	0.00938	0.007	0.049	0.0044	0.00438	0.09776442	0.008089534	5.559E-07	4.94E-04	3.42E-03	6.84E-03	3.09E-02	2.98E-02	1.18E-01
1739	495561.06	3858951.99	0.00924	0.00433	0.00526	0.00924	0.007	0.051	0.0043	0.00433	0.09640803	0.007997188	5.476E-07	4.87E-04	3.38E-03	7.18E-03	3.05E-02	2.94E-02	1.17E-01
1740	495611.06	3858951.99	0.00915	0.0043	0.0052	0.00914	0.007	0.055	0.0043	0.0043	0.09546899	0.00794178	5.414E-07	4.81E-04	3.35E-03	7.76E-03	3.03E-02	2.92E-02	1.16E-01
1741	495661.06	3858951.99	0.0091	0.00428	0.00516	0.0091	0.007	0.062	0.0043	0.00428	0.0949473	0.007904842	5.372E-07	4.79E-04	3.36E-03	8.76E-03	3.03E-02	2.91E-02	1.17E-01
1742	494311.06	3859001.99	0.01201	0.00555	0.00736	0.01264	0.009	0.018	0.0055	0.00555	0.12530957	0.010250437	7.662E-07	6.66E-04	4.13E-03	2.55E-03	3.90E-02	3.77E-02	1.44E-01
1743	494361.06	3859001.99	0.01192	0.00552	0.00729	0.01257	0.009	0.019	0.0055	0.00552	0.12437053	0.01019503	7.589E-07	6.62E-04	4.13E-03	2.64E-03	3.88E-02	3.75E-02	1.43E-01
1744	494411.06	3859001.99	0.01182	0.00552	0.00734	0.01251	0.009	0.02	0.0055	0.00552	0.12332715	0.01019503	7.641E-07	6.59E-04	4.14E-03	2.76E-03	3.87E-02	3.75E-02	1.42E-01
1745	494461.06	3859001.99	0.01173	0.00548	0.00725	0.01241	0.009	0.021	0.0054	0.00548	0.12238811	0.010121153	7.548E-07	6.54E-04	4.13E-03	2.89E-03	3.85E-02	3.73E-02	1.41E-01
1746	494511.06	3859001.99	0.01163	0.00544	0.00716	0.01229	0.009	0.022	0.0054	0.00544	0.12134474	0.010047276	7.454E-07	6.47E-04	4.11E-03	3.04E-03	3.82E-02	3.70E-02	1.40E-01
1747	494561.06	3859001.99	0.0115	0.00537	0.00703	0.01208	0.009	0.023	0.0053	0.00537	0.11998835	0.009917991	7.319E-07	6.36E-04	4.05E-03	3.22E-03	3.77E-02	3.65E-02	1.39E-01
1748	494611.06	3859001.99	0.01137	0.0053	0.0069	0.01188	0.009	0.025	0.0053	0.0053	0.11863196	0.009788706	7.183E-07	6.26E-04	4.00E-03	3.45E-03	3.73E-02	3.60E-02	1.38E-01
1749	494661.06	3859001.99	0.01123	0.00522	0.00676	0.01165	0.008	0.026	0.0052	0.00522	0.11717123	0.009640952	7.038E-07	6.14E-04	3.92E-03	3.72E-03	3.67E-02	3.55E-02	1.36E-01
1750	494711.06	3859001.99	0.01107	0.00513	0.00661	0.01139	0.008	0.029	0.0051	0.00513	0.11550183	0.009474729	6.881E-07	6.00E-04	3.84E-03	4.03E-03	3.61E-02	3.49E-02	1.35E-01
1751	494761.06	3859001.99	0.01095	0.00507	0.0065	0.01122	0.008	0.031	0.005	0.00507	0.11424977	0.009363913	6.767E-07	5.91E-04	3.79E-03	4.41E-03	3.57E-02	3.45E-02	1.34E-01
1752	494811.06	3859001.99	0.01084	0.00503	0.00642	0.01109	0.008	0.034	0.005	0.00503	0.11310206	0.009290036	6.684E-07	5.84E-04	3.77E-03	4.84E-03	3.54E-02	3.42E-02	1.33E-01
1753	494861.06	3859001.99	0.01071	0.00497	0.0063	0.01091	0.008	0.036	0.0049	0.00497	0.11174567	0.009179221	6.559E-07	5.75E-04	3.72E-03	5.09E-03	3.49E-02	3.38E-02	1.31E-01
1754	494911.06	3859001.99	0.01057	0.0049	0.00619	0.01073	0.008	0.038	0.0049	0.0049	0.11028494	0.009049936	6.444E-07	5.65E-04	3.66E-03	5.35E-03	3.45E-02	3.33E-02	1.30E-01
1755	494961.06	3859001.99	0.01043	0.00484	0.00608	0.01054	0.008	0.04	0.0048	0.00484	0.10882421	0.00893912	6.33E-07	5.55E-04	3.61E-03	5.67E-03	3.41E-02	3.29E-02	1.29E-01
1756	495011.06	3859001.99	0.01012	0.0047	0.00587	0.01014	0.007	0.041	0.0047	0.0047	0.10558974	0.008680551	6.111E-07	5.34E-04	3.45E-03	5.74E-03	3.31E-02	3.20E-02	1.25E-01
1757	495061.06	3859001.99	0.01001	0.00466	0.0058	0.01003	0.007	0.044	0.0046	0.00466	0.10444203	0.008606674	6.038E-07	5.28E-04	3.42E-03	6.13E-03	3.29E-02	3.17E-02	1.24E-01
1758	495111.06	3859001.99	0.00984	0.00459	0.00569	0.00985	0.007	0.046	0.0046	0.00459	0.10266829	0.008477389	5.924E-07	5.19E-04	3.36E-03	6.40E-03	3.24E-02	3.12E-02	1.23E-01
1759	495161.06	3859001.99	0.00988	0.00461	0.0057	0.00991	0.007	0.05	0.0046	0.00461	0.10308564	0.008514327	5.934E-07	5.22E-04	3.42E-03	7.05E-03	3.25E-02	3.13E-02	1.24E-01
1760	495211.06	3859001.99	0.00981	0.00459	0.00564	0.00983	0.007	0.053	0.0046	0.00459	0.10235528	0.008477389	5.872E-07	5.18E-04	3.41E-03	7.45E-03	3.24E-02	3.12E-02	1.23E-01
1761	495261.06	3859001.99	0.00976	0.00457	0.0056	0.00978	0.007	0.056	0.0046	0.00457	0.10183359	0.00844045	5.83E-07	5.15E-04	3.42E-03	7.88E-03	3.22E-02	3.11E-02	1.23E-01
1762	495311.06	3859001.99	0.00968	0.00454	0.00554	0.0097	0.007	0.058	0.0045	0.00454	0.10099889	0.008385043	5.767E-07	5.11E-04	3.41E-03	8.20E-03	3.20E-02	3.09E-02	1.23E-01
1763	495361.06	3859001.99	0.00962	0.00453	0.0055	0.00966	0.007	0.061	0.0045	0.00453	0.10037286	0.008366573	5.726E-07	5.09E-04	3.41E-03	8.57E-03	3.20E-02	3.08E-02	1.22E-01
1764	495411.06	3859001.99	0.00956	0.00451	0.00545	0.00959	0.007	0.063	0.0045	0.00451	0.09974683	0.008329635	5.674E-07	5.05E-04	3.41E-03	8.90E-03	3.18E-02	3.07E-02	1.22E-01
1765	495461.06	3859001.99	0.0095	0.00449	0.00541	0.00954	0.007	0.066	0.0045	0.00449	0.09912081	0.008292696	5.632E-07	5.03E-04	3.40E-03	9.27E-03	3.17E-02	3.05E-02	1.22E-01
1766	495511.06	3859001.99	0.00939	0.00445	0.00534	0.00941	0.007	0.068	0.0044	0.00445	0.09797309	0.008218819	5.559E-07	4.96E-04	3.37E-03	9.55E-03	3.14E-02	3.03E-02	1.21E-01
1767	495561.06	3859001.99	0.00931	0.00442	0.00528	0.00933	0.007	0.071	0.0044	0.00442	0.09713839	0.008163411	5.497E-07	4.91E-04	3.36E-03	1.00E-02	3.12E-02	3.01E-02	1.20E-01
1768	495611.06	3859001.99	0.00922	0.00439	0.00522	0.00923	0.007	0.077	0.0044	0.00439	0.09619935	0.008108004	5.434E-07	4.86E-04	3.34E-03	1.08E-02	3.10E-02	2.99E-02	1.20E-01
1769	495661.06	3859001.99	0.00921	0.00438	0.0052	0.00923	0.007	0.088	0.0044	0.00438	0.09609501	0.008089534	5.414E-07	4.86E-04	3.36E-03	1.24E-02	3.10E-02	2.98E-02	1.22E-01
1770	494311.06	3859051.99	0.01203	0.00572	0.00747	0.01287	0.009	0.019	0.0057	0.00572	0.12551824	0.010564415	7.777E-07	6.78E-04	4.12E-03	2.68E-03	4.00E-02	3.89E-02	1.45E-01
1771	494361.06	3859051.99	0.01193	0.00573	0.00753	0.01284	0.009	0.02	0.0057	0.00573	0.12447487	0.010582884	7.839E-07	6.76E-04	4.13E-03	2.80E-03	4.01E-02	3.90E-02	1.44E-01
1772	494411.06	3859051.99	0.01183	0.00567	0.00742	0.0127	0.009	0.021	0.0056	0.00567	0.12343149	0.010472069	7.725E-07	6.69E-04	4.11E-03	2.91E-03	3.97E-02	3.86E-02	1.43E-01
1773	494461.06	3859051.99	0.01172	0.00562	0.00731	0.01254	0.009	0.022	0.0056	0.00562	0.12228378	0.010379722	7.61E-07	6.61E-04	4.08E-03	3.06E-03	3.94E-02	3.82E-02	1.42E-01
1774	494511.06	3859051.99	0.0116	0.00555	0.00718	0.01235	0.009	0.023	0.0055	0.00555	0.12103172	0.010250437	7.475E-07	6.51E-04	4.03E-03	3.25E-03	3.89E-02	3.77E-02	1.40E-01
1775	494561.06	3859051.99	0.01149	0.00549	0.00706	0.01218	0.009	0.025	0.0054	0.00549	0.11988401	0.010139622	7.35E-07	6.42E-04	4.00E-03	3.50E-03	3.85E-02	3.73E-02	1.39E-01
1776	494611.06	3859051.99	0.01137	0.00542	0.00693	0.01197	0.008	0.027	0.0054	0.00542	0.11863196	0.010010337	7.215E-07	6.31E-04	3.94E-03	3.84E-03	3.80E-02	3.69E-02	1.38E-01
1777	494661.06	3859051.99	0.01124	0.00534	0.0068	0.01176	0.008	0.031	0.0053	0.00534	0.11727557	0.009862583	7.079E-07	6.19E-04	3.88E-03	4.30E-03	3.76E-02	3.63E-02	1.37E-01
1778	494711.06	3859051.99	0.01111	0.00527	0.00667	0.01155	0.008	0.035	0.0052	0.00527	0.11591918	0.009733298	6.944E-07	6.08E-04	3.83E-03	4.92E-03	3.71E-02	3.58E-02	1.36E-01
1779	494761.06	3859051.99	0.01097	0.0052	0.00654	0.01135	0.008	0.041	0.0052	0.0052	0.11445845	0.009604013	6.809E-07	5.98E-04	3.77E-03	5.72E-03	3.66E-02	3.54E-02	1.35E-01
1780	494811.06	3859051.99	0.01086	0.00514	0.00644	0.01119	0.008	0.048	0.0051	0.00514	0.11331073	0.009493198	6.704E-07	5.89E-04	3.73E-03	6.68E-03	3.61E-02	3.50E-02	1.35E-01
1781	494861.06	3859051.99	0.01074	0.00508	0.00634	0.01103	0.008	0.053	0.0051	0.00508	0.11205868	0.009382382	6.6E-07	5.81E-04	3.69E-03	7.44E-03	3.58E-02	3.45E-02	1.34E-01
1782	494911.06	3859051.99	0.01059	0.00501	0.00621	0.01081	0.008	0.058	0.005	0.00501	0.11049362	0.009253098	6.465E-07	5.69E-04	3.62E-03	8.15E-03	3.52E-02	3.41E-02	1.33E-01
1783	494961.06	3859051.99	0.01039	0.0049	0.00605	0.01051	0.008	0.064	0.0049	0.0049	0.10840686	0.009049936	6.298E-07	5.54E-04	3.52E-03	8.94E-03	3.45E-02	3.33E-02	1.32E-01
1784	495011.06	3859051.99	0.01022	0.00483	0.00592	0.01029	0.007	0.069	0.0048	0.00483	0.10663312	0.008920651	6.163E-07	5.42E-04	3.45E-03	9.77E-03	3.40E-02	3.28E-02	1.30E-01
1785	495061.06	3859051.99	0.01008	0.00477	0.00582	0.01013	0.007	0.075	0.0047	0.00477	0.10517239	0.008809835	6.059E-07	5.34E-04	3.40E-03	1.06E-02	3.36E-02	3.24E-02	1.30E-01
1786	495111.06	3859051.99	0.00998	0.00473	0.00575	0.01003	0.007	0.081	0.0047	0.00473	0.10412902	0.008735958	5.986E-07	5.28E-04	3.38E-03	1.13E-02	3.33E-02	3.22E-02	1.29E-01
1787	495161.06	3859051.99	0.00997	0.00473	0.00573	0.01003	0.007	0.089	0.0047	0.00473	0.10402468	0.008735958	5.965E-07	5.28E-04	3.41E-03	1.25E-02	3.33E-02	3.22E-02	1.30E-01
1788	495211.06	3859051.99	0.00986	0.00469	0.00566	0.00992	0.007	0.092	0.0047	0.00469	0.10287696	0.008662081	5.892E-07	5.23E-04	3.39E-03	1.29E-02	3.30E-02	3.19E-02	1.30E-01
1789	495261.06	3859051.99	0.00982	0.00468	0.00563	0.00989	0.007	0.098	0.0047	0.00468	0.10245961	0.008643612	5.861E-07	5.21E-04	3.40E-03	1.38E-02	3.29E-02	3.18E-02	1.30E-01
1790	495311.06	3859051.99	0.00974	0.00465	0.00557	0.0098	0.007	0.1	0.0046	0.00465	0.10162491	0.008588204	5.799E-07	5.16E-04	3.39E-03	1.41E-02	3.27E-02	3.16E-02	1.29E-01
1791	495361.06	3859051.99	0.00967	0.00462	0.00552	0.00974	0.007	0.104	0.0046	0.00462	0.10089455	0.008532797	5.747E-07	5.13E-04	3.39E-03	1.46E-02	3.26E-02	3.14E-02	1.29E-01
1792	495411.06	3859051.99	0.00962	0.00461	0.00548	0.0097	0.007	0.108	0.0046	0.00461	0.10037286	0.008514327	5.705E-07	5.11E-04	3.39E-03	1.52E-02	3.25E-02	3.13E-02	1.29E-01
1793	495461.06	3859051.99	0.00957	0.00459	0.00544	0.00966	0.007	0.111	0.0046	0.00459	0.09985117	0.008477389	5.663E-07	5.09E-04	3.40E-03	1.57E-02	3.24E-02	3.12E-02	1.29E-01
1794	495511.06	3859051.99	0.00946	0.00455	0.00537	0.00953	0.007	0.112	0.0045	0.00455	0.09870346	0.008403512	5.59E-07	5.02E-04	3.36E-03	1.57E-02	3.21E-02	3.09E-02	1.28E-01

1795	495561.06	3859051.99	0.00937	0.00451	0.0053	0.00942	0.007	0.115	0.0045	0.00451	0.09776442	0.008329635	5.518E-07	4.96E-04	3.34E-03	1.61E-02	3.18E-02	3.07E-02	1.27E-01
1796	495611.06	3859051.99	0.00928	0.00448	0.00524	0.00933	0.007	0.121	0.0045	0.00448	0.09682538	0.008274227	5.455E-07	4.91E-04	3.32E-03	1.70E-02	3.16E-02	3.05E-02	1.27E-01
1797	495661.06	3859051.99	0.00925	0.00447	0.00522	0.00931	0.007	0.14	0.0045	0.00447	0.09651237	0.008255758	5.434E-07	4.90E-04	3.34E-03	1.97E-02	3.16E-02	3.04E-02	1.29E-01
1798	494311.06	3859101.99	0.01201	0.00593	0.00769	0.01314	0.009	0.02	0.0059	0.00593	0.12530957	0.010952269	8.006E-07	6.92E-04	4.10E-03	2.82E-03	4.14E-02	4.03E-02	1.45E-01
1799	494361.06	3859101.99	0.01191	0.00588	0.00758	0.01301	0.009	0.021	0.0058	0.00588	0.12426619	0.010859923	7.891E-07	6.85E-04	4.08E-03	2.94E-03	4.11E-02	4.00E-02	1.44E-01
1800	494411.06	3859101.99	0.01181	0.00584	0.00749	0.01289	0.009	0.022	0.0058	0.00584	0.12322282	0.010786046	7.798E-07	6.79E-04	4.07E-03	3.07E-03	4.08E-02	3.97E-02	1.43E-01
1801	494461.06	3859101.99	0.0117	0.00577	0.00737	0.01272	0.009	0.023	0.0057	0.00577	0.1220751	0.010656761	7.673E-07	6.70E-04	4.04E-03	3.24E-03	4.04E-02	3.92E-02	1.42E-01
1802	494511.06	3859101.99	0.01158	0.00569	0.00722	0.01249	0.009	0.025	0.0056	0.00569	0.12082305	0.010509007	7.516E-07	6.58E-04	3.99E-03	3.46E-03	3.99E-02	3.87E-02	1.41E-01
1803	494561.06	3859101.99	0.01147	0.00562	0.0071	0.01231	0.008	0.027	0.0056	0.00562	0.11967533	0.010379722	7.392E-07	6.48E-04	3.95E-03	3.77E-03	3.94E-02	3.82E-02	1.40E-01
1804	494611.06	3859101.99	0.01134	0.00553	0.00694	0.01205	0.008	0.03	0.0055	0.00553	0.11831894	0.010213499	7.225E-07	6.35E-04	3.89E-03	4.21E-03	3.88E-02	3.76E-02	1.38E-01
1805	494661.06	3859101.99	0.01123	0.00547	0.00683	0.01188	0.008	0.035	0.0054	0.00547	0.11717123	0.010102683	7.11E-07	6.26E-04	3.85E-03	4.90E-03	3.84E-02	3.72E-02	1.38E-01
1806	494711.06	3859101.99	0.01108	0.00537	0.00667	0.01161	0.008	0.043	0.0053	0.00537	0.11560616	0.009917991	6.944E-07	6.12E-04	3.77E-03	5.98E-03	3.78E-02	3.65E-02	1.37E-01
1807	494761.06	3859101.99	0.01099	0.00533	0.00659	0.0115	0.008	0.056	0.0053	0.00533	0.11466712	0.009844114	6.861E-07	6.06E-04	3.76E-03	7.89E-03	3.75E-02	3.62E-02	1.38E-01
1808	494811.06	3859101.99	0.01087	0.00526	0.00647	0.01131	0.008	0.078	0.0052	0.00526	0.11341507	0.009714829	6.736E-07	5.96E-04	3.70E-03	1.10E-02	3.70E-02	3.58E-02	1.40E-01
1809	494861.06	3859101.99	0.01075	0.0052	0.00637	0.01114	0.008	0.102	0.0052	0.0052	0.11216302	0.009604013	6.632E-07	5.87E-04	3.66E-03	1.43E-02	3.66E-02	3.54E-02	1.42E-01
1810	494911.06	3859101.99	0.01061	0.00512	0.00622	0.01091	0.008	0.126	0.0051	0.00512	0.11070229	0.009456259	6.475E-07	5.75E-04	3.59E-03	1.77E-02	3.61E-02	3.48E-02	1.43E-01
1811	494961.06	3859101.99	0.01041	0.00501	0.00606	0.0106	0.007	0.15	0.005	0.00501	0.10861554	0.009253098	6.309E-07	5.58E-04	3.48E-03	2.11E-02	3.53E-02	3.41E-02	1.44E-01
1812	495011.06	3859101.99	0.01019	0.0049	0.00589	0.01028	0.007	0.163	0.0049	0.0049	0.10632011	0.009049936	6.132E-07	5.41E-04	3.37E-03	2.29E-02	3.45E-02	3.33E-02	1.43E-01
1813	495061.06	3859101.99	0.01014	0.00488	0.00584	0.01023	0.007	0.186	0.0049	0.00488	0.10579842	0.009012997	6.08E-07	5.39E-04	3.38E-03	2.61E-02	3.44E-02	3.32E-02	1.46E-01
1814	495111.06	3859101.99	0.01003	0.00484	0.00577	0.01012	0.007	0.196	0.0048	0.00484	0.10465071	0.00893912	6.007E-07	5.33E-04	3.35E-03	2.76E-02	3.41E-02	3.29E-02	1.46E-01
1815	495161.06	3859101.99	0.01001	0.00483	0.00575	0.01012	0.007	0.211	0.0048	0.00483	0.10444203	0.008920651	5.986E-07	5.33E-04	3.39E-03	2.97E-02	3.41E-02	3.28E-02	1.48E-01
1816	495211.06	3859101.99	0.00991	0.00479	0.00568	0.01001	0.007	0.216	0.0048	0.00479	0.10339865	0.008846774	5.913E-07	5.27E-04	3.37E-03	3.04E-02	3.38E-02	3.26E-02	1.48E-01
1817	495261.06	3859101.99	0.00986	0.00478	0.00564	0.00997	0.007	0.224	0.0048	0.00478	0.10287696	0.008828305	5.872E-07	5.25E-04	3.38E-03	3.16E-02	3.37E-02	3.25E-02	1.48E-01
1818	495311.06	3859101.99	0.0098	0.00474	0.00558	0.00989	0.007	0.233	0.0047	0.00474	0.10225094	0.008754428	5.809E-07	5.21E-04	3.37E-03	3.28E-02	3.34E-02	3.22E-02	1.49E-01
1819	495361.06	3859101.99	0.00974	0.00474	0.00555	0.00987	0.007	0.238	0.0047	0.00474	0.10162491	0.008754428	5.778E-07	5.20E-04	3.38E-03	3.34E-02	3.34E-02	3.22E-02	1.49E-01
1820	495411.06	3859101.99	0.00967	0.00472	0.00551	0.00982	0.007	0.242	0.0047	0.00472	0.10089455	0.008717489	5.736E-07	5.17E-04	3.38E-03	3.41E-02	3.32E-02	3.21E-02	1.49E-01
1821	495461.06	3859101.99	0.00961	0.00467	0.00543	0.00971	0.007	0.248	0.0047	0.00467	0.10026852	0.008625143	5.653E-07	5.11E-04	3.36E-03	3.49E-02	3.29E-02	3.18E-02	1.49E-01
1822	495511.06	3859101.99	0.00953	0.00464	0.00538	0.00964	0.007	0.253	0.0046	0.00464	0.09943382	0.008569735	5.601E-07	5.08E-04	3.35E-03	3.56E-02	3.27E-02	3.16E-02	1.49E-01
1823	495561.06	3859101.99	0.00943	0.00462	0.00533	0.00955	0.007	0.253	0.0046	0.00462	0.09839044	0.008532797	5.549E-07	5.03E-04	3.33E-03	3.56E-02	3.26E-02	3.14E-02	1.48E-01
1824	495611.06	3859101.99	0.00933	0.00458	0.00526	0.00944	0.007	0.258	0.0046	0.00458	0.09734707	0.00845892	5.476E-07	4.97E-04	3.31E-03	3.63E-02	3.23E-02	3.11E-02	1.47E-01
1825	495661.06	3859101.99	0.00928	0.00457	0.00523	0.00939	0.007	0.281	0.0046	0.00457	0.09682538	0.00844045	5.445E-07	4.95E-04	3.32E-03	3.96E-02	3.22E-02	3.11E-02	1.50E-01
1826	494311.06	3859151.99	0.01198	0.0061	0.00774	0.01334	0.009	0.021	0.006	0.0061	0.12499656	0.011266247	8.058E-07	7.03E-04	4.05E-03	2.98E-03	4.26E-02	4.15E-02	1.45E-01
1827	494361.06	3859151.99	0.01188	0.00606	0.00765	0.01324	0.009	0.022	0.006	0.00606	0.12395318	0.01119237	7.964E-07	6.97E-04	4.05E-03	3.11E-03	4.23E-02	4.12E-02	1.44E-01
1828	494411.06	3859151.99	0.01177	0.00599	0.00752	0.01303	0.009	0.023	0.0059	0.00599	0.12280546	0.011063085	7.829E-07	6.86E-04	4.01E-03	3.24E-03	4.18E-02	4.07E-02	1.43E-01
1829	494461.06	3859151.99	0.01166	0.00591	0.00738	0.01283	0.008	0.024	0.0058	0.00591	0.12165775	0.010915331	7.683E-07	6.76E-04	3.98E-03	3.42E-03	4.13E-02	4.02E-02	1.42E-01
1830	494511.06	3859151.99	0.01154	0.00582	0.00723	0.01259	0.008	0.026	0.0058	0.00582	0.1204057	0.010749107	7.527E-07	6.63E-04	3.92E-03	3.66E-03	4.07E-02	3.96E-02	1.41E-01
1831	494561.06	3859151.99	0.01143	0.00576	0.00712	0.01243	0.008	0.029	0.0057	0.00576	0.11925798	0.010638292	7.412E-07	6.55E-04	3.90E-03	4.01E-03	4.03E-02	3.92E-02	1.40E-01
1832	494611.06	3859151.99	0.01131	0.00567	0.00697	0.01219	0.008	0.032	0.0056	0.00567	0.11800593	0.010472069	7.256E-07	6.42E-04	3.85E-03	4.54E-03	3.97E-02	3.86E-02	1.39E-01
1833	494661.06	3859151.99	0.01121	0.00561	0.00686	0.01202	0.008	0.038	0.0056	0.00561	0.11696255	0.010361253	7.142E-07	6.33E-04	3.81E-03	5.39E-03	3.93E-02	3.81E-02	1.38E-01
1834	494711.06	3859151.99	0.01111	0.00555	0.00676	0.01188	0.008	0.049	0.0055	0.00555	0.11591918	0.010250437	7.038E-07	6.26E-04	3.78E-03	6.87E-03	3.90E-02	3.77E-02	1.39E-01
1835	494761.06	3859151.99	0.01097	0.00546	0.00661	0.01162	0.008	0.071	0.0054	0.00546	0.11445845	0.010084214	6.881E-07	6.12E-04	3.72E-03	1.00E-02	3.83E-02	3.71E-02	1.40E-01
1836	494811.06	3859151.99	0.01085	0.00538	0.00648	0.0114	0.008	0.135	0.0053	0.00538	0.1132064	0.00993646	6.746E-07	6.00E-04	3.66E-03	1.90E-02	3.78E-02	3.66E-02	1.48E-01
1837	494861.06	3859151.99	0.01074	0.00532	0.00638	0.01125	0.008	0.245	0.0053	0.00532	0.11205868	0.009825645	6.642E-07	5.93E-04	3.63E-03	3.45E-02	3.74E-02	3.62E-02	1.62E-01
1838	494911.06	3859151.99	0.0106	0.00523	0.00624	0.01099	0.008	0.494	0.0052	0.00523	0.11059795	0.009659421	6.496E-07	5.79E-04	3.55E-03	6.94E-02	3.68E-02	3.56E-02	1.95E-01
1839	494961.06	3859151.99	0.01043	0.00511	0.00606	0.01066	0.007	0.489	0.0051	0.00511	0.10882421	0.00943779	6.309E-07	5.62E-04	3.45E-03	6.88E-02	3.59E-02	3.47E-02	1.92E-01
1840	495011.06	3859151.99	0.01023	0.00501	0.0059	0.01038	0.007	0.528	0.005	0.00501	0.10673746	0.009253098	6.142E-07	5.47E-04	3.35E-03	7.43E-02	3.53E-02	3.41E-02	1.95E-01
1841	495061.06	3859151.99	0.01015	0.00498	0.00584	0.01032	0.007	0.5	0.005	0.00498	0.10590276	0.00919769	6.08E-07	5.44E-04	3.35E-03	7.04E-02	3.51E-02	3.39E-02	1.91E-01
1842	495111.06	3859151.99	0.01007	0.00495	0.00578	0.01022	0.007	0.498	0.0049	0.00495	0.10506806	0.009142282	6.017E-07	5.38E-04	3.34E-03	7.00E-02	3.49E-02	3.37E-02	1.89E-01
1843	495161.06	3859151.99	0.01004	0.00495	0.00576	0.01023	0.007	0.472	0.0049	0.00495	0.10475504	0.009142282	5.997E-07	5.39E-04	3.37E-03	6.64E-02	3.49E-02	3.37E-02	1.85E-01
1844	495211.06	3859151.99	0.00996	0.00492	0.0057	0.01015	0.007	0.53	0.0049	0.00492	0.10392034	0.009086874	5.934E-07	5.35E-04	3.36E-03	7.46E-02	3.46E-02	3.35E-02	1.93E-01
1845	495261.06	3859151.99	0.00988	0.00489	0.00565	0.01007	0.007	0.471	0.0049	0.00489	0.10308564	0.009031467	5.882E-07	5.30E-04	3.36E-03	6.62E-02	3.44E-02	3.33E-02	1.83E-01
1846	495311.06	3859151.99	0.00982	0.00486	0.0056	0.01001	0.007	0.452	0.0048	0.00486	0.10245961	0.008976059	5.83E-07	5.27E-04	3.36E-03	6.36E-02	3.43E-02	3.30E-02	1.80E-01
1847	495361.06	3859151.99	0.00974	0.00483	0.00555	0.00994	0.007	0.478	0.0048	0.00483	0.10162491	0.008920651	5.778E-07	5.24E-04	3.35E-03	6.73E-02	3.41E-02	3.28E-02	1.83E-01
1848	495411.06	3859151.99	0.00971	0.00483	0.00554	0.00994	0.007	0.447	0.0048	0.00483	0.1013119	0.008920651	5.767E-07	5.24E-04	3.38E-03	6.29E-02	3.41E-02	3.28E-02	1.78E-01
1849	495461.06	3859151.99	0.00964	0.00481	0.00549	0.00988	0.007	0.466	0.0048	0.00481	0.10058154	0.008883712	5.715E-07	5.20E-04	3.37E-03	6.55E-02	3.39E-02	3.27E-02	1.80E-01
1850	495511.06	3859151.99	0.00954	0.00476	0.00541	0.00975	0.007	0.456	0.0047	0.00476	0.09953816	0.008791366	5.632E-07	5.14E-04	3.34E-03	6.41E-02	3.36E-02	3.24E-02	1.77E-01
1851	495561.06	3859151.99	0.00946	0.00473	0.00535	0.00965	0.007	0.439	0.0047	0.00473	0.09870346	0.008735958	5.57E-07	5.08E-04	3.32E-03	6.18E-02	3.33E-02	3.22E-02	1.74E-01
1852	495611.06	3859151.99	0.00938	0.00469	0.00529	0.00956	0.007	0.417	0.0047	0.00469	0.09786876	0.008662081	5.507E-07	5.04E-04	3.31E-03	5.87E-02	3.31E-02	3.19E-02	1.70E-01

1853	495661.06	3859151.99	0.00931	0.00466	0.00524	0.00948	0.007	0.387	0.0046	0.00466	0.09713839	0.008606674	5.455E-07	4.99E-04	3.30E-03	5.44E-02	3.29E-02	3.17E-02	1.65E-01
1854	494311.06	3859201.99	0.01192	0.00628	0.00782	0.01355	0.009	0.023	0.0062	0.00628	0.12437053	0.011598693	8.141E-07	7.14E-04	3.99E-03	3.17E-03	4.37E-02	4.27E-02	1.45E-01
1855	494361.06	3859201.99	0.01182	0.00623	0.00771	0.0134	0.008	0.024	0.0061	0.00623	0.12332715	0.011506347	8.027E-07	7.06E-04	3.98E-03	3.32E-03	4.34E-02	4.24E-02	1.44E-01
1856	494411.06	3859201.99	0.01171	0.00615	0.00754	0.01321	0.008	0.025	0.0061	0.00615	0.12217944	0.011358593	7.85E-07	6.96E-04	3.95E-03	3.47E-03	4.29E-02	4.18E-02	1.43E-01
1857	494461.06	3859201.99	0.0116	0.00606	0.00739	0.01296	0.008	0.026	0.006	0.00606	0.12103172	0.01119237	7.693E-07	6.83E-04	3.91E-03	3.65E-03	4.22E-02	4.12E-02	1.41E-01
1858	494511.06	3859201.99	0.01149	0.00599	0.00727	0.01278	0.008	0.028	0.0059	0.00599	0.11988401	0.011063085	7.569E-07	6.73E-04	3.88E-03	3.92E-03	4.18E-02	4.07E-02	1.40E-01
1859	494561.06	3859201.99	0.01138	0.00589	0.00711	0.01252	0.008	0.031	0.0058	0.00589	0.11873629	0.010878392	7.402E-07	6.59E-04	3.83E-03	4.29E-03	4.12E-02	4.01E-02	1.40E-01
1860	494611.06	3859201.99	0.01127	0.00581	0.00698	0.01231	0.008	0.035	0.0057	0.00581	0.11758858	0.010730638	7.267E-07	6.48E-04	3.79E-03	4.87E-03	4.07E-02	3.95E-02	1.39E-01
1861	494661.06	3859201.99	0.01116	0.00575	0.00687	0.01214	0.008	0.041	0.0057	0.00575	0.11644087	0.010619823	7.152E-07	6.39E-04	3.76E-03	5.79E-03	4.02E-02	3.91E-02	1.38E-01
1862	494711.06	3859201.99	0.01106	0.00568	0.00676	0.01198	0.008	0.052	0.0056	0.00568	0.11539749	0.010490538	7.038E-07	6.31E-04	3.73E-03	7.37E-03	3.98E-02	3.86E-02	1.39E-01
1863	494761.06	3859201.99	0.01094	0.00559	0.00661	0.01173	0.008	0.076	0.0055	0.00559	0.11414544	0.010324315	6.881E-07	6.18E-04	3.67E-03	1.07E-02	3.92E-02	3.80E-02	1.41E-01
1864	494811.06	3859201.99	0.01082	0.00551	0.00648	0.01152	0.008	0.14	0.0055	0.00551	0.11289338	0.01017656	6.746E-07	6.07E-04	3.62E-03	1.97E-02	3.87E-02	3.75E-02	1.48E-01
1865	494861.06	3859201.99	0.0107	0.00541	0.00634	0.01126	0.008	0.262	0.0054	0.00541	0.11164133	0.009991868	6.6E-07	5.93E-04	3.57E-03	3.69E-02	3.80E-02	3.68E-02	1.64E-01
1866	494911.06	3859201.99	0.01055	0.00532	0.00619	0.01101	0.007	0.213	0.0053	0.00532	0.11007627	0.009825645	6.444E-07	5.80E-04	3.48E-03	3.00E-02	3.74E-02	3.62E-02	1.55E-01
1867	494961.06	3859201.99	0.01039	0.00522	0.00604	0.01073	0.007	0.163	0.0052	0.00522	0.10840686	0.009640952	6.288E-07	5.65E-04	3.39E-03	2.29E-02	3.67E-02	3.55E-02	1.46E-01
1868	495011.06	3859201.99	0.01019	0.00509	0.00586	0.01038	0.007	0.144	0.0051	0.00509	0.10632011	0.009400852	6.101E-07	5.47E-04	3.28E-03	2.02E-02	3.58E-02	3.46E-02	1.41E-01
1869	495061.06	3859201.99	0.01018	0.00511	0.00586	0.01044	0.007	0.14	0.0051	0.00511	0.10621577	0.00943779	6.101E-07	5.50E-04	3.33E-03	1.97E-02	3.59E-02	3.47E-02	1.40E-01
1870	495111.06	3859201.99	0.01011	0.00509	0.00582	0.01039	0.007	0.137	0.0051	0.00509	0.10548541	0.009400852	6.059E-07	5.47E-04	3.34E-03	1.92E-02	3.58E-02	3.46E-02	1.39E-01
1871	495161.06	3859201.99	0.01004	0.00506	0.00577	0.01032	0.007	0.135	0.005	0.00506	0.10475504	0.009345444	6.007E-07	5.44E-04	3.35E-03	1.89E-02	3.56E-02	3.44E-02	1.38E-01
1872	495211.06	3859201.99	0.00995	0.00502	0.0057	0.01022	0.007	0.134	0.005	0.00502	0.103816	0.009271567	5.934E-07	5.38E-04	3.33E-03	1.89E-02	3.54E-02	3.41E-02	1.37E-01
1873	495261.06	3859201.99	0.00989	0.005	0.00566	0.01017	0.007	0.132	0.005	0.005	0.10318998	0.009234628	5.892E-07	5.36E-04	3.34E-03	1.86E-02	3.52E-02	3.40E-02	1.36E-01
1874	495311.06	3859201.99	0.00982	0.00497	0.00561	0.01011	0.007	0.131	0.005	0.00497	0.10245961	0.009179221	5.84E-07	5.33E-04	3.34E-03	1.84E-02	3.51E-02	3.38E-02	1.35E-01
1875	495361.06	3859201.99	0.00976	0.00495	0.00557	0.01005	0.007	0.129	0.0049	0.00495	0.10183359	0.009142282	5.799E-07	5.29E-04	3.34E-03	1.82E-02	3.49E-02	3.37E-02	1.34E-01
1876	495411.06	3859201.99	0.00971	0.00494	0.00554	0.01004	0.007	0.127	0.0049	0.00494	0.1013119	0.009123813	5.767E-07	5.29E-04	3.36E-03	1.78E-02	3.49E-02	3.36E-02	1.33E-01
1877	495461.06	3859201.99	0.00963	0.00491	0.00549	0.00996	0.007	0.125	0.0049	0.00491	0.1004772	0.009068405	5.715E-07	5.25E-04	3.35E-03	1.76E-02	3.46E-02	3.34E-02	1.32E-01
1878	495511.06	3859201.99	0.00956	0.00488	0.00544	0.00988	0.007	0.123	0.0049	0.00488	0.09974683	0.009012997	5.663E-07	5.20E-04	3.34E-03	1.73E-02	3.44E-02	3.32E-02	1.31E-01
1879	495561.06	3859201.99	0.00946	0.00483	0.00536	0.00974	0.007	0.122	0.0048	0.00483	0.09870346	0.008920651	5.58E-07	5.13E-04	3.31E-03	1.72E-02	3.41E-02	3.28E-02	1.30E-01
1880	495611.06	3859201.99	0.00938	0.00479	0.0053	0.00964	0.007	0.119	0.0048	0.00479	0.09786876	0.008846774	5.518E-07	5.08E-04	3.29E-03	1.67E-02	3.38E-02	3.26E-02	1.28E-01
1881	495661.06	3859201.99	0.00931	0.00476	0.00524	0.00956	0.007	0.112	0.0047	0.00476	0.09713839	0.008791366	5.455E-07	5.04E-04	3.28E-03	1.58E-02	3.36E-02	3.24E-02	1.27E-01
1882	494311.06	3859251.99	0.01186	0.00646	0.00784	0.01376	0.008	0.024	0.0063	0.00646	0.1237445	0.01193114	8.162E-07	7.25E-04	3.92E-03	3.42E-03	4.49E-02	4.39E-02	1.45E-01
1883	494361.06	3859251.99	0.01175	0.00639	0.0077	0.01355	0.008	0.025	0.0063	0.00639	0.12259679	0.011801855	8.016E-07	7.14E-04	3.90E-03	3.58E-03	4.44E-02	4.35E-02	1.44E-01
1884	494411.06	3859251.99	0.01164	0.00629	0.00754	0.01328	0.008	0.027	0.0062	0.00629	0.12144907	0.011617162	7.85E-07	7.00E-04	3.86E-03	3.74E-03	4.37E-02	4.28E-02	1.42E-01
1885	494461.06	3859251.99	0.01153	0.00621	0.00742	0.01309	0.008	0.028	0.0061	0.00621	0.12030136	0.011469408	7.725E-07	6.90E-04	3.84E-03	3.93E-03	4.33E-02	4.22E-02	1.41E-01
1886	494511.06	3859251.99	0.01141	0.0061	0.00722	0.01282	0.008	0.03	0.006	0.0061	0.11904931	0.011266247	7.516E-07	6.75E-04	3.79E-03	4.18E-03	4.26E-02	4.15E-02	1.40E-01
1887	494561.06	3859251.99	0.01131	0.00603	0.0071	0.01262	0.008	0.032	0.0059	0.00603	0.11800593	0.011136962	7.392E-07	6.65E-04	3.77E-03	4.57E-03	4.21E-02	4.10E-02	1.39E-01
1888	494611.06	3859251.99	0.0112	0.00594	0.00696	0.0124	0.008	0.037	0.0059	0.00594	0.11685822	0.010970738	7.246E-07	6.53E-04	3.72E-03	5.14E-03	4.15E-02	4.04E-02	1.38E-01
1889	494661.06	3859251.99	0.0111	0.00589	0.00686	0.01226	0.008	0.043	0.0058	0.00589	0.11581484	0.010878392	7.142E-07	6.46E-04	3.71E-03	6.03E-03	4.12E-02	4.01E-02	1.38E-01
1890	494711.06	3859251.99	0.011	0.00582	0.00675	0.01208	0.008	0.054	0.0057	0.00582	0.11477146	0.010749107	7.027E-07	6.36E-04	3.68E-03	7.55E-03	4.07E-02	3.96E-02	1.38E-01
1891	494761.06	3859251.99	0.01087	0.00567	0.00654	0.01169	0.008	0.076	0.0056	0.00567	0.11341507	0.010472069	6.809E-07	6.16E-04	3.59E-03	1.08E-02	3.97E-02	3.86E-02	1.40E-01
1892	494811.06	3859251.99	0.01078	0.00564	0.00648	0.01162	0.008	0.135	0.0056	0.00564	0.11247603	0.010416661	6.746E-07	6.12E-04	3.58E-03	1.90E-02	3.95E-02	3.84E-02	1.47E-01
1893	494861.06	3859251.99	0.01064	0.0055	0.00629	0.01128	0.007	0.266	0.0055	0.0055	0.11101531	0.010158091	6.548E-07	5.94E-04	3.49E-03	3.74E-02	3.86E-02	3.74E-02	1.64E-01
1894	494911.06	3859251.99	0.0105	0.00541	0.00614	0.01102	0.007	0.187	0.0054	0.00541	0.10955458	0.009991868	6.392E-07	5.80E-04	3.41E-03	2.63E-02	3.80E-02	3.68E-02	1.51E-01
1895	494961.06	3859251.99	0.01039	0.00535	0.00604	0.01085	0.007	0.132	0.0053	0.00535	0.10840686	0.009881052	6.288E-07	5.72E-04	3.38E-03	1.85E-02	3.76E-02	3.64E-02	1.42E-01
1896	495011.06	3859251.99	0.01027	0.00528	0.00593	0.01067	0.007	0.106	0.0052	0.00528	0.10715481	0.009751768	6.173E-07	5.62E-04	3.33E-03	1.50E-02	3.71E-02	3.59E-02	1.37E-01
1897	495061.06	3859251.99	0.0102	0.00526	0.00589	0.01063	0.007	0.095	0.0052	0.00526	0.10642445	0.009714829	6.132E-07	5.60E-04	3.35E-03	1.34E-02	3.70E-02	3.58E-02	1.35E-01
1898	495111.06	3859251.99	0.01012	0.00522	0.00583	0.01053	0.007	0.088	0.0052	0.00522	0.10558974	0.009640952	6.069E-07	5.55E-04	3.33E-03	1.24E-02	3.67E-02	3.55E-02	1.33E-01
1899	495161.06	3859251.99	0.01004	0.00519	0.00578	0.01045	0.007	0.084	0.0052	0.00519	0.10475504	0.009585544	6.017E-07	5.50E-04	3.33E-03	1.18E-02	3.65E-02	3.53E-02	1.31E-01
1900	495211.06	3859251.99	0.00996	0.00515	0.00571	0.01035	0.007	0.081	0.0051	0.00515	0.10392034	0.009511667	5.944E-07	5.45E-04	3.32E-03	1.14E-02	3.62E-02	3.50E-02	1.30E-01
1901	495261.06	3859251.99	0.0099	0.00511	0.00565	0.01027	0.007	0.079	0.0051	0.00511	0.10329432	0.00943779	5.882E-07	5.41E-04	3.32E-03	1.11E-02	3.59E-02	3.47E-02	1.29E-01
1902	495311.06	3859251.99	0.00982	0.0051	0.00562	0.01024	0.007	0.077	0.0051	0.0051	0.10245961	0.009419321	5.851E-07	5.39E-04	3.33E-03	1.08E-02	3.59E-02	3.47E-02	1.28E-01
1903	495361.06	3859251.99	0.00975	0.00507	0.00557	0.01016	0.007	0.076	0.005	0.00507	0.10172925	0.009363913	5.799E-07	5.35E-04	3.33E-03	1.06E-02	3.57E-02	3.45E-02	1.27E-01
1904	495411.06	3859251.99	0.00969	0.00506	0.00554	0.01014	0.007	0.074	0.005	0.00506	0.10110322	0.009345444	5.767E-07	5.34E-04	3.34E-03	1.04E-02	3.56E-02	3.44E-02	1.26E-01
1905	495461.06	3859251.99	0.00962	0.00503	0.00549	0.01006	0.007	0.073	0.005	0.00503	0.10037286	0.009290036	5.715E-07	5.30E-04	3.33E-03	1.03E-02	3.54E-02	3.42E-02	1.25E-01
1906	495511.06	3859251.99	0.00952	0.00497	0.00541	0.00992	0.007	0.072	0.005	0.00497	0.09932948	0.009179221	5.632E-07	5.23E-04	3.30E-03	1.01E-02	3.51E-02	3.38E-02	1.24E-01
1907	495561.06	3859251.99	0.00945	0.00494	0.00535	0.00983	0.007	0.07	0.0049	0.00494	0.09859912	0.009123813	5.57E-07	5.18E-04	3.29E-03	9.87E-03	3.48E-02	3.36E-02	1.23E-01
1908	495611.06	3859251.99	0.00936	0.00489	0.00528	0.00971	0.007	0.068	0.0049	0.00489	0.09766008	0.009031467	5.497E-07	5.11E-04	3.26E-03	9.62E-03	3.45E-02	3.33E-02	1.21E-01
1909	495661.06	3859251.99	0.00928	0.00486	0.00523	0.00962	0.007	0.066	0.0048	0.00486	0.09682538	0.008976059	5.445E-07	5.07E-04	3.24E-03	9.26E-03	3.42E-02	3.30E-02	1.20E-01
1910	494311.06	3859301.99	0.01178	0.00664	0.00783	0.01394	0.008	0.026	0.0065	0.00664	0.1229098	0.012263586	8.152E-07	7.34E-04	3.85E-03	3.72E-03	4.61E-02	4.52E-02	1.44E-01

1911	494361.06	3859301.99	0.01167	0.00656	0.00769	0.01371	0.008	0.028	0.0064	0.00656	0.12176209	0.012115832	8.006E-07	7.22E-04	3.82E-03	3.91E-03	4.55E-02	4.46E-02	1.43E-01
1912	494411.06	3859301.99	0.01156	0.00645	0.00753	0.01344	0.008	0.029	0.0063	0.00645	0.12061437	0.011912671	7.839E-07	7.08E-04	3.79E-03	4.09E-03	4.49E-02	4.39E-02	1.42E-01
1913	494461.06	3859301.99	0.01145	0.00635	0.00737	0.01318	0.008	0.03	0.0062	0.00635	0.11946666	0.011727978	7.673E-07	6.94E-04	3.75E-03	4.26E-03	4.41E-02	4.32E-02	1.41E-01
1914	494511.06	3859301.99	0.01134	0.00626	0.00723	0.01293	0.008	0.032	0.0062	0.00626	0.11831894	0.011561755	7.527E-07	6.81E-04	3.72E-03	4.51E-03	4.36E-02	4.26E-02	1.40E-01
1915	494561.06	3859301.99	0.01123	0.00618	0.00711	0.01274	0.008	0.035	0.0061	0.00618	0.11717123	0.011414001	7.402E-07	6.71E-04	3.70E-03	4.89E-03	4.31E-02	4.20E-02	1.39E-01
1916	494611.06	3859301.99	0.01113	0.0061	0.00695	0.01254	0.008	0.039	0.006	0.0061	0.11612785	0.011266247	7.235E-07	6.61E-04	3.67E-03	5.45E-03	4.25E-02	4.15E-02	1.38E-01
1917	494661.06	3859301.99	0.01103	0.00602	0.00683	0.01234	0.008	0.045	0.0059	0.00602	0.11508448	0.011118493	7.11E-07	6.50E-04	3.64E-03	6.30E-03	4.20E-02	4.09E-02	1.38E-01
1918	494711.06	3859301.99	0.01092	0.00593	0.00669	0.01211	0.008	0.055	0.0059	0.00593	0.11393676	0.010952269	6.965E-07	6.38E-04	3.60E-03	7.78E-03	4.14E-02	4.03E-02	1.38E-01
1919	494761.06	3859301.99	0.01082	0.00585	0.00657	0.01192	0.008	0.076	0.0058	0.00585	0.11289338	0.010804515	6.84E-07	6.28E-04	3.57E-03	1.07E-02	4.09E-02	3.98E-02	1.40E-01
1920	494811.06	3859301.99	0.0107	0.00575	0.00643	0.01166	0.007	0.132	0.0057	0.00575	0.11164133	0.010619823	6.694E-07	6.14E-04	3.51E-03	1.86E-02	4.02E-02	3.91E-02	1.46E-01
1921	494861.06	3859301.99	0.01057	0.00562	0.00624	0.01133	0.007	0.185	0.0056	0.00562	0.11028494	0.010379722	6.496E-07	5.97E-04	3.43E-03	2.60E-02	3.94E-02	3.82E-02	1.52E-01
1922	494911.06	3859301.99	0.01046	0.00555	0.00613	0.01115	0.007	0.188	0.0055	0.00555	0.10913723	0.010250437	6.382E-07	5.87E-04	3.39E-03	2.65E-02	3.89E-02	3.77E-02	1.51E-01
1923	494961.06	3859301.99	0.01032	0.00543	0.00596	0.01082	0.007	0.123	0.0054	0.00543	0.1076765	0.010028806	6.205E-07	5.70E-04	3.30E-03	1.74E-02	3.80E-02	3.69E-02	1.40E-01
1924	495011.06	3859301.99	0.01022	0.00537	0.00587	0.01068	0.007	0.097	0.0053	0.00537	0.10663312	0.009917991	6.111E-07	5.63E-04	3.28E-03	1.37E-02	3.77E-02	3.65E-02	1.35E-01
1925	495061.06	3859301.99	0.01019	0.00538	0.00588	0.01074	0.007	0.085	0.0053	0.00538	0.10632011	0.00993646	6.121E-07	5.66E-04	3.33E-03	1.20E-02	3.78E-02	3.66E-02	1.33E-01
1926	495111.06	3859301.99	0.01008	0.00532	0.00579	0.01056	0.007	0.076	0.0053	0.00532	0.10517239	0.009825645	6.028E-07	5.56E-04	3.29E-03	1.07E-02	3.73E-02	3.62E-02	1.31E-01
1927	495161.06	3859301.99	0.01	0.00529	0.00574	0.0105	0.007	0.07	0.0053	0.00529	0.10433769	0.009770237	5.976E-07	5.53E-04	3.29E-03	9.86E-03	3.72E-02	3.60E-02	1.29E-01
1928	495211.06	3859301.99	0.00994	0.00528	0.00572	0.01049	0.007	0.066	0.0052	0.00528	0.10371167	0.009751768	5.955E-07	5.53E-04	3.32E-03	9.31E-03	3.71E-02	3.59E-02	1.28E-01
1929	495261.06	3859301.99	0.00987	0.00526	0.00568	0.01044	0.007	0.063	0.0052	0.00526	0.1029813	0.009714829	5.913E-07	5.50E-04	3.32E-03	8.89E-03	3.70E-02	3.58E-02	1.27E-01
1930	495311.06	3859301.99	0.00978	0.00521	0.0056	0.0103	0.007	0.061	0.0052	0.00521	0.10204226	0.009622483	5.83E-07	5.43E-04	3.30E-03	8.53E-03	3.66E-02	3.54E-02	1.25E-01
1931	495361.06	3859301.99	0.00972	0.00519	0.00557	0.01027	0.007	0.059	0.0052	0.00519	0.10141624	0.009585544	5.799E-07	5.41E-04	3.31E-03	8.26E-03	3.66E-02	3.53E-02	1.24E-01
1932	495411.06	3859301.99	0.00965	0.00516	0.00552	0.0102	0.007	0.057	0.0051	0.00516	0.10068587	0.009530136	5.747E-07	5.37E-04	3.31E-03	8.02E-03	3.63E-02	3.51E-02	1.23E-01
1933	495461.06	3859301.99	0.00958	0.00514	0.00548	0.01014	0.007	0.055	0.0051	0.00514	0.09995551	0.009493198	5.705E-07	5.34E-04	3.31E-03	7.80E-03	3.62E-02	3.50E-02	1.22E-01
1934	495511.06	3859301.99	0.0095	0.00509	0.00541	0.01002	0.007	0.054	0.0051	0.00509	0.09912081	0.009400852	5.632E-07	5.28E-04	3.29E-03	7.58E-03	3.59E-02	3.46E-02	1.21E-01
1935	495561.06	3859301.99	0.0094	0.00503	0.00532	0.00986	0.007	0.052	0.005	0.00503	0.09807743	0.009290036	5.538E-07	5.19E-04	3.24E-03	7.37E-03	3.54E-02	3.42E-02	1.20E-01
1936	495611.06	3859301.99	0.00932	0.00499	0.00526	0.00976	0.007	0.051	0.005	0.00499	0.09724273	0.009216159	5.476E-07	5.14E-04	3.23E-03	7.17E-03	3.51E-02	3.39E-02	1.19E-01
1937	495661.06	3859301.99	0.00925	0.00495	0.00521	0.00967	0.007	0.049	0.0049	0.00495	0.09651237	0.009142282	5.424E-07	5.09E-04	3.22E-03	6.93E-03	3.49E-02	3.37E-02	1.18E-01
1938	494311.06	3859351.99	0.01165	0.0068	0.00778	0.01405	0.008	0.029	0.0067	0.0068	0.12155341	0.012559095	8.099E-07	7.40E-04	3.75E-03	4.10E-03	4.71E-02	4.62E-02	1.44E-01
1939	494361.06	3859351.99	0.01156	0.00671	0.00764	0.01381	0.008	0.031	0.0066	0.00671	0.12061437	0.012392871	7.954E-07	7.27E-04	3.73E-03	4.36E-03	4.66E-02	4.56E-02	1.43E-01
1940	494411.06	3859351.99	0.01147	0.00659	0.00746	0.01351	0.008	0.033	0.0065	0.00659	0.11967533	0.01217124	7.766E-07	7.12E-04	3.70E-03	4.57E-03	4.58E-02	4.48E-02	1.42E-01
1941	494461.06	3859351.99	0.01135	0.00649	0.00731	0.01326	0.008	0.034	0.0064	0.00649	0.11842328	0.011986548	7.61E-07	6.98E-04	3.67E-03	4.76E-03	4.51E-02	4.41E-02	1.41E-01
1942	494511.06	3859351.99	0.01125	0.0064	0.00718	0.01303	0.008	0.036	0.0063	0.0064	0.1173799	0.011820324	7.475E-07	6.86E-04	3.64E-03	5.02E-03	4.45E-02	4.35E-02	1.40E-01
1943	494561.06	3859351.99	0.01115	0.00633	0.00706	0.01285	0.008	0.039	0.0062	0.00633	0.11633653	0.01169104	7.35E-07	6.77E-04	3.62E-03	5.43E-03	4.41E-02	4.30E-02	1.39E-01
1944	494611.06	3859351.99	0.01105	0.00625	0.00694	0.01265	0.008	0.043	0.0061	0.00625	0.11529315	0.011543285	7.225E-07	6.66E-04	3.60E-03	5.99E-03	4.35E-02	4.25E-02	1.38E-01
1945	494661.06	3859351.99	0.01094	0.00617	0.00682	0.01244	0.008	0.049	0.0061	0.00617	0.11414544	0.011395531	7.1E-07	6.55E-04	3.58E-03	6.85E-03	4.30E-02	4.20E-02	1.38E-01
1946	494711.06	3859351.99	0.01084	0.00607	0.00665	0.01219	0.008	0.059	0.006	0.00607	0.11310206	0.011210839	6.923E-07	6.42E-04	3.54E-03	8.29E-03	4.23E-02	4.13E-02	1.38E-01
1947	494761.06	3859351.99	0.01073	0.00593	0.00648	0.01188	0.007	0.079	0.0059	0.00593	0.11195434	0.010952269	6.746E-07	6.26E-04	3.48E-03	1.12E-02	4.14E-02	4.03E-02	1.39E-01
1948	494811.06	3859351.99	0.0106	0.00581	0.00629	0.01154	0.007	0.138	0.0057	0.00581	0.11059795	0.010730638	6.548E-07	6.08E-04	3.40E-03	1.93E-02	4.06E-02	3.95E-02	1.46E-01
1949	494861.06	3859351.99	0.0105	0.00574	0.00619	0.01138	0.007	0.245	0.0057	0.00574	0.10955458	0.010601353	6.444E-07	5.99E-04	3.38E-03	3.45E-02	4.02E-02	3.90E-02	1.60E-01
1950	494911.06	3859351.99	0.01041	0.00569	0.00612	0.01126	0.007	0.19	0.0056	0.00569	0.10861554	0.010509007	6.371E-07	5.93E-04	3.36E-03	2.67E-02	3.98E-02	3.87E-02	1.51E-01
1951	494961.06	3859351.99	0.01031	0.00562	0.00601	0.01108	0.007	0.128	0.0056	0.00562	0.10757216	0.010379722	6.257E-07	5.84E-04	3.33E-03	1.80E-02	3.94E-02	3.82E-02	1.41E-01
1952	495011.06	3859351.99	0.01022	0.00556	0.00593	0.01094	0.007	0.099	0.0055	0.00556	0.10663312	0.010268907	6.173E-07	5.76E-04	3.31E-03	1.40E-02	3.90E-02	3.78E-02	1.36E-01
1953	495061.06	3859351.99	0.01015	0.00556	0.00592	0.01095	0.007	0.084	0.0055	0.00556	0.10590276	0.010268907	6.163E-07	5.77E-04	3.34E-03	1.19E-02	3.90E-02	3.78E-02	1.33E-01
1954	495111.06	3859351.99	0.01006	0.0055	0.00583	0.0108	0.007	0.074	0.0055	0.0055	0.10496372	0.010158091	6.069E-07	5.69E-04	3.32E-03	1.04E-02	3.86E-02	3.74E-02	1.31E-01
1955	495161.06	3859351.99	0.00998	0.00546	0.00577	0.01071	0.007	0.067	0.0054	0.00546	0.10412902	0.010084214	6.007E-07	5.64E-04	3.31E-03	9.43E-03	3.83E-02	3.71E-02	1.29E-01
1956	495211.06	3859351.99	0.0099	0.00542	0.00571	0.01062	0.007	0.062	0.0054	0.00542	0.10329432	0.010010337	5.944E-07	5.59E-04	3.30E-03	8.70E-03	3.80E-02	3.69E-02	1.27E-01
1957	495261.06	3859351.99	0.00983	0.0054	0.00567	0.01056	0.007	0.058	0.0054	0.0054	0.10256395	0.009973399	5.903E-07	5.56E-04	3.31E-03	8.16E-03	3.79E-02	3.67E-02	1.26E-01
1958	495311.06	3859351.99	0.00974	0.00535	0.0056	0.01043	0.007	0.055	0.0053	0.00535	0.10162491	0.009881052	5.83E-07	5.49E-04	3.29E-03	7.70E-03	3.76E-02	3.64E-02	1.24E-01
1959	495361.06	3859351.99	0.00967	0.00531	0.00554	0.01035	0.007	0.052	0.0053	0.00531	0.10089455	0.009807175	5.767E-07	5.45E-04	3.28E-03	7.34E-03	3.73E-02	3.61E-02	1.23E-01
1960	495411.06	3859351.99	0.0096	0.00529	0.0055	0.01029	0.007	0.05	0.0052	0.00529	0.10016418	0.009770237	5.726E-07	5.42E-04	3.28E-03	7.03E-03	3.71E-02	3.60E-02	1.22E-01
1961	495461.06	3859351.99	0.00953	0.00527	0.00547	0.01025	0.007	0.048	0.0052	0.00527	0.09943382	0.009733298	5.695E-07	5.40E-04	3.29E-03	6.77E-03	3.71E-02	3.58E-02	1.21E-01
1962	495511.06	3859351.99	0.00944	0.00521	0.00539	0.01009	0.007	0.046	0.0052	0.00521	0.09849478	0.009622483	5.611E-07	5.31E-04	3.26E-03	6.51E-03	3.66E-02	3.54E-02	1.20E-01
1963	495561.06	3859351.99	0.00936	0.00516	0.00532	0.00997	0.007	0.045	0.0051	0.00516	0.09766008	0.009530136	5.538E-07	5.25E-04	3.24E-03	6.30E-03	3.63E-02	3.51E-02	1.18E-01
1964	495611.06	3859351.99	0.00929	0.00512	0.00526	0.00988	0.007	0.043	0.0051	0.00512	0.09692972	0.009456259	5.476E-07	5.20E-04	3.23E-03	6.10E-03	3.60E-02	3.48E-02	1.17E-01
1965	495661.06	3859351.99	0.0092	0.00506	0.00518	0.00973	0.007	0.042	0.005	0.00506	0.09599068	0.009345444	5.393E-07	5.13E-04	3.19E-03	5.88E-03	3.56E-02	3.44E-02	1.16E-01
1966	494311.06	3859401.99	0.01151	0.00698	0.00773	0.0142	0.008	0.033	0.0068	0.00698	0.12009268	0.012891541	8.047E-07	7.48E-04	3.66E-03	4.66E-03	4.83E-02	4.75E-02	1.43E-01
1967	494361.06	3859401.99	0.01142	0.00686	0.00756	0.0139	0.008	0.036	0.0067	0.00686	0.11915365	0.01266991	7.87E-07	7.32E-04	3.64E-03	5.04E-03	4.75E-02	4.66E-02	1.42E-01
1968	494411.06	3859401.99	0.01134	0.00674	0.00738	0.01358	0.008	0.039	0.0066	0.00674	0.11831894	0.012448279	7.683E-07	7.15E-04	3.61E-03	5.42E-03	4.67E-02	4.58E-02	1.41E-01

1969	494461.06	3859401.99	0.01125	0.00664	0.00724	0.01334	0.008	0.04	0.0065	0.00664	0.1173799	0.012263586	7.537E-07	7.03E-04	3.58E-03	5.69E-03	4.61E-02	4.52E-02	1.41E-01
1970	494511.06	3859401.99	0.01115	0.00657	0.00714	0.01317	0.008	0.043	0.0064	0.00657	0.11633653	0.012134302	7.433E-07	6.94E-04	3.57E-03	6.05E-03	4.56E-02	4.47E-02	1.40E-01
1971	494561.06	3859401.99	0.01105	0.00649	0.00702	0.01297	0.008	0.046	0.0064	0.00649	0.11529315	0.011986548	7.308E-07	6.83E-04	3.55E-03	6.53E-03	4.51E-02	4.41E-02	1.39E-01
1972	494611.06	3859401.99	0.01095	0.0064	0.00689	0.01274	0.008	0.051	0.0063	0.0064	0.11424977	0.011820324	7.173E-07	6.71E-04	3.53E-03	7.19E-03	4.45E-02	4.35E-02	1.38E-01
1973	494661.06	3859401.99	0.01085	0.00633	0.00679	0.01257	0.007	0.058	0.0062	0.00633	0.1132064	0.01169104	7.069E-07	6.62E-04	3.51E-03	8.14E-03	4.41E-02	4.30E-02	1.38E-01
1974	494711.06	3859401.99	0.01075	0.00625	0.00667	0.01237	0.007	0.068	0.0061	0.00625	0.11216302	0.011543285	6.944E-07	6.52E-04	3.49E-03	9.59E-03	4.35E-02	4.25E-02	1.38E-01
1975	494761.06	3859401.99	0.01064	0.00609	0.00647	0.01202	0.007	0.088	0.006	0.00609	0.11101531	0.011247777	6.736E-07	6.33E-04	3.44E-03	1.24E-02	4.25E-02	4.14E-02	1.40E-01
1976	494811.06	3859401.99	0.01054	0.00601	0.00633	0.01179	0.007	0.141	0.0059	0.00601	0.10997193	0.011100023	6.59E-07	6.21E-04	3.40E-03	1.99E-02	4.19E-02	4.09E-02	1.46E-01
1977	494861.06	3859401.99	0.01043	0.0059	0.00618	0.0115	0.007	0.25	0.0058	0.0059	0.10882421	0.010896861	6.434E-07	6.06E-04	3.35E-03	3.52E-02	4.12E-02	4.01E-02	1.60E-01
1978	494911.06	3859401.99	0.01034	0.00581	0.00606	0.01129	0.007	0.196	0.0057	0.00581	0.10788517	0.010730638	6.309E-07	5.95E-04	3.32E-03	2.75E-02	4.06E-02	3.95E-02	1.51E-01
1979	494961.06	3859401.99	0.01024	0.00577	0.006	0.01119	0.007	0.133	0.0057	0.00577	0.1068418	0.010656761	6.246E-07	5.89E-04	3.30E-03	1.87E-02	4.03E-02	3.92E-02	1.41E-01
1980	495011.06	3859401.99	0.01016	0.00572	0.00593	0.0111	0.007	0.104	0.0057	0.00572	0.1060071	0.010564415	6.173E-07	5.85E-04	3.30E-03	1.46E-02	4.00E-02	3.89E-02	1.36E-01
1981	495061.06	3859401.99	0.01009	0.00567	0.00587	0.011	0.007	0.087	0.0056	0.00567	0.10527673	0.010472069	6.111E-07	5.79E-04	3.30E-03	1.22E-02	3.97E-02	3.86E-02	1.33E-01
1982	495111.06	3859401.99	0.00999	0.00561	0.00579	0.01084	0.007	0.075	0.0056	0.00561	0.10423335	0.010361253	6.028E-07	5.71E-04	3.27E-03	1.06E-02	3.93E-02	3.81E-02	1.30E-01
1983	495161.06	3859401.99	0.00991	0.00559	0.00574	0.01079	0.007	0.067	0.0055	0.00559	0.10339865	0.010324315	5.976E-07	5.68E-04	3.27E-03	9.46E-03	3.92E-02	3.80E-02	1.28E-01
1984	495211.06	3859401.99	0.00984	0.00557	0.0057	0.01073	0.007	0.061	0.0055	0.00557	0.10266829	0.010287376	5.934E-07	5.65E-04	3.28E-03	8.64E-03	3.90E-02	3.79E-02	1.27E-01
1985	495261.06	3859401.99	0.00976	0.00553	0.00565	0.01064	0.007	0.057	0.0055	0.00553	0.10183359	0.010213499	5.882E-07	5.60E-04	3.27E-03	7.97E-03	3.88E-02	3.76E-02	1.25E-01
1986	495311.06	3859401.99	0.00968	0.00548	0.00559	0.01054	0.007	0.053	0.0054	0.00548	0.10099889	0.010121153	5.82E-07	5.55E-04	3.26E-03	7.43E-03	3.85E-02	3.73E-02	1.24E-01
1987	495361.06	3859401.99	0.00961	0.00546	0.00555	0.0105	0.007	0.05	0.0054	0.00546	0.10026852	0.010084214	5.778E-07	5.53E-04	3.27E-03	7.01E-03	3.83E-02	3.71E-02	1.22E-01
1988	495411.06	3859401.99	0.00954	0.00543	0.00551	0.01042	0.007	0.047	0.0054	0.00543	0.09953816	0.010028806	5.736E-07	5.49E-04	3.27E-03	6.64E-03	3.81E-02	3.69E-02	1.21E-01
1989	495461.06	3859401.99	0.00946	0.00538	0.00544	0.01031	0.007	0.045	0.0053	0.00538	0.09870346	0.00993646	5.663E-07	5.43E-04	3.25E-03	6.31E-03	3.78E-02	3.66E-02	1.20E-01
1990	495511.06	3859401.99	0.00938	0.00532	0.00536	0.01016	0.007	0.043	0.0053	0.00532	0.09786876	0.009825645	5.58E-07	5.35E-04	3.23E-03	6.02E-03	3.74E-02	3.62E-02	1.19E-01
1991	495561.06	3859401.99	0.00929	0.00525	0.00527	0.00999	0.007	0.041	0.0052	0.00525	0.09692972	0.00969636	5.486E-07	5.26E-04	3.19E-03	5.76E-03	3.69E-02	3.57E-02	1.17E-01
1992	495611.06	3859401.99	0.00921	0.00521	0.00521	0.00989	0.007	0.039	0.0052	0.00521	0.09609501	0.009622483	5.424E-07	5.21E-04	3.17E-03	5.53E-03	3.66E-02	3.54E-02	1.16E-01
1993	495661.06	3859401.99	0.00914	0.00517	0.00516	0.0098	0.007	0.038	0.0051	0.00517	0.09536465	0.009548606	5.372E-07	5.16E-04	3.17E-03	5.32E-03	3.64E-02	3.52E-02	1.15E-01
1994	494311.06	3859451.99	0.01136	0.00713	0.00762	0.01424	0.008	0.039	0.007	0.00713	0.11852762	0.01316858	7.933E-07	7.50E-04	3.56E-03	5.45E-03	4.93E-02	4.85E-02	1.42E-01
1995	494361.06	3859451.99	0.01128	0.00701	0.00746	0.01395	0.008	0.044	0.0069	0.00701	0.11769292	0.012946949	7.766E-07	7.35E-04	3.54E-03	6.20E-03	4.85E-02	4.77E-02	1.42E-01
1996	494411.06	3859451.99	0.01121	0.00686	0.00726	0.01357	0.007	0.05	0.0067	0.00686	0.11696255	0.01266991	7.558E-07	7.15E-04	3.50E-03	6.99E-03	4.75E-02	4.66E-02	1.42E-01
1997	494461.06	3859451.99	0.01111	0.00679	0.00717	0.01341	0.007	0.055	0.0067	0.00679	0.11591918	0.012540625	7.464E-07	7.06E-04	3.50E-03	7.69E-03	4.71E-02	4.62E-02	1.41E-01
1998	494511.06	3859451.99	0.01102	0.0067	0.00704	0.01318	0.007	0.059	0.0066	0.0067	0.11498014	0.012374402	7.329E-07	6.94E-04	3.48E-03	8.35E-03	4.65E-02	4.56E-02	1.41E-01
1999	494561.06	3859451.99	0.01093	0.00662	0.00693	0.01298	0.007	0.066	0.0065	0.00662	0.1140411	0.012226648	7.215E-07	6.84E-04	3.47E-03	9.28E-03	4.59E-02	4.50E-02	1.41E-01
2000	494611.06	3859451.99	0.01084	0.00657	0.00685	0.01285	0.007	0.074	0.0064	0.00657	0.11310206	0.012134302	7.131E-07	6.77E-04	3.46E-03	1.05E-02	4.56E-02	4.47E-02	1.41E-01
2001	494661.06	3859451.99	0.01075	0.00647	0.00672	0.01262	0.007	0.082	0.0064	0.00647	0.11216302	0.011949609	6.996E-07	6.65E-04	3.44E-03	1.16E-02	4.50E-02	4.40E-02	1.41E-01
2002	494711.06	3859451.99	0.01065	0.00638	0.00659	0.01238	0.007	0.093	0.0063	0.00638	0.11111964	0.011783386	6.861E-07	6.52E-04	3.41E-03	1.31E-02	4.44E-02	4.34E-02	1.41E-01
2003	494761.06	3859451.99	0.01055	0.0063	0.00648	0.01219	0.007	0.112	0.0062	0.0063	0.11007627	0.011635632	6.746E-07	6.42E-04	3.39E-03	1.57E-02	4.38E-02	4.28E-02	1.42E-01
2004	494811.06	3859451.99	0.01045	0.00618	0.00634	0.01191	0.007	0.163	0.0061	0.00618	0.10903289	0.011414001	6.6E-07	6.27E-04	3.35E-03	2.29E-02	4.30E-02	4.20E-02	1.48E-01
2005	494861.06	3859451.99	0.01035	0.00609	0.00619	0.01168	0.007	0.203	0.006	0.00609	0.10798951	0.011247777	6.444E-07	6.15E-04	3.32E-03	2.86E-02	4.24E-02	4.14E-02	1.53E-01
2006	494911.06	3859451.99	0.01026	0.00601	0.00609	0.01151	0.007	0.213	0.0059	0.00601	0.10705047	0.011100023	6.34E-07	6.06E-04	3.30E-03	3.00E-02	4.19E-02	4.09E-02	1.53E-01
2007	494961.06	3859451.99	0.01017	0.00595	0.00602	0.01139	0.007	0.147	0.0059	0.00595	0.10611143	0.010989208	6.267E-07	6.00E-04	3.29E-03	2.07E-02	4.15E-02	4.05E-02	1.43E-01
2008	495011.06	3859451.99	0.01008	0.0059	0.00594	0.01125	0.007	0.114	0.0058	0.0059	0.10517239	0.010896861	6.184E-07	5.93E-04	3.28E-03	1.60E-02	4.12E-02	4.01E-02	1.37E-01
2009	495061.06	3859451.99	0.01	0.00584	0.00586	0.01111	0.007	0.093	0.0058	0.00584	0.10433769	0.010786046	6.101E-07	5.85E-04	3.26E-03	1.31E-02	4.08E-02	3.97E-02	1.33E-01
2010	495111.06	3859451.99	0.00991	0.00578	0.00579	0.01098	0.007	0.079	0.0057	0.00578	0.10339865	0.01067523	6.028E-07	5.78E-04	3.25E-03	1.11E-02	4.04E-02	3.93E-02	1.30E-01
2011	495161.06	3859451.99	0.00984	0.00574	0.00573	0.0109	0.007	0.069	0.0057	0.00574	0.10266829	0.010601353	5.965E-07	5.74E-04	3.24E-03	9.77E-03	4.02E-02	3.90E-02	1.28E-01
2012	495211.06	3859451.99	0.00976	0.00571	0.00569	0.01084	0.007	0.062	0.0056	0.00571	0.10183359	0.010545946	5.924E-07	5.71E-04	3.25E-03	8.77E-03	4.00E-02	3.88E-02	1.26E-01
2013	495261.06	3859451.99	0.00969	0.00568	0.00565	0.01077	0.007	0.057	0.0056	0.00568	0.10110322	0.010490538	5.882E-07	5.67E-04	3.25E-03	7.99E-03	3.97E-02	3.86E-02	1.25E-01
2014	495311.06	3859451.99	0.00961	0.00564	0.00559	0.01066	0.007	0.052	0.0056	0.00564	0.10026852	0.010416661	5.82E-07	5.62E-04	3.24E-03	7.34E-03	3.95E-02	3.84E-02	1.23E-01
2015	495361.06	3859451.99	0.00953	0.0056	0.00553	0.01057	0.007	0.048	0.0055	0.0056	0.09943382	0.010342784	5.757E-07	5.57E-04	3.24E-03	6.82E-03	3.92E-02	3.81E-02	1.21E-01
2016	495411.06	3859451.99	0.00945	0.00555	0.00547	0.01046	0.007	0.045	0.0055	0.00555	0.09859912	0.010250437	5.695E-07	5.51E-04	3.23E-03	6.38E-03	3.89E-02	3.77E-02	1.20E-01
2017	495461.06	3859451.99	0.00938	0.00551	0.00542	0.01037	0.007	0.043	0.0055	0.00551	0.09786876	0.01017656	5.643E-07	5.46E-04	3.22E-03	6.03E-03	3.86E-02	3.75E-02	1.19E-01
2018	495511.06	3859451.99	0.0093	0.00544	0.00533	0.0102	0.007	0.041	0.0054	0.00544	0.09703405	0.010047276	5.549E-07	5.37E-04	3.19E-03	5.70E-03	3.82E-02	3.70E-02	1.18E-01
2019	495561.06	3859451.99	0.00922	0.00539	0.00526	0.01009	0.007	0.039	0.0053	0.00539	0.09619935	0.009954929	5.476E-07	5.31E-04	3.17E-03	5.43E-03	3.78E-02	3.67E-02	1.16E-01
2020	495611.06	3859451.99	0.00915	0.00534	0.0052	0.00997	0.007	0.037	0.0053	0.00534	0.09546899	0.009862583	5.414E-07	5.25E-04	3.16E-03	5.18E-03	3.75E-02	3.63E-02	1.15E-01
2021	495661.06	3859451.99	0.00907	0.0053	0.00514	0.00987	0.007	0.035	0.0053	0.0053	0.09463429	0.009788706	5.351E-07	5.20E-04	3.14E-03	4.96E-03	3.72E-02	3.60E-02	1.14E-01
2022	494311.06	3859501.99	0.01121	0.00729	0.00752	0.01431	0.007	0.046	0.0071	0.00729	0.11696255	0.013464088	7.829E-07	7.54E-04	3.46E-03	6.46E-03	5.04E-02	4.96E-02	1.42E-01
2023	494361.06	3859501.99	0.01113	0.00717	0.00736	0.01401	0.007	0.058	0.007	0.00717	0.11612785	0.013242457	7.662E-07	7.38E-04	3.45E-03	8.18E-03	4.96E-02	4.88E-02	1.43E-01
2024	494411.06	3859501.99	0.01106	0.00698	0.00713	0.01355	0.007	0.075	0.0068	0.00698	0.11539749	0.012891541	7.423E-07	7.14E-04	3.40E-03	1.06E-02	4.83E-02	4.75E-02	1.44E-01
2025	494461.06	3859501.99	0.01096	0.00696	0.00709	0.01349	0.007	0.096	0.0068	0.00696	0.11435411	0.012854603	7.381E-07	7.11E-04	3.41E-03	1.35E-02	4.82E-02	4.73E-02	1.46E-01
2026	494511.06	3859501.99	0.01088	0.00685	0.00695	0.01322	0.007	0.115	0.0067	0.00685	0.11351941	0.012651441	7.235E-07	6.96E-04	3.39E-03	1.61E-02	4.75E-02	4.66E-02	1.47E-01

2027	494561.06	3859501.99	0.01079	0.00676	0.00684	0.013	0.007	0.137	0.0066	0.00676	0.11258037	0.012485218	7.121E-07	6.85E-04	3.38E-03	1.92E-02	4.68E-02	4.60E-02	1.49E-01
2028	494611.06	3859501.99	0.01069	0.00674	0.0068	0.01295	0.007	0.159	0.0066	0.00674	0.11153699	0.012448279	7.079E-07	6.82E-04	3.39E-03	2.24E-02	4.68E-02	4.58E-02	1.51E-01
2029	494661.06	3859501.99	0.01061	0.00663	0.00666	0.01269	0.007	0.171	0.0065	0.00663	0.11070229	0.012245117	6.933E-07	6.68E-04	3.36E-03	2.40E-02	4.60E-02	4.51E-02	1.52E-01
2030	494711.06	3859501.99	0.01054	0.0065	0.0065	0.01238	0.007	0.179	0.0064	0.0065	0.10997193	0.012005017	6.767E-07	6.52E-04	3.33E-03	2.51E-02	4.51E-02	4.42E-02	1.52E-01
2031	494761.06	3859501.99	0.01045	0.00646	0.00645	0.01229	0.007	0.197	0.0063	0.00646	0.10903289	0.01193114	6.715E-07	6.47E-04	3.33E-03	2.77E-02	4.49E-02	4.39E-02	1.54E-01
2032	494811.06	3859501.99	0.01034	0.00631	0.00626	0.01193	0.007	0.231	0.0062	0.00631	0.10788517	0.011654101	6.517E-07	6.28E-04	3.28E-03	3.25E-02	4.39E-02	4.29E-02	1.57E-01
2033	494861.06	3859501.99	0.01025	0.00624	0.00617	0.01176	0.007	0.26	0.0061	0.00624	0.10694613	0.011524816	6.423E-07	6.19E-04	3.27E-03	3.65E-02	4.34E-02	4.24E-02	1.60E-01
2034	494911.06	3859501.99	0.01016	0.00619	0.0061	0.01165	0.007	0.254	0.0061	0.00619	0.1060071	0.01143247	6.35E-07	6.14E-04	3.26E-03	3.58E-02	4.31E-02	4.21E-02	1.58E-01
2035	494961.06	3859501.99	0.01007	0.0061	0.006	0.01145	0.007	0.169	0.006	0.0061	0.10506806	0.011266247	6.246E-07	6.03E-04	3.24E-03	2.37E-02	4.25E-02	4.15E-02	1.45E-01
2036	495011.06	3859501.99	0.00999	0.00606	0.00594	0.01134	0.007	0.124	0.006	0.00606	0.10423335	0.01119237	6.184E-07	5.97E-04	3.24E-03	1.75E-02	4.22E-02	4.12E-02	1.38E-01
2037	495061.06	3859501.99	0.00991	0.00601	0.00588	0.01124	0.007	0.098	0.0059	0.00601	0.10339865	0.011100023	6.121E-07	5.92E-04	3.23E-03	1.38E-02	4.19E-02	4.09E-02	1.33E-01
2038	495111.06	3859501.99	0.00982	0.00593	0.00576	0.01106	0.007	0.08	0.0058	0.00593	0.10245961	0.010952269	5.997E-07	5.83E-04	3.21E-03	1.13E-02	4.14E-02	4.03E-02	1.30E-01
2039	495161.06	3859501.99	0.00974	0.00589	0.00571	0.01097	0.007	0.069	0.0058	0.00589	0.10162491	0.010878392	5.944E-07	5.78E-04	3.20E-03	9.73E-03	4.11E-02	4.01E-02	1.27E-01
2040	495211.06	3859501.99	0.00966	0.00586	0.00567	0.01091	0.007	0.061	0.0058	0.00586	0.10079021	0.010822984	5.903E-07	5.75E-04	3.21E-03	8.60E-03	4.10E-02	3.98E-02	1.25E-01
2041	495261.06	3859501.99	0.00959	0.00582	0.00562	0.01082	0.007	0.055	0.0057	0.00582	0.10005985	0.010749107	5.851E-07	5.70E-04	3.20E-03	7.73E-03	4.07E-02	3.96E-02	1.23E-01
2042	495311.06	3859501.99	0.00951	0.00578	0.00557	0.01074	0.007	0.05	0.0057	0.00578	0.09922515	0.01067523	5.799E-07	5.66E-04	3.20E-03	7.07E-03	4.05E-02	3.93E-02	1.22E-01
2043	495361.06	3859501.99	0.00944	0.00574	0.00551	0.01064	0.007	0.046	0.0057	0.00574	0.09849478	0.010601353	5.736E-07	5.60E-04	3.19E-03	6.53E-03	4.01E-02	3.90E-02	1.20E-01
2044	495411.06	3859501.99	0.00936	0.00569	0.00546	0.01054	0.007	0.043	0.0056	0.00569	0.09766008	0.010509007	5.684E-07	5.55E-04	3.19E-03	6.09E-03	3.98E-02	3.87E-02	1.19E-01
2045	495461.06	3859501.99	0.00929	0.00565	0.0054	0.01043	0.007	0.041	0.0056	0.00565	0.09692972	0.01043513	5.622E-07	5.49E-04	3.18E-03	5.74E-03	3.95E-02	3.84E-02	1.18E-01
2046	495511.06	3859501.99	0.00921	0.00554	0.00528	0.01021	0.007	0.038	0.0055	0.00554	0.09609501	0.010231968	5.497E-07	5.38E-04	3.14E-03	5.39E-03	3.88E-02	3.77E-02	1.17E-01
2047	495561.06	3859501.99	0.00914	0.00553	0.00525	0.01016	0.007	0.037	0.0055	0.00553	0.09536465	0.010213499	5.466E-07	5.35E-04	3.14E-03	5.14E-03	3.88E-02	3.76E-02	1.16E-01
2048	495611.06	3859501.99	0.00906	0.00547	0.00519	0.01004	0.007	0.035	0.0054	0.00547	0.09452995	0.010102683	5.403E-07	5.29E-04	3.12E-03	4.90E-03	3.84E-02	3.72E-02	1.14E-01
2049	495661.06	3859501.99	0.00899	0.00542	0.00512	0.00991	0.007	0.033	0.0054	0.00542	0.09379959	0.010010337	5.33E-07	5.22E-04	3.10E-03	4.69E-03	3.80E-02	3.69E-02	1.13E-01
2050	494311.06	3859551.99	0.01104	0.00745	0.0074	0.01433	0.007	0.052	0.0073	0.00745	0.11518881	0.013759596	7.704E-07	7.55E-04	3.36E-03	7.32E-03	5.15E-02	5.07E-02	1.41E-01
2051	494361.06	3859551.99	0.01097	0.00728	0.00722	0.01397	0.007	0.073	0.0071	0.00728	0.11445845	0.013445619	7.516E-07	7.36E-04	3.34E-03	1.03E-02	5.03E-02	4.95E-02	1.43E-01
2052	494411.06	3859551.99	0.01091	0.0071	0.007	0.0135	0.007	0.131	0.0069	0.0071	0.11383242	0.013113172	7.287E-07	7.11E-04	3.31E-03	1.84E-02	4.91E-02	4.83E-02	1.50E-01
2053	494461.06	3859551.99	0.0108	0.00711	0.00699	0.0135	0.007	0.258	0.007	0.00711	0.11268471	0.013131642	7.277E-07	7.11E-04	3.32E-03	3.63E-02	4.92E-02	4.83E-02	1.67E-01
2054	494511.06	3859551.99	0.01072	0.007	0.00686	0.01324	0.007	0.573	0.0069	0.007	0.11185001	0.01292848	7.142E-07	6.97E-04	3.31E-03	8.05E-02	4.85E-02	4.76E-02	2.10E-01
2055	494561.06	3859551.99	0.01063	0.00692	0.00676	0.01304	0.007	0.565	0.0068	0.00692	0.11091097	0.012780726	7.038E-07	6.87E-04	3.30E-03	7.95E-02	4.79E-02	4.71E-02	2.08E-01
2056	494611.06	3859551.99	0.01054	0.00686	0.00669	0.0129	0.007	0.574	0.0067	0.00686	0.10997193	0.01266991	6.965E-07	6.79E-04	3.29E-03	8.08E-02	4.75E-02	4.66E-02	2.08E-01
2057	494661.06	3859551.99	0.01046	0.00679	0.0066	0.01273	0.007	0.567	0.0066	0.00679	0.10913723	0.012540625	6.871E-07	6.71E-04	3.29E-03	7.98E-02	4.70E-02	4.62E-02	2.06E-01
2058	494711.06	3859551.99	0.0104	0.0066	0.00638	0.0123	0.007	0.562	0.0065	0.0066	0.1085112	0.012189709	6.642E-07	6.48E-04	3.24E-03	7.91E-02	4.58E-02	4.49E-02	2.05E-01
2059	494761.06	3859551.99	0.0103	0.00661	0.00638	0.01232	0.007	0.597	0.0065	0.00661	0.10746782	0.012208179	6.642E-07	6.49E-04	3.25E-03	8.40E-02	4.59E-02	4.49E-02	2.09E-01
2060	494811.06	3859551.99	0.01023	0.00648	0.00623	0.01201	0.007	0.593	0.0064	0.00648	0.10673746	0.011968078	6.486E-07	6.33E-04	3.22E-03	8.34E-02	4.50E-02	4.41E-02	2.07E-01
2061	494861.06	3859551.99	0.01014	0.00641	0.00614	0.01185	0.007	0.496	0.0063	0.00641	0.10579842	0.011838794	6.392E-07	6.24E-04	3.21E-03	6.97E-02	4.45E-02	4.36E-02	1.92E-01
2062	494911.06	3859551.99	0.01005	0.00633	0.00604	0.01166	0.007	0.256	0.0062	0.00633	0.10485938	0.01169104	6.288E-07	6.14E-04	3.19E-03	3.59E-02	4.40E-02	4.30E-02	1.57E-01
2063	494961.06	3859551.99	0.00996	0.00628	0.00598	0.01155	0.007	0.155	0.0062	0.00628	0.10392034	0.011598693	6.226E-07	6.08E-04	3.19E-03	2.17E-02	4.37E-02	4.27E-02	1.42E-01
2064	495011.06	3859551.99	0.00988	0.00624	0.00593	0.01146	0.007	0.112	0.0061	0.00624	0.10308564	0.011524816	6.173E-07	6.04E-04	3.19E-03	1.57E-02	4.34E-02	4.24E-02	1.35E-01
2065	495061.06	3859551.99	0.0098	0.00618	0.00586	0.01132	0.007	0.088	0.0061	0.00618	0.10225094	0.011414001	6.101E-07	5.96E-04	3.18E-03	1.24E-02	4.30E-02	4.20E-02	1.31E-01
2066	495111.06	3859551.99	0.00971	0.0061	0.00577	0.01116	0.007	0.073	0.006	0.0061	0.1013119	0.011266247	6.007E-07	5.88E-04	3.17E-03	1.03E-02	4.25E-02	4.15E-02	1.28E-01
2067	495161.06	3859551.99	0.00964	0.00606	0.00572	0.01107	0.007	0.064	0.006	0.00606	0.10058154	0.01119237	5.955E-07	5.83E-04	3.16E-03	8.93E-03	4.22E-02	4.12E-02	1.25E-01
2068	495211.06	3859551.99	0.00956	0.00603	0.00568	0.01101	0.007	0.057	0.0059	0.00603	0.09974683	0.011136962	5.913E-07	5.80E-04	3.17E-03	7.96E-03	4.21E-02	4.10E-02	1.24E-01
2069	495261.06	3859551.99	0.00948	0.00597	0.00561	0.01088	0.007	0.051	0.0059	0.00597	0.09891213	0.011026146	5.84E-07	5.73E-04	3.16E-03	7.19E-03	4.17E-02	4.06E-02	1.22E-01
2070	495311.06	3859551.99	0.00941	0.00592	0.00555	0.01077	0.007	0.047	0.0058	0.00592	0.09818177	0.0109338	5.778E-07	5.67E-04	3.15E-03	6.60E-03	4.13E-02	4.03E-02	1.20E-01
2071	495361.06	3859551.99	0.00934	0.00588	0.0055	0.01068	0.007	0.044	0.0058	0.00588	0.0974514	0.010859923	5.726E-07	5.63E-04	3.14E-03	6.13E-03	4.10E-02	4.00E-02	1.19E-01
2072	495411.06	3859551.99	0.00926	0.00584	0.00546	0.0106	0.007	0.041	0.0058	0.00584	0.0966167	0.010786046	5.684E-07	5.58E-04	3.14E-03	5.76E-03	4.08E-02	3.97E-02	1.18E-01
2073	495461.06	3859551.99	0.00919	0.00577	0.00537	0.01044	0.007	0.039	0.0057	0.00577	0.09588634	0.010656761	5.59E-07	5.50E-04	3.12E-03	5.43E-03	4.03E-02	3.92E-02	1.17E-01
2074	495511.06	3859551.99	0.0091	0.0057	0.00527	0.01028	0.007	0.036	0.0056	0.0057	0.0949473	0.010527476	5.486E-07	5.41E-04	3.10E-03	5.13E-03	3.98E-02	3.88E-02	1.15E-01
2075	495561.06	3859551.99	0.00903	0.00565	0.00522	0.01018	0.007	0.035	0.0056	0.00565	0.09421694	0.01043513	5.434E-07	5.36E-04	3.09E-03	4.89E-03	3.95E-02	3.84E-02	1.14E-01
2076	495611.06	3859551.99	0.00896	0.0056	0.00516	0.01007	0.007	0.033	0.0055	0.0056	0.09348657	0.010342784	5.372E-07	5.30E-04	3.08E-03	4.67E-03	3.92E-02	3.81E-02	1.13E-01
2077	495661.06	3859551.99	0.00889	0.00554	0.00509	0.00994	0.007	0.032	0.0055	0.00554	0.09275621	0.010231968	5.299E-07	5.24E-04	3.07E-03	4.48E-03	3.88E-02	3.77E-02	1.12E-01
2078	494311.06	3859601.99	0.01087	0.00763	0.00729	0.01437	0.007	0.056	0.0075	0.00763	0.11341507	0.014092043	7.589E-07	7.57E-04	3.26E-03	7.84E-03	5.28E-02	5.19E-02	1.40E-01
2079	494361.06	3859601.99	0.01082	0.00739	0.00705	0.01385	0.007	0.079	0.0072	0.00739	0.11289338	0.013648781	7.339E-07	7.30E-04	3.24E-03	1.12E-02	5.12E-02	5.03E-02	1.43E-01
2080	494411.06	3859601.99	0.01074	0.00727	0.0069	0.01355	0.007	0.143	0.0071	0.00727	0.11205868	0.01342715	7.183E-07	7.14E-04	3.22E-03	2.01E-02	5.03E-02	4.94E-02	1.50E-01
2081	494461.06	3859601.99	0.01063	0.00727	0.00689	0.01351	0.007	0.269	0.0071	0.00727	0.11091097	0.01342715	7.173E-07	7.12E-04	3.23E-03	3.78E-02	5.03E-02	4.94E-02	1.67E-01
2082	494511.06	3859601.99	0.01056	0.00712	0.00673	0.01317	0.007	0.232	0.007	0.00712	0.1101806	0.013150111	7.006E-07	6.94E-04	3.21E-03	3.26E-02	4.93E-02	4.84E-02	1.61E-01
2083	494561.06	3859601.99	0.01046	0.00709	0.00669	0.0131	0.007	0.187	0.0069	0.00709	0.10913723	0.013094703	6.965E-07	6.90E-04	3.22E-03	2.63E-02	4.91E-02	4.82E-02	1.53E-01
2084	494611.06	3859601.99	0.01037	0.00704	0.00663	0.01297	0.007	0.17	0.0069	0.00704	0.10819819	0.013002357	6.902E-07	6.83E-04	3.22E-03	2.39E-02	4.87E-02	4.79E-02	1.50E-01

2085	494661.06	3859601.99	0.0103	0.00687	0.00646	0.01262	0.007	0.164	0.0067	0.00687	0.10746782	0.012688379	6.725E-07	6.65E-04	3.19E-03	2.31E-02	4.77E-02	4.67E-02	1.48E-01
2086	494711.06	3859601.99	0.01024	0.00675	0.00631	0.01233	0.007	0.159	0.0066	0.00675	0.1068418	0.012466748	6.569E-07	6.49E-04	3.17E-03	2.24E-02	4.68E-02	4.59E-02	1.46E-01
2087	494761.06	3859601.99	0.01013	0.0068	0.00635	0.0124	0.007	0.151	0.0067	0.0068	0.10569408	0.012559095	6.611E-07	6.53E-04	3.19E-03	2.13E-02	4.71E-02	4.62E-02	1.44E-01
2088	494811.06	3859601.99	0.01007	0.00665	0.00619	0.01208	0.007	0.146	0.0065	0.00665	0.10506806	0.012282056	6.444E-07	6.36E-04	3.16E-03	2.05E-02	4.61E-02	4.52E-02	1.43E-01
2089	494861.06	3859601.99	0.00999	0.00659	0.00612	0.01194	0.007	0.128	0.0065	0.00659	0.10423335	0.01217124	6.371E-07	6.29E-04	3.15E-03	1.81E-02	4.57E-02	4.48E-02	1.39E-01
2090	494911.06	3859601.99	0.00992	0.00648	0.006	0.0117	0.007	0.109	0.0064	0.00648	0.10350299	0.011968078	6.246E-07	6.16E-04	3.13E-03	1.53E-02	4.50E-02	4.41E-02	1.35E-01
2091	494961.06	3859601.99	0.00983	0.00647	0.00599	0.01168	0.007	0.093	0.0064	0.00647	0.10256395	0.011949609	6.236E-07	6.15E-04	3.14E-03	1.31E-02	4.50E-02	4.40E-02	1.32E-01
2092	495011.06	3859601.99	0.00976	0.00636	0.00586	0.01144	0.007	0.08	0.0062	0.00636	0.10183359	0.011746447	6.101E-07	6.03E-04	3.12E-03	1.12E-02	4.42E-02	4.32E-02	1.29E-01
2093	495061.06	3859601.99	0.00968	0.00633	0.00583	0.01138	0.007	0.069	0.0062	0.00633	0.10099889	0.01169104	6.069E-07	5.99E-04	3.12E-03	9.77E-03	4.41E-02	4.30E-02	1.27E-01
2094	495111.06	3859601.99	0.0096	0.00625	0.00574	0.0112	0.007	0.061	0.0061	0.00625	0.10016418	0.011543285	5.976E-07	5.90E-04	3.11E-03	8.64E-03	4.35E-02	4.25E-02	1.25E-01
2095	495161.06	3859601.99	0.00953	0.00622	0.0057	0.01112	0.007	0.055	0.0061	0.00622	0.09943382	0.011487878	5.934E-07	5.86E-04	3.11E-03	7.79E-03	4.33E-02	4.23E-02	1.23E-01
2096	495211.06	3859601.99	0.00945	0.00617	0.00564	0.01101	0.007	0.051	0.0061	0.00617	0.09859912	0.011395531	5.872E-07	5.80E-04	3.10E-03	7.11E-03	4.29E-02	4.20E-02	1.22E-01
2097	495261.06	3859601.99	0.00937	0.00613	0.00559	0.01092	0.007	0.047	0.006	0.00613	0.09776442	0.011321654	5.82E-07	5.75E-04	3.10E-03	6.56E-03	4.27E-02	4.17E-02	1.20E-01
2098	495311.06	3859601.99	0.0093	0.00609	0.00555	0.01084	0.007	0.044	0.006	0.00609	0.09703405	0.011247777	5.778E-07	5.71E-04	3.10E-03	6.12E-03	4.24E-02	4.14E-02	1.19E-01
2099	495361.06	3859601.99	0.00923	0.00604	0.00549	0.01072	0.007	0.041	0.0059	0.00604	0.09630369	0.011155431	5.715E-07	5.65E-04	3.09E-03	5.75E-03	4.21E-02	4.11E-02	1.18E-01
2100	495411.06	3859601.99	0.00916	0.006	0.00544	0.01063	0.007	0.039	0.0059	0.006	0.09557333	0.011081554	5.663E-07	5.60E-04	3.09E-03	5.44E-03	4.18E-02	4.08E-02	1.17E-01
2101	495461.06	3859601.99	0.00908	0.00591	0.00534	0.01045	0.007	0.037	0.0058	0.00591	0.09473862	0.010915331	5.559E-07	5.50E-04	3.07E-03	5.15E-03	4.12E-02	4.02E-02	1.15E-01
2102	495511.06	3859601.99	0.009	0.00583	0.00526	0.01028	0.007	0.035	0.0057	0.00583	0.09390392	0.010767577	5.476E-07	5.41E-04	3.05E-03	4.89E-03	4.07E-02	3.96E-02	1.14E-01
2103	495561.06	3859601.99	0.00894	0.0058	0.00523	0.01023	0.007	0.033	0.0057	0.0058	0.0932779	0.010712169	5.445E-07	5.39E-04	3.05E-03	4.69E-03	4.05E-02	3.94E-02	1.13E-01
2104	495611.06	3859601.99	0.00886	0.00571	0.00513	0.01004	0.006	0.032	0.0056	0.00571	0.0924432	0.010545946	5.341E-07	5.29E-04	3.02E-03	4.47E-03	4.00E-02	3.88E-02	1.12E-01
2105	495661.06	3859601.99	0.0088	0.00568	0.00509	0.00996	0.006	0.031	0.0056	0.00568	0.09181717	0.010490538	5.299E-07	5.25E-04	3.02E-03	4.31E-03	3.97E-02	3.86E-02	1.11E-01
2106	494311.06	3859651.99	0.0107	0.00776	0.0071	0.01426	0.007	0.057	0.0076	0.00776	0.11164133	0.014332143	7.392E-07	7.51E-04	3.15E-03	7.96E-03	5.36E-02	5.28E-02	1.39E-01
2107	494361.06	3859651.99	0.01065	0.00754	0.00689	0.01379	0.007	0.079	0.0074	0.00754	0.11111964	0.01392582	7.173E-07	7.26E-04	3.13E-03	1.11E-02	5.21E-02	5.13E-02	1.41E-01
2108	494411.06	3859651.99	0.01056	0.00745	0.0068	0.01357	0.007	0.138	0.0073	0.00745	0.1101806	0.013759596	7.079E-07	7.15E-04	3.13E-03	1.95E-02	5.15E-02	5.07E-02	1.48E-01
2109	494461.06	3859651.99	0.01045	0.00743	0.00678	0.01352	0.007	0.254	0.0073	0.00743	0.10903289	0.013722658	7.058E-07	7.12E-04	3.14E-03	3.57E-02	5.14E-02	5.05E-02	1.63E-01
2110	494511.06	3859651.99	0.01037	0.00734	0.00668	0.01329	0.007	0.201	0.0072	0.00734	0.10819819	0.013556434	6.954E-07	7.00E-04	3.14E-03	2.82E-02	5.08E-02	4.99E-02	1.55E-01
2111	494561.06	3859651.99	0.01028	0.00727	0.00661	0.01313	0.007	0.142	0.0071	0.00727	0.10725915	0.01342715	6.881E-07	6.92E-04	3.13E-03	1.99E-02	5.04E-02	4.94E-02	1.45E-01
2112	494611.06	3859651.99	0.0102	0.0072	0.00654	0.01297	0.007	0.115	0.007	0.0072	0.10642445	0.013297865	6.809E-07	6.83E-04	3.13E-03	1.62E-02	4.99E-02	4.90E-02	1.41E-01
2113	494661.06	3859651.99	0.01014	0.007	0.00635	0.01258	0.007	0.1	0.0069	0.007	0.10579842	0.01292848	6.611E-07	6.63E-04	3.11E-03	1.41E-02	4.85E-02	4.76E-02	1.38E-01
2114	494711.06	3859651.99	0.01005	0.00694	0.00629	0.01244	0.007	0.092	0.0068	0.00694	0.10485938	0.012817664	6.548E-07	6.55E-04	3.10E-03	1.30E-02	4.81E-02	4.72E-02	1.35E-01
2115	494761.06	3859651.99	0.00997	0.00692	0.00625	0.01234	0.007	0.086	0.0068	0.00692	0.10402468	0.012780726	6.507E-07	6.50E-04	3.10E-03	1.21E-02	4.80E-02	4.71E-02	1.34E-01
2116	494811.06	3859651.99	0.0099	0.00682	0.00614	0.01212	0.007	0.08	0.0067	0.00682	0.10329432	0.012596033	6.392E-07	6.38E-04	3.09E-03	1.13E-02	4.73E-02	4.64E-02	1.32E-01
2117	494861.06	3859651.99	0.00982	0.00676	0.00608	0.01199	0.007	0.074	0.0066	0.00676	0.10245961	0.012485218	6.33E-07	6.32E-04	3.09E-03	1.05E-02	4.69E-02	4.60E-02	1.30E-01
2118	494911.06	3859651.99	0.00974	0.00668	0.006	0.01182	0.007	0.068	0.0066	0.00668	0.10162491	0.012337463	6.246E-07	6.23E-04	3.08E-03	9.63E-03	4.64E-02	4.54E-02	1.28E-01
2119	494961.06	3859651.99	0.00967	0.00662	0.00593	0.01169	0.007	0.063	0.0065	0.00662	0.10089455	0.012226648	6.173E-07	6.16E-04	3.07E-03	8.91E-03	4.60E-02	4.50E-02	1.27E-01
2120	495011.06	3859651.99	0.00959	0.00656	0.00586	0.01154	0.007	0.059	0.0064	0.00656	0.10005985	0.012115832	6.101E-07	6.08E-04	3.07E-03	8.29E-03	4.56E-02	4.46E-02	1.25E-01
2121	495061.06	3859651.99	0.00951	0.00651	0.00581	0.01144	0.007	0.055	0.0064	0.00651	0.09922515	0.012023486	6.049E-07	6.03E-04	3.06E-03	7.73E-03	4.52E-02	4.43E-02	1.24E-01
2122	495111.06	3859651.99	0.00944	0.00644	0.00573	0.01128	0.007	0.051	0.0063	0.00644	0.09849478	0.011894201	5.965E-07	5.94E-04	3.05E-03	7.21E-03	4.47E-02	4.38E-02	1.22E-01
2123	495161.06	3859651.99	0.00937	0.00638	0.00567	0.01116	0.007	0.048	0.0063	0.00638	0.09776442	0.011783386	5.903E-07	5.88E-04	3.05E-03	6.75E-03	4.44E-02	4.34E-02	1.21E-01
2124	495211.06	3859651.99	0.0093	0.00634	0.00563	0.01106	0.007	0.045	0.0062	0.00634	0.09703405	0.011709509	5.861E-07	5.83E-04	3.05E-03	6.34E-03	4.41E-02	4.31E-02	1.20E-01
2125	495261.06	3859651.99	0.00923	0.00628	0.00557	0.01094	0.006	0.042	0.0062	0.00628	0.09630369	0.011598693	5.799E-07	5.76E-04	3.04E-03	5.97E-03	4.37E-02	4.27E-02	1.19E-01
2126	495311.06	3859651.99	0.00916	0.00623	0.00551	0.01084	0.006	0.04	0.0061	0.00623	0.09557333	0.011506347	5.736E-07	5.71E-04	3.04E-03	5.66E-03	4.34E-02	4.24E-02	1.17E-01
2127	495361.06	3859651.99	0.00909	0.00619	0.00547	0.01075	0.006	0.038	0.0061	0.00619	0.09484296	0.01143247	5.695E-07	5.66E-04	3.03E-03	5.38E-03	4.31E-02	4.21E-02	1.16E-01
2128	495411.06	3859651.99	0.00902	0.00614	0.00541	0.01063	0.006	0.037	0.006	0.00614	0.0941126	0.011340124	5.632E-07	5.60E-04	3.03E-03	5.13E-03	4.27E-02	4.18E-02	1.15E-01
2129	495461.06	3859651.99	0.00896	0.00605	0.00532	0.01046	0.006	0.035	0.006	0.00605	0.09348657	0.0111739	5.538E-07	5.51E-04	3.01E-03	4.89E-03	4.22E-02	4.11E-02	1.14E-01
2130	495511.06	3859651.99	0.00889	0.00598	0.00524	0.01029	0.006	0.033	0.0059	0.00598	0.09275621	0.011044616	5.455E-07	5.42E-04	3.00E-03	4.67E-03	4.17E-02	4.07E-02	1.13E-01
2131	495561.06	3859651.99	0.00882	0.00594	0.00519	0.01021	0.006	0.032	0.0058	0.00594	0.09202584	0.010970738	5.403E-07	5.38E-04	2.99E-03	4.49E-03	4.14E-02	4.04E-02	1.12E-01
2132	495611.06	3859651.99	0.00875	0.00588	0.00513	0.01009	0.006	0.031	0.0058	0.00588	0.09129548	0.010859923	5.341E-07	5.31E-04	2.98E-03	4.32E-03	4.10E-02	4.00E-02	1.11E-01
2133	495661.06	3859651.99	0.00868	0.00582	0.00507	0.00997	0.006	0.03	0.0057	0.00582	0.09056512	0.010749107	5.278E-07	5.25E-04	2.97E-03	4.16E-03	4.06E-02	3.96E-02	1.10E-01
2134	494311.06	3859701.99	0.01056	0.00774	0.0068	0.01388	0.006	0.056	0.0076	0.00774	0.1101806	0.014295205	7.079E-07	7.31E-04	3.03E-03	7.94E-03	5.36E-02	5.26E-02	1.37E-01
2135	494361.06	3859701.99	0.01048	0.00765	0.0067	0.01364	0.006	0.078	0.0075	0.00765	0.1093459	0.014128981	6.975E-07	7.18E-04	3.03E-03	1.09E-02	5.29E-02	5.20E-02	1.39E-01
2136	494411.06	3859701.99	0.01038	0.00759	0.00665	0.01349	0.006	0.135	0.0074	0.00759	0.10830252	0.014018166	6.923E-07	7.11E-04	3.03E-03	1.90E-02	5.25E-02	5.16E-02	1.46E-01
2137	494461.06	3859701.99	0.01026	0.00761	0.00666	0.01349	0.006	0.182	0.0074	0.00761	0.10705047	0.014055104	6.933E-07	7.11E-04	3.04E-03	2.56E-02	5.26E-02	5.17E-02	1.51E-01
2138	494511.06	3859701.99	0.01018	0.00752	0.00658	0.01329	0.006	0.195	0.0073	0.00752	0.10621577	0.013888881	6.85E-07	7.00E-04	3.04E-03	2.74E-02	5.20E-02	5.11E-02	1.52E-01
2139	494561.06	3859701.99	0.01009	0.00745	0.00652	0.01314	0.007	0.132	0.0073	0.00745	0.10527673	0.013759596	6.788E-07	6.92E-04	3.05E-03	1.86E-02	5.16E-02	5.07E-02	1.42E-01
2140	494611.06	3859701.99	0.01001	0.00739	0.00645	0.01298	0.007	0.103	0.0072	0.00739	0.10444203	0.013648781	6.715E-07	6.84E-04	3.05E-03	1.45E-02	5.12E-02	5.03E-02	1.37E-01
2141	494661.06	3859701.99	0.00996	0.00719	0.00626	0.01257	0.006	0.086	0.007	0.00719	0.10392034	0.013279396	6.517E-07	6.62E-04	3.02E-03	1.21E-02	4.98E-02	4.89E-02	1.34E-01
2142	494711.06	3859701.99	0.00987	0.00716	0.00623	0.01249	0.006	0.077	0.007	0.00716	0.1029813	0.013223988	6.486E-07	6.58E-04	3.03E-03	1.08E-02	4.96E-02	4.87E-02	1.32E-01

2143	494761.06	3859701.99	0.0098	0.00706	0.00614	0.01228	0.006	0.07	0.0069	0.00706	0.10225094	0.013039295	6.392E-07	6.47E-04	3.02E-03	9.78E-03	4.90E-02	4.80E-02	1.30E-01
2144	494811.06	3859701.99	0.00973	0.00696	0.00605	0.01207	0.006	0.064	0.0068	0.00696	0.10152057	0.012854603	6.298E-07	6.36E-04	3.01E-03	8.96E-03	4.83E-02	4.73E-02	1.28E-01
2145	494861.06	3859701.99	0.00964	0.00694	0.00603	0.01201	0.006	0.059	0.0068	0.00694	0.10058154	0.012817664	6.278E-07	6.33E-04	3.02E-03	8.36E-03	4.81E-02	4.72E-02	1.26E-01
2146	494911.06	3859701.99	0.00957	0.00686	0.00595	0.01184	0.006	0.055	0.0067	0.00686	0.09985117	0.01266991	6.194E-07	6.24E-04	3.01E-03	7.80E-03	4.76E-02	4.66E-02	1.25E-01
2147	494961.06	3859701.99	0.00949	0.00679	0.00588	0.01168	0.006	0.052	0.0067	0.00679	0.09901647	0.012540625	6.121E-07	6.15E-04	3.00E-03	7.35E-03	4.71E-02	4.62E-02	1.23E-01
2148	495011.06	3859701.99	0.00942	0.00674	0.00583	0.01158	0.006	0.05	0.0066	0.00674	0.09828611	0.012448279	6.069E-07	6.10E-04	3.00E-03	6.97E-03	4.68E-02	4.58E-02	1.22E-01
2149	495061.06	3859701.99	0.00934	0.00668	0.00577	0.01144	0.006	0.047	0.0065	0.00668	0.0974514	0.012337463	6.007E-07	6.03E-04	3.00E-03	6.62E-03	4.63E-02	4.54E-02	1.21E-01
2150	495111.06	3859701.99	0.00927	0.00661	0.0057	0.01131	0.006	0.045	0.0065	0.00661	0.09672104	0.012208179	5.934E-07	5.96E-04	2.99E-03	6.30E-03	4.59E-02	4.49E-02	1.20E-01
2151	495161.06	3859701.99	0.00921	0.00654	0.00564	0.01117	0.006	0.043	0.0064	0.00654	0.09609501	0.012078894	5.872E-07	5.88E-04	2.98E-03	6.01E-03	4.54E-02	4.45E-02	1.19E-01
2152	495211.06	3859701.99	0.00914	0.00647	0.00557	0.01102	0.006	0.041	0.0064	0.00647	0.09536465	0.011949609	5.799E-07	5.80E-04	2.97E-03	5.73E-03	4.50E-02	4.40E-02	1.18E-01
2153	495261.06	3859701.99	0.00907	0.00645	0.00554	0.01096	0.006	0.039	0.0063	0.00645	0.09463429	0.011912671	5.767E-07	5.77E-04	2.98E-03	5.50E-03	4.48E-02	4.39E-02	1.17E-01
2154	495311.06	3859701.99	0.009	0.00638	0.00547	0.01083	0.006	0.037	0.0063	0.00638	0.09390392	0.011783386	5.695E-07	5.70E-04	2.97E-03	5.27E-03	4.44E-02	4.34E-02	1.15E-01
2155	495361.06	3859701.99	0.00894	0.00632	0.00542	0.01071	0.006	0.036	0.0062	0.00632	0.0932779	0.01167257	5.643E-07	5.64E-04	2.96E-03	5.06E-03	4.40E-02	4.30E-02	1.15E-01
2156	495411.06	3859701.99	0.00888	0.00625	0.00534	0.01056	0.006	0.034	0.0061	0.00625	0.09265187	0.011543285	5.559E-07	5.56E-04	2.95E-03	4.85E-03	4.35E-02	4.25E-02	1.14E-01
2157	495461.06	3859701.99	0.00881	0.00619	0.00528	0.01043	0.006	0.033	0.0061	0.00619	0.09192151	0.01143247	5.497E-07	5.49E-04	2.94E-03	4.66E-03	4.31E-02	4.21E-02	1.12E-01
2158	495511.06	3859701.99	0.00876	0.00608	0.00518	0.01023	0.006	0.032	0.006	0.00608	0.09139982	0.011229308	5.393E-07	5.39E-04	2.93E-03	4.46E-03	4.24E-02	4.13E-02	1.12E-01
2159	495561.06	3859701.99	0.00869	0.00607	0.00516	0.0102	0.006	0.031	0.006	0.00607	0.09066945	0.011210839	5.372E-07	5.37E-04	2.93E-03	4.32E-03	4.23E-02	4.13E-02	1.11E-01
2160	495611.06	3859701.99	0.00863	0.00602	0.00511	0.01009	0.006	0.03	0.0059	0.00602	0.09004343	0.011118493	5.32E-07	5.31E-04	2.93E-03	4.17E-03	4.19E-02	4.09E-02	1.10E-01
2161	495661.06	3859701.99	0.00857	0.00596	0.00505	0.00998	0.006	0.029	0.0059	0.00596	0.0894174	0.011007677	5.257E-07	5.26E-04	2.92E-03	4.03E-03	4.16E-02	4.05E-02	1.09E-01
2162	494311.06	3859751.99	0.01035	0.00797	0.00669	0.0139	0.006	0.057	0.0078	0.00797	0.10798951	0.014719998	6.965E-07	7.32E-04	2.92E-03	8.06E-03	5.52E-02	5.42E-02	1.35E-01
2163	494361.06	3859751.99	0.01027	0.00787	0.00661	0.01369	0.006	0.078	0.0077	0.00787	0.10715481	0.014535305	6.881E-07	7.21E-04	2.93E-03	1.10E-02	5.45E-02	5.35E-02	1.37E-01
2164	494411.06	3859751.99	0.01019	0.00776	0.00651	0.01344	0.006	0.135	0.0076	0.00776	0.10632011	0.014332143	6.777E-07	7.08E-04	2.93E-03	1.89E-02	5.37E-02	5.28E-02	1.44E-01
2165	494461.06	3859751.99	0.01007	0.00776	0.0065	0.0134	0.006	0.184	0.0076	0.00776	0.10506806	0.014332143	6.767E-07	7.06E-04	2.94E-03	2.59E-02	5.37E-02	5.28E-02	1.50E-01
2166	494511.06	3859751.99	0.00998	0.00772	0.00647	0.01329	0.006	0.193	0.0075	0.00772	0.10412902	0.014258266	6.736E-07	7.00E-04	2.95E-03	2.72E-02	5.34E-02	5.25E-02	1.50E-01
2167	494561.06	3859751.99	0.00989	0.00764	0.0064	0.0131	0.006	0.13	0.0075	0.00764	0.10318998	0.014110512	6.663E-07	6.90E-04	2.95E-03	1.83E-02	5.29E-02	5.20E-02	1.40E-01
2168	494611.06	3859751.99	0.00982	0.00753	0.00631	0.01287	0.006	0.099	0.0074	0.00753	0.10245961	0.01390735	6.569E-07	6.78E-04	2.95E-03	1.40E-02	5.21E-02	5.12E-02	1.35E-01
2169	494661.06	3859751.99	0.00977	0.00734	0.00617	0.01255	0.006	0.082	0.0072	0.00734	0.10193793	0.013556434	6.423E-07	6.61E-04	2.94E-03	1.15E-02	5.09E-02	4.99E-02	1.32E-01
2170	494711.06	3859751.99	0.00968	0.00734	0.00614	0.01247	0.006	0.072	0.0072	0.00734	0.10099889	0.013556434	6.392E-07	6.57E-04	2.95E-03	1.01E-02	5.08E-02	4.99E-02	1.29E-01
2171	494761.06	3859751.99	0.0096	0.00728	0.00609	0.01234	0.006	0.065	0.0071	0.00728	0.10016418	0.013445619	6.34E-07	6.50E-04	2.95E-03	9.09E-03	5.04E-02	4.95E-02	1.27E-01
2172	494811.06	3859751.99	0.00953	0.00719	0.00601	0.01215	0.006	0.059	0.007	0.00719	0.09943382	0.013279396	6.257E-07	6.40E-04	2.94E-03	8.27E-03	4.98E-02	4.89E-02	1.25E-01
2173	494861.06	3859751.99	0.00945	0.00712	0.00596	0.01201	0.006	0.054	0.007	0.00712	0.09859912	0.013150111	6.205E-07	6.33E-04	2.94E-03	7.66E-03	4.94E-02	4.84E-02	1.24E-01
2174	494911.06	3859751.99	0.00938	0.00706	0.0059	0.01187	0.006	0.051	0.0069	0.00706	0.09786876	0.013039295	6.142E-07	6.25E-04	2.94E-03	7.16E-03	4.89E-02	4.80E-02	1.23E-01
2175	494961.06	3859751.99	0.0093	0.00699	0.00584	0.01173	0.006	0.048	0.0068	0.00699	0.09703405	0.01291001	6.08E-07	6.18E-04	2.94E-03	6.76E-03	4.85E-02	4.75E-02	1.21E-01
2176	495011.06	3859751.99	0.00924	0.00692	0.00578	0.01159	0.006	0.046	0.0068	0.00692	0.09640803	0.012780726	6.017E-07	6.10E-04	2.93E-03	6.41E-03	4.80E-02	4.71E-02	1.20E-01
2177	495061.06	3859751.99	0.00916	0.00687	0.00573	0.01148	0.006	0.044	0.0067	0.00687	0.09557333	0.012688379	5.965E-07	6.05E-04	2.93E-03	6.13E-03	4.77E-02	4.67E-02	1.19E-01
2178	495111.06	3859751.99	0.00909	0.0068	0.00567	0.01134	0.006	0.042	0.0067	0.0068	0.09484296	0.012559095	5.903E-07	5.97E-04	2.93E-03	5.85E-03	4.72E-02	4.62E-02	1.18E-01
2179	495161.06	3859751.99	0.00903	0.00673	0.0056	0.0112	0.006	0.04	0.0066	0.00673	0.09421694	0.01242981	5.83E-07	5.90E-04	2.92E-03	5.61E-03	4.67E-02	4.58E-02	1.17E-01
2180	495211.06	3859751.99	0.00897	0.00666	0.00554	0.01105	0.006	0.038	0.0065	0.00666	0.09359091	0.012300525	5.767E-07	5.82E-04	2.91E-03	5.38E-03	4.62E-02	4.53E-02	1.16E-01
2181	495261.06	3859751.99	0.0089	0.00661	0.00549	0.01095	0.006	0.037	0.0065	0.00661	0.09286055	0.012208179	5.715E-07	5.77E-04	2.91E-03	5.19E-03	4.59E-02	4.49E-02	1.15E-01
2182	495311.06	3859751.99	0.00884	0.00654	0.00543	0.01082	0.006	0.036	0.0064	0.00654	0.09223452	0.012078894	5.653E-07	5.70E-04	2.91E-03	5.00E-03	4.54E-02	4.45E-02	1.14E-01
2183	495361.06	3859751.99	0.00877	0.00648	0.00537	0.0107	0.006	0.034	0.0064	0.00648	0.09150416	0.011968078	5.59E-07	5.64E-04	2.90E-03	4.82E-03	4.51E-02	4.41E-02	1.13E-01
2184	495411.06	3859751.99	0.00871	0.00643	0.00532	0.01059	0.006	0.033	0.0063	0.00643	0.09087813	0.011875732	5.538E-07	5.58E-04	2.89E-03	4.66E-03	4.46E-02	4.37E-02	1.12E-01
2185	495461.06	3859751.99	0.00866	0.00634	0.00525	0.01043	0.006	0.032	0.0062	0.00634	0.09035644	0.011709509	5.466E-07	5.49E-04	2.88E-03	4.49E-03	4.41E-02	4.31E-02	1.11E-01
2186	495511.06	3859751.99	0.0086	0.00626	0.00517	0.01028	0.006	0.031	0.0062	0.00626	0.08973042	0.011561755	5.382E-07	5.41E-04	2.87E-03	4.32E-03	4.36E-02	4.26E-02	1.10E-01
2187	495561.06	3859751.99	0.00854	0.00621	0.00512	0.01017	0.006	0.03	0.0061	0.00621	0.08910439	0.011469408	5.33E-07	5.36E-04	2.87E-03	4.18E-03	4.32E-02	4.22E-02	1.09E-01
2188	495611.06	3859751.99	0.00848	0.00615	0.00507	0.01007	0.006	0.029	0.0061	0.00615	0.08847836	0.011358593	5.278E-07	5.30E-04	2.86E-03	4.05E-03	4.29E-02	4.18E-02	1.08E-01
2189	495661.06	3859751.99	0.00842	0.00611	0.00503	0.00998	0.006	0.028	0.006	0.00611	0.08785234	0.011284716	5.237E-07	5.26E-04	2.86E-03	3.93E-03	4.26E-02	4.15E-02	1.07E-01
2190	494311.06	3859801.99	0.01013	0.0082	0.00656	0.01389	0.006	0.059	0.008	0.0082	0.10569408	0.015144791	6.829E-07	7.32E-04	2.81E-03	8.25E-03	5.68E-02	5.58E-02	1.34E-01
2191	494361.06	3859801.99	0.01006	0.00807	0.00646	0.01362	0.006	0.079	0.0079	0.00807	0.10496372	0.01490469	6.725E-07	7.17E-04	2.82E-03	1.11E-02	5.58E-02	5.49E-02	1.35E-01
2192	494411.06	3859801.99	0.00999	0.00792	0.00636	0.01334	0.006	0.134	0.0078	0.00792	0.10423335	0.014627651	6.621E-07	7.03E-04	2.83E-03	1.89E-02	5.49E-02	5.39E-02	1.42E-01
2193	494461.06	3859801.99	0.00988	0.00791	0.00634	0.01327	0.006	0.193	0.0077	0.00791	0.10308564	0.014609182	6.6E-07	6.99E-04	2.84E-03	2.71E-02	5.48E-02	5.38E-02	1.49E-01
2194	494511.06	3859801.99	0.00977	0.00792	0.00634	0.01322	0.006	0.189	0.0077	0.00792	0.10193793	0.014627651	6.6E-07	6.96E-04	2.85E-03	2.66E-02	5.48E-02	5.39E-02	1.48E-01
2195	494561.06	3859801.99	0.00969	0.00783	0.00627	0.01304	0.006	0.129	0.0077	0.00783	0.10110322	0.014461428	6.527E-07	6.87E-04	2.86E-03	1.81E-02	5.42E-02	5.32E-02	1.38E-01
2196	494611.06	3859801.99	0.00964	0.00767	0.00615	0.01275	0.006	0.099	0.0075	0.00767	0.10058154	0.01416592	6.403E-07	6.72E-04	2.86E-03	1.39E-02	5.31E-02	5.22E-02	1.33E-01
2197	494661.06	3859801.99	0.00956	0.00758	0.00608	0.01256	0.006	0.082	0.0074	0.00758	0.09974683	0.013999697	6.33E-07	6.62E-04	2.86E-03	1.15E-02	5.24E-02	5.15E-02	1.30E-01
2198	494711.06	3859801.99	0.0095	0.00747	0.006	0.01234	0.006	0.07	0.0073	0.00747	0.09912081	0.013796535	6.246E-07	6.50E-04	2.86E-03	9.90E-03	5.17E-02	5.08E-02	1.27E-01
2199	494761.06	3859801.99	0.0094	0.00746	0.00599	0.0123	0.006	0.063	0.0073	0.00746	0.09807743	0.013778066	6.236E-07	6.48E-04	2.87E-03	8.90E-03	5.17E-02	5.07E-02	1.25E-01
2200	494811.06	3859801.99	0.00933	0.00738	0.00592	0.01213	0.006	0.058	0.0072	0.00738	0.09734707	0.013630311	6.163E-07	6.39E-04	2.87E-03	8.09E-03	5.11E-02	5.02E-02	1.23E-01

2201	494861.06	3859801.99	0.00925	0.00732	0.00588	0.012	0.006	0.053	0.0072	0.00732	0.09651237	0.013519496	6.121E-07	6.32E-04	2.87E-03	7.49E-03	5.07E-02	4.98E-02	1.22E-01
2202	494911.06	3859801.99	0.00919	0.00723	0.0058	0.01183	0.006	0.05	0.0071	0.00723	0.09588634	0.013353273	6.038E-07	6.23E-04	2.86E-03	6.97E-03	5.01E-02	4.92E-02	1.21E-01
2203	494961.06	3859801.99	0.00912	0.00716	0.00575	0.01169	0.006	0.047	0.007	0.00716	0.09515598	0.013223988	5.986E-07	6.16E-04	2.86E-03	6.56E-03	4.96E-02	4.87E-02	1.19E-01
2204	495011.06	3859801.99	0.00905	0.00709	0.00569	0.01155	0.006	0.044	0.0069	0.00709	0.09442561	0.013094703	5.924E-07	6.08E-04	2.86E-03	6.22E-03	4.92E-02	4.82E-02	1.18E-01
2205	495061.06	3859801.99	0.00898	0.00703	0.00564	0.01144	0.006	0.042	0.0069	0.00703	0.09369525	0.012983887	5.872E-07	6.03E-04	2.86E-03	5.93E-03	4.87E-02	4.78E-02	1.17E-01
2206	495111.06	3859801.99	0.00892	0.00695	0.00558	0.01129	0.006	0.04	0.0068	0.00695	0.09306922	0.012836133	5.809E-07	5.95E-04	2.85E-03	5.65E-03	4.83E-02	4.73E-02	1.16E-01
2207	495161.06	3859801.99	0.00886	0.00688	0.00552	0.01114	0.006	0.038	0.0067	0.00688	0.0924432	0.012706849	5.747E-07	5.87E-04	2.85E-03	5.41E-03	4.78E-02	4.68E-02	1.15E-01
2208	495211.06	3859801.99	0.00879	0.00683	0.00547	0.01104	0.006	0.037	0.0067	0.00683	0.09171283	0.012614502	5.695E-07	5.82E-04	2.85E-03	5.20E-03	4.73E-02	4.64E-02	1.14E-01
2209	495261.06	3859801.99	0.00873	0.00675	0.00541	0.0109	0.006	0.036	0.0066	0.00675	0.09108681	0.012466748	5.632E-07	5.74E-04	2.84E-03	5.00E-03	4.68E-02	4.59E-02	1.13E-01
2210	495311.06	3859801.99	0.00867	0.0067	0.00537	0.0108	0.006	0.034	0.0066	0.0067	0.09046078	0.012374402	5.59E-07	5.69E-04	2.84E-03	4.84E-03	4.66E-02	4.56E-02	1.12E-01
2211	495361.06	3859801.99	0.00861	0.00664	0.00531	0.01067	0.006	0.033	0.0065	0.00664	0.08983475	0.012263586	5.528E-07	5.62E-04	2.83E-03	4.67E-03	4.61E-02	4.52E-02	1.11E-01
2212	495411.06	3859801.99	0.00855	0.00656	0.00525	0.01053	0.006	0.032	0.0064	0.00656	0.08920873	0.012115832	5.466E-07	5.55E-04	2.82E-03	4.51E-03	4.56E-02	4.46E-02	1.10E-01
2213	495461.06	3859801.99	0.00849	0.0065	0.0052	0.01042	0.006	0.031	0.0064	0.0065	0.0885827	0.012005017	5.414E-07	5.49E-04	2.82E-03	4.37E-03	4.52E-02	4.42E-02	1.09E-01
2214	495511.06	3859801.99	0.00844	0.00642	0.00512	0.01026	0.006	0.03	0.0063	0.00642	0.08806101	0.011857263	5.33E-07	5.40E-04	2.81E-03	4.21E-03	4.46E-02	4.37E-02	1.08E-01
2215	495561.06	3859801.99	0.00838	0.00636	0.00508	0.01017	0.006	0.029	0.0063	0.00636	0.08743499	0.011746447	5.289E-07	5.36E-04	2.81E-03	4.08E-03	4.43E-02	4.32E-02	1.08E-01
2216	495611.06	3859801.99	0.00832	0.00634	0.00506	0.01011	0.006	0.028	0.0062	0.00634	0.08680896	0.011709509	5.268E-07	5.33E-04	2.81E-03	3.98E-03	4.41E-02	4.31E-02	1.07E-01
2217	495661.06	3859801.99	0.00827	0.00626	0.00499	0.00998	0.006	0.027	0.0062	0.00626	0.08628727	0.011561755	5.195E-07	5.26E-04	2.80E-03	3.85E-03	4.36E-02	4.26E-02	1.06E-01
2218	494311.06	3859851.99	0.00992	0.0084	0.00641	0.01378	0.006	0.061	0.0082	0.0084	0.10350299	0.015514176	6.673E-07	7.26E-04	2.70E-03	8.54E-03	5.82E-02	5.71E-02	1.32E-01
2219	494361.06	3859851.99	0.00984	0.00828	0.00633	0.01356	0.006	0.08	0.0081	0.00828	0.10266829	0.015292545	6.59E-07	7.14E-04	2.71E-03	1.13E-02	5.74E-02	5.63E-02	1.34E-01
2220	494411.06	3859851.99	0.00977	0.00815	0.00624	0.01331	0.006	0.134	0.008	0.00815	0.10193793	0.015052444	6.496E-07	7.01E-04	2.72E-03	1.89E-02	5.65E-02	5.54E-02	1.40E-01
2221	494461.06	3859851.99	0.00968	0.00806	0.00617	0.01311	0.006	0.187	0.0079	0.00806	0.10099889	0.014886221	6.423E-07	6.91E-04	2.73E-03	2.64E-02	5.58E-02	5.48E-02	1.47E-01
2222	494511.06	3859851.99	0.00959	0.00802	0.00615	0.01302	0.006	0.195	0.0078	0.00802	0.10005985	0.014812344	6.403E-07	6.86E-04	2.74E-03	2.74E-02	5.55E-02	5.45E-02	1.47E-01
2223	494561.06	3859851.99	0.00949	0.00801	0.00613	0.01295	0.006	0.13	0.0078	0.00801	0.09901647	0.014793875	6.382E-07	6.82E-04	2.75E-03	1.82E-02	5.55E-02	5.45E-02	1.36E-01
2224	494611.06	3859851.99	0.00944	0.00783	0.00601	0.01264	0.006	0.1	0.0077	0.00783	0.09849478	0.014461428	6.257E-07	6.66E-04	2.76E-03	1.41E-02	5.43E-02	5.32E-02	1.31E-01
2225	494661.06	3859851.99	0.00935	0.00779	0.00598	0.01253	0.006	0.083	0.0076	0.00779	0.09755574	0.014387551	6.226E-07	6.60E-04	2.76E-03	1.17E-02	5.39E-02	5.30E-02	1.28E-01
2226	494711.06	3859851.99	0.00929	0.00766	0.00589	0.0123	0.006	0.071	0.0075	0.00766	0.09692972	0.014147451	6.132E-07	6.48E-04	2.77E-03	1.00E-02	5.31E-02	5.21E-02	1.26E-01
2227	494761.06	3859851.99	0.0092	0.00765	0.00588	0.01224	0.006	0.064	0.0075	0.00765	0.09599068	0.014128981	6.121E-07	6.45E-04	2.78E-03	9.00E-03	5.29E-02	5.20E-02	1.23E-01
2228	494811.06	3859851.99	0.00913	0.00756	0.00582	0.01208	0.006	0.058	0.0074	0.00756	0.09526031	0.013962758	6.059E-07	6.36E-04	2.78E-03	8.17E-03	5.24E-02	5.14E-02	1.22E-01
2229	494861.06	3859851.99	0.00905	0.00751	0.00578	0.01197	0.006	0.054	0.0073	0.00751	0.09442561	0.013870412	6.017E-07	6.31E-04	2.78E-03	7.56E-03	5.20E-02	5.11E-02	1.20E-01
2230	494911.06	3859851.99	0.00899	0.00742	0.00571	0.0118	0.006	0.05	0.0073	0.00742	0.09379959	0.013704188	5.944E-07	6.22E-04	2.78E-03	7.02E-03	5.14E-02	5.05E-02	1.19E-01
2231	494961.06	3859851.99	0.00892	0.00735	0.00566	0.01166	0.006	0.047	0.0072	0.00735	0.09306922	0.013574904	5.892E-07	6.14E-04	2.78E-03	6.59E-03	5.09E-02	5.00E-02	1.18E-01
2232	495011.06	3859851.99	0.00886	0.00728	0.00561	0.01153	0.006	0.044	0.0071	0.00728	0.0924432	0.013445619	5.84E-07	6.07E-04	2.78E-03	6.22E-03	5.04E-02	4.95E-02	1.16E-01
2233	495061.06	3859851.99	0.00879	0.00722	0.00556	0.01142	0.006	0.042	0.0071	0.00722	0.09171283	0.013334803	5.788E-07	6.02E-04	2.78E-03	5.91E-03	5.00E-02	4.91E-02	1.15E-01
2234	495111.06	3859851.99	0.00873	0.00713	0.0055	0.01126	0.006	0.04	0.007	0.00713	0.09108681	0.01316858	5.726E-07	5.93E-04	2.78E-03	5.62E-03	4.95E-02	4.85E-02	1.14E-01
2235	495161.06	3859851.99	0.00867	0.00706	0.00544	0.01112	0.006	0.038	0.0069	0.00706	0.09046078	0.013039295	5.663E-07	5.86E-04	2.78E-03	5.37E-03	4.90E-02	4.80E-02	1.13E-01
2236	495211.06	3859851.99	0.00861	0.00699	0.00539	0.011	0.006	0.037	0.0069	0.00699	0.08983475	0.01291001	5.611E-07	5.79E-04	2.77E-03	5.15E-03	4.85E-02	4.75E-02	1.12E-01
2237	495261.06	3859851.99	0.00855	0.00692	0.00534	0.01088	0.006	0.035	0.0068	0.00692	0.08920873	0.012780726	5.559E-07	5.73E-04	2.77E-03	4.95E-03	4.80E-02	4.71E-02	1.11E-01
2238	495311.06	3859851.99	0.00849	0.00687	0.0053	0.01077	0.006	0.034	0.0067	0.00687	0.0885827	0.012688379	5.518E-07	5.67E-04	2.77E-03	4.77E-03	4.77E-02	4.67E-02	1.10E-01
2239	495361.06	3859851.99	0.00843	0.00681	0.00525	0.01066	0.006	0.033	0.0067	0.00681	0.08795667	0.012577564	5.466E-07	5.62E-04	2.77E-03	4.61E-03	4.73E-02	4.63E-02	1.09E-01
2240	495411.06	3859851.99	0.00838	0.00673	0.00519	0.01053	0.006	0.032	0.0066	0.00673	0.08743499	0.01242981	5.403E-07	5.55E-04	2.76E-03	4.44E-03	4.67E-02	4.58E-02	1.09E-01
2241	495461.06	3859851.99	0.00833	0.00666	0.00514	0.0104	0.006	0.03	0.0065	0.00666	0.0869133	0.012300525	5.351E-07	5.48E-04	2.75E-03	4.29E-03	4.63E-02	4.53E-02	1.08E-01
2242	495511.06	3859851.99	0.00828	0.00658	0.00507	0.01026	0.006	0.029	0.0065	0.00658	0.08639161	0.012152771	5.278E-07	5.40E-04	2.75E-03	4.14E-03	4.57E-02	4.47E-02	1.07E-01
2243	495561.06	3859851.99	0.00822	0.00654	0.00504	0.01018	0.006	0.029	0.0064	0.00654	0.08576558	0.012078894	5.247E-07	5.36E-04	2.75E-03	4.02E-03	4.54E-02	4.45E-02	1.06E-01
2244	495611.06	3859851.99	0.00816	0.00649	0.005	0.01009	0.006	0.028	0.0064	0.00649	0.08513956	0.011986548	5.205E-07	5.31E-04	2.74E-03	3.91E-03	4.51E-02	4.41E-02	1.05E-01
2245	495661.06	3859851.99	0.00811	0.00642	0.00494	0.00996	0.006	0.027	0.0063	0.00642	0.08461787	0.011857263	5.143E-07	5.25E-04	2.74E-03	3.78E-03	4.46E-02	4.37E-02	1.05E-01
2246	494311.06	3859901.99	0.0097	0.00858	0.00627	0.01364	0.005	0.065	0.0084	0.00858	0.10120756	0.015846622	6.527E-07	7.18E-04	2.57E-03	9.08E-03	5.95E-02	5.83E-02	1.31E-01
2247	494361.06	3859901.99	0.00964	0.00841	0.00616	0.01334	0.006	0.083	0.0082	0.00841	0.10058154	0.015532645	6.413E-07	7.03E-04	2.59E-03	1.17E-02	5.83E-02	5.72E-02	1.32E-01
2248	494411.06	3859901.99	0.00954	0.00835	0.00612	0.01321	0.006	0.136	0.0082	0.00835	0.09953816	0.015421829	6.371E-07	6.96E-04	2.61E-03	1.91E-02	5.80E-02	5.68E-02	1.39E-01
2249	494461.06	3859901.99	0.00947	0.00826	0.00605	0.01303	0.006	0.183	0.0081	0.00826	0.09880779	0.015255606	6.298E-07	6.86E-04	2.62E-03	2.57E-02	5.72E-02	5.62E-02	1.44E-01
2250	494511.06	3859901.99	0.00938	0.0082	0.00601	0.01289	0.006	0.2	0.008	0.0082	0.09786876	0.015144791	6.257E-07	6.79E-04	2.63E-03	2.81E-02	5.68E-02	5.58E-02	1.45E-01
2251	494561.06	3859901.99	0.00927	0.00821	0.00601	0.01286	0.006	0.134	0.008	0.00821	0.09672104	0.01516326	6.257E-07	6.77E-04	2.64E-03	1.88E-02	5.69E-02	5.58E-02	1.35E-01
2252	494611.06	3859901.99	0.00923	0.00802	0.00589	0.01255	0.006	0.103	0.0078	0.00802	0.09630369	0.014812344	6.132E-07	6.61E-04	2.65E-03	1.45E-02	5.55E-02	5.45E-02	1.30E-01
2253	494661.06	3859901.99	0.00913	0.00801	0.00588	0.0125	0.006	0.086	0.0078	0.00801	0.09526031	0.014793875	6.121E-07	6.58E-04	2.66E-03	1.21E-02	5.55E-02	5.45E-02	1.26E-01
2254	494711.06	3859901.99	0.00909	0.00783	0.00577	0.0122	0.006	0.074	0.0077	0.00783	0.09484296	0.014461428	6.007E-07	6.43E-04	2.67E-03	1.04E-02	5.43E-02	5.32E-02	1.24E-01
2255	494761.06	3859901.99	0.00901	0.0078	0.00574	0.01213	0.006	0.066	0.0076	0.0078	0.09400826	0.01440602	5.976E-07	6.39E-04	2.68E-03	9.27E-03	5.41E-02	5.30E-02	1.22E-01
2256	494811.06	3859901.99	0.00892	0.00777	0.00572	0.01205	0.006	0.06	0.0076	0.00777	0.09306922	0.014350612	5.955E-07	6.35E-04	2.69E-03	8.45E-03	5.38E-02	5.28E-02	1.20E-01
2257	494861.06	3859901.99	0.00885	0.00771	0.00568	0.01193	0.006	0.055	0.0075	0.00771	0.09233886	0.014239797	5.913E-07	6.28E-04	2.69E-03	7.78E-03	5.34E-02	5.24E-02	1.19E-01
2258	494911.06	3859901.99	0.00879	0.00761	0.00561	0.01175	0.006	0.051	0.0075	0.00761	0.09171283	0.014055104	5.84E-07	6.19E-04	2.70E-03	7.19E-03	5.28E-02	5.17E-02	1.17E-01

2259	494961.06	3859901.99	0.00872	0.00755	0.00557	0.01164	0.006	0.048	0.0074	0.00755	0.09098247	0.013944289	5.799E-07	6.13E-04	2.70E-03	6.73E-03	5.24E-02	5.13E-02	1.16E-01
2260	495011.06	3859901.99	0.00866	0.00747	0.00551	0.01148	0.006	0.045	0.0073	0.00747	0.09035644	0.013796535	5.736E-07	6.05E-04	2.70E-03	6.32E-03	5.17E-02	5.08E-02	1.15E-01
2261	495061.06	3859901.99	0.0086	0.00739	0.00546	0.01135	0.006	0.043	0.0072	0.00739	0.08973042	0.013648781	5.684E-07	5.98E-04	2.70E-03	5.98E-03	5.12E-02	5.03E-02	1.14E-01
2262	495111.06	3859901.99	0.00855	0.0073	0.0054	0.0112	0.006	0.04	0.0071	0.0073	0.08920873	0.013482557	5.622E-07	5.90E-04	2.70E-03	5.67E-03	5.06E-02	4.96E-02	1.13E-01
2263	495161.06	3859901.99	0.00849	0.00722	0.00534	0.01105	0.006	0.038	0.0071	0.00722	0.0885827	0.013334803	5.559E-07	5.82E-04	2.70E-03	5.39E-03	5.00E-02	4.91E-02	1.12E-01
2264	495211.06	3859901.99	0.00843	0.00717	0.00531	0.01096	0.006	0.037	0.007	0.00717	0.08795667	0.013242457	5.528E-07	5.77E-04	2.70E-03	5.17E-03	4.97E-02	4.88E-02	1.11E-01
2265	495261.06	3859901.99	0.00838	0.00707	0.00524	0.0108	0.006	0.035	0.0069	0.00707	0.08743499	0.013057765	5.455E-07	5.69E-04	2.70E-03	4.93E-03	4.90E-02	4.81E-02	1.10E-01
2266	495311.06	3859901.99	0.00832	0.00702	0.00521	0.01071	0.006	0.034	0.0069	0.00702	0.08680896	0.012965418	5.424E-07	5.64E-04	2.70E-03	4.75E-03	4.87E-02	4.77E-02	1.09E-01
2267	495361.06	3859901.99	0.00826	0.00695	0.00516	0.01059	0.006	0.032	0.0068	0.00695	0.08618293	0.012836133	5.372E-07	5.58E-04	2.69E-03	4.56E-03	4.83E-02	4.73E-02	1.08E-01
2268	495411.06	3859901.99	0.00821	0.00687	0.0051	0.01046	0.006	0.031	0.0067	0.00687	0.08566125	0.012688379	5.309E-07	5.51E-04	2.69E-03	4.39E-03	4.77E-02	4.67E-02	1.07E-01
2269	495461.06	3859901.99	0.00816	0.0068	0.00505	0.01034	0.006	0.03	0.0067	0.0068	0.08513956	0.012559095	5.257E-07	5.45E-04	2.69E-03	4.23E-03	4.73E-02	4.62E-02	1.06E-01
2270	495511.06	3859901.99	0.00811	0.00675	0.00502	0.01025	0.006	0.029	0.0066	0.00675	0.08461787	0.012466748	5.226E-07	5.40E-04	2.68E-03	4.10E-03	4.69E-02	4.59E-02	1.05E-01
2271	495561.06	3859901.99	0.00805	0.00671	0.00498	0.01016	0.006	0.028	0.0066	0.00671	0.08399184	0.012392871	5.184E-07	5.35E-04	2.68E-03	3.98E-03	4.66E-02	4.56E-02	1.05E-01
2272	495611.06	3859901.99	0.008	0.00663	0.00493	0.01004	0.006	0.027	0.0065	0.00663	0.08347015	0.012245117	5.132E-07	5.29E-04	2.68E-03	3.85E-03	4.61E-02	4.51E-02	1.04E-01
2273	495661.06	3859901.99	0.00795	0.00656	0.00487	0.00992	0.006	0.026	0.0064	0.00656	0.08294847	0.012115832	5.07E-07	5.23E-04	2.67E-03	3.73E-03	4.56E-02	4.46E-02	1.03E-01
2274	494311.06	3859951.99	0.00947	0.0088	0.00615	0.01352	0.005	0.073	0.0086	0.0088	0.09880779	0.016252946	6.403E-07	7.12E-04	2.47E-03	1.02E-02	6.11E-02	5.98E-02	1.30E-01
2275	494361.06	3859951.99	0.0094	0.00867	0.00607	0.0133	0.005	0.092	0.0085	0.00867	0.09807743	0.016012846	6.319E-07	7.01E-04	2.49E-03	1.29E-02	6.02E-02	5.90E-02	1.31E-01
2276	494411.06	3859951.99	0.00932	0.00856	0.006	0.0131	0.005	0.143	0.0084	0.00856	0.09724273	0.015809684	6.246E-07	6.90E-04	2.50E-03	2.01E-02	5.94E-02	5.82E-02	1.38E-01
2277	494461.06	3859951.99	0.00925	0.00846	0.00594	0.01292	0.005	0.193	0.0083	0.00846	0.09651237	0.015624991	6.184E-07	6.81E-04	2.51E-03	2.72E-02	5.87E-02	5.75E-02	1.44E-01
2278	494511.06	3859951.99	0.00916	0.0084	0.0059	0.01279	0.005	0.21	0.0082	0.0084	0.09557333	0.015514176	6.142E-07	6.74E-04	2.52E-03	2.96E-02	5.83E-02	5.71E-02	1.45E-01
2279	494561.06	3859951.99	0.00904	0.00844	0.00591	0.01278	0.005	0.142	0.0083	0.00844	0.09432127	0.015588053	6.153E-07	6.73E-04	2.54E-03	2.00E-02	5.85E-02	5.74E-02	1.34E-01
2280	494611.06	3859951.99	0.009	0.00826	0.00581	0.01251	0.005	0.111	0.0081	0.00826	0.09390392	0.015255606	6.049E-07	6.59E-04	2.55E-03	1.56E-02	5.72E-02	5.62E-02	1.29E-01
2281	494661.06	3859951.99	0.00891	0.00824	0.00579	0.01244	0.005	0.092	0.0081	0.00824	0.09296488	0.015218668	6.028E-07	6.55E-04	2.56E-03	1.30E-02	5.71E-02	5.60E-02	1.25E-01
2282	494711.06	3859951.99	0.00887	0.00808	0.00569	0.0122	0.005	0.079	0.0079	0.00808	0.09254753	0.014923159	5.924E-07	6.43E-04	2.57E-03	1.11E-02	5.60E-02	5.49E-02	1.23E-01
2283	494761.06	3859951.99	0.00879	0.00802	0.00566	0.01208	0.006	0.07	0.0079	0.00802	0.09171283	0.014812344	5.892E-07	6.36E-04	2.58E-03	9.80E-03	5.56E-02	5.45E-02	1.21E-01
2284	494811.06	3859951.99	0.00872	0.00796	0.00561	0.01195	0.006	0.063	0.0078	0.00796	0.09098247	0.014701528	5.84E-07	6.29E-04	2.59E-03	8.82E-03	5.51E-02	5.41E-02	1.19E-01
2285	494861.06	3859951.99	0.00864	0.00792	0.00558	0.01187	0.006	0.057	0.0078	0.00792	0.09014777	0.014627651	5.809E-07	6.25E-04	2.60E-03	8.07E-03	5.49E-02	5.39E-02	1.17E-01
2286	494911.06	3859951.99	0.00859	0.00782	0.00552	0.0117	0.006	0.053	0.0076	0.00782	0.08962608	0.014442959	5.747E-07	6.16E-04	2.60E-03	7.41E-03	5.41E-02	5.32E-02	1.16E-01
2287	494961.06	3859951.99	0.00853	0.00772	0.00546	0.01154	0.006	0.049	0.0076	0.00772	0.08900005	0.014258266	5.684E-07	6.08E-04	2.61E-03	6.87E-03	5.35E-02	5.25E-02	1.14E-01
2288	495011.06	3859951.99	0.00847	0.00764	0.00541	0.0114	0.006	0.046	0.0075	0.00764	0.08837403	0.014110512	5.632E-07	6.00E-04	2.62E-03	6.43E-03	5.29E-02	5.20E-02	1.13E-01
2289	495061.06	3859951.99	0.00841	0.00757	0.00536	0.01128	0.006	0.043	0.0074	0.00757	0.087748	0.013981227	5.58E-07	5.94E-04	2.62E-03	6.06E-03	5.24E-02	5.15E-02	1.12E-01
2290	495111.06	3859951.99	0.00836	0.00747	0.0053	0.01113	0.006	0.041	0.0073	0.00747	0.08722631	0.013796535	5.518E-07	5.86E-04	2.62E-03	5.72E-03	5.18E-02	5.08E-02	1.11E-01
2291	495161.06	3859951.99	0.00831	0.00738	0.00525	0.01098	0.006	0.039	0.0072	0.00738	0.08670462	0.013630311	5.466E-07	5.78E-04	2.62E-03	5.42E-03	5.12E-02	5.02E-02	1.10E-01
2292	495211.06	3859951.99	0.00826	0.0073	0.00519	0.01084	0.006	0.037	0.0071	0.0073	0.08618293	0.013482557	5.403E-07	5.71E-04	2.62E-03	5.15E-03	5.06E-02	4.96E-02	1.09E-01
2293	495261.06	3859951.99	0.0082	0.00723	0.00515	0.01073	0.006	0.035	0.0071	0.00723	0.08555691	0.013353273	5.361E-07	5.65E-04	2.62E-03	4.92E-03	5.02E-02	4.92E-02	1.08E-01
2294	495311.06	3859951.99	0.00814	0.00719	0.00512	0.01065	0.006	0.034	0.007	0.00719	0.08493088	0.013279396	5.33E-07	5.61E-04	2.62E-03	4.73E-03	4.99E-02	4.89E-02	1.07E-01
2295	495361.06	3859951.99	0.00809	0.00713	0.00508	0.01054	0.006	0.032	0.007	0.00713	0.08440919	0.01316858	5.289E-07	5.55E-04	2.62E-03	4.55E-03	4.95E-02	4.85E-02	1.06E-01
2296	495411.06	3859951.99	0.00804	0.00705	0.00503	0.01042	0.006	0.031	0.0069	0.00705	0.0838875	0.013020826	5.237E-07	5.49E-04	2.62E-03	4.37E-03	4.89E-02	4.79E-02	1.05E-01
2297	495461.06	3859951.99	0.00799	0.00697	0.00498	0.0103	0.006	0.03	0.0068	0.00697	0.08336582	0.012873072	5.184E-07	5.43E-04	2.62E-03	4.20E-03	4.84E-02	4.74E-02	1.05E-01
2298	495511.06	3859951.99	0.00794	0.0069	0.00493	0.01018	0.006	0.029	0.0068	0.0069	0.08284413	0.012743787	5.132E-07	5.36E-04	2.62E-03	4.05E-03	4.79E-02	4.69E-02	1.04E-01
2299	495561.06	3859951.99	0.00788	0.00687	0.00491	0.01012	0.006	0.028	0.0067	0.00687	0.0822181	0.012688379	5.112E-07	5.33E-04	2.62E-03	3.94E-03	4.77E-02	4.67E-02	1.03E-01
2300	495611.06	3859951.99	0.00784	0.0068	0.00486	0.01001	0.006	0.027	0.0067	0.0068	0.08180075	0.012559095	5.06E-07	5.27E-04	2.61E-03	3.80E-03	4.72E-02	4.62E-02	1.02E-01
2301	495661.06	3859951.99	0.00779	0.00671	0.0048	0.00987	0.006	0.026	0.0066	0.00671	0.08127906	0.012392871	4.997E-07	5.20E-04	2.61E-03	3.67E-03	4.66E-02	4.56E-02	1.01E-01
2302	494311.06	3860001.99	0.00923	0.00902	0.00606	0.01339	0.005	0.093	0.0089	0.00902	0.09630369	0.01665927	6.309E-07	7.05E-04	2.36E-03	1.31E-02	6.27E-02	6.13E-02	1.31E-01
2303	494361.06	3860001.99	0.00916	0.00891	0.00599	0.0132	0.005	0.12	0.0087	0.00891	0.09557333	0.016456108	6.236E-07	6.95E-04	2.38E-03	1.69E-02	6.19E-02	6.06E-02	1.33E-01
2304	494411.06	3860001.99	0.0091	0.00876	0.0059	0.01296	0.005	0.17	0.0086	0.00876	0.0949473	0.016179069	6.142E-07	6.83E-04	2.39E-03	2.39E-02	6.08E-02	5.96E-02	1.39E-01
2305	494461.06	3860001.99	0.00902	0.00868	0.00586	0.01282	0.005	0.234	0.0085	0.00868	0.0941126	0.016031315	6.101E-07	6.75E-04	2.41E-03	3.29E-02	6.03E-02	5.90E-02	1.47E-01
2306	494511.06	3860001.99	0.00895	0.00857	0.00579	0.01263	0.005	0.24	0.0084	0.00857	0.09338223	0.015828153	6.028E-07	6.65E-04	2.42E-03	3.37E-02	5.95E-02	5.83E-02	1.47E-01
2307	494561.06	3860001.99	0.00882	0.00865	0.00582	0.01267	0.005	0.162	0.0085	0.00865	0.09202584	0.015975907	6.059E-07	6.67E-04	2.44E-03	2.28E-02	6.00E-02	5.88E-02	1.35E-01
2308	494611.06	3860001.99	0.00877	0.00853	0.00574	0.01247	0.005	0.123	0.0084	0.00853	0.09150416	0.015754276	5.976E-07	6.57E-04	2.45E-03	1.73E-02	5.92E-02	5.80E-02	1.29E-01
2309	494661.06	3860001.99	0.00869	0.00846	0.0057	0.01234	0.005	0.099	0.0083	0.00846	0.09066945	0.015624991	5.934E-07	6.50E-04	2.46E-03	1.39E-02	5.87E-02	5.75E-02	1.24E-01
2310	494711.06	3860001.99	0.00867	0.00823	0.00557	0.01204	0.005	0.083	0.0081	0.00823	0.09046078	0.015200198	5.799E-07	6.34E-04	2.47E-03	1.16E-02	5.71E-02	5.60E-02	1.22E-01
2311	494761.06	3860001.99	0.00858	0.00824	0.00557	0.012	0.005	0.072	0.0081	0.00824	0.08952174	0.015218668	5.799E-07	6.32E-04	2.48E-03	1.02E-02	5.71E-02	5.60E-02	1.19E-01
2312	494811.06	3860001.99	0.0085	0.00818	0.00553	0.01189	0.005	0.065	0.008	0.00818	0.08868704	0.015107852	5.757E-07	6.26E-04	2.49E-03	9.10E-03	5.68E-02	5.56E-02	1.17E-01
2313	494861.06	3860001.99	0.00843	0.00814	0.00551	0.0118	0.005	0.059	0.008	0.00814	0.08795667	0.015033975	5.736E-07	6.22E-04	2.50E-03	8.27E-03	5.65E-02	5.54E-02	1.15E-01
2314	494911.06	3860001.99	0.00841	0.00794	0.00539	0.01153	0.005	0.053	0.0078	0.00794	0.087748	0.01466459	5.611E-07	6.07E-04	2.51E-03	7.48E-03	5.51E-02	5.40E-02	1.14E-01
2315	494961.06	3860001.99	0.00834	0.0079	0.00536	0.01144	0.005	0.049	0.0077	0.0079	0.08701764	0.014590713	5.58E-07	6.03E-04	2.51E-03	6.94E-03	5.48E-02	5.37E-02	1.13E-01
2316	495011.06	3860001.99	0.00829	0.0078	0.00531	0.01129	0.005	0.046	0.0076	0.0078	0.08649595	0.01440602	5.528E-07	5.95E-04	2.52E-03	6.46E-03	5.41E-02	5.30E-02	1.11E-01

2317	495061.06	3860001.99	0.00822	0.00776	0.00528	0.01121	0.005	0.043	0.0076	0.00776	0.08576558	0.014332143	5.497E-07	5.90E-04	2.53E-03	6.09E-03	5.38E-02	5.28E-02	1.10E-01
2318	495111.06	3860001.99	0.00817	0.00766	0.00522	0.01106	0.005	0.041	0.0075	0.00766	0.08524389	0.014147451	5.434E-07	5.83E-04	2.54E-03	5.73E-03	5.31E-02	5.21E-02	1.09E-01
2319	495161.06	3860001.99	0.00812	0.00757	0.00516	0.01092	0.005	0.039	0.0074	0.00757	0.08472221	0.013981227	5.372E-07	5.75E-04	2.54E-03	5.42E-03	5.25E-02	5.15E-02	1.08E-01
2320	495211.06	3860001.99	0.00806	0.00753	0.00514	0.01084	0.005	0.037	0.0074	0.00753	0.08409618	0.01390735	5.351E-07	5.71E-04	2.55E-03	5.18E-03	5.21E-02	5.12E-02	1.07E-01
2321	495261.06	3860001.99	0.00801	0.00744	0.00508	0.01071	0.005	0.035	0.0073	0.00744	0.08357449	0.013741127	5.289E-07	5.64E-04	2.55E-03	4.93E-03	5.16E-02	5.06E-02	1.06E-01
2322	495311.06	3860001.99	0.00796	0.00738	0.00505	0.0106	0.005	0.034	0.0072	0.00738	0.0830528	0.013630311	5.257E-07	5.58E-04	2.55E-03	4.72E-03	5.12E-02	5.02E-02	1.05E-01
2323	495361.06	3860001.99	0.00792	0.00726	0.00498	0.01043	0.005	0.032	0.0071	0.00726	0.08263545	0.01340868	5.184E-07	5.49E-04	2.55E-03	4.49E-03	5.04E-02	4.94E-02	1.05E-01
2324	495411.06	3860001.99	0.00786	0.00723	0.00496	0.01037	0.005	0.031	0.0071	0.00723	0.08200943	0.013353273	5.164E-07	5.46E-04	2.55E-03	4.34E-03	5.02E-02	4.92E-02	1.04E-01
2325	495461.06	3860001.99	0.00781	0.00716	0.00491	0.01026	0.005	0.03	0.007	0.00716	0.08148774	0.013223988	5.112E-07	5.40E-04	2.55E-03	4.17E-03	4.97E-02	4.87E-02	1.03E-01
2326	495511.06	3860001.99	0.00776	0.0071	0.00487	0.01016	0.005	0.029	0.007	0.0071	0.08096605	0.013113172	5.07E-07	5.35E-04	2.55E-03	4.02E-03	4.92E-02	4.83E-02	1.02E-01
2327	495561.06	3860001.99	0.00771	0.00705	0.00484	0.01009	0.005	0.028	0.0069	0.00705	0.08044436	0.013020826	5.039E-07	5.31E-04	2.55E-03	3.89E-03	4.90E-02	4.79E-02	1.01E-01
2328	495611.06	3860001.99	0.00767	0.00697	0.00479	0.00996	0.005	0.027	0.0068	0.00697	0.08002701	0.012873072	4.987E-07	5.25E-04	2.55E-03	3.75E-03	4.84E-02	4.74E-02	1.01E-01
2329	495661.06	3860001.99	0.00763	0.00689	0.00474	0.00985	0.005	0.026	0.0068	0.00689	0.07960966	0.012725318	4.935E-07	5.19E-04	2.54E-03	3.62E-03	4.78E-02	4.69E-02	1.00E-01
2330	494411.06	3860051.99	0.00886	0.00901	0.00584	0.01286	0.005	0.51	0.0088	0.00901	0.0924432	0.0166408	6.08E-07	6.77E-04	2.29E-03	7.18E-02	6.26E-02	6.13E-02	1.85E-01
2331	494461.06	3860051.99	0.00879	0.0089	0.00578	0.01269	0.005	0.487	0.0087	0.0089	0.09171283	0.016437638	6.017E-07	6.68E-04	2.30E-03	6.85E-02	6.19E-02	6.05E-02	1.81E-01
2332	494511.06	3860051.99	0.00872	0.0088	0.00572	0.01253	0.005	0.28	0.0086	0.0088	0.09098247	0.016252946	5.955E-07	6.60E-04	2.32E-03	3.94E-02	6.11E-02	5.98E-02	1.51E-01
2333	494561.06	3860051.99	0.00862	0.00881	0.00571	0.01248	0.005	0.166	0.0086	0.00881	0.08993909	0.016271415	5.944E-07	6.57E-04	2.34E-03	2.34E-02	6.12E-02	5.99E-02	1.34E-01
2334	494611.06	3860051.99	0.00854	0.00876	0.00567	0.01237	0.005	0.121	0.0086	0.00876	0.08910439	0.016179069	5.903E-07	6.52E-04	2.35E-03	1.71E-02	6.08E-02	5.96E-02	1.27E-01
2335	494661.06	3860051.99	0.00847	0.00869	0.00563	0.01224	0.005	0.098	0.0085	0.00869	0.08837403	0.016049784	5.861E-07	6.45E-04	2.36E-03	1.37E-02	6.03E-02	5.91E-02	1.22E-01
2336	494711.06	3860051.99	0.00843	0.00852	0.00554	0.01202	0.005	0.083	0.0084	0.00852	0.08795667	0.015735807	5.767E-07	6.33E-04	2.37E-03	1.16E-02	5.92E-02	5.79E-02	1.20E-01
2337	494761.06	3860051.99	0.00836	0.00846	0.0055	0.01191	0.005	0.072	0.0083	0.00846	0.08722631	0.015624991	5.726E-07	6.27E-04	2.38E-03	1.02E-02	5.87E-02	5.75E-02	1.17E-01
2338	494811.06	3860051.99	0.00828	0.00844	0.00548	0.01184	0.005	0.065	0.0083	0.00844	0.08639161	0.015588053	5.705E-07	6.24E-04	2.40E-03	9.11E-03	5.86E-02	5.74E-02	1.15E-01
2339	494861.06	3860051.99	0.0082	0.00841	0.00545	0.01175	0.005	0.059	0.0082	0.00841	0.08555691	0.015532645	5.674E-07	6.19E-04	2.41E-03	8.28E-03	5.83E-02	5.72E-02	1.14E-01
2340	494911.06	3860051.99	0.00816	0.00828	0.00539	0.01158	0.005	0.054	0.0081	0.00828	0.08513956	0.015292545	5.611E-07	6.10E-04	2.42E-03	7.57E-03	5.75E-02	5.63E-02	1.12E-01
2341	494961.06	3860051.99	0.00812	0.00815	0.00531	0.0114	0.005	0.05	0.008	0.00815	0.08472221	0.015052444	5.528E-07	6.00E-04	2.42E-03	6.97E-03	5.65E-02	5.54E-02	1.11E-01
2342	495011.06	3860051.99	0.00808	0.00804	0.00525	0.01125	0.005	0.046	0.0079	0.00804	0.08430486	0.014849282	5.466E-07	5.93E-04	2.43E-03	6.47E-03	5.58E-02	5.47E-02	1.10E-01
2343	495061.06	3860051.99	0.00802	0.00796	0.0052	0.01112	0.005	0.043	0.0078	0.00796	0.08367883	0.014701528	5.414E-07	5.86E-04	2.44E-03	6.07E-03	5.52E-02	5.41E-02	1.09E-01
2344	495111.06	3860051.99	0.00798	0.00784	0.00514	0.01096	0.005	0.04	0.0077	0.00784	0.08326148	0.014479897	5.351E-07	5.77E-04	2.45E-03	5.69E-03	5.44E-02	5.33E-02	1.08E-01
2345	495161.06	3860051.99	0.00793	0.00776	0.00509	0.01084	0.005	0.038	0.0076	0.00776	0.08273979	0.014332143	5.299E-07	5.71E-04	2.45E-03	5.39E-03	5.38E-02	5.28E-02	1.07E-01
2346	495211.06	3860051.99	0.00789	0.00767	0.00504	0.01071	0.005	0.036	0.0075	0.00767	0.08232244	0.01416592	5.247E-07	5.64E-04	2.46E-03	5.11E-03	5.32E-02	5.22E-02	1.06E-01
2347	495261.06	3860051.99	0.00783	0.00761	0.005	0.01062	0.005	0.035	0.0075	0.00761	0.08169641	0.014055104	5.205E-07	5.59E-04	2.47E-03	4.87E-03	5.28E-02	5.17E-02	1.05E-01
2348	495311.06	3860051.99	0.00778	0.00756	0.00497	0.01053	0.005	0.033	0.0074	0.00756	0.08117472	0.013962758	5.174E-07	5.55E-04	2.47E-03	4.66E-03	5.24E-02	5.14E-02	1.04E-01
2349	495361.06	3860051.99	0.00773	0.0075	0.00494	0.01044	0.005	0.032	0.0073	0.0075	0.08065304	0.013851943	5.143E-07	5.50E-04	2.48E-03	4.47E-03	5.20E-02	5.10E-02	1.03E-01
2350	495411.06	3860051.99	0.00768	0.00743	0.00489	0.01033	0.005	0.03	0.0073	0.00743	0.08013135	0.013722658	5.091E-07	5.44E-04	2.48E-03	4.28E-03	5.15E-02	5.05E-02	1.02E-01
2351	495461.06	3860051.99	0.00764	0.00735	0.00485	0.01022	0.005	0.029	0.0072	0.00735	0.079714	0.013574904	5.049E-07	5.38E-04	2.48E-03	4.10E-03	5.10E-02	5.00E-02	1.01E-01
2352	495511.06	3860051.99	0.00759	0.0073	0.00482	0.01014	0.005	0.028	0.0072	0.0073	0.07919231	0.013482557	5.018E-07	5.34E-04	2.48E-03	3.95E-03	5.07E-02	4.96E-02	1.01E-01
2353	495561.06	3860051.99	0.00754	0.00723	0.00478	0.01004	0.005	0.027	0.0071	0.00723	0.07867062	0.013353273	4.976E-07	5.29E-04	2.48E-03	3.81E-03	5.02E-02	4.92E-02	9.98E-02
2354	495611.06	3860051.99	0.0075	0.00716	0.00473	0.00992	0.005	0.026	0.007	0.00716	0.07825327	0.013223988	4.924E-07	5.23E-04	2.48E-03	3.67E-03	4.97E-02	4.87E-02	9.91E-02
2355	495661.06	3860051.99	0.00746	0.00707	0.00468	0.00979	0.005	0.025	0.0069	0.00707	0.07783592	0.013057765	4.872E-07	5.16E-04	2.48E-03	3.54E-03	4.90E-02	4.81E-02	9.84E-02
2356	494411.06	3860101.99	0.00866	0.00916	0.00573	0.01264	0.005	0.268	0.009	0.00916	0.09035644	0.016917839	5.965E-07	6.66E-04	2.19E-03	3.77E-02	6.37E-02	6.23E-02	1.49E-01
2357	494461.06	3860101.99	0.00856	0.00915	0.00572	0.01257	0.005	0.194	0.009	0.00915	0.08931306	0.01689937	5.955E-07	6.62E-04	2.20E-03	2.73E-02	6.36E-02	6.22E-02	1.38E-01
2358	494511.06	3860101.99	0.00851	0.00899	0.00564	0.01236	0.005	0.153	0.0088	0.00899	0.08879138	0.016603862	5.872E-07	6.51E-04	2.22E-03	2.15E-02	6.26E-02	6.11E-02	1.31E-01
2359	494561.06	3860101.99	0.00843	0.00895	0.0056	0.01226	0.005	0.124	0.0088	0.00895	0.08795667	0.016529985	5.83E-07	6.46E-04	2.23E-03	1.75E-02	6.22E-02	6.09E-02	1.26E-01
2360	494611.06	3860101.99	0.00833	0.00896	0.00559	0.01221	0.005	0.104	0.0088	0.00896	0.0869133	0.016548454	5.82E-07	6.43E-04	2.25E-03	1.47E-02	6.22E-02	6.09E-02	1.22E-01
2361	494661.06	3860101.99	0.00826	0.0089	0.00556	0.0121	0.005	0.09	0.0087	0.0089	0.08618293	0.016437638	5.788E-07	6.37E-04	2.26E-03	1.26E-02	6.19E-02	6.05E-02	1.19E-01
2362	494711.06	3860101.99	0.00821	0.00875	0.00548	0.01191	0.005	0.078	0.0086	0.00875	0.08566125	0.0161606	5.705E-07	6.27E-04	2.27E-03	1.10E-02	6.08E-02	5.95E-02	1.17E-01
2363	494761.06	3860101.99	0.00815	0.00869	0.00544	0.0118	0.005	0.07	0.0085	0.00869	0.08503522	0.016049784	5.663E-07	6.22E-04	2.28E-03	9.81E-03	6.03E-02	5.91E-02	1.15E-01
2364	494811.06	3860101.99	0.00808	0.00863	0.0054	0.01169	0.005	0.063	0.0085	0.00863	0.08430486	0.015938969	5.622E-07	6.16E-04	2.30E-03	8.86E-03	5.99E-02	5.87E-02	1.13E-01
2365	494861.06	3860101.99	0.00797	0.00868	0.00542	0.01169	0.005	0.058	0.0085	0.00868	0.08315714	0.016031315	5.643E-07	6.16E-04	2.31E-03	8.13E-03	6.03E-02	5.90E-02	1.12E-01
2366	494911.06	3860101.99	0.00798	0.00843	0.00529	0.01141	0.005	0.053	0.0083	0.00843	0.08326148	0.015569583	5.507E-07	6.01E-04	2.32E-03	7.39E-03	5.85E-02	5.73E-02	1.10E-01
2367	494961.06	3860101.99	0.00792	0.00836	0.00525	0.0113	0.005	0.049	0.0082	0.00836	0.08263545	0.015440299	5.466E-07	5.95E-04	2.34E-03	6.85E-03	5.80E-02	5.68E-02	1.09E-01
2368	495011.06	3860101.99	0.00788	0.00824	0.00519	0.01115	0.005	0.045	0.0081	0.00824	0.0822181	0.015218668	5.403E-07	5.87E-04	2.34E-03	6.36E-03	5.72E-02	5.60E-02	1.08E-01
2369	495061.06	3860101.99	0.00783	0.00814	0.00513	0.01101	0.005	0.042	0.008	0.00814	0.08169641	0.015033975	5.341E-07	5.80E-04	2.35E-03	5.95E-03	5.65E-02	5.54E-02	1.07E-01
2370	495111.06	3860101.99	0.0078	0.00802	0.00507	0.01085	0.005	0.04	0.0079	0.00802	0.0813834	0.014812344	5.278E-07	5.72E-04	2.36E-03	5.57E-03	5.56E-02	5.45E-02	1.06E-01
2371	495161.06	3860101.99	0.00774	0.00796	0.00503	0.01076	0.005	0.037	0.0078	0.00796	0.08075737	0.014701528	5.237E-07	5.67E-04	2.37E-03	5.27E-03	5.53E-02	5.41E-02	1.05E-01
2372	495211.06	3860101.99	0.00769	0.00789	0.00499	0.01065	0.005	0.036	0.0077	0.00789	0.08023569	0.014572244	5.195E-07	5.61E-04	2.37E-03	5.00E-03	5.47E-02	5.37E-02	1.04E-01
2373	495261.06	3860101.99	0.00765	0.00781	0.00494	0.01054	0.005	0.034	0.0077	0.00781	0.07981833	0.01442449	5.143E-07	5.55E-04	2.38E-03	4.75E-03	5.42E-02	5.31E-02	1.03E-01
2374	495311.06	3860101.99	0.0076	0.00774	0.00491	0.01044	0.005	0.032	0.0076	0.00774	0.07929665	0.014295205	5.112E-07	5.50E-04	2.39E-03	4.53E-03	5.37E-02	5.26E-02	1.02E-01

2375	495361.06	3860101.99	0.00755	0.0077	0.00488	0.01037	0.005	0.031	0.0075	0.0077	0.07877496	0.014221328	5.08E-07	5.46E-04	2.39E-03	4.34E-03	5.34E-02	5.24E-02	1.01E-01
2376	495411.06	3860101.99	0.0075	0.00762	0.00483	0.01026	0.005	0.03	0.0075	0.00762	0.07825327	0.014073574	5.028E-07	5.40E-04	2.40E-03	4.16E-03	5.29E-02	5.18E-02	1.00E-01
2377	495461.06	3860101.99	0.00747	0.00751	0.00478	0.01013	0.005	0.028	0.0074	0.00751	0.07794026	0.013870412	4.976E-07	5.34E-04	2.40E-03	3.97E-03	5.21E-02	5.11E-02	9.98E-02
2378	495511.06	3860101.99	0.00742	0.00747	0.00475	0.01006	0.005	0.027	0.0073	0.00747	0.07741857	0.013796535	4.945E-07	5.30E-04	2.41E-03	3.83E-03	5.19E-02	5.08E-02	9.90E-02
2379	495561.06	3860101.99	0.00737	0.00743	0.00472	0.00999	0.005	0.026	0.0073	0.00743	0.07689688	0.013722658	4.914E-07	5.26E-04	2.41E-03	3.70E-03	5.15E-02	5.05E-02	9.82E-02
2380	495611.06	3860101.99	0.00734	0.00733	0.00467	0.00986	0.005	0.025	0.0072	0.00733	0.07658387	0.013537965	4.862E-07	5.19E-04	2.41E-03	3.55E-03	5.09E-02	4.98E-02	9.76E-02
2381	495661.06	3860101.99	0.00729	0.00726	0.00463	0.00977	0.005	0.024	0.0071	0.00726	0.07606218	0.01340868	4.82E-07	5.15E-04	2.41E-03	3.43E-03	5.04E-02	4.94E-02	9.68E-02
2382	494861.06	3860151.99	0.00774	0.00898	0.00539	0.01158	0.005	0.055	0.0088	0.00898	0.08075737	0.016585393	5.611E-07	6.10E-04	2.20E-03	7.78E-03	6.24E-02	6.11E-02	1.09E-01
2383	494911.06	3860151.99	0.00776	0.00868	0.00525	0.01132	0.005	0.05	0.0085	0.00868	0.08096605	0.016031315	5.466E-07	5.96E-04	2.23E-03	7.10E-03	6.03E-02	5.90E-02	1.08E-01
2384	494961.06	3860151.99	0.00772	0.00858	0.0052	0.01118	0.005	0.047	0.0084	0.00858	0.0805487	0.015846622	5.414E-07	5.89E-04	2.24E-03	6.56E-03	5.96E-02	5.83E-02	1.07E-01
2385	495011.06	3860151.99	0.00768	0.00846	0.00514	0.01105	0.005	0.043	0.0083	0.00846	0.08013135	0.015624991	5.351E-07	5.82E-04	2.25E-03	6.10E-03	5.87E-02	5.75E-02	1.06E-01
2386	495061.06	3860151.99	0.00764	0.00835	0.00508	0.01091	0.005	0.041	0.0082	0.00835	0.079714	0.015421829	5.289E-07	5.75E-04	2.26E-03	5.70E-03	5.80E-02	5.68E-02	1.05E-01
2387	495111.06	3860151.99	0.00759	0.00827	0.00503	0.01079	0.005	0.038	0.0081	0.00827	0.07919231	0.015274075	5.237E-07	5.68E-04	2.27E-03	5.36E-03	5.74E-02	5.62E-02	1.04E-01
2388	495161.06	3860151.99	0.00755	0.00819	0.00499	0.01069	0.005	0.036	0.008	0.00819	0.07877496	0.015126321	5.195E-07	5.63E-04	2.28E-03	5.06E-03	5.69E-02	5.57E-02	1.03E-01
2389	495211.06	3860151.99	0.0075	0.0081	0.00494	0.01057	0.005	0.034	0.0079	0.0081	0.07825327	0.014960098	5.143E-07	5.57E-04	2.29E-03	4.80E-03	5.63E-02	5.51E-02	1.02E-01
2390	495261.06	3860151.99	0.00746	0.00804	0.0049	0.01048	0.005	0.032	0.0079	0.00804	0.07783592	0.014849282	5.101E-07	5.52E-04	2.30E-03	4.57E-03	5.58E-02	5.47E-02	1.01E-01
2391	495311.06	3860151.99	0.00741	0.00797	0.00486	0.01038	0.005	0.031	0.0078	0.00797	0.07731423	0.014719998	5.06E-07	5.47E-04	2.31E-03	4.36E-03	5.53E-02	5.42E-02	1.00E-01
2392	495361.06	3860151.99	0.00736	0.00791	0.00483	0.01029	0.005	0.03	0.0077	0.00791	0.07679254	0.014609182	5.028E-07	5.42E-04	2.31E-03	4.17E-03	5.48E-02	5.38E-02	9.95E-02
2393	495411.06	3860151.99	0.00732	0.00783	0.00479	0.01019	0.005	0.028	0.0077	0.00783	0.07637519	0.014461428	4.987E-07	5.37E-04	2.32E-03	3.99E-03	5.43E-02	5.32E-02	9.88E-02
2394	495461.06	3860151.99	0.00728	0.00776	0.00475	0.01009	0.005	0.027	0.0076	0.00776	0.07595784	0.014332143	4.945E-07	5.31E-04	2.33E-03	3.83E-03	5.38E-02	5.28E-02	9.81E-02
2395	495511.06	3860151.99	0.00724	0.00767	0.0047	0.00999	0.005	0.026	0.0075	0.00767	0.07554049	0.01416592	4.893E-07	5.26E-04	2.33E-03	3.68E-03	5.32E-02	5.22E-02	9.73E-02
2396	495561.06	3860151.99	0.0072	0.00761	0.00467	0.00991	0.005	0.025	0.0075	0.00761	0.07512314	0.014055104	4.862E-07	5.22E-04	2.34E-03	3.55E-03	5.29E-02	5.17E-02	9.67E-02
2397	495611.06	3860151.99	0.00716	0.00753	0.00462	0.0098	0.005	0.024	0.0074	0.00753	0.07470579	0.01390735	4.81E-07	5.16E-04	2.34E-03	3.43E-03	5.23E-02	5.12E-02	9.60E-02
2398	495661.06	3860151.99	0.00713	0.00745	0.00458	0.0097	0.005	0.024	0.0073	0.00745	0.07439277	0.013759596	4.768E-07	5.11E-04	2.34E-03	3.31E-03	5.17E-02	5.07E-02	9.53E-02
2399	495718.25	3859442.96	0.009	0.00522	0.00507	0.00973	0.007	0.034	0.0052	0.00522	0.09390392	0.009640952	5.278E-07	5.13E-04	3.13E-03	4.79E-03	3.67E-02	3.55E-02	1.13E-01
2400	495818.25	3859442.96	0.00885	0.00512	0.00495	0.00951	0.007	0.032	0.0051	0.00512	0.09233886	0.009456259	5.153E-07	5.01E-04	3.09E-03	4.45E-03	3.61E-02	3.48E-02	1.11E-01
2401	495918.25	3859442.96	0.00871	0.00505	0.00485	0.00933	0.007	0.03	0.005	0.00505	0.09087813	0.009326975	5.049E-07	4.91E-04	3.07E-03	4.18E-03	3.56E-02	3.43E-02	1.09E-01
2402	496018.25	3859442.96	0.00858	0.00499	0.00477	0.00918	0.007	0.028	0.005	0.00499	0.08952174	0.009216159	4.966E-07	4.84E-04	3.05E-03	3.94E-03	3.51E-02	3.39E-02	1.07E-01
2403	496118.25	3859442.96	0.00849	0.00498	0.00475	0.00916	0.007	0.027	0.005	0.00498	0.0885827	0.00919769	4.945E-07	4.82E-04	3.08E-03	3.76E-03	3.51E-02	3.39E-02	1.06E-01
2404	496218.25	3859442.96	0.00839	0.00497	0.00472	0.00912	0.007	0.026	0.0049	0.00497	0.08753932	0.009179221	4.914E-07	4.80E-04	3.10E-03	3.59E-03	3.50E-02	3.38E-02	1.05E-01
2405	496318.25	3859442.96	0.00827	0.00492	0.00464	0.00898	0.007	0.024	0.0049	0.00492	0.08628727	0.009086874	4.831E-07	4.73E-04	3.09E-03	3.42E-03	3.46E-02	3.35E-02	1.04E-01
2406	496418.25	3859442.96	0.00816	0.00486	0.00456	0.00884	0.007	0.023	0.0048	0.00486	0.08513956	0.008976059	4.747E-07	4.66E-04	3.07E-03	3.26E-03	3.42E-02	3.30E-02	1.02E-01
2407	495718.25	3859542.96	0.00883	0.00546	0.00503	0.00981	0.007	0.031	0.0054	0.00546	0.09213018	0.010084214	5.237E-07	5.17E-04	3.06E-03	4.31E-03	3.83E-02	3.71E-02	1.11E-01
2408	495818.25	3859542.96	0.00869	0.00538	0.00493	0.00963	0.006	0.029	0.0053	0.00538	0.09066945	0.00993646	5.132E-07	5.07E-04	3.04E-03	4.02E-03	3.78E-02	3.66E-02	1.09E-01
2409	495918.25	3859542.96	0.00856	0.00529	0.00482	0.00942	0.006	0.027	0.0052	0.00529	0.08931306	0.009770237	5.018E-07	4.96E-04	3.01E-03	3.77E-03	3.71E-02	3.60E-02	1.08E-01
2410	496018.25	3859542.96	0.00843	0.00521	0.00472	0.00924	0.006	0.025	0.0052	0.00521	0.08795667	0.009622483	4.914E-07	4.87E-04	2.99E-03	3.55E-03	3.66E-02	3.54E-02	1.06E-01
2411	496118.25	3859542.96	0.00833	0.0052	0.0047	0.00922	0.006	0.024	0.0052	0.0052	0.0869133	0.009604013	4.893E-07	4.86E-04	3.02E-03	3.41E-03	3.65E-02	3.54E-02	1.05E-01
2412	496218.25	3859542.96	0.00822	0.00517	0.00467	0.00916	0.006	0.023	0.0051	0.00517	0.08576558	0.009548606	4.862E-07	4.82E-04	3.03E-03	3.27E-03	3.63E-02	3.52E-02	1.03E-01
2413	496318.25	3859542.96	0.00811	0.00514	0.00462	0.00907	0.006	0.022	0.0051	0.00514	0.08461787	0.009493198	4.81E-07	4.78E-04	3.03E-03	3.14E-03	3.61E-02	3.50E-02	1.02E-01
2414	496418.25	3859542.96	0.008	0.00506	0.00452	0.00889	0.006	0.021	0.005	0.00506	0.08347015	0.009345444	4.706E-07	4.68E-04	3.00E-03	3.00E-03	3.56E-02	3.44E-02	1.00E-01
2415	495718.25	3859642.96	0.00863	0.00571	0.00499	0.00981	0.006	0.028	0.0056	0.00571	0.09004343	0.010545946	5.195E-07	5.17E-04	2.96E-03	4.01E-03	4.00E-02	3.88E-02	1.09E-01
2416	495818.25	3859642.96	0.0085	0.00561	0.00488	0.0096	0.006	0.027	0.0055	0.00561	0.08868704	0.010361253	5.08E-07	5.06E-04	2.94E-03	3.75E-03	3.93E-02	3.81E-02	1.07E-01
2417	495918.25	3859642.96	0.00836	0.00553	0.0048	0.00945	0.006	0.025	0.0055	0.00553	0.08722631	0.010213499	4.997E-07	4.98E-04	2.93E-03	3.54E-03	3.88E-02	3.76E-02	1.06E-01
2418	496018.25	3859642.96	0.00824	0.00545	0.00469	0.00927	0.006	0.024	0.0054	0.00545	0.08597426	0.010065745	4.883E-07	4.88E-04	2.92E-03	3.35E-03	3.82E-02	3.71E-02	1.04E-01
2419	496118.25	3859642.96	0.00815	0.00545	0.0047	0.00928	0.006	0.023	0.0054	0.00545	0.08503522	0.010065745	4.893E-07	4.89E-04	2.94E-03	3.22E-03	3.82E-02	3.71E-02	1.03E-01
2420	496218.25	3859642.96	0.00805	0.00544	0.00468	0.00924	0.006	0.022	0.0054	0.00544	0.08399184	0.010047276	4.872E-07	4.87E-04	2.95E-03	3.10E-03	3.80E-02	3.70E-02	1.02E-01
2421	496318.25	3859642.96	0.00794	0.00536	0.00459	0.00909	0.006	0.021	0.0053	0.00536	0.08284413	0.009899522	4.778E-07	4.79E-04	2.94E-03	2.97E-03	3.76E-02	3.64E-02	1.00E-01
2422	496418.25	3859642.96	0.00779	0.00517	0.00438	0.00869	0.006	0.02	0.0051	0.00517	0.08127906	0.009548606	4.56E-07	4.58E-04	2.86E-03	2.80E-03	3.63E-02	3.52E-02	9.81E-02
2423	495718.25	3859742.96	0.00838	0.00603	0.00498	0.00987	0.006	0.027	0.0059	0.00603	0.08743499	0.011136962	5.184E-07	5.20E-04	2.87E-03	3.81E-03	4.20E-02	4.10E-02	1.07E-01
2424	495818.25	3859742.96	0.00828	0.0059	0.00486	0.00963	0.006	0.025	0.0058	0.0059	0.08639161	0.010896861	5.06E-07	5.07E-04	2.85E-03	3.58E-03	4.12E-02	4.01E-02	1.05E-01
2425	495918.25	3859742.96	0.00816	0.0058	0.00476	0.00945	0.006	0.024	0.0057	0.0058	0.08513956	0.010712169	4.955E-07	4.98E-04	2.83E-03	3.39E-03	4.05E-02	3.94E-02	1.04E-01
2426	496018.25	3859742.96	0.00804	0.0057	0.00467	0.00926	0.006	0.023	0.0056	0.0057	0.0838875	0.010527476	4.862E-07	4.88E-04	2.82E-03	3.21E-03	3.99E-02	3.88E-02	1.02E-01
2427	496118.25	3859742.96	0.00794	0.0057	0.00465	0.00925	0.006	0.022	0.0056	0.0057	0.08284413	0.010527476	4.841E-07	4.87E-04	2.84E-03	3.10E-03	3.98E-02	3.88E-02	1.01E-01
2428	496218.25	3859742.96	0.00783	0.00571	0.00466	0.00926	0.006	0.021	0.0056	0.00571	0.08169641	0.010545946	4.851E-07	4.88E-04	2.86E-03	3.00E-03	3.99E-02	3.88E-02	9.97E-02
2429	496318.25	3859742.96	0.00773	0.00552	0.00448	0.00891	0.006	0.02	0.0055	0.00552	0.08065304	0.01019503	4.664E-07	4.69E-04	2.81E-03	2.83E-03	3.86E-02	3.75E-02	9.80E-02
2430	496418.25	3859742.96	0.00761	0.00533	0.00429	0.0086	0.006	0.019	0.0053	0.00533	0.07940098	0.009844114	4.466E-07	4.53E-04	2.76E-03	2.67E-03	3.74E-02	3.62E-02	9.63E-02
2431	495718.25	3859842.96	0.00808	0.00633	0.0049	0.00985	0.006	0.026	0.0062	0.00633	0.08430486	0.01169104	5.101E-07	5.19E-04	2.74E-03	3.67E-03	4.40E-02	4.30E-02	1.04E-01
2432	495818.25	3859842.96	0.00798	0.00622	0.00481	0.00966	0.006	0.025	0.0061	0.00622	0.08326148	0.011487878	5.008E-07	5.09E-04	2.73E-03	3.47E-03	4.33E-02	4.23E-02	1.02E-01

2433	495918.25	3859842.96	0.00788	0.00611	0.00472	0.00947	0.006	0.023	0.006	0.00611	0.0822181	0.011284716	4.914E-07	4.99E-04	2.72E-03	3.29E-03	4.26E-02	4.15E-02	1.01E-01
2434	496018.25	3859842.96	0.00777	0.00604	0.00466	0.00934	0.006	0.022	0.0059	0.00604	0.08107039	0.011155431	4.851E-07	4.92E-04	2.72E-03	3.15E-03	4.21E-02	4.11E-02	9.96E-02
2435	496118.25	3859842.96	0.00765	0.00605	0.00467	0.00936	0.006	0.022	0.006	0.00605	0.07981833	0.0111739	4.862E-07	4.93E-04	2.74E-03	3.05E-03	4.22E-02	4.11E-02	9.83E-02
2436	496218.25	3859842.96	0.00758	0.00587	0.00451	0.00903	0.006	0.02	0.0058	0.00587	0.07908797	0.010841454	4.695E-07	4.76E-04	2.71E-03	2.87E-03	4.10E-02	3.99E-02	9.70E-02
2437	496318.25	3859842.96	0.00748	0.00553	0.00423	0.00847	0.006	0.019	0.0055	0.00553	0.07804459	0.010213499	4.404E-07	4.46E-04	2.62E-03	2.63E-03	3.87E-02	3.76E-02	9.50E-02
2438	496418.25	3859842.96	0.00734	0.00533	0.00404	0.0081	0.005	0.018	0.0053	0.00533	0.07658387	0.009844114	4.206E-07	4.27E-04	2.55E-03	2.47E-03	3.74E-02	3.62E-02	9.30E-02
2439	495718.25	3859942.96	0.00777	0.00663	0.00478	0.00979	0.006	0.025	0.0065	0.00663	0.08107039	0.012245117	4.976E-07	5.16E-04	2.62E-03	3.57E-03	4.61E-02	4.51E-02	1.01E-01
2440	495818.25	3859942.96	0.00767	0.00651	0.00469	0.00959	0.006	0.024	0.0064	0.00651	0.08002701	0.012023486	4.883E-07	5.05E-04	2.61E-03	3.36E-03	4.53E-02	4.43E-02	9.95E-02
2441	495918.25	3859942.96	0.00758	0.00642	0.00463	0.00943	0.006	0.023	0.0063	0.00642	0.07908797	0.011857263	4.82E-07	4.97E-04	2.61E-03	3.19E-03	4.46E-02	4.37E-02	9.82E-02
2442	496018.25	3859942.96	0.00746	0.00641	0.00462	0.00939	0.006	0.022	0.0063	0.00641	0.07783592	0.011838794	4.81E-07	4.95E-04	2.61E-03	3.08E-03	4.46E-02	4.36E-02	9.68E-02
2443	496118.25	3859942.96	0.0074	0.00623	0.00449	0.00912	0.006	0.021	0.0061	0.00623	0.07720989	0.011506347	4.674E-07	4.80E-04	2.60E-03	2.90E-03	4.34E-02	4.24E-02	9.58E-02
2444	496218.25	3859942.96	0.00734	0.00597	0.00431	0.00873	0.005	0.019	0.0059	0.00597	0.07658387	0.011026146	4.487E-07	4.60E-04	2.56E-03	2.70E-03	4.17E-02	4.06E-02	9.44E-02
2445	496318.25	3859942.96	0.00727	0.00573	0.00412	0.00833	0.005	0.018	0.0057	0.00573	0.0758535	0.010582884	4.289E-07	4.39E-04	2.51E-03	2.51E-03	4.00E-02	3.90E-02	9.30E-02
2446	496418.25	3859942.96	0.00712	0.00545	0.00389	0.00785	0.005	0.017	0.0054	0.00545	0.07428844	0.010065745	4.05E-07	4.13E-04	2.42E-03	2.32E-03	3.82E-02	3.71E-02	9.06E-02
2447	496856.82	3858864.83	0.00781	0.00383	0.00436	0.00778	0.007	0.029	0.0038	0.00383	0.08148774	0.007073725	4.539E-07	4.10E-04	3.10E-03	4.06E-03	2.71E-02	2.60E-02	9.72E-02
2448	496956.82	3858864.83	0.00769	0.0038	0.0043	0.00766	0.007	0.027	0.0038	0.0038	0.08023569	0.007018318	4.477E-07	4.03E-04	3.06E-03	3.73E-03	2.69E-02	2.58E-02	9.55E-02
2449	497056.82	3858864.83	0.00758	0.00376	0.00423	0.00755	0.006	0.025	0.0038	0.00376	0.07908797	0.006944441	4.404E-07	3.98E-04	3.02E-03	3.46E-03	2.67E-02	2.56E-02	9.41E-02
2450	497156.82	3858864.83	0.00745	0.00372	0.00416	0.00741	0.006	0.023	0.0037	0.00372	0.07773158	0.006870564	4.331E-07	3.90E-04	2.97E-03	3.22E-03	2.64E-02	2.53E-02	9.23E-02
2451	497256.82	3858864.83	0.00738	0.00371	0.00412	0.00734	0.006	0.022	0.0037	0.00371	0.07700122	0.006852094	4.289E-07	3.87E-04	2.95E-03	3.04E-03	2.63E-02	2.52E-02	9.13E-02
2452	496856.82	3858964.83	0.00787	0.00395	0.00436	0.00787	0.007	0.027	0.004	0.00395	0.08211376	0.007295356	4.539E-07	4.15E-04	3.12E-03	3.82E-03	2.80E-02	2.69E-02	9.79E-02
2453	496956.82	3858964.83	0.00773	0.0039	0.00428	0.00772	0.007	0.025	0.0039	0.0039	0.08065304	0.00720301	4.456E-07	4.07E-04	3.06E-03	3.52E-03	2.76E-02	2.65E-02	9.60E-02
2454	497056.82	3858964.83	0.00761	0.00386	0.00421	0.00759	0.006	0.023	0.0039	0.00386	0.07940098	0.007129133	4.383E-07	4.00E-04	3.02E-03	3.27E-03	2.73E-02	2.62E-02	9.43E-02
2455	497156.82	3858964.83	0.00749	0.00382	0.00414	0.00747	0.006	0.022	0.0038	0.00382	0.07814893	0.007055256	4.31E-07	3.93E-04	2.97E-03	3.06E-03	2.71E-02	2.60E-02	9.28E-02
2456	497256.82	3858964.83	0.00747	0.00383	0.00413	0.00747	0.006	0.021	0.0038	0.00383	0.07794026	0.007073725	4.3E-07	3.93E-04	2.99E-03	2.90E-03	2.72E-02	2.60E-02	9.25E-02
2457	496856.82	3859064.83	0.00786	0.00404	0.00432	0.00788	0.007	0.025	0.0041	0.00404	0.08200943	0.00746158	4.497E-07	4.15E-04	3.09E-03	3.51E-03	2.87E-02	2.75E-02	9.77E-02
2458	496956.82	3859064.83	0.00773	0.004	0.00424	0.00775	0.007	0.023	0.004	0.004	0.08065304	0.007387703	4.414E-07	4.08E-04	3.05E-03	3.27E-03	2.83E-02	2.72E-02	9.59E-02
2459	497056.82	3859064.83	0.00762	0.00396	0.00418	0.00764	0.006	0.022	0.004	0.00396	0.07950532	0.007313826	4.352E-07	4.02E-04	3.01E-03	3.06E-03	2.81E-02	2.69E-02	9.45E-02
2460	497156.82	3859064.83	0.00752	0.00393	0.00412	0.00754	0.006	0.021	0.0039	0.00393	0.07846194	0.007258418	4.289E-07	3.97E-04	2.98E-03	2.88E-03	2.79E-02	2.67E-02	9.32E-02
2461	497256.82	3859064.83	0.00752	0.00396	0.00412	0.00759	0.006	0.02	0.004	0.00396	0.07846194	0.007313826	4.289E-07	4.00E-04	3.02E-03	2.76E-03	2.81E-02	2.69E-02	9.31E-02
2462	496856.82	3859164.83	0.00778	0.00413	0.00424	0.00784	0.006	0.023	0.0041	0.00413	0.08117472	0.007627803	4.414E-07	4.13E-04	3.02E-03	3.23E-03	2.92E-02	2.81E-02	9.66E-02
2463	496956.82	3859164.83	0.00765	0.00408	0.00417	0.0077	0.006	0.022	0.0041	0.00408	0.07981833	0.007535457	4.341E-07	4.06E-04	2.98E-03	3.03E-03	2.89E-02	2.77E-02	9.49E-02
2464	497056.82	3859164.83	0.00756	0.00405	0.00412	0.00762	0.006	0.02	0.0041	0.00405	0.0788793	0.007480049	4.289E-07	4.01E-04	2.96E-03	2.87E-03	2.87E-02	2.75E-02	9.38E-02
2465	497156.82	3859164.83	0.00752	0.00405	0.0041	0.00761	0.006	0.019	0.0041	0.00405	0.07846194	0.007480049	4.268E-07	4.01E-04	2.98E-03	2.74E-03	2.88E-02	2.75E-02	9.33E-02
2466	497256.82	3859164.83	0.00752	0.0041	0.00412	0.00769	0.006	0.019	0.0041	0.0041	0.07846194	0.007572395	4.289E-07	4.05E-04	3.03E-03	2.64E-03	2.90E-02	2.79E-02	9.32E-02
2467	496856.82	3859264.83	0.00767	0.0042	0.00414	0.00775	0.006	0.021	0.0042	0.0042	0.08002701	0.007757088	4.31E-07	4.08E-04	2.91E-03	2.98E-03	2.97E-02	2.86E-02	9.52E-02
2468	496956.82	3859264.83	0.00759	0.00418	0.0041	0.00769	0.006	0.02	0.0042	0.00418	0.07919231	0.007720149	4.268E-07	4.05E-04	2.91E-03	2.83E-03	2.96E-02	2.84E-02	9.43E-02
2469	497056.82	3859264.83	0.00754	0.00419	0.00408	0.00768	0.006	0.019	0.0042	0.00419	0.07867062	0.007738619	4.248E-07	4.05E-04	2.94E-03	2.71E-03	2.96E-02	2.85E-02	9.36E-02
2470	497156.82	3859264.83	0.00749	0.00419	0.00406	0.00766	0.006	0.019	0.0042	0.00419	0.07814893	0.007738619	4.227E-07	4.03E-04	2.96E-03	2.60E-03	2.96E-02	2.85E-02	9.30E-02
2471	497256.82	3859264.83	0.00746	0.00422	0.00407	0.00772	0.006	0.018	0.0042	0.00422	0.07783592	0.007794026	4.237E-07	4.07E-04	3.00E-03	2.52E-03	2.98E-02	2.87E-02	9.27E-02
2472	497088.92	3858620.93	0.00726	0.00349	0.00409	0.00728	0.006	0.027	0.0035	0.00349	0.07574916	0.006445771	4.258E-07	3.83E-04	2.95E-03	3.76E-03	2.47E-02	2.37E-02	9.03E-02
2473	497138.92	3858620.93	0.00724	0.00349	0.00407	0.00725	0.006	0.026	0.0035	0.00349	0.07554049	0.006445771	4.237E-07	3.82E-04	2.94E-03	3.61E-03	2.47E-02	2.37E-02	8.99E-02
2474	497188.92	3858620.93	0.00717	0.00348	0.00408	0.00719	0.006	0.025	0.0035	0.00348	0.07481013	0.006427301	4.248E-07	3.79E-04	2.93E-03	3.47E-03	2.47E-02	2.37E-02	8.90E-02
2475	497238.92	3858620.93	0.00713	0.00347	0.00405	0.00714	0.006	0.024	0.0035	0.00347	0.07439277	0.006408832	4.216E-07	3.76E-04	2.92E-03	3.34E-03	2.46E-02	2.36E-02	8.84E-02
2476	497088.92	3858670.93	0.00725	0.00353	0.00412	0.00727	0.006	0.026	0.0035	0.00353	0.07564483	0.006519648	4.289E-07	3.83E-04	2.93E-03	3.64E-03	2.50E-02	2.40E-02	9.01E-02
2477	497138.92	3858670.93	0.00725	0.00353	0.00411	0.00726	0.006	0.025	0.0035	0.00353	0.07564483	0.006519648	4.279E-07	3.82E-04	2.94E-03	3.51E-03	2.50E-02	2.40E-02	9.00E-02
2478	497188.92	3858670.93	0.00719	0.00351	0.00408	0.0072	0.006	0.024	0.0035	0.00351	0.0750188	0.006482709	4.248E-07	3.79E-04	2.91E-03	3.38E-03	2.49E-02	2.39E-02	8.92E-02
2479	497238.92	3858670.93	0.00717	0.00351	0.00406	0.00717	0.006	0.023	0.0035	0.00351	0.07481013	0.006482709	4.227E-07	3.78E-04	2.91E-03	3.27E-03	2.49E-02	2.39E-02	8.89E-02
2480	497088.92	3858720.93	0.00739	0.00359	0.00415	0.00735	0.006	0.025	0.0036	0.00359	0.07710555	0.006630463	4.32E-07	3.87E-04	2.99E-03	3.57E-03	2.54E-02	2.44E-02	9.17E-02
2481	497138.92	3858720.93	0.00722	0.00355	0.00409	0.00723	0.006	0.024	0.0036	0.00355	0.07533181	0.006556586	4.258E-07	3.81E-04	2.89E-03	3.42E-03	2.52E-02	2.41E-02	8.96E-02
2482	497188.92	3858720.93	0.00718	0.00354	0.00406	0.00718	0.006	0.023	0.0035	0.00354	0.07491446	0.006538117	4.227E-07	3.78E-04	2.88E-03	3.30E-03	2.51E-02	2.41E-02	8.90E-02
2483	497238.92	3858720.93	0.00725	0.00355	0.00407	0.00721	0.006	0.023	0.0036	0.00355	0.07564483	0.006556586	4.237E-07	3.80E-04	2.94E-03	3.21E-03	2.52E-02	2.41E-02	8.98E-02
2484	497088.92	3858770.93	0.00741	0.00363	0.00415	0.00737	0.006	0.025	0.0036	0.00363	0.07731423	0.00670434	4.32E-07	3.88E-04	2.97E-03	3.49E-03	2.57E-02	2.47E-02	9.19E-02
2485	497138.92	3858770.93	0.00735	0.00361	0.00411	0.0073	0.006	0.024	0.0036	0.00361	0.0766882	0.006667402	4.279E-07	3.85E-04	2.95E-03	3.36E-03	2.56E-02	2.45E-02	9.11E-02
2486	497188.92	3858770.93	0.00731	0.00359	0.00407	0.00725	0.006	0.023	0.0036	0.00359	0.07627085	0.006630463	4.237E-07	3.82E-04	2.93E-03	3.25E-03	2.54E-02	2.44E-02	9.05E-02
2487	497238.92	3858770.93	0.00733	0.0036	0.00408	0.00725	0.006	0.022	0.0036	0.0036	0.07647953	0.006648932	4.248E-07	3.82E-04	2.94E-03	3.16E-03	2.56E-02	2.45E-02	9.07E-02
2488	497396.65	3858622.63	0.00729	0.00352	0.00407	0.00723	0.006	0.022	0.0035	0.00352	0.07606218	0.006501178	4.237E-07	3.81E-04	3.02E-03	3.06E-03	2.50E-02	2.39E-02	9.01E-02
2489	497496.65	3858622.63	0.00734	0.00355	0.00408	0.00728	0.007	0.021	0.0036	0.00355	0.07658387	0.006556586	4.248E-07	3.83E-04	3.05E-03	2.92E-03	2.52E-02	2.41E-02	9.06E-02
2490	497596.65	3858622.63	0.00747	0.00361	0.00415	0.00741	0.007	0.02	0.0036	0.00361	0.07794026	0.006667402	4.32E-07	3.90E-04	3.13E-03	2.81E-03	2.57E-02	2.45E-02	9.21E-02

2491	497696.65	3858622.63	0.00745	0.00364	0.00415	0.00742	0.007	0.019	0.0037	0.00364	0.07773158	0.006722809	4.32E-07	3.91E-04	3.14E-03	2.69E-03	2.59E-02	2.48E-02	9.18E-02
2492	497796.65	3858622.63	0.00748	0.00368	0.00417	0.00749	0.007	0.018	0.0037	0.00368	0.07804459	0.006796686	4.341E-07	3.95E-04	3.19E-03	2.59E-03	2.62E-02	2.50E-02	9.22E-02
2493	497896.65	3858622.63	0.00751	0.00372	0.0042	0.00756	0.007	0.018	0.0037	0.00372	0.07835761	0.006870564	4.372E-07	3.98E-04	3.23E-03	2.49E-03	2.65E-02	2.53E-02	9.26E-02
2494	497396.65	3858722.63	0.00739	0.00362	0.00413	0.00734	0.006	0.021	0.0036	0.00362	0.07710555	0.006685871	4.3E-07	3.87E-04	3.02E-03	2.99E-03	2.57E-02	2.46E-02	9.13E-02
2495	497496.65	3858722.63	0.00743	0.00366	0.00415	0.0074	0.007	0.02	0.0037	0.00366	0.07752291	0.006759748	4.32E-07	3.90E-04	3.06E-03	2.86E-03	2.60E-02	2.49E-02	9.17E-02
2496	497596.65	3858722.63	0.00752	0.00372	0.00419	0.00752	0.007	0.02	0.0037	0.00372	0.07846194	0.006870564	4.362E-07	3.96E-04	3.13E-03	2.75E-03	2.64E-02	2.53E-02	9.27E-02
2497	497696.65	3858722.63	0.00753	0.00375	0.0042	0.00757	0.007	0.019	0.0038	0.00375	0.07856628	0.006925971	4.372E-07	3.99E-04	3.17E-03	2.65E-03	2.66E-02	2.55E-02	9.28E-02
2498	497796.65	3858722.63	0.0075	0.00377	0.0042	0.00758	0.007	0.018	0.0038	0.00377	0.07825327	0.00696291	4.372E-07	3.99E-04	3.17E-03	2.54E-03	2.68E-02	2.56E-02	9.25E-02
2499	497896.65	3858722.63	0.00749	0.0038	0.00422	0.00762	0.007	0.017	0.0038	0.0038	0.07814893	0.007018318	4.393E-07	4.01E-04	3.20E-03	2.45E-03	2.71E-02	2.58E-02	9.24E-02
2500	497396.65	3858822.63	0.00743	0.00371	0.00414	0.0074	0.006	0.021	0.0037	0.00371	0.07752291	0.006852094	4.31E-07	3.90E-04	3.01E-03	2.90E-03	2.64E-02	2.52E-02	9.18E-02
2501	497496.65	3858822.63	0.00744	0.00374	0.00414	0.00744	0.006	0.02	0.0038	0.00374	0.07762724	0.006907502	4.31E-07	3.92E-04	3.03E-03	2.77E-03	2.66E-02	2.54E-02	9.19E-02
2502	497596.65	3858822.63	0.00754	0.0038	0.00418	0.00759	0.007	0.019	0.0038	0.0038	0.07867062	0.007018318	4.352E-07	4.00E-04	3.12E-03	2.67E-03	2.70E-02	2.58E-02	9.30E-02
2503	497696.65	3858822.63	0.00751	0.00383	0.00421	0.00762	0.007	0.018	0.0039	0.00383	0.07835761	0.007073725	4.383E-07	4.01E-04	3.14E-03	2.57E-03	2.73E-02	2.60E-02	9.28E-02
2504	497796.65	3858822.63	0.00749	0.00385	0.0042	0.00763	0.007	0.018	0.0039	0.00385	0.07814893	0.007110664	4.372E-07	4.02E-04	3.16E-03	2.47E-03	2.73E-02	2.62E-02	9.25E-02
2505	497896.65	3858822.63	0.00749	0.00391	0.00424	0.00773	0.007	0.017	0.0039	0.00391	0.07814893	0.007221479	4.414E-07	4.07E-04	3.20E-03	2.39E-03	2.78E-02	2.66E-02	9.26E-02
2506	497396.65	3858922.63	0.00745	0.00381	0.00413	0.00746	0.006	0.02	0.0038	0.00381	0.07773158	0.007036787	4.3E-07	3.93E-04	3.01E-03	2.78E-03	2.70E-02	2.59E-02	9.20E-02
2507	497496.65	3858922.63	0.00751	0.00387	0.00417	0.00759	0.007	0.019	0.0039	0.00387	0.07835761	0.007147602	4.341E-07	4.00E-04	3.08E-03	2.68E-03	2.74E-02	2.63E-02	9.28E-02
2508	497596.65	3858922.63	0.00745	0.00386	0.00414	0.00754	0.007	0.018	0.0039	0.00386	0.07773158	0.007129133	4.31E-07	3.97E-04	3.06E-03	2.56E-03	2.74E-02	2.62E-02	9.21E-02
2509	497696.65	3858922.63	0.00751	0.00393	0.0042	0.0077	0.007	0.018	0.0039	0.00393	0.07835761	0.007258418	4.372E-07	4.06E-04	3.14E-03	2.48E-03	2.78E-02	2.67E-02	9.28E-02
2510	497796.65	3858922.63	0.00748	0.00398	0.00424	0.00777	0.007	0.017	0.004	0.00398	0.07804459	0.007350764	4.414E-07	4.09E-04	3.17E-03	2.41E-03	2.82E-02	2.71E-02	9.25E-02
2511	497896.65	3858922.63	0.00748	0.00404	0.00428	0.00791	0.007	0.017	0.004	0.00404	0.07804459	0.00746158	4.456E-07	4.17E-04	3.24E-03	2.34E-03	2.86E-02	2.75E-02	9.27E-02
2512	497364.44	3858201.52	0.00698	0.00325	0.00395	0.00713	0.007	0.03	0.0033	0.00325	0.07282771	0.006002508	4.112E-07	3.76E-04	3.10E-03	4.26E-03	2.30E-02	2.21E-02	8.75E-02
2513	497414.44	3858201.52	0.00703	0.00326	0.00395	0.00716	0.007	0.029	0.0033	0.00326	0.0733494	0.006020978	4.112E-07	3.77E-04	3.11E-03	4.02E-03	2.31E-02	2.22E-02	8.78E-02
2514	497464.44	3858201.52	0.00707	0.00327	0.00395	0.00718	0.007	0.027	0.0033	0.00327	0.07376675	0.006039447	4.112E-07	3.78E-04	3.12E-03	3.83E-03	2.32E-02	2.22E-02	8.81E-02
2515	497514.44	3858201.52	0.00706	0.00328	0.00398	0.00716	0.007	0.026	0.0033	0.00328	0.07366241	0.006057916	4.143E-07	3.77E-04	3.13E-03	3.67E-03	2.32E-02	2.23E-02	8.78E-02
2516	497564.44	3858201.52	0.00703	0.00328	0.00396	0.00712	0.007	0.025	0.0033	0.00328	0.0733494	0.006057916	4.123E-07	3.75E-04	3.11E-03	3.52E-03	2.32E-02	2.23E-02	8.73E-02
2517	497614.44	3858201.52	0.00703	0.00328	0.00396	0.00711	0.007	0.024	0.0033	0.00328	0.0733494	0.006057916	4.123E-07	3.75E-04	3.11E-03	3.38E-03	2.32E-02	2.23E-02	8.72E-02
2518	497364.44	3858251.52	0.00707	0.00329	0.004	0.00719	0.007	0.028	0.0033	0.00329	0.07376675	0.006076385	4.164E-07	3.79E-04	3.11E-03	4.01E-03	2.33E-02	2.24E-02	8.83E-02
2519	497414.44	3858251.52	0.00713	0.00331	0.00401	0.00722	0.007	0.027	0.0033	0.00331	0.07439277	0.006113324	4.175E-07	3.80E-04	3.14E-03	3.82E-03	2.35E-02	2.25E-02	8.89E-02
2520	497464.44	3858251.52	0.00708	0.0033	0.00399	0.00717	0.007	0.026	0.0033	0.0033	0.07387109	0.006094855	4.154E-07	3.78E-04	3.11E-03	3.65E-03	2.34E-02	2.24E-02	8.80E-02
2521	497514.44	3858251.52	0.00701	0.00329	0.00396	0.00711	0.007	0.025	0.0033	0.00329	0.07314072	0.006076385	4.123E-07	3.75E-04	3.08E-03	3.51E-03	2.33E-02	2.24E-02	8.71E-02
2522	497564.44	3858251.52	0.00699	0.00328	0.00395	0.00707	0.007	0.024	0.0033	0.00328	0.07293205	0.006057916	4.112E-07	3.72E-04	3.07E-03	3.37E-03	2.33E-02	2.23E-02	8.68E-02
2523	497614.44	3858251.52	0.00696	0.00328	0.00393	0.00704	0.007	0.023	0.0033	0.00328	0.07261903	0.006057916	4.091E-07	3.71E-04	3.06E-03	3.24E-03	2.32E-02	2.23E-02	8.63E-02
2524	497364.44	3858301.52	0.00711	0.00332	0.00401	0.00719	0.007	0.027	0.0033	0.00332	0.0741841	0.006131793	4.175E-07	3.79E-04	3.09E-03	3.81E-03	2.35E-02	2.26E-02	8.85E-02
2525	497414.44	3858301.52	0.00712	0.00333	0.00401	0.0072	0.007	0.026	0.0033	0.00333	0.07428844	0.006150262	4.175E-07	3.79E-04	3.10E-03	3.65E-03	2.37E-02	2.26E-02	8.86E-02
2526	497464.44	3858301.52	0.00706	0.00332	0.00398	0.00714	0.007	0.025	0.0033	0.00332	0.07366241	0.006131793	4.143E-07	3.76E-04	3.08E-03	3.51E-03	2.35E-02	2.26E-02	8.77E-02
2527	497514.44	3858301.52	0.00701	0.00331	0.00396	0.00709	0.007	0.024	0.0033	0.00331	0.07314072	0.006113324	4.123E-07	3.73E-04	3.06E-03	3.37E-03	2.35E-02	2.25E-02	8.70E-02
2528	497564.44	3858301.52	0.00695	0.00329	0.00393	0.00702	0.006	0.023	0.0033	0.00329	0.0725147	0.006076385	4.091E-07	3.70E-04	3.03E-03	3.24E-03	2.33E-02	2.24E-02	8.62E-02
2529	497614.44	3858301.52	0.00692	0.00329	0.00391	0.00698	0.006	0.022	0.0033	0.00329	0.07220168	0.006076385	4.071E-07	3.68E-04	3.02E-03	3.13E-03	2.33E-02	2.24E-02	8.57E-02
2530	497364.44	3858351.52	0.00713	0.00335	0.00402	0.0072	0.007	0.026	0.0034	0.00335	0.07439277	0.006187201	4.185E-07	3.79E-04	3.08E-03	3.65E-03	2.37E-02	2.28E-02	8.87E-02
2531	497414.44	3858351.52	0.00708	0.00334	0.004	0.00715	0.007	0.025	0.0033	0.00334	0.07387109	0.006168732	4.164E-07	3.77E-04	3.06E-03	3.51E-03	2.37E-02	2.27E-02	8.79E-02
2532	497464.44	3858351.52	0.00706	0.00334	0.00398	0.00711	0.007	0.024	0.0033	0.00334	0.07366241	0.006168732	4.143E-07	3.75E-04	3.05E-03	3.38E-03	2.37E-02	2.27E-02	8.76E-02
2533	497514.44	3858351.52	0.00702	0.00333	0.00396	0.00707	0.006	0.023	0.0033	0.00333	0.07324506	0.006150262	4.123E-07	3.72E-04	3.03E-03	3.26E-03	2.36E-02	2.26E-02	8.70E-02
2534	497564.44	3858351.52	0.00694	0.00331	0.00393	0.00699	0.006	0.022	0.0033	0.00331	0.07241036	0.006113324	4.091E-07	3.68E-04	3.00E-03	3.14E-03	2.35E-02	2.25E-02	8.60E-02
2535	497614.44	3858351.52	0.00691	0.0033	0.00391	0.00696	0.006	0.022	0.0033	0.0033	0.07209735	0.006094855	4.071E-07	3.67E-04	2.99E-03	3.03E-03	2.35E-02	2.24E-02	8.56E-02
2536	497364.44	3858401.52	0.0071	0.00335	0.00399	0.00714	0.006	0.025	0.0034	0.00335	0.07407976	0.006187201	4.154E-07	3.76E-04	3.03E-03	3.51E-03	2.38E-02	2.28E-02	8.82E-02
2537	497414.44	3858401.52	0.00707	0.00336	0.00399	0.00711	0.006	0.024	0.0034	0.00336	0.07376675	0.00620567	4.154E-07	3.75E-04	3.03E-03	3.38E-03	2.38E-02	2.28E-02	8.77E-02
2538	497464.44	3858401.52	0.00702	0.00335	0.00397	0.00706	0.006	0.023	0.0034	0.00335	0.07324506	0.006187201	4.133E-07	3.72E-04	3.01E-03	3.26E-03	2.37E-02	2.28E-02	8.70E-02
2539	497514.44	3858401.52	0.00699	0.00334	0.00395	0.00702	0.006	0.022	0.0033	0.00334	0.07293205	0.006168732	4.112E-07	3.70E-04	2.99E-03	3.15E-03	2.37E-02	2.27E-02	8.66E-02
2540	497564.44	3858401.52	0.00702	0.00335	0.00395	0.00704	0.006	0.022	0.0034	0.00335	0.07324506	0.006187201	4.112E-07	3.71E-04	3.01E-03	3.05E-03	2.38E-02	2.28E-02	8.69E-02
2541	497614.44	3858401.52	0.00706	0.00336	0.00395	0.00707	0.006	0.021	0.0034	0.00336	0.07366241	0.00620567	4.112E-07	3.72E-04	3.02E-03	2.95E-03	2.39E-02	2.28E-02	8.72E-02
2542	493478.11	3860497.94	0.00779	0.0164	0.00533	0.01328	0.004	0.04	0.0164	0.0164	0.08127906	0.030289581	5.549E-07	7.00E-04	1.80E-03	5.62E-03	1.16E-01	1.12E-01	1.24E-01
2543	493528.11	3860497.94	0.00772	0.0161	0.00531	0.01314	0.004	0.039	0.016	0.0161	0.0805487	0.029735503	5.528E-07	6.92E-04	1.78E-03	5.54E-03	1.14E-01	1.09E-01	1.22E-01
2544	493478.11	3860547.94	0.00751	0.01708	0.00507	0.01271	0.004	0.033	0.017	0.01708	0.07835761	0.03154549	5.278E-07	6.69E-04	1.78E-03	4.63E-03	1.21E-01	1.16E-01	1.22E-01
2545	493528.11	3860547.94	0.00743	0.01677	0.00504	0.01259	0.004	0.033	0.0167	0.01677	0.07752291	0.030972944	5.247E-07	6.63E-04	1.76E-03	4.58E-03	1.18E-01	1.14E-01	1.20E-01
2546	493478.11	3860597.94	0.00723	0.01779	0.00482	0.01217	0.004	0.028	0.0178	0.01779	0.07543615	0.032856808	5.018E-07	6.41E-04	1.75E-03	3.90E-03	1.26E-01	1.21E-01	1.19E-01
2547	493528.11	3860597.94	0.00716	0.01746	0.0048	0.01206	0.004	0.028	0.0174	0.01746	0.07470579	0.032247322	4.997E-07	6.35E-04	1.74E-03	3.87E-03	1.23E-01	1.19E-01	1.18E-01
2548	493561.88	3860524.64	0.00752	0.01623	0.00515	0.01276	0.004	0.035	0.0162	0.01623	0.07846194	0.029975604	5.361E-07	6.72E-04	1.76E-03	4.95E-03	1.15E-01	1.10E-01	1.20E-01

2549	493591.88	3860524.64	0.00749	0.016	0.00515	0.01269	0.004	0.035	0.0159	0.016	0.07814893	0.029550811	5.361E-07	6.68E-04	1.75E-03	4.92E-03	1.13E-01	1.09E-01	1.19E-01
2550	493561.88	3860554.64	0.00735	0.01664	0.005	0.01244	0.004	0.032	0.0166	0.01664	0.0766882	0.030732843	5.205E-07	6.55E-04	1.75E-03	4.44E-03	1.18E-01	1.13E-01	1.19E-01
2551	493591.88	3860554.64	0.00733	0.01637	0.005	0.01238	0.004	0.031	0.0163	0.01637	0.07647953	0.030234173	5.205E-07	6.52E-04	1.74E-03	4.42E-03	1.16E-01	1.11E-01	1.18E-01
2552	492880.5	3860293.11	0.01052	0.01928	0.00695	0.01962	0.004	0.404	0.0193	0.01928	0.10976325	0.035608727	7.235E-07	1.03E-03	2.06E-03	5.69E-02	1.37E-01	1.31E-01	2.11E-01
2553	492930.5	3860293.11	0.01036	0.01862	0.00694	0.0192	0.004	0.369	0.0186	0.01862	0.10809385	0.034389756	7.225E-07	1.01E-03	2.05E-03	5.19E-02	1.32E-01	1.27E-01	2.03E-01
2554	492980.5	3860293.11	0.01022	0.01797	0.0069	0.0188	0.004	0.349	0.018	0.01797	0.10663312	0.033189254	7.183E-07	9.90E-04	2.05E-03	4.91E-02	1.27E-01	1.22E-01	1.97E-01
2555	493030.5	3860293.11	0.01016	0.0169	0.00675	0.0183	0.004	0.325	0.0169	0.0169	0.1060071	0.031213044	7.027E-07	9.64E-04	2.05E-03	4.57E-02	1.20E-01	1.15E-01	1.91E-01
2556	493080.5	3860293.11	0.01014	0.01585	0.00658	0.01769	0.004	0.309	0.0158	0.01585	0.10579842	0.029273772	6.85E-07	9.32E-04	2.06E-03	4.35E-02	1.12E-01	1.08E-01	1.86E-01
2557	493130.5	3860293.11	0.00991	0.01595	0.00663	0.01755	0.004	0.312	0.0159	0.01595	0.10339865	0.029458464	6.902E-07	9.24E-04	2.03E-03	4.39E-02	1.13E-01	1.08E-01	1.84E-01
2558	493180.5	3860293.11	0.00971	0.01592	0.00665	0.0173	0.004	0.303	0.0159	0.01592	0.1013119	0.029403057	6.923E-07	9.11E-04	2.00E-03	4.26E-02	1.12E-01	1.08E-01	1.80E-01
2559	493230.5	3860293.11	0.00957	0.01563	0.00662	0.017	0.004	0.299	0.0156	0.01563	0.09985117	0.028867448	6.892E-07	8.95E-04	1.97E-03	4.20E-02	1.10E-01	1.06E-01	1.78E-01
2560	493280.5	3860293.11	0.0095	0.01506	0.00653	0.01664	0.004	0.305	0.015	0.01506	0.09912081	0.027814701	6.798E-07	8.76E-04	1.96E-03	4.29E-02	1.06E-01	1.02E-01	1.76E-01
2561	493330.5	3860293.11	0.0094	0.01465	0.00646	0.01633	0.004	0.299	0.0146	0.01465	0.09807743	0.027057461	6.725E-07	8.60E-04	1.95E-03	4.20E-02	1.03E-01	9.96E-02	1.74E-01
2562	493380.5	3860293.11	0.0093	0.01431	0.00641	0.01604	0.004	0.291	0.0142	0.01431	0.09703405	0.026429506	6.673E-07	8.45E-04	1.93E-03	4.10E-02	1.01E-01	9.73E-02	1.71E-01
2563	492880.5	3860343.11	0.01009	0.02018	0.00652	0.01838	0.004	0.287	0.0202	0.02018	0.10527673	0.03727096	6.788E-07	9.68E-04	2.01E-03	4.04E-02	1.43E-01	1.37E-01	1.92E-01
2564	492930.5	3860343.11	0.00994	0.01951	0.00651	0.01806	0.004	0.208	0.0195	0.01951	0.10371167	0.03603352	6.777E-07	9.51E-04	2.01E-03	2.93E-02	1.38E-01	1.33E-01	1.78E-01
2565	492980.5	3860343.11	0.00989	0.01835	0.00651	0.01773	0.004	0.164	0.0183	0.01835	0.10318998	0.033891086	6.777E-07	9.34E-04	2.03E-03	2.31E-02	1.30E-01	1.25E-01	1.68E-01
2566	493030.5	3860343.11	0.00975	0.01778	0.00647	0.01741	0.004	0.146	0.0178	0.01778	0.10172925	0.032838338	6.736E-07	9.17E-04	2.02E-03	2.05E-02	1.26E-01	1.21E-01	1.63E-01
2567	493080.5	3860343.11	0.00971	0.01678	0.00633	0.01698	0.004	0.132	0.0168	0.01678	0.1013119	0.030991413	6.59E-07	8.94E-04	2.02E-03	1.85E-02	1.19E-01	1.14E-01	1.58E-01
2568	493130.5	3860343.11	0.00955	0.01654	0.00632	0.01673	0.004	0.128	0.0165	0.01654	0.0996425	0.030548151	6.58E-07	8.81E-04	2.00E-03	1.80E-02	1.17E-01	1.12E-01	1.56E-01
2569	493180.5	3860343.11	0.00935	0.01652	0.00637	0.01654	0.004	0.124	0.0165	0.01652	0.09755574	0.030511212	6.632E-07	8.71E-04	1.97E-03	1.74E-02	1.17E-01	1.12E-01	1.53E-01
2570	493230.5	3860343.11	0.00923	0.01622	0.00634	0.01627	0.004	0.12	0.0162	0.01622	0.09630369	0.029957134	6.6E-07	8.57E-04	1.95E-03	1.69E-02	1.14E-01	1.10E-01	1.50E-01
2571	493280.5	3860343.11	0.00916	0.01562	0.00625	0.01596	0.004	0.12	0.0156	0.01562	0.09557333	0.028848979	6.507E-07	8.41E-04	1.94E-03	1.68E-02	1.10E-01	1.06E-01	1.48E-01
2572	493330.5	3860343.11	0.00908	0.01513	0.00619	0.01568	0.004	0.118	0.0151	0.01513	0.09473862	0.027943985	6.444E-07	8.26E-04	1.93E-03	1.66E-02	1.07E-01	1.03E-01	1.46E-01
2573	493380.5	3860343.11	0.00898	0.0148	0.00615	0.01543	0.004	0.117	0.0147	0.0148	0.09369525	0.0273345	6.403E-07	8.13E-04	1.91E-03	1.64E-02	1.04E-01	1.01E-01	1.44E-01
2574	492880.5	3860393.11	0.00965	0.02115	0.00613	0.01715	0.004	0.24	0.0212	0.02115	0.10068587	0.039062478	6.382E-07	9.03E-04	1.96E-03	3.37E-02	1.50E-01	1.44E-01	1.83E-01
2575	492930.5	3860393.11	0.00953	0.02036	0.00613	0.01693	0.004	0.16	0.0204	0.02036	0.09943382	0.037603407	6.382E-07	8.92E-04	1.96E-03	2.25E-02	1.44E-01	1.38E-01	1.68E-01
2576	492980.5	3860393.11	0.00944	0.01941	0.00616	0.0167	0.004	0.123	0.0194	0.01941	0.09849478	0.035848827	6.413E-07	8.80E-04	1.97E-03	1.72E-02	1.38E-01	1.32E-01	1.60E-01
2577	493030.5	3860393.11	0.00935	0.01864	0.00617	0.01646	0.004	0.103	0.0186	0.01864	0.09755574	0.034426695	6.423E-07	8.67E-04	1.97E-03	1.45E-02	1.32E-01	1.27E-01	1.55E-01
2578	493080.5	3860393.11	0.00931	0.01759	0.00606	0.01615	0.004	0.09	0.0176	0.01759	0.09713839	0.032487423	6.309E-07	8.51E-04	1.98E-03	1.27E-02	1.25E-01	1.20E-01	1.50E-01
2579	493130.5	3860393.11	0.00916	0.0174	0.00607	0.01596	0.004	0.085	0.0174	0.0174	0.09557333	0.032136507	6.319E-07	8.41E-04	1.96E-03	1.20E-02	1.23E-01	1.18E-01	1.47E-01
2580	493180.5	3860393.11	0.00898	0.01733	0.0061	0.01576	0.004	0.081	0.0173	0.01733	0.09369525	0.032007222	6.35E-07	8.30E-04	1.94E-03	1.14E-02	1.23E-01	1.18E-01	1.45E-01
2581	493230.5	3860393.11	0.00888	0.01688	0.00607	0.01553	0.004	0.078	0.0168	0.01688	0.09265187	0.031176105	6.319E-07	8.18E-04	1.93E-03	1.09E-02	1.19E-01	1.15E-01	1.42E-01
2582	493280.5	3860393.11	0.00883	0.01622	0.00599	0.01528	0.004	0.076	0.0162	0.01622	0.09213018	0.029957134	6.236E-07	8.05E-04	1.92E-03	1.06E-02	1.15E-01	1.10E-01	1.40E-01
2583	493330.5	3860393.11	0.00875	0.01571	0.00593	0.01504	0.004	0.074	0.0157	0.01571	0.09129548	0.029015202	6.173E-07	7.92E-04	1.91E-03	1.04E-02	1.11E-01	1.07E-01	1.38E-01
2584	493380.5	3860393.11	0.00867	0.01533	0.00589	0.01483	0.004	0.073	0.0153	0.01533	0.09046078	0.028313371	6.132E-07	7.81E-04	1.89E-03	1.03E-02	1.08E-01	1.04E-01	1.36E-01
2585	492880.5	3860443.11	0.00923	0.02213	0.00578	0.016	0.004	0.112	0.0222	0.02213	0.09630369	0.040872465	6.017E-07	8.43E-04	1.91E-03	1.57E-02	1.57E-01	1.50E-01	1.62E-01
2586	492930.5	3860443.11	0.00911	0.02142	0.00577	0.01583	0.004	0.094	0.0214	0.02142	0.09505164	0.039561148	6.007E-07	8.34E-04	1.91E-03	1.33E-02	1.52E-01	1.46E-01	1.57E-01
2587	492980.5	3860443.11	0.00902	0.02053	0.00579	0.01568	0.004	0.082	0.0206	0.02053	0.0941126	0.037917384	6.028E-07	8.26E-04	1.92E-03	1.16E-02	1.46E-01	1.40E-01	1.52E-01
2588	493030.5	3860443.11	0.00894	0.0197	0.0058	0.01551	0.004	0.073	0.0197	0.0197	0.0932779	0.036384436	6.038E-07	8.17E-04	1.93E-03	1.03E-02	1.40E-01	1.34E-01	1.48E-01
2589	493080.5	3860443.11	0.00884	0.01905	0.0058	0.01533	0.004	0.067	0.0191	0.01905	0.09223452	0.035183934	6.038E-07	8.07E-04	1.92E-03	9.49E-03	1.35E-01	1.30E-01	1.45E-01
2590	493130.5	3860443.11	0.00874	0.01846	0.00579	0.01515	0.004	0.063	0.0185	0.01846	0.09119114	0.034094248	6.028E-07	7.98E-04	1.92E-03	8.88E-03	1.31E-01	1.26E-01	1.42E-01
2591	493180.5	3860443.11	0.0086	0.01827	0.00574	0.01496	0.004	0.06	0.0183	0.01827	0.08973042	0.033743332	5.976E-07	7.88E-04	1.90E-03	8.43E-03	1.29E-01	1.24E-01	1.40E-01
2592	493230.5	3860443.11	0.00855	0.01752	0.00576	0.01478	0.004	0.058	0.0175	0.01752	0.08920873	0.032358138	5.997E-07	7.79E-04	1.90E-03	8.10E-03	1.24E-01	1.19E-01	1.37E-01
2593	493280.5	3860443.11	0.00848	0.01696	0.00575	0.0146	0.004	0.056	0.0169	0.01696	0.08847836	0.031323859	5.986E-07	7.69E-04	1.89E-03	7.86E-03	1.20E-01	1.15E-01	1.35E-01
2594	493330.5	3860443.11	0.00844	0.0163	0.00568	0.0144	0.004	0.055	0.0163	0.0163	0.08806101	0.030104888	5.913E-07	7.59E-04	1.89E-03	7.68E-03	1.15E-01	1.11E-01	1.33E-01
2595	493380.5	3860443.11	0.00834	0.016	0.00566	0.01423	0.004	0.054	0.016	0.016	0.08701764	0.029550811	5.892E-07	7.50E-04	1.87E-03	7.54E-03	1.13E-01	1.09E-01	1.31E-01
2596	493180.5	3860493.11	0.00828	0.01899	0.00544	0.01418	0.004	0.046	0.019	0.01899	0.08639161	0.035073119	5.663E-07	7.47E-04	1.87E-03	6.48E-03	1.34E-01	1.29E-01	1.36E-01
2597	493230.5	3860493.11	0.00821	0.01834	0.00545	0.01405	0.004	0.045	0.0183	0.01834	0.08566125	0.033872617	5.674E-07	7.40E-04	1.87E-03	6.31E-03	1.30E-01	1.25E-01	1.34E-01
2598	493280.5	3860493.11	0.00816	0.01769	0.00545	0.0139	0.004	0.044	0.0177	0.01769	0.08513956	0.032672115	5.674E-07	7.32E-04	1.86E-03	6.16E-03	1.25E-01	1.20E-01	1.31E-01
2599	493330.5	3860493.11	0.00809	0.01716	0.00545	0.01376	0.004	0.043	0.0171	0.01716	0.08440919	0.031693245	5.674E-07	7.25E-04	1.85E-03	6.04E-03	1.21E-01	1.17E-01	1.29E-01
2600	493380.5	3860493.11	0.008	0.01683	0.00543	0.01362	0.004	0.042	0.0168	0.01683	0.08347015	0.031083759	5.653E-07	7.17E-04	1.84E-03	5.94E-03	1.19E-01	1.14E-01	1.28E-01
2601	493330.5	3860543.11	0.00778	0.01793	0.00517	0.01313	0.004	0.035	0.0179	0.01793	0.08117472	0.033115377	5.382E-07	6.92E-04	1.82E-03	4.90E-03	1.27E-01	1.22E-01	1.27E-01
2602	493380.5	3860543.11	0.00769	0.01759	0.00514	0.01301	0.004	0.034	0.0176	0.01759	0.08023569	0.032487423	5.351E-07	6.85E-04	1.81E-03	4.84E-03	1.24E-01	1.20E-01	1.25E-01
2603	494135.94	3860876.85	0.00546	0.01812	0.00364	0.00911	0.003	0.013	0.0181	0.01812	0.05696838	0.033466293	3.789E-07	4.80E-04	1.49E-03	1.89E-03	1.28E-01	1.23E-01	9.91E-02
2604	494185.94	3860876.85	0.00544	0.01783	0.00363	0.00906	0.003	0.013	0.0178	0.01783	0.0567597	0.032930685	3.779E-07	4.77E-04	1.47E-03	1.87E-03	1.26E-01	1.21E-01	9.83E-02
2605	494135.94	3860926.85	0.00527	0.01933	0.00349	0.00881	0.003	0.012	0.0193	0.01933	0.05498596	0.035701073	3.633E-07	4.64E-04	1.47E-03	1.73E-03	1.37E-01	1.31E-01	9.96E-02
2606	494185.94	3860926.85	0.00525	0.01899	0.00348	0.00877	0.003	0.012	0.0189	0.01899	0.05477729	0.035073119	3.623E-07	4.62E-04	1.46E-03	1.72E-03	1.34E-01	1.29E-01	9.86E-02

2607	494135.94	3860976.85	0.00509	0.02073	0.00334	0.00855	0.003	0.011	0.0207	0.02073	0.05310789	0.038286769	3.477E-07	4.50E-04	1.45E-03	1.60E-03	1.47E-01	1.41E-01	1.01E-01
2608	494185.94	3860976.85	0.00508	0.02034	0.00334	0.00851	0.003	0.011	0.0203	0.02034	0.05300355	0.037566468	3.477E-07	4.48E-04	1.44E-03	1.59E-03	1.44E-01	1.38E-01	9.96E-02
2609	494135.94	3861026.85	0.00492	0.02243	0.00321	0.00828	0.003	0.01	0.0224	0.02243	0.05133414	0.041426543	3.342E-07	4.36E-04	1.43E-03	1.48E-03	1.59E-01	1.53E-01	1.02E-01
2610	494185.94	3861026.85	0.0049	0.02197	0.00321	0.00825	0.003	0.01	0.0219	0.02197	0.05112547	0.040576957	3.342E-07	4.35E-04	1.43E-03	1.47E-03	1.55E-01	1.49E-01	1.01E-01
2611	494135.94	3861076.85	0.00475	0.02449	0.00308	0.00802	0.003	0.01	0.0244	0.02449	0.0495604	0.04523121	3.206E-07	4.22E-04	1.41E-03	1.37E-03	1.73E-01	1.67E-01	1.05E-01
2612	494185.94	3861076.85	0.00474	0.02395	0.00308	0.008	0.003	0.01	0.0239	0.02395	0.04945607	0.04423387	3.206E-07	4.21E-04	1.40E-03	1.37E-03	1.69E-01	1.63E-01	1.03E-01
2613	490360.04	3858710.04	0.02714	0.01727	0.01729	0.06213	0.015	0.034	0.0163	0.01727	0.2831725	0.031896406	1.8E-06	3.27E-03	7.02E-03	4.83E-03	1.16E-01	1.17E-01	3.28E-01
2614	490410.04	3858710.04	0.02674	0.01679	0.01776	0.06035	0.015	0.033	0.0159	0.01679	0.27899899	0.031009882	1.849E-06	3.18E-03	7.03E-03	4.70E-03	1.12E-01	1.14E-01	3.23E-01
2615	490460.04	3858710.04	0.02642	0.01623	0.01778	0.05841	0.015	0.032	0.0153	0.01623	0.27566018	0.029975604	1.851E-06	3.08E-03	7.05E-03	4.54E-03	1.09E-01	1.10E-01	3.19E-01
2616	490510.04	3858710.04	0.02606	0.01579	0.01757	0.05679	0.015	0.031	0.0149	0.01579	0.27190403	0.029162956	1.829E-06	2.99E-03	7.05E-03	4.42E-03	1.06E-01	1.07E-01	3.14E-01
2617	490560.04	3858710.04	0.0257	0.0154	0.01734	0.05539	0.015	0.031	0.0146	0.0154	0.26814787	0.028442655	1.805E-06	2.92E-03	7.05E-03	4.31E-03	1.03E-01	1.05E-01	3.09E-01
2618	490610.04	3858710.04	0.02535	0.01501	0.0172	0.05409	0.015	0.03	0.0142	0.01501	0.26449605	0.027722354	1.791E-06	2.85E-03	7.05E-03	4.21E-03	1.01E-01	1.02E-01	3.05E-01
2619	490660.04	3858710.04	0.02497	0.01472	0.01726	0.05315	0.015	0.029	0.0139	0.01472	0.26053122	0.027186746	1.797E-06	2.80E-03	7.04E-03	4.13E-03	9.87E-02	1.00E-01	3.00E-01
2620	490710.04	3858710.04	0.02469	0.01431	0.01728	0.05182	0.015	0.029	0.0135	0.01431	0.25760976	0.026429506	1.799E-06	2.73E-03	7.06E-03	4.01E-03	9.59E-02	9.73E-02	2.96E-01
2621	490760.04	3858710.04	0.0244	0.01395	0.01735	0.05051	0.015	0.028	0.0132	0.01395	0.25458397	0.025764613	1.806E-06	2.66E-03	7.07E-03	3.92E-03	9.36E-02	9.49E-02	2.93E-01
2622	490810.04	3858710.04	0.02412	0.01361	0.01741	0.04907	0.015	0.027	0.0129	0.01361	0.25166251	0.025136658	1.812E-06	2.58E-03	7.08E-03	3.82E-03	9.13E-02	9.25E-02	2.89E-01
2623	490860.04	3858710.04	0.02388	0.01322	0.01737	0.04739	0.015	0.026	0.0125	0.01322	0.24915841	0.024416357	1.808E-06	2.50E-03	7.10E-03	3.72E-03	8.87E-02	8.99E-02	2.86E-01
2624	490360.04	3858760.04	0.02732	0.01799	0.01898	0.06036	0.014	0.035	0.017	0.01799	0.28505058	0.033226193	1.976E-06	3.18E-03	6.64E-03	4.95E-03	1.20E-01	1.22E-01	3.31E-01
2625	490410.04	3858760.04	0.02693	0.01744	0.01917	0.05843	0.014	0.034	0.0165	0.01744	0.28098141	0.032210384	1.996E-06	3.08E-03	6.65E-03	4.80E-03	1.17E-01	1.19E-01	3.26E-01
2626	490460.04	3858760.04	0.02657	0.01689	0.01897	0.05652	0.014	0.033	0.016	0.01689	0.27722525	0.031194575	1.975E-06	2.98E-03	6.66E-03	4.65E-03	1.13E-01	1.15E-01	3.21E-01
2627	490510.04	3858760.04	0.02623	0.01634	0.0187	0.05472	0.014	0.032	0.0155	0.01634	0.27367777	0.030178765	1.947E-06	2.88E-03	6.66E-03	4.50E-03	1.09E-01	1.11E-01	3.16E-01
2628	490560.04	3858760.04	0.02588	0.01588	0.0186	0.05322	0.014	0.031	0.015	0.01588	0.27002595	0.02932918	1.936E-06	2.80E-03	6.66E-03	4.38E-03	1.06E-01	1.08E-01	3.12E-01
2629	490610.04	3858760.04	0.02554	0.01542	0.01863	0.05179	0.014	0.03	0.0146	0.01542	0.26647847	0.028479594	1.939E-06	2.73E-03	6.65E-03	4.26E-03	1.03E-01	1.05E-01	3.07E-01
2630	490660.04	3858760.04	0.02521	0.01501	0.01876	0.0505	0.014	0.029	0.0142	0.01501	0.26303532	0.027722354	1.953E-06	2.66E-03	6.65E-03	4.15E-03	1.01E-01	1.02E-01	3.03E-01
2631	490710.04	3858760.04	0.0249	0.01461	0.01888	0.0492	0.014	0.029	0.0138	0.01461	0.25980085	0.026983584	1.966E-06	2.59E-03	6.64E-03	4.04E-03	9.80E-02	9.93E-02	2.99E-01
2632	490760.04	3858760.04	0.02462	0.01419	0.01892	0.04771	0.014	0.028	0.0134	0.01419	0.2568794	0.026207875	1.97E-06	2.51E-03	6.65E-03	3.93E-03	9.52E-02	9.65E-02	2.95E-01
2633	490810.04	3858760.04	0.02434	0.0138	0.01891	0.04617	0.014	0.027	0.0131	0.0138	0.25395794	0.025487574	1.969E-06	2.43E-03	6.65E-03	3.83E-03	9.27E-02	9.38E-02	2.91E-01
2634	490860.04	3858760.04	0.02405	0.01346	0.01884	0.04473	0.014	0.027	0.0128	0.01346	0.25093215	0.02485962	1.961E-06	2.36E-03	6.65E-03	3.73E-03	9.04E-02	9.15E-02	2.87E-01
2635	490360.04	3858810.04	0.02758	0.01871	0.02082	0.05939	0.013	0.036	0.0177	0.01871	0.28776336	0.034555979	2.167E-06	3.13E-03	6.32E-03	5.06E-03	1.25E-01	1.27E-01	3.35E-01
2636	490410.04	3858810.04	0.02718	0.01809	0.02071	0.0573	0.013	0.035	0.0171	0.01809	0.28358985	0.033410885	2.156E-06	3.02E-03	6.32E-03	4.90E-03	1.21E-01	1.23E-01	3.29E-01
2637	490460.04	3858810.04	0.0268	0.01749	0.02049	0.05532	0.013	0.034	0.0165	0.01749	0.27962502	0.03230273	2.133E-06	2.91E-03	6.33E-03	4.74E-03	1.17E-01	1.19E-01	3.24E-01
2638	490510.04	3858810.04	0.0264	0.01698	0.02049	0.0537	0.013	0.033	0.0161	0.01698	0.27545151	0.031360798	2.133E-06	2.83E-03	6.32E-03	4.60E-03	1.14E-01	1.15E-01	3.19E-01
2639	490560.04	3858810.04	0.02603	0.01648	0.02061	0.05216	0.013	0.032	0.0156	0.01648	0.27159101	0.030437335	2.146E-06	2.75E-03	6.31E-03	4.47E-03	1.11E-01	1.12E-01	3.14E-01
2640	490610.04	3858810.04	0.02572	0.01592	0.02073	0.05048	0.013	0.031	0.0151	0.01592	0.26835655	0.029403057	2.158E-06	2.66E-03	6.31E-03	4.33E-03	1.07E-01	1.08E-01	3.10E-01
2641	490660.04	3858810.04	0.02539	0.01544	0.02087	0.04903	0.013	0.03	0.0146	0.01544	0.2649134	0.028516532	2.173E-06	2.58E-03	6.30E-03	4.20E-03	1.04E-01	1.05E-01	3.05E-01
2642	490710.04	3858810.04	0.02509	0.01496	0.0209	0.04746	0.013	0.029	0.0142	0.01496	0.26178327	0.027630008	2.176E-06	2.50E-03	6.29E-03	4.08E-03	1.00E-01	1.02E-01	3.01E-01
2643	490760.04	3858810.04	0.02484	0.01444	0.02077	0.0456	0.013	0.028	0.0137	0.01444	0.25917483	0.026669607	2.162E-06	2.40E-03	6.28E-03	3.94E-03	9.70E-02	9.82E-02	2.97E-01
2644	490810.04	3858810.04	0.0245	0.01413	0.02072	0.04436	0.013	0.027	0.0134	0.01413	0.25562735	0.02609706	2.157E-06	2.34E-03	6.27E-03	3.86E-03	9.49E-02	9.61E-02	2.93E-01
2645	490860.04	3858810.04	0.02424	0.01371	0.02049	0.04275	0.013	0.027	0.013	0.01371	0.25291457	0.025321351	2.133E-06	2.25E-03	6.27E-03	3.75E-03	9.22E-02	9.32E-02	2.89E-01
2646	490360.04	3858860.04	0.02791	0.01941	0.02294	0.05893	0.013	0.037	0.0184	0.01941	0.2912065	0.035848827	2.388E-06	3.10E-03	6.03E-03	5.16E-03	1.30E-01	1.32E-01	3.40E-01
2647	490410.04	3858860.04	0.02742	0.01887	0.02293	0.05706	0.013	0.036	0.0179	0.01887	0.28609395	0.034851487	2.387E-06	3.01E-03	6.02E-03	5.02E-03	1.27E-01	1.28E-01	3.33E-01
2648	490460.04	3858860.04	0.02704	0.01816	0.02291	0.05489	0.013	0.034	0.0172	0.01816	0.28212912	0.03354017	2.385E-06	2.89E-03	6.03E-03	4.84E-03	1.22E-01	1.23E-01	3.28E-01
2649	490510.04	3858860.04	0.02659	0.01769	0.02321	0.05339	0.013	0.034	0.0168	0.01769	0.27743392	0.032672115	2.416E-06	2.81E-03	6.01E-03	4.71E-03	1.19E-01	1.20E-01	3.22E-01
2650	490560.04	3858860.04	0.02623	0.01709	0.02341	0.05161	0.013	0.032	0.0162	0.01709	0.27367777	0.03156396	2.437E-06	2.72E-03	6.01E-03	4.56E-03	1.15E-01	1.16E-01	3.17E-01
2651	490610.04	3858860.04	0.02595	0.01639	0.02343	0.04962	0.013	0.031	0.0156	0.01639	0.27075631	0.030271112	2.439E-06	2.61E-03	6.01E-03	4.38E-03	1.10E-01	1.11E-01	3.13E-01
2652	490660.04	3858860.04	0.0256	0.01589	0.02347	0.04805	0.013	0.03	0.0151	0.01589	0.26710449	0.029347649	2.443E-06	2.53E-03	5.99E-03	4.26E-03	1.07E-01	1.08E-01	3.08E-01
2653	490710.04	3858860.04	0.02524	0.01547	0.02342	0.04663	0.013	0.03	0.0147	0.01547	0.26334834	0.02857194	2.438E-06	2.46E-03	5.97E-03	4.15E-03	1.04E-01	1.05E-01	3.03E-01
2654	490760.04	3858860.04	0.02497	0.01491	0.02313	0.04471	0.013	0.029	0.0142	0.01491	0.26053122	0.027537662	2.408E-06	2.36E-03	5.96E-03	4.01E-03	1.00E-01	1.01E-01	2.99E-01
2655	490810.04	3858860.04	0.02471	0.01441	0.02281	0.04291	0.013	0.028	0.0137	0.01441	0.25781844	0.026614199	2.375E-06	2.26E-03	5.95E-03	3.88E-03	9.70E-02	9.80E-02	2.96E-01
2656	490860.04	3858860.04	0.02446	0.01392	0.0225	0.04116	0.013	0.027	0.0132	0.01392	0.25521	0.025709205	2.342E-06	2.17E-03	5.93E-03	3.76E-03	9.38E-02	9.47E-02	2.92E-01
2657	490360.04	3858910.04	0.02815	0.02048	0.02625	0.05981	0.012	0.038	0.0194	0.02048	0.2937106	0.037825038	2.733E-06	3.15E-03	5.72E-03	5.34E-03	1.38E-01	1.39E-01	3.44E-01
2658	490410.04	3858910.04	0.02768	0.01977	0.02643	0.05754	0.012	0.037	0.0188	0.01977	0.28880673	0.036513721	2.752E-06	3.03E-03	5.73E-03	5.16E-03	1.33E-01	1.34E-01	3.38E-01
2659	490460.04	3858910.04	0.02725	0.01906	0.02671	0.05539	0.012	0.035	0.0181	0.01906	0.28432021	0.035202403	2.781E-06	2.92E-03	5.74E-03	4.98E-03	1.28E-01	1.30E-01	3.32E-01
2660	490510.04	3858910.04	0.02686	0.01835	0.02693	0.05331	0.012	0.034	0.0174	0.01835	0.28025104	0.033891086	2.804E-06	2.81E-03	5.74E-03	4.80E-03	1.23E-01	1.25E-01	3.26E-01
2661	490560.04	3858910.04	0.0265	0.01765	0.02699	0.05129	0.012	0.033	0.0168	0.01765	0.27649489	0.032598238	2.81E-06	2.70E-03	5.74E-03	4.63E-03	1.19E-01	1.20E-01	3.21E-01
2662	490610.04	3858910.04	0.02617	0.01697	0.02685	0.04931	0.012	0.032	0.0161	0.01697	0.27305174	0.031342329	2.795E-06	2.60E-03	5.74E-03	4.46E-03	1.14E-01	1.15E-01	3.16E-01
2663	490660.04	3858910.04	0.02581	0.01641	0.02664	0.04756	0.012	0.031	0.0156	0.01641	0.26929558	0.03030805	2.773E-06	2.51E-03	5.72E-03	4.32E-03	1.10E-01	1.12E-01	3.11E-01
2664	490710.04	3858910.04	0.0255	0.01582	0.02629	0.04565	0.012	0.03	0.0151	0.01582	0.26606112	0.029218364	2.737E-06	2.40E-03	5.71E-03	4.18E-03	1.07E-01	1.08E-01	3.07E-01

2665	490760.04	3858910.04	0.02524	0.0152	0.02587	0.04357	0.012	0.029	0.0145	0.0152	0.26334834	0.02807327	2.693E-06	2.30E-03	5.69E-03	4.02E-03	1.02E-01	1.03E-01	3.03E-01
2666	490810.04	3858910.04	0.02493	0.01473	0.02562	0.04193	0.012	0.028	0.014	0.01473	0.26011387	0.027205215	2.667E-06	2.21E-03	5.66E-03	3.91E-03	9.94E-02	1.00E-01	2.98E-01
2667	490860.04	3858910.04	0.0247	0.01417	0.02526	0.04005	0.012	0.027	0.0135	0.01417	0.2577141	0.026170937	2.63E-06	2.11E-03	5.63E-03	3.77E-03	9.57E-02	9.64E-02	2.95E-01
2668	490360.04	3858960.04	0.02852	0.02148	0.03118	0.06082	0.012	0.039	0.0204	0.02148	0.2975711	0.039671963	3.246E-06	3.20E-03	5.44E-03	5.50E-03	1.45E-01	1.46E-01	3.50E-01
2669	490410.04	3858960.04	0.02804	0.02062	0.03153	0.05819	0.012	0.038	0.0196	0.02062	0.29256289	0.038083607	3.282E-06	3.07E-03	5.47E-03	5.29E-03	1.39E-01	1.40E-01	3.43E-01
2670	490460.04	3858960.04	0.02761	0.01976	0.03172	0.05566	0.012	0.036	0.0188	0.01976	0.28807637	0.036495251	3.302E-06	2.93E-03	5.49E-03	5.07E-03	1.33E-01	1.34E-01	3.37E-01
2671	490510.04	3858960.04	0.02719	0.019	0.03172	0.05345	0.012	0.035	0.0181	0.019	0.28369419	0.035091588	3.302E-06	2.82E-03	5.50E-03	4.89E-03	1.28E-01	1.29E-01	3.31E-01
2672	490560.04	3858960.04	0.02679	0.01828	0.03148	0.05138	0.012	0.034	0.0174	0.01828	0.27952068	0.033761801	3.277E-06	2.71E-03	5.50E-03	4.71E-03	1.23E-01	1.24E-01	3.25E-01
2673	490610.04	3858960.04	0.02647	0.01748	0.03097	0.04901	0.012	0.032	0.0167	0.01748	0.27618187	0.032284261	3.224E-06	2.58E-03	5.50E-03	4.52E-03	1.18E-01	1.19E-01	3.20E-01
2674	490660.04	3858960.04	0.02604	0.01698	0.03073	0.04744	0.012	0.031	0.0162	0.01698	0.27169535	0.031360798	3.199E-06	2.50E-03	5.48E-03	4.40E-03	1.15E-01	1.15E-01	3.15E-01
2675	490710.04	3858960.04	0.02576	0.01627	0.03022	0.04519	0.012	0.03	0.0155	0.01627	0.2687739	0.030049481	3.146E-06	2.38E-03	5.47E-03	4.23E-03	1.10E-01	1.11E-01	3.10E-01
2676	490760.04	3858960.04	0.02546	0.01565	0.02982	0.04316	0.012	0.029	0.0149	0.01565	0.26564377	0.028904387	3.104E-06	2.27E-03	5.45E-03	4.08E-03	1.06E-01	1.06E-01	3.06E-01
2677	490810.04	3858960.04	0.02518	0.01506	0.02942	0.04125	0.012	0.028	0.0144	0.01506	0.26272231	0.027814701	3.063E-06	2.17E-03	5.41E-03	3.93E-03	1.02E-01	1.02E-01	3.01E-01
2678	490860.04	3858960.04	0.02495	0.01444	0.02885	0.03929	0.011	0.027	0.0138	0.01444	0.26032254	0.026669607	3.003E-06	2.07E-03	5.37E-03	3.78E-03	9.77E-02	9.82E-02	2.98E-01
2679	490360.04	3859010.04	0.02893	0.0226	0.03853	0.06236	0.011	0.04	0.0216	0.0226	0.30184894	0.04174052	4.011E-06	3.28E-03	5.17E-03	5.68E-03	1.53E-01	1.54E-01	3.57E-01
2680	490410.04	3859010.04	0.02844	0.02158	0.0386	0.05931	0.011	0.039	0.0206	0.02158	0.2967364	0.039856656	4.018E-06	3.12E-03	5.21E-03	5.43E-03	1.46E-01	1.47E-01	3.50E-01
2681	490460.04	3859010.04	0.02802	0.02051	0.0382	0.05624	0.011	0.037	0.0196	0.02051	0.29235421	0.037880446	3.977E-06	2.96E-03	5.24E-03	5.18E-03	1.39E-01	1.39E-01	3.43E-01
2682	490510.04	3859010.04	0.02763	0.01953	0.03759	0.05343	0.011	0.035	0.0186	0.01953	0.28828504	0.036070458	3.913E-06	2.81E-03	5.26E-03	4.94E-03	1.32E-01	1.33E-01	3.37E-01
2683	490560.04	3859010.04	0.02715	0.01888	0.03719	0.05149	0.011	0.034	0.018	0.01888	0.28327684	0.034869957	3.872E-06	2.71E-03	5.27E-03	4.78E-03	1.28E-01	1.28E-01	3.30E-01
2684	490610.04	3859010.04	0.0268	0.01803	0.03651	0.04896	0.011	0.033	0.0172	0.01803	0.27962502	0.03330007	3.801E-06	2.58E-03	5.27E-03	4.58E-03	1.22E-01	1.23E-01	3.25E-01
2685	490660.04	3859010.04	0.02635	0.01751	0.03627	0.04733	0.011	0.032	0.0167	0.01751	0.27492982	0.032339669	3.776E-06	2.49E-03	5.26E-03	4.46E-03	1.18E-01	1.19E-01	3.19E-01
2686	490710.04	3859010.04	0.02605	0.01672	0.03556	0.0449	0.011	0.03	0.016	0.01672	0.27179969	0.030880597	3.702E-06	2.37E-03	5.25E-03	4.27E-03	1.13E-01	1.14E-01	3.14E-01
2687	490760.04	3859010.04	0.02576	0.01603	0.03483	0.04275	0.011	0.029	0.0153	0.01603	0.2687739	0.029606219	3.626E-06	2.25E-03	5.22E-03	4.11E-03	1.09E-01	1.09E-01	3.10E-01
2688	490810.04	3859010.04	0.02548	0.01538	0.03395	0.04074	0.011	0.028	0.0147	0.01538	0.26585244	0.028405717	3.534E-06	2.15E-03	5.19E-03	3.95E-03	1.04E-01	1.05E-01	3.05E-01
2689	490860.04	3859010.04	0.0252	0.0148	0.03301	0.03898	0.011	0.027	0.0142	0.0148	0.26293099	0.0273345	3.437E-06	2.05E-03	5.15E-03	3.82E-03	1.00E-01	1.01E-01	3.01E-01
2690	490360.04	3859060.04	0.02943	0.0238	0.04855	0.06429	0.01	0.042	0.0228	0.0238	0.30706583	0.043956831	5.054E-06	3.39E-03	4.91E-03	5.87E-03	1.61E-01	1.62E-01	3.65E-01
2691	490410.04	3859060.04	0.02897	0.02245	0.04763	0.06035	0.011	0.039	0.0215	0.02245	0.3022663	0.041463481	4.959E-06	3.18E-03	4.96E-03	5.55E-03	1.52E-01	1.53E-01	3.57E-01
2692	490460.04	3859060.04	0.02849	0.02134	0.04672	0.05715	0.011	0.038	0.0204	0.02134	0.29725809	0.039413394	4.864E-06	3.01E-03	5.00E-03	5.29E-03	1.45E-01	1.45E-01	3.50E-01
2693	490510.04	3859060.04	0.02802	0.02038	0.04588	0.05438	0.011	0.036	0.0195	0.02038	0.29235421	0.037640345	4.776E-06	2.86E-03	5.02E-03	5.06E-03	1.38E-01	1.39E-01	3.43E-01
2694	490560.04	3859060.04	0.02761	0.01939	0.04488	0.05148	0.011	0.034	0.0186	0.01939	0.28807637	0.035811889	4.672E-06	2.71E-03	5.04E-03	4.83E-03	1.32E-01	1.32E-01	3.36E-01
2695	490610.04	3859060.04	0.02716	0.01866	0.04415	0.04929	0.011	0.033	0.0179	0.01866	0.28338117	0.034463633	4.596E-06	2.60E-03	5.05E-03	4.66E-03	1.27E-01	1.27E-01	3.30E-01
2696	490660.04	3859060.04	0.02673	0.01799	0.04334	0.04724	0.011	0.032	0.0172	0.01799	0.27889465	0.033226193	4.512E-06	2.49E-03	5.04E-03	4.51E-03	1.22E-01	1.22E-01	3.24E-01
2697	490710.04	3859060.04	0.02642	0.01715	0.04188	0.04471	0.011	0.031	0.0164	0.01715	0.27566018	0.031674775	4.36E-06	2.36E-03	5.03E-03	4.31E-03	1.16E-01	1.17E-01	3.19E-01
2698	490760.04	3859060.04	0.02611	0.01641	0.04034	0.04251	0.011	0.029	0.0157	0.01641	0.27242572	0.03030805	4.2E-06	2.24E-03	5.01E-03	4.14E-03	1.11E-01	1.12E-01	3.14E-01
2699	490810.04	3859060.04	0.02582	0.01571	0.03864	0.04044	0.011	0.028	0.0151	0.01571	0.26939992	0.029015202	4.023E-06	2.13E-03	4.98E-03	3.98E-03	1.07E-01	1.07E-01	3.09E-01
2700	490860.04	3859060.04	0.02553	0.0151	0.03698	0.03864	0.01	0.027	0.0145	0.0151	0.26637413	0.027888578	3.85E-06	2.04E-03	4.91E-03	3.83E-03	1.03E-01	1.03E-01	3.05E-01
2701	490360.04	3859110.04	0.02994	0.02534	0.06252	0.06733	0.01	0.044	0.0244	0.02534	0.31238705	0.046801097	6.509E-06	3.55E-03	4.65E-03	6.14E-03	1.73E-01	1.72E-01	3.74E-01
2702	490410.04	3859110.04	0.02944	0.02381	0.06068	0.06285	0.01	0.041	0.0229	0.02381	0.30717017	0.0439753	6.317E-06	3.31E-03	4.71E-03	5.78E-03	1.62E-01	1.62E-01	3.65E-01
2703	490460.04	3859110.04	0.02889	0.02266	0.05931	0.05951	0.01	0.039	0.0218	0.02266	0.30143159	0.041851336	6.175E-06	3.13E-03	4.74E-03	5.51E-03	1.54E-01	1.54E-01	3.57E-01
2704	490510.04	3859110.04	0.02852	0.02118	0.05704	0.05531	0.01	0.037	0.0203	0.02118	0.2975711	0.039117886	5.938E-06	2.91E-03	4.79E-03	5.17E-03	1.44E-01	1.44E-01	3.50E-01
2705	490560.04	3859110.04	0.02805	0.02018	0.05521	0.05238	0.01	0.035	0.0194	0.02018	0.29266723	0.03727096	5.748E-06	2.76E-03	4.81E-03	4.94E-03	1.37E-01	1.37E-01	3.43E-01
2706	490610.04	3859110.04	0.02764	0.01919	0.05297	0.04949	0.01	0.034	0.0184	0.01919	0.28838938	0.035442504	5.515E-06	2.61E-03	4.83E-03	4.72E-03	1.31E-01	1.30E-01	3.36E-01
2707	490660.04	3859110.04	0.02729	0.01822	0.05033	0.04662	0.01	0.032	0.0175	0.01822	0.28473756	0.033650986	5.24E-06	2.46E-03	4.83E-03	4.49E-03	1.24E-01	1.24E-01	3.30E-01
2708	490710.04	3859110.04	0.02687	0.01754	0.0482	0.0446	0.01	0.031	0.0169	0.01754	0.28035538	0.032395076	5.018E-06	2.35E-03	4.82E-03	4.34E-03	1.19E-01	1.19E-01	3.24E-01
2709	490760.04	3859110.04	0.02652	0.01681	0.04574	0.04246	0.01	0.03	0.0162	0.01681	0.27670356	0.031046821	4.762E-06	2.24E-03	4.80E-03	4.17E-03	1.14E-01	1.14E-01	3.19E-01
2710	490810.04	3859110.04	0.02623	0.01605	0.04306	0.04027	0.01	0.028	0.0154	0.01605	0.27367777	0.029643157	4.483E-06	2.12E-03	4.78E-03	3.99E-03	1.09E-01	1.09E-01	3.14E-01
2711	490860.04	3859110.04	0.02595	0.01536	0.04053	0.03829	0.01	0.027	0.0148	0.01536	0.27075631	0.028368778	4.219E-06	2.02E-03	4.74E-03	3.83E-03	1.05E-01	1.04E-01	3.10E-01
2712	490360.04	3859160.04	0.03052	0.02726	0.08272	0.07165	0.009	0.046	0.0263	0.02726	0.31843864	0.050347194	8.612E-06	3.77E-03	4.39E-03	6.50E-03	1.86E-01	1.85E-01	3.85E-01
2713	490410.04	3859160.04	0.02996	0.02555	0.07926	0.06656	0.009	0.043	0.0246	0.02555	0.31259573	0.047188951	8.251E-06	3.51E-03	4.45E-03	6.10E-03	1.75E-01	1.74E-01	3.75E-01
2714	490460.04	3859160.04	0.02941	0.02406	0.07576	0.06225	0.01	0.041	0.0232	0.02406	0.30685715	0.044437032	7.887E-06	3.28E-03	4.50E-03	5.75E-03	1.64E-01	1.64E-01	3.66E-01
2715	490510.04	3859160.04	0.0289	0.02268	0.07189	0.05827	0.01	0.039	0.0219	0.02268	0.30153593	0.041888274	7.484E-06	3.07E-03	4.54E-03	5.44E-03	1.55E-01	1.54E-01	3.57E-01
2716	490560.04	3859160.04	0.02849	0.02127	0.06734	0.05425	0.01	0.036	0.0205	0.02127	0.29725809	0.039284109	7.011E-06	2.86E-03	4.58E-03	5.12E-03	1.45E-01	1.45E-01	3.50E-01
2717	490610.04	3859160.04	0.02802	0.02026	0.0635	0.0513	0.01	0.035	0.0195	0.02026	0.29235421	0.037418714	6.611E-06	2.70E-03	4.60E-03	4.89E-03	1.38E-01	1.38E-01	3.43E-01
2718	490660.04	3859160.04	0.02779	0.01882	0.05794	0.04724	0.01	0.032	0.0182	0.01882	0.28995445	0.034759141	6.032E-06	2.49E-03	4.60E-03	4.56E-03	1.29E-01	1.28E-01	3.37E-01
2719	490710.04	3859160.04	0.02735	0.01806	0.05454	0.04501	0.01	0.031	0.0174	0.01806	0.28536359	0.033355478	5.678E-06	2.37E-03	4.60E-03	4.39E-03	1.23E-01	1.23E-01	3.31E-01
2720	490760.04	3859160.04	0.02708	0.01708	0.05027	0.04225	0.01	0.03	0.0165	0.01708	0.28254647	0.03154549	5.233E-06	2.23E-03	4.61E-03	4.17E-03	1.17E-01	1.16E-01	3.26E-01
2721	490810.04	3859160.04	0.02669	0.01644	0.04727	0.0404	0.01	0.029	0.0159	0.01644	0.2784773	0.030363458	4.921E-06	2.13E-03	4.60E-03	4.02E-03	1.13E-01	1.12E-01	3.20E-01
2722	490860.04	3859160.04	0.02633	0.0158	0.04435	0.03861	0.01	0.028	0.0153	0.0158	0.27472114	0.029181426	4.617E-06	2.03E-03	4.57E-03	3.88E-03	1.08E-01	1.07E-01	3.15E-01

2723	490360.04	3859210.04	0.03122	0.02955	0.10923	0.07731	0.009	0.049	0.0287	0.02955	0.32574228	0.054576654	1.137E-05	4.07E-03	4.15E-03	6.94E-03	2.03E-01	2.01E-01	3.98E-01
2724	490410.04	3859210.04	0.03048	0.02798	0.10279	0.07242	0.009	0.047	0.0271	0.02798	0.31802129	0.05167698	1.07E-05	3.81E-03	4.20E-03	6.57E-03	1.92E-01	1.90E-01	3.86E-01
2725	490460.04	3859210.04	0.02999	0.02576	0.09478	0.06601	0.009	0.043	0.0249	0.02576	0.31290874	0.047576805	9.867E-06	3.48E-03	4.26E-03	6.06E-03	1.77E-01	1.75E-01	3.76E-01
2726	490510.04	3859210.04	0.02946	0.02413	0.08759	0.06129	0.009	0.04	0.0234	0.02413	0.30737884	0.044566316	9.119E-06	3.23E-03	4.30E-03	5.69E-03	1.65E-01	1.64E-01	3.67E-01
2727	490560.04	3859210.04	0.02889	0.0229	0.08146	0.05772	0.009	0.039	0.0222	0.0229	0.30143159	0.042294598	8.48E-06	3.04E-03	4.34E-03	5.42E-03	1.57E-01	1.56E-01	3.58E-01
2728	490610.04	3859210.04	0.02844	0.02156	0.07493	0.0539	0.009	0.036	0.0209	0.02156	0.2967364	0.039819717	7.801E-06	2.84E-03	4.38E-03	5.12E-03	1.48E-01	1.47E-01	3.50E-01
2729	490660.04	3859210.04	0.02813	0.02003	0.06768	0.04963	0.009	0.034	0.0194	0.02003	0.29350193	0.036993921	7.046E-06	2.61E-03	4.39E-03	4.77E-03	1.37E-01	1.36E-01	3.43E-01
2730	490710.04	3859210.04	0.02769	0.01901	0.06256	0.04683	0.009	0.032	0.0184	0.01901	0.28891107	0.035110057	6.513E-06	2.47E-03	4.40E-03	4.55E-03	1.30E-01	1.29E-01	3.37E-01
2731	490760.04	3859210.04	0.02743	0.01798	0.05645	0.04387	0.009	0.031	0.0174	0.01798	0.28619829	0.033207724	5.877E-06	2.31E-03	4.41E-03	4.31E-03	1.23E-01	1.22E-01	3.32E-01
2732	490810.04	3859210.04	0.0269	0.01748	0.05341	0.04242	0.009	0.03	0.0169	0.01748	0.28066839	0.032284261	5.56E-06	2.23E-03	4.42E-03	4.20E-03	1.20E-01	1.19E-01	3.25E-01
2733	490860.04	3859210.04	0.02641	0.01698	0.05049	0.04102	0.009	0.029	0.0165	0.01698	0.27555585	0.031360798	5.256E-06	2.16E-03	4.42E-03	4.09E-03	1.17E-01	1.15E-01	3.19E-01
2734	490360.04	3859260.04	0.03215	0.03212	0.13843	0.0843	0.008	0.053	0.0313	0.03212	0.33544568	0.059323253	1.441E-05	4.44E-03	3.94E-03	7.47E-03	2.22E-01	2.18E-01	4.14E-01
2735	490410.04	3859260.04	0.03134	0.0301	0.12633	0.07792	0.008	0.05	0.0293	0.0301	0.32699433	0.055592463	1.315E-05	4.10E-03	3.98E-03	6.99E-03	2.08E-01	2.05E-01	4.01E-01
2736	490460.04	3859260.04	0.03056	0.02845	0.11571	0.0728	0.009	0.047	0.0277	0.02845	0.31885599	0.052545035	1.205E-05	3.83E-03	4.02E-03	6.61E-03	1.96E-01	1.93E-01	3.88E-01
2737	490510.04	3859260.04	0.02984	0.02689	0.1062	0.06813	0.009	0.044	0.0261	0.02689	0.31134367	0.049663831	1.106E-05	3.59E-03	4.06E-03	6.25E-03	1.85E-01	1.83E-01	3.77E-01
2738	490560.04	3859260.04	0.02929	0.02519	0.0965	0.06317	0.009	0.042	0.0245	0.02519	0.3056051	0.046524058	1.005E-05	3.33E-03	4.10E-03	5.86E-03	1.73E-01	1.71E-01	3.68E-01
2739	490610.04	3859260.04	0.02888	0.02331	0.08658	0.05786	0.009	0.039	0.0226	0.02331	0.30132726	0.043051837	9.014E-06	3.05E-03	4.15E-03	5.44E-03	1.60E-01	1.59E-01	3.59E-01
2740	490660.04	3859260.04	0.02823	0.02245	0.08027	0.05529	0.009	0.037	0.0218	0.02245	0.29454531	0.041463481	8.357E-06	2.91E-03	4.17E-03	5.25E-03	1.54E-01	1.53E-01	3.50E-01
2741	490710.04	3859260.04	0.02772	0.02126	0.07385	0.05204	0.009	0.035	0.0206	0.02126	0.28922408	0.03926564	7.688E-06	2.74E-03	4.20E-03	4.99E-03	1.46E-01	1.45E-01	3.42E-01
2742	490760.04	3859260.04	0.02744	0.01992	0.06579	0.04828	0.009	0.033	0.0194	0.01992	0.28630263	0.036790759	6.849E-06	2.54E-03	4.21E-03	4.69E-03	1.37E-01	1.35E-01	3.36E-01
2743	490810.04	3859260.04	0.02693	0.01922	0.06117	0.04629	0.009	0.032	0.0187	0.01922	0.28098141	0.035497911	6.368E-06	2.44E-03	4.22E-03	4.53E-03	1.32E-01	1.31E-01	3.29E-01
2744	490860.04	3859260.04	0.02644	0.01855	0.05698	0.04445	0.009	0.031	0.018	0.01855	0.27586886	0.034260471	5.932E-06	2.34E-03	4.22E-03	4.38E-03	1.28E-01	1.26E-01	3.23E-01
2745	490360.04	3859310.04	0.0332	0.03595	0.16745	0.09606	0.008	0.059	0.0352	0.03595	0.34640114	0.066396978	1.743E-05	5.06E-03	3.72E-03	8.37E-03	2.50E-01	2.44E-01	4.35E-01
2746	490410.04	3859310.04	0.03224	0.03349	0.14906	0.08779	0.008	0.055	0.0328	0.03349	0.33638472	0.061853541	1.552E-05	4.62E-03	3.77E-03	7.75E-03	2.32E-01	2.28E-01	4.19E-01
2747	490460.04	3859310.04	0.03136	0.0314	0.13349	0.081	0.008	0.051	0.0307	0.0314	0.327203	0.057993466	1.39E-05	4.27E-03	3.80E-03	7.24E-03	2.17E-01	2.14E-01	4.04E-01
2748	490510.04	3859310.04	0.03052	0.02972	0.12043	0.07563	0.008	0.049	0.029	0.02972	0.31843864	0.054890631	1.254E-05	3.98E-03	3.84E-03	6.84E-03	2.06E-01	2.02E-01	3.92E-01
2749	490560.04	3859310.04	0.02976	0.02811	0.1089	0.07065	0.008	0.046	0.0274	0.02811	0.31050897	0.051917081	1.134E-05	3.72E-03	3.88E-03	6.46E-03	1.94E-01	1.91E-01	3.80E-01
2750	490610.04	3859310.04	0.02905	0.02673	0.09903	0.06647	0.008	0.044	0.0261	0.02673	0.303101	0.049368323	1.031E-05	3.50E-03	3.91E-03	6.14E-03	1.85E-01	1.82E-01	3.69E-01
2751	490660.04	3859310.04	0.02845	0.02527	0.08989	0.06219	0.008	0.041	0.0246	0.02527	0.29684074	0.046671812	9.358E-06	3.28E-03	3.95E-03	5.81E-03	1.75E-01	1.72E-01	3.59E-01
2752	490710.04	3859310.04	0.02806	0.02339	0.08016	0.05695	0.009	0.038	0.0228	0.02339	0.29277157	0.043199591	8.345E-06	3.00E-03	3.99E-03	5.39E-03	1.61E-01	1.59E-01	3.51E-01
2753	490760.04	3859310.04	0.02757	0.02215	0.07275	0.05349	0.009	0.036	0.0216	0.02215	0.28765902	0.040909404	7.574E-06	2.82E-03	4.02E-03	5.11E-03	1.53E-01	1.51E-01	3.43E-01
2754	490810.04	3859310.04	0.02703	0.02126	0.06697	0.05099	0.009	0.035	0.0207	0.02126	0.28202478	0.03926564	6.972E-06	2.69E-03	4.04E-03	4.92E-03	1.47E-01	1.45E-01	3.35E-01
2755	490860.04	3859310.04	0.0266	0.02025	0.06122	0.04824	0.009	0.033	0.0197	0.02025	0.27753826	0.037400245	6.373E-06	2.54E-03	4.05E-03	4.70E-03	1.40E-01	1.38E-01	3.28E-01
2756	490360.04	3859360.04	0.03458	0.04093	0.18699	0.11367	0.008	0.069	0.0403	0.04093	0.36079974	0.075594668	1.947E-05	5.99E-03	3.52E-03	9.67E-03	2.86E-01	2.78E-01	4.63E-01
2757	490410.04	3859360.04	0.03332	0.03822	0.16369	0.10332	0.008	0.063	0.0376	0.03822	0.34765319	0.070589499	1.704E-05	5.44E-03	3.55E-03	8.91E-03	2.66E-01	2.60E-01	4.43E-01
2758	490460.04	3859360.04	0.0322	0.03588	0.14463	0.09483	0.008	0.059	0.0352	0.03588	0.33596737	0.066267693	1.506E-05	5.00E-03	3.59E-03	8.28E-03	2.50E-01	2.44E-01	4.25E-01
2759	490510.04	3859360.04	0.03122	0.03376	0.12867	0.08747	0.008	0.055	0.0331	0.03376	0.32574228	0.062352211	1.34E-05	4.61E-03	3.62E-03	7.73E-03	2.35E-01	2.30E-01	4.09E-01
2760	490560.04	3859360.04	0.0304	0.03156	0.11468	0.08026	0.008	0.051	0.0309	0.03156	0.31718659	0.058288974	1.194E-05	4.23E-03	3.66E-03	7.19E-03	2.19E-01	2.15E-01	3.95E-01
2761	490610.04	3859360.04	0.02966	0.02961	0.10278	0.07414	0.008	0.048	0.029	0.02961	0.3094656	0.054687469	1.07E-05	3.91E-03	3.70E-03	6.72E-03	2.05E-01	2.01E-01	3.83E-01
2762	490660.04	3859360.04	0.02895	0.02799	0.0928	0.06916	0.008	0.045	0.0274	0.02799	0.30205762	0.05169545	9.661E-06	3.64E-03	3.74E-03	6.34E-03	1.94E-01	1.90E-01	3.71E-01
2763	490710.04	3859360.04	0.02839	0.02621	0.08347	0.06398	0.008	0.042	0.0256	0.02621	0.29621471	0.048407922	8.69E-06	3.37E-03	3.77E-03	5.93E-03	1.82E-01	1.78E-01	3.61E-01
2764	490760.04	3859360.04	0.02789	0.02454	0.07506	0.05928	0.008	0.04	0.024	0.02454	0.29099782	0.045323556	7.814E-06	3.12E-03	3.81E-03	5.56E-03	1.70E-01	1.67E-01	3.52E-01
2765	490810.04	3859360.04	0.02725	0.02365	0.06924	0.05668	0.008	0.038	0.0231	0.02365	0.28432021	0.043679792	7.208E-06	2.99E-03	3.84E-03	5.37E-03	1.64E-01	1.61E-01	3.43E-01
2766	490860.04	3859360.04	0.02673	0.02253	0.06337	0.05356	0.008	0.036	0.022	0.02253	0.27889465	0.041611235	6.597E-06	2.82E-03	3.86E-03	5.12E-03	1.56E-01	1.53E-01	3.35E-01
2767	490360.04	3859410.04	0.03642	0.04754	0.18561	0.14168	0.007	0.083	0.047	0.04754	0.37999788	0.087802846	1.932E-05	7.46E-03	3.34E-03	1.17E-02	3.33E-01	3.23E-01	5.00E-01
2768	490410.04	3859410.04	0.03477	0.04422	0.16127	0.1262	0.007	0.075	0.0437	0.04422	0.36278216	0.081671053	1.679E-05	6.65E-03	3.37E-03	1.05E-02	3.10E-01	3.01E-01	4.74E-01
2769	490460.04	3859410.04	0.03339	0.04125	0.14159	0.1136	0.007	0.068	0.0407	0.04125	0.34838356	0.076185684	1.474E-05	5.98E-03	3.39E-03	9.61E-03	2.88E-01	2.80E-01	4.52E-01
2770	490510.04	3859410.04	0.03222	0.03856	0.12538	0.10308	0.007	0.063	0.038	0.03856	0.33617605	0.071217454	1.305E-05	5.43E-03	3.42E-03	8.84E-03	2.69E-01	2.62E-01	4.32E-01
2771	490560.04	3859410.04	0.03119	0.03617	0.11189	0.09426	0.007	0.058	0.0356	0.03617	0.32542926	0.066803302	1.165E-05	4.97E-03	3.46E-03	8.19E-03	2.52E-01	2.46E-01	4.15E-01
2772	490610.04	3859410.04	0.03029	0.03398	0.10046	0.08668	0.007	0.054	0.0334	0.03398	0.31603887	0.062758534	1.046E-05	4.57E-03	3.49E-03	7.63E-03	2.37E-01	2.31E-01	4.00E-01
2773	490660.04	3859410.04	0.02956	0.03156	0.09019	0.0789	0.008	0.05	0.031	0.03156	0.30842222	0.058288974	9.389E-06	4.16E-03	3.54E-03	7.05E-03	2.20E-01	2.15E-01	3.87E-01
2774	490710.04	3859410.04	0.02887	0.02953	0.08153	0.07277	0.008	0.047	0.029	0.02953	0.30122292	0.054539715	8.488E-06	3.83E-03	3.57E-03	6.58E-03	2.06E-01	2.01E-01	3.75E-01
2775	490760.04	3859410.04	0.02831	0.02748	0.07347	0.06669	0.008	0.043	0.027	0.02748	0.29538001	0.050753517	7.649E-06	3.51E-03	3.62E-03	6.11E-03	1.91E-01	1.87E-01	3.64E-01
2776	490810.04	3859410.04	0.02764	0.02635	0.06747	0.06329	0.008	0.042	0.0259	0.02635	0.28838938	0.048666491	7.024E-06	3.33E-03	3.64E-03	5.86E-03	1.83E-01	1.79E-01	3.54E-01
2777	490860.04	3859410.04	0.02695	0.02544	0.06262	0.06057	0.008	0.04	0.025	0.02544	0.28119008	0.046985789	6.519E-06	3.19E-03	3.67E-03	5.66E-03	1.77E-01	1.73E-01	3.45E-01
2778	490360.04	3859460.04	0.03899	0.05679	0.16369	0.19	0.007	0.105	0.0565	0.05679	0.40681266	0.104886909	1.704E-05	1.00E-02	3.18E-03	1.48E-02	4.00E-01	3.86E-01	5.54E-01
2779	490410.04	3859460.04	0.0369	0.05199	0.14304	0.16135	0.007	0.091	0.0516	0.05199	0.38500609	0.096021666	1.489E-05	8.50E-03	3.20E-03	1.28E-02	3.66E-01	3.54E-01	5.18E-01
2780	490460.04	3859460.04	0.03517	0.04818	0.12647	0.14143	0.007	0.081	0.0478	0.04818	0.36695567	0.088984879	1.317E-05	7.45E-03	3.23E-03	1.14E-02	3.38E-01	3.28E-01	4.89E-01

2781	490510.04	3859460.04	0.03372	0.04476	0.11269	0.12553	0.007	0.073	0.0443	0.04476	0.3518267	0.082668393	1.173E-05	6.61E-03	3.25E-03	1.03E-02	3.14E-01	3.04E-01	4.64E-01
2782	490560.04	3859460.04	0.03246	0.04178	0.10122	0.11298	0.007	0.067	0.0414	0.04178	0.33868015	0.077164555	1.054E-05	5.95E-03	3.28E-03	9.43E-03	2.93E-01	2.84E-01	4.43E-01
2783	490610.04	3859460.04	0.03138	0.03892	0.09129	0.10202	0.007	0.062	0.0385	0.03892	0.32741168	0.071882347	9.504E-06	5.37E-03	3.31E-03	8.66E-03	2.73E-01	2.65E-01	4.25E-01
2784	490660.04	3859460.04	0.03045	0.03626	0.08267	0.0926	0.007	0.057	0.0358	0.03626	0.31770827	0.066969525	8.606E-06	4.88E-03	3.34E-03	7.99E-03	2.54E-01	2.47E-01	4.08E-01
2785	490710.04	3859460.04	0.02956	0.03406	0.07556	0.08529	0.007	0.053	0.0336	0.03406	0.30842222	0.062906288	7.866E-06	4.49E-03	3.38E-03	7.46E-03	2.38E-01	2.32E-01	3.93E-01
2786	490760.04	3859460.04	0.02882	0.03194	0.06895	0.07847	0.007	0.05	0.0315	0.03194	0.30070123	0.058990806	7.178E-06	4.13E-03	3.41E-03	6.97E-03	2.23E-01	2.17E-01	3.80E-01
2787	490810.04	3859460.04	0.02812	0.03003	0.06327	0.07269	0.007	0.047	0.0296	0.03003	0.29339759	0.055463178	6.587E-06	3.83E-03	3.45E-03	6.54E-03	2.10E-01	2.04E-01	3.68E-01
2788	490860.04	3859460.04	0.02739	0.02873	0.05875	0.06876	0.007	0.044	0.0283	0.02873	0.28578094	0.053062175	6.116E-06	3.62E-03	3.47E-03	6.26E-03	2.01E-01	1.95E-01	3.58E-01
2789	490360.04	3859510.04	0.04403	0.0709	0.13419	0.28425	0.006	0.142	0.0708	0.0709	0.45939886	0.13094703	1.397E-05	1.50E-02	3.03E-03	2.00E-02	5.01E-01	4.82E-01	6.48E-01
2790	490410.04	3859510.04	0.04089	0.06417	0.11972	0.2289	0.007	0.119	0.0641	0.06417	0.42663683	0.11851722	1.246E-05	1.21E-02	3.05E-03	1.67E-02	4.54E-01	4.36E-01	5.95E-01
2791	490460.04	3859510.04	0.03837	0.0583	0.10728	0.18975	0.007	0.101	0.0581	0.0583	0.40034373	0.107675767	1.117E-05	9.99E-03	3.07E-03	1.43E-02	4.12E-01	3.96E-01	5.51E-01
2792	490510.04	3859510.04	0.03629	0.05356	0.09684	0.16223	0.007	0.089	0.0533	0.05356	0.37864149	0.098921339	1.008E-05	8.55E-03	3.09E-03	1.25E-02	3.78E-01	3.64E-01	5.15E-01
2793	490560.04	3859510.04	0.03454	0.04946	0.08787	0.14174	0.007	0.08	0.0492	0.04946	0.36038239	0.091348944	9.148E-06	7.47E-03	3.12E-03	1.12E-02	3.49E-01	3.36E-01	4.86E-01
2794	490610.04	3859510.04	0.03308	0.04571	0.08002	0.12514	0.007	0.072	0.0455	0.04571	0.34514909	0.084422972	8.331E-06	6.59E-03	3.14E-03	1.01E-02	3.22E-01	3.11E-01	4.61E-01
2795	490660.04	3859510.04	0.03182	0.0424	0.07323	0.11199	0.007	0.066	0.0421	0.0424	0.33200254	0.078309649	7.624E-06	5.90E-03	3.17E-03	9.26E-03	2.98E-01	2.88E-01	4.39E-01
2796	490710.04	3859510.04	0.03073	0.0394	0.06723	0.10108	0.007	0.061	0.0391	0.0394	0.32062973	0.072768871	6.999E-06	5.32E-03	3.20E-03	8.51E-03	2.77E-01	2.68E-01	4.20E-01
2797	490760.04	3859510.04	0.02977	0.0368	0.062	0.09222	0.007	0.056	0.0365	0.0368	0.31061331	0.067966865	6.455E-06	4.86E-03	3.24E-03	7.90E-03	2.59E-01	2.50E-01	4.03E-01
2798	490810.04	3859510.04	0.02887	0.03466	0.05752	0.08528	0.007	0.053	0.0344	0.03466	0.30122292	0.064014444	5.988E-06	4.49E-03	3.26E-03	7.42E-03	2.43E-01	2.36E-01	3.88E-01
2799	490860.04	3859510.04	0.02808	0.03261	0.05341	0.07895	0.007	0.05	0.0323	0.03261	0.29298024	0.060228246	5.56E-06	4.16E-03	3.30E-03	6.97E-03	2.29E-01	2.22E-01	3.75E-01
2800	490360.04	3859560.04	0.05781	0.09416	0.10495	0.55005	0.006	0.223	0.0945	0.09416	0.6031762	0.173906521	1.093E-05	2.90E-02	2.90E-03	3.14E-02	6.69E-01	6.40E-01	8.69E-01
2801	490410.04	3859560.04	0.05034	0.08345	0.09637	0.38242	0.006	0.172	0.0837	0.08345	0.52523594	0.154125947	1.003E-05	2.01E-02	2.91E-03	2.42E-02	5.93E-01	5.67E-01	7.52E-01
2802	490460.04	3859560.04	0.04493	0.07449	0.08826	0.28919	0.006	0.139	0.0747	0.07449	0.46878925	0.137577493	9.188E-06	1.52E-02	2.93E-03	1.96E-02	5.30E-01	5.07E-01	6.67E-01
2803	490510.04	3859560.04	0.04106	0.06654	0.08085	0.23025	0.006	0.116	0.0667	0.06654	0.42841057	0.122894434	8.417E-06	1.21E-02	2.95E-03	1.64E-02	4.72E-01	4.52E-01	6.03E-01
2804	490560.04	3859560.04	0.03812	0.06061	0.07464	0.19157	0.006	0.101	0.0607	0.06061	0.39773528	0.111942165	7.77E-06	1.01E-02	2.97E-03	1.42E-02	4.30E-01	4.12E-01	5.55E-01
2805	490610.04	3859560.04	0.03583	0.05531	0.06888	0.16307	0.006	0.088	0.0554	0.05531	0.37384195	0.102153459	7.171E-06	8.59E-03	2.99E-03	1.24E-02	3.92E-01	3.76E-01	5.16E-01
2806	490660.04	3859560.04	0.03397	0.05078	0.06376	0.14192	0.006	0.079	0.0508	0.05078	0.35443514	0.093786886	6.638E-06	7.48E-03	3.02E-03	1.11E-02	3.60E-01	3.45E-01	4.84E-01
2807	490710.04	3859560.04	0.03245	0.04673	0.05913	0.12512	0.006	0.071	0.0467	0.04673	0.33857581	0.086306837	6.156E-06	6.59E-03	3.04E-03	1.01E-02	3.31E-01	3.18E-01	4.58E-01
2808	490760.04	3859560.04	0.0312	0.04294	0.05486	0.1111	0.007	0.065	0.0428	0.04294	0.3255336	0.079306988	5.711E-06	5.85E-03	3.08E-03	9.13E-03	3.04E-01	2.92E-01	4.34E-01
2809	490810.04	3859560.04	0.03008	0.0399	0.05117	0.10062	0.007	0.06	0.0398	0.0399	0.31384778	0.073692334	5.327E-06	5.30E-03	3.10E-03	8.43E-03	2.82E-01	2.71E-01	4.15E-01
2810	490860.04	3859560.04	0.02911	0.03716	0.04779	0.09176	0.007	0.056	0.037	0.03716	0.30372702	0.068631758	4.975E-06	4.83E-03	3.13E-03	7.83E-03	2.62E-01	2.53E-01	3.98E-01
2811	490187.25	3859422.08	0.04759	0.06779	0.32959	0.27291	0.007	0.147	0.0677	0.06779	0.49654308	0.125203091	3.431E-05	1.44E-02	3.23E-03	2.07E-02	4.79E-01	4.61E-01	6.78E-01
2812	490237.25	3859422.08	0.04356	0.06136	0.27155	0.22197	0.007	0.123	0.0611	0.06136	0.45449499	0.113327359	2.827E-05	1.17E-02	3.24E-03	1.73E-02	4.33E-01	4.17E-01	6.16E-01
2813	490287.25	3859422.08	0.04036	0.05598	0.2281	0.18704	0.007	0.106	0.0556	0.05598	0.42110693	0.103390899	2.375E-05	9.85E-03	3.27E-03	1.49E-02	3.94E-01	3.81E-01	5.66E-01
2814	490337.25	3859422.08	0.0379	0.05124	0.19435	0.15983	0.007	0.092	0.0508	0.05124	0.39543986	0.094636471	2.023E-05	8.42E-03	3.29E-03	1.29E-02	3.60E-01	3.48E-01	5.26E-01
2815	490187.25	3859472.08	0.05835	0.08526	0.26644	0.51055	0.007	0.247	0.0854	0.08526	0.60881044	0.157468883	2.774E-05	2.69E-02	3.09E-03	3.47E-02	6.05E-01	5.80E-01	8.56E-01
2816	490237.25	3859472.08	0.04982	0.07606	0.22559	0.36196	0.007	0.185	0.076	0.07606	0.51981038	0.140477167	2.349E-05	1.91E-02	3.10E-03	2.60E-02	5.38E-01	5.17E-01	7.30E-01
2817	490287.25	3859472.08	0.04449	0.06831	0.19226	0.27606	0.007	0.146	0.0682	0.06831	0.46419839	0.126163493	2.002E-05	1.45E-02	3.12E-03	2.05E-02	4.83E-01	4.64E-01	6.47E-01
2818	490337.25	3859472.08	0.04106	0.06213	0.16675	0.22419	0.007	0.121	0.0619	0.06213	0.42841057	0.114749492	1.736E-05	1.18E-02	3.13E-03	1.71E-02	4.39E-01	4.22E-01	5.91E-01
2819	490297.07	3859500.42	0.04718	0.07688	0.16402	0.35706	0.006	0.176	0.0768	0.07688	0.49226523	0.141991646	1.708E-05	1.88E-02	3.04E-03	2.48E-02	5.44E-01	5.23E-01	7.02E-01
2820	490327.07	3859500.42	0.04483	0.07244	0.15223	0.3045	0.007	0.153	0.0723	0.07244	0.46774588	0.133791296	1.585E-05	1.60E-02	3.05E-03	2.15E-02	5.12E-01	4.93E-01	6.62E-01
2821	490297.07	3859530.42	0.05506	0.09141	0.13958	0.55952	0.006	0.235	0.0914	0.09141	0.57448334	0.168827476	1.453E-05	2.95E-02	2.96E-03	3.31E-02	6.48E-01	6.22E-01	8.35E-01
2822	490327.07	3859530.42	0.05167	0.08505	0.1314	0.44223	0.006	0.196	0.0851	0.08505	0.53911286	0.157081028	1.368E-05	2.33E-02	2.96E-03	2.76E-02	6.03E-01	5.78E-01	7.74E-01
2823	490319.73	3859055.34	0.02978	0.02481	0.04784	0.06746	0.01	0.044	0.0237	0.02481	0.31071765	0.045822226	4.98E-06	3.55E-03	4.89E-03	6.13E-03	1.68E-01	1.69E-01	3.71E-01
2824	490319.73	3859105.34	0.03035	0.02641	0.06218	0.07072	0.01	0.046	0.0254	0.02641	0.3166649	0.048777307	6.473E-06	3.73E-03	4.63E-03	6.41E-03	1.80E-01	1.80E-01	3.80E-01
2825	490069.73	3859155.34	0.03579	0.03745	0.08415	0.10881	0.009	0.066	0.0363	0.03745	0.3734246	0.069167366	8.761E-06	5.73E-03	4.17E-03	9.23E-03	2.57E-01	2.55E-01	4.64E-01
2826	490119.73	3859155.34	0.03458	0.03535	0.08651	0.10021	0.009	0.061	0.0342	0.03535	0.36079974	0.065288823	9.006E-06	5.28E-03	4.20E-03	8.63E-03	2.43E-01	2.40E-01	4.46E-01
2827	490269.73	3859155.34	0.03168	0.03024	0.0857	0.08116	0.009	0.051	0.0292	0.03024	0.33054181	0.055851032	8.922E-06	4.28E-03	4.31E-03	7.23E-03	2.07E-01	2.06E-01	4.04E-01
2828	490319.73	3859155.34	0.03096	0.02849	0.08298	0.07554	0.009	0.048	0.0275	0.02849	0.3230295	0.052618912	8.639E-06	3.98E-03	4.37E-03	6.80E-03	1.95E-01	1.94E-01	3.92E-01
2829	490069.73	3859205.34	0.03718	0.0421	0.13162	0.12496	0.008	0.074	0.0411	0.0421	0.38792754	0.077755571	1.37E-05	6.58E-03	3.94E-03	1.04E-02	2.91E-01	2.86E-01	4.91E-01
2830	490119.73	3859205.34	0.0357	0.03973	0.13233	0.11399	0.008	0.069	0.0387	0.03973	0.37248556	0.073378357	1.378E-05	6.00E-03	3.96E-03	9.65E-03	2.74E-01	2.70E-01	4.70E-01
2831	490169.73	3859205.34	0.03448	0.0374	0.12927	0.10436	0.009	0.064	0.0364	0.0374	0.35975636	0.06907502	1.346E-05	5.50E-03	3.99E-03	8.97E-03	2.58E-01	2.54E-01	4.51E-01
2832	490219.73	3859205.34	0.03347	0.03499	0.1238	0.09563	0.009	0.059	0.034	0.03499	0.34921826	0.064623929	1.289E-05	5.04E-03	4.03E-03	8.33E-03	2.41E-01	2.38E-01	4.34E-01
2833	490269.73	3859205.34	0.03261	0.03266	0.11731	0.08758	0.009	0.055	0.0317	0.03266	0.34024522	0.060320592	1.221E-05	4.61E-03	4.09E-03	7.71E-03	2.25E-01	2.22E-01	4.20E-01
2834	490319.73	3859205.34	0.03174	0.03084	0.11165	0.08151	0.009	0.052	0.0299	0.03084	0.33116784	0.056959188	1.162E-05	4.29E-03	4.14E-03	7.26E-03	2.12E-01	2.10E-01	4.06E-01
2835	490069.73	3859255.34	0.03905	0.04774	0.21286	0.14752	0.008	0.085	0.0469	0.04774	0.40743869	0.088172232	2.216E-05	7.77E-03	3.75E-03	1.20E-02	3.32E-01	3.25E-01	5.27E-01
2836	490119.73	3859255.34	0.03732	0.04461	0.20295	0.13193	0.008	0.078	0.0438	0.04461	0.38938827	0.082391354	2.113E-05	6.95E-03	3.76E-03	1.09E-02	3.10E-01	3.03E-01	5.00E-01
2837	490169.73	3859255.34	0.03588	0.04173	0.18965	0.11912	0.008	0.071	0.0409	0.04173	0.37436364	0.077072208	1.974E-05	6.27E-03	3.78E-03	1.00E-02	2.90E-01	2.84E-01	4.77E-01
2838	490219.73	3859255.34	0.03469	0.03884	0.17451	0.10779	0.008	0.066	0.038	0.03884	0.36194746	0.071734593	1.817E-05	5.68E-03	3.82E-03	9.22E-03	2.69E-01	2.64E-01	4.57E-01

2839	490269.73	3859255.34	0.03364	0.03619	0.15973	0.09805	0.008	0.06	0.0353	0.03619	0.350992	0.06684024	1.663E-05	5.16E-03	3.87E-03	8.50E-03	2.50E-01	2.46E-01	4.40E-01
2840	490319.73	3859255.34	0.03266	0.03397	0.14653	0.09035	0.008	0.056	0.0331	0.03397	0.3407669	0.062740065	1.525E-05	4.76E-03	3.91E-03	7.93E-03	2.35E-01	2.31E-01	4.24E-01
2841	490069.73	3859305.34	0.04196	0.05525	0.34151	0.18361	0.008	0.102	0.0547	0.05525	0.43780096	0.102042643	3.555E-05	9.67E-03	3.58E-03	1.44E-02	3.87E-01	3.76E-01	5.79E-01
2842	490119.73	3859305.34	0.03974	0.05112	0.30345	0.1598	0.008	0.091	0.0505	0.05112	0.41463799	0.09441484	3.159E-05	8.42E-03	3.58E-03	1.29E-02	3.58E-01	3.48E-01	5.44E-01
2843	490169.73	3859305.34	0.03791	0.04737	0.26698	0.14137	0.008	0.083	0.0467	0.04737	0.39554419	0.087488869	2.779E-05	7.45E-03	3.60E-03	1.16E-02	3.31E-01	3.22E-01	5.14E-01
2844	490219.73	3859305.34	0.0364	0.04389	0.234	0.12601	0.008	0.075	0.0432	0.04389	0.3797892	0.081061568	2.436E-05	6.64E-03	3.63E-03	1.06E-02	3.06E-01	2.98E-01	4.89E-01
2845	490269.73	3859305.34	0.03505	0.04073	0.20594	0.11342	0.008	0.069	0.04	0.04073	0.36570361	0.075225283	2.144E-05	5.97E-03	3.66E-03	9.64E-03	2.83E-01	2.77E-01	4.67E-01
2846	490319.73	3859305.34	0.03391	0.03779	0.18172	0.10256	0.008	0.063	0.037	0.03779	0.35380912	0.069795321	1.892E-05	5.40E-03	3.70E-03	8.85E-03	2.62E-01	2.57E-01	4.47E-01
2847	490069.73	3859355.34	0.04735	0.06607	0.50132	0.25334	0.007	0.135	0.0659	0.06607	0.49403897	0.122026379	5.219E-05	1.33E-02	3.41E-03	1.90E-02	4.67E-01	4.49E-01	6.69E-01
2848	490119.73	3859355.34	0.04381	0.0602	0.41218	0.20986	0.007	0.116	0.0599	0.0602	0.45710343	0.111184925	4.291E-05	1.11E-02	3.41E-03	1.63E-02	4.24E-01	4.09E-01	6.14E-01
2849	490169.73	3859355.34	0.04111	0.05509	0.34165	0.17902	0.007	0.102	0.0546	0.05509	0.42893225	0.101747135	3.557E-05	9.43E-03	3.43E-03	1.43E-02	3.87E-01	3.75E-01	5.70E-01
2850	490219.73	3859355.34	0.03896	0.05048	0.286	0.1556	0.007	0.09	0.0499	0.05048	0.40649965	0.093232808	2.977E-05	8.20E-03	3.45E-03	1.27E-02	3.54E-01	3.43E-01	5.35E-01
2851	490269.73	3859355.34	0.0371	0.04662	0.24322	0.13719	0.007	0.081	0.046	0.04662	0.38709284	0.086103675	2.532E-05	7.23E-03	3.48E-03	1.14E-02	3.26E-01	3.17E-01	5.04E-01
2852	490319.73	3859355.34	0.03552	0.04303	0.20878	0.12211	0.007	0.073	0.0424	0.04303	0.37060748	0.079473212	2.174E-05	6.43E-03	3.51E-03	1.03E-02	3.00E-01	2.93E-01	4.78E-01
2853	490069.73	3859405.34	0.0583	0.08194	0.58677	0.42844	0.007	0.214	0.0822	0.08194	0.60828875	0.15133709	6.109E-05	2.26E-02	3.26E-03	3.01E-02	5.82E-01	5.57E-01	8.41E-01
2854	490119.73	3859405.34	0.05139	0.07302	0.45687	0.31952	0.007	0.168	0.073	0.07302	0.5361914	0.134862513	4.756E-05	1.68E-02	3.26E-03	2.36E-02	5.17E-01	4.97E-01	7.36E-01
2855	490169.73	3859405.34	0.04656	0.06571	0.36497	0.25313	0.007	0.138	0.0656	0.06571	0.4857963	0.121361486	3.8E-05	1.33E-02	3.27E-03	1.94E-02	4.64E-01	4.47E-01	6.61E-01
2856	490219.73	3859405.34	0.043	0.05966	0.29872	0.2092	0.007	0.117	0.0594	0.05966	0.44865208	0.110187586	3.11E-05	1.10E-02	3.29E-03	1.64E-02	4.21E-01	4.06E-01	6.05E-01
2857	490269.73	3859405.34	0.04012	0.05434	0.24887	0.17753	0.007	0.101	0.0539	0.05434	0.41860282	0.100361941	2.591E-05	9.35E-03	3.32E-03	1.42E-02	3.82E-01	3.70E-01	5.58E-01
2858	490319.73	3859405.34	0.03779	0.04978	0.21086	0.15278	0.007	0.089	0.0493	0.04978	0.39429214	0.09193996	2.195E-05	8.05E-03	3.34E-03	1.25E-02	3.50E-01	3.38E-01	5.21E-01
2859	490161.89	3859541.83	0.06659	0.14903	0.16521	0.32075	0.006	0.206	0.1491	0.14903	0.6947847	0.275247333	1.72E-05	1.69E-02	2.91E-03	2.90E-02	1.06E+00	1.01E+00	1.06E+00
2860	490171.89	3859541.83	0.06571	0.14378	0.16243	0.36185	0.006	0.232	0.1438	0.14378	0.68560298	0.265550973	1.691E-05	1.91E-02	2.91E-03	3.27E-02	1.02E+00	9.78E-01	1.05E+00
2861	490161.89	3859551.83	0.06633	0.16462	0.15069	0.25903	0.006	0.17	0.1646	0.16462	0.69207192	0.304040904	1.569E-05	1.36E-02	2.89E-03	2.39E-02	1.17E+00	1.12E+00	1.08E+00
2862	490171.89	3859551.83	0.06567	0.15834	0.14846	0.28621	0.006	0.189	0.1584	0.15834	0.68518563	0.292442211	1.546E-05	1.51E-02	2.89E-03	2.65E-02	1.12E+00	1.08E+00	1.07E+00
2863	489799.72	3859348.21	0.07374	0.13983	0.66553	0.30961	0.008	0.223	0.1424	0.13983	0.76938615	0.258255617	6.929E-05	1.63E-02	3.53E-03	3.14E-02	1.01E+00	9.51E-01	1.14E+00
2864	489819.72	3859348.21	0.07177	0.12862	0.77104	0.40953	0.007	0.313	0.1306	0.12862	0.74883162	0.23755158	8.027E-05	2.16E-02	3.51E-03	4.40E-02	9.25E-01	8.75E-01	1.11E+00
2865	489799.72	3859368.21	0.07798	0.16621	1.08469	0.2214	0.007	0.155	0.1701	0.16621	0.81362533	0.306977516	0.0001129	1.17E-02	3.48E-03	2.18E-02	1.21E+00	1.13E+00	1.23E+00
2866	489819.72	3859368.21	0.07701	0.15068	1.31692	0.27178	0.007	0.195	0.1538	0.15068	0.80350457	0.27829476	0.0001371	1.43E-02	3.46E-03	2.75E-02	1.09E+00	1.02E+00	1.19E+00
2867	489775.41	3859329.72	0.07436	0.13444	0.45139	0.32558	0.008	0.233	0.1367	0.13444	0.77585508	0.248300687	4.699E-05	1.71E-02	3.59E-03	3.28E-02	9.68E-01	9.14E-01	1.13E+00
2868	489795.41	3859329.72	0.07164	0.12399	0.45657	0.43579	0.008	0.295	0.1257	0.12399	0.74747523	0.229000314	4.753E-05	2.30E-02	3.57E-03	4.16E-02	8.91E-01	8.43E-01	1.09E+00
2869	489775.41	3859349.72	0.0761	0.15858	0.62727	0.23112	0.008	0.161	0.1621	0.15858	0.79400984	0.292885473	6.53E-05	1.22E-02	3.54E-03	2.27E-02	1.15E+00	1.08E+00	1.20E+00
2870	489795.41	3859349.72	0.07448	0.14427	0.6687	0.28571	0.008	0.204	0.147	0.14427	0.77710714	0.266455967	6.962E-05	1.50E-02	3.53E-03	2.87E-02	1.04E+00	9.81E-01	1.15E+00
2871	489595.05	3859219.43	0.07678	0.12371	0.09998	0.29048	0.009	0.19	0.1254	0.12371	0.8011048	0.228483175	1.041E-05	1.53E-02	4.06E-03	2.67E-02	8.89E-01	8.41E-01	1.12E+00
2872	489615.05	3859219.43	0.07437	0.11456	0.10473	0.37102	0.009	0.249	0.1157	0.11456	0.77595942	0.211583805	1.09E-05	1.95E-02	4.03E-03	3.51E-02	8.20E-01	7.79E-01	1.09E+00
2873	489595.05	3859239.43	0.07975	0.14418	0.11758	0.21796	0.009	0.139	0.1467	0.14418	0.8320931	0.266289743	1.224E-05	1.15E-02	4.01E-03	1.96E-02	1.04E+00	9.80E-01	1.19E+00
2874	489615.05	3859239.43	0.07841	0.13204	0.12387	0.25942	0.008	0.17	0.1339	0.13204	0.81811185	0.243868066	1.29E-05	1.37E-02	3.98E-03	2.39E-02	9.49E-01	8.98E-01	1.15E+00
2875	489372.4	3859092.58	0.0721	0.12009	0.03404	0.27092	0.01	0.138	0.1256	0.12009	0.75227476	0.221797304	3.544E-06	1.43E-02	4.78E-03	1.94E-02	8.90E-01	8.17E-01	1.09E+00
2876	489422.4	3859092.58	0.06998	0.10085	0.03606	0.40346	0.01	0.237	0.1035	0.10085	0.73015517	0.186262454	3.754E-06	2.13E-02	4.68E-03	3.34E-02	7.34E-01	6.86E-01	1.02E+00
2877	489372.4	3859142.58	0.07975	0.18166	0.04083	0.19105	0.01	0.087	0.1962	0.18166	0.8320931	0.335512518	4.251E-06	1.01E-02	4.67E-03	1.23E-02	1.39E+00	1.24E+00	1.35E+00
2878	489422.4	3859142.58	0.07877	0.14206	0.04471	0.21235	0.01	0.114	0.1491	0.14206	0.82186801	0.262374261	4.655E-06	1.12E-02	4.55E-03	1.60E-02	1.06E+00	9.66E-01	1.21E+00
2879	488870.84	3858666.64	0.08595	0.05886	0.01712	0.25976	0.017	0.174	0.0765	0.05886	0.89678247	0.108710045	1.782E-06	1.37E-02	7.88E-03	2.45E-02	5.42E-01	4.00E-01	1.19E+00
2880	488900.84	3858666.64	0.07864	0.05577	0.01714	0.43401	0.017	0.264	0.0699	0.05577	0.82051162	0.103003045	1.784E-06	2.29E-02	7.77E-03	3.71E-02	4.96E-01	3.79E-01	1.11E+00
2881	488870.84	3858696.64	0.08253	0.06553	0.01668	0.179	0.016	0.127	0.0869	0.06553	0.86109898	0.121029039	1.736E-06	9.43E-03	7.68E-03	1.79E-02	6.16E-01	4.46E-01	1.19E+00
2882	488900.84	3858696.64	0.07635	0.06169	0.01676	0.25274	0.016	0.168	0.0787	0.06169	0.79661828	0.113936845	1.745E-06	1.33E-02	7.62E-03	2.36E-02	5.58E-01	4.19E-01	1.09E+00
2883	488889.67	3858683.97	0.07942	0.06027	0.0169	0.26113	0.016	0.173	0.0773	0.06027	0.82864996	0.11131421	1.759E-06	1.38E-02	7.73E-03	2.44E-02	5.47E-01	4.10E-01	1.12E+00
2884	488919.67	3858683.97	0.07376	0.05706	0.01695	0.43387	0.016	0.261	0.0707	0.05706	0.76959482	0.105385579	1.765E-06	2.29E-02	7.61E-03	3.68E-02	5.01E-01	3.88E-01	1.06E+00
2885	488889.67	3858713.97	0.07758	0.0673	0.01651	0.18046	0.016	0.127	0.0884	0.0673	0.80945182	0.124298098	1.719E-06	9.51E-03	7.53E-03	1.79E-02	6.26E-01	4.58E-01	1.14E+00
2886	488919.67	3858713.97	0.07256	0.06326	0.01662	0.25441	0.016	0.167	0.08	0.06326	0.7570743	0.116836518	1.73E-06	1.34E-02	7.47E-03	2.35E-02	5.67E-01	4.30E-01	1.05E+00
2887	488906.61	3858703.33	0.07499	0.06248	0.0167	0.24822	0.016	0.165	0.0796	0.06248	0.78242836	0.115395916	1.739E-06	1.31E-02	7.56E-03	2.32E-02	5.64E-01	4.25E-01	1.08E+00
2888	488936.61	3858703.33	0.0704	0.05897	0.01676	0.40256	0.016	0.244	0.0726	0.05897	0.73453736	0.108913207	1.745E-06	2.12E-02	7.46E-03	3.43E-02	5.15E-01	4.01E-01	1.02E+00
2889	488906.61	3858733.33	0.07431	0.06993	0.01636	0.17566	0.016	0.123	0.0916	0.06993	0.77533339	0.129155512	1.703E-06	9.25E-03	7.39E-03	1.73E-02	6.49E-01	4.76E-01	1.11E+00
2890	488936.61	3858733.33	0.07003	0.06561	0.01649	0.24366	0.016	0.16	0.0828	0.06561	0.73067686	0.121176793	1.717E-06	1.28E-02	7.32E-03	2.25E-02	5.86E-01	4.46E-01	1.03E+00
2891	488637.63	3858467.85	0.09521	0.0476	0.02368	0.20007	0.021	0.156	0.0799	0.0476	0.99339917	0.087913662	2.465E-06	1.05E-02	9.98E-03	2.20E-02	5.66E-01	3.24E-01	1.37E+00
2892	488662.63	3858467.85	0.08898	0.04596	0.02352	0.28305	0.021	0.205	0.0735	0.04596	0.92839679	0.084884704	2.449E-06	1.49E-02	9.97E-03	2.88E-02	5.20E-01	3.13E-01	1.27E+00
2893	488637.63	3858492.85	0.09362	0.05107	0.02249	0.15088	0.021	0.125	0.0884	0.05107	0.97680948	0.094322494	2.341E-06	7.95E-03	9.64E-03	1.75E-02	6.26E-01	3.47E-01	1.38E+00
2894	488662.63	3858492.85	0.08898	0.04915	0.02237	0.19537	0.021	0.151	0.0805	0.04915	0.92839679	0.090776397	2.329E-06	1.03E-02	9.68E-03	2.13E-02	5.70E-01	3.34E-01	1.30E+00
2895	488687.63	3858492.85	0.08612	0.04733	0.02222	0.2741	0.021	0.197	0.0739	0.04733	0.89855621	0.087414992	2.313E-06	1.44E-02	9.68E-03	2.78E-02	5.24E-01	3.22E-01	1.24E+00
2896	488637.63	3858517.85	0.09608	0.05514	0.02141	0.1214	0.02	0.106	0.0989	0.05514	1.00247655	0.101839482	2.229E-06	6.39E-03	9.30E-03	1.49E-02	7.01E-01	3.75E-01	1.46E+00

2897	488662.63	3858517.85	0.09234	0.05287	0.02132	0.14857	0.02	0.122	0.0891	0.05287	0.96345425	0.09764696	2.22E-06	7.83E-03	9.36E-03	1.71E-02	6.31E-01	3.60E-01	1.37E+00
2898	488687.63	3858517.85	0.09037	0.05079	0.02123	0.19101	0.02	0.147	0.0811	0.05079	0.94289973	0.093805355	2.21E-06	1.01E-02	9.40E-03	2.06E-02	5.75E-01	3.45E-01	1.31E+00
2899	488194.42	3857168.98	0.03809	0.01248	0.0116	0.04416	1.483	0.034	0.0195	0.01248	0.39742227	0.023049632	1.208E-06	2.33E-03	6.96E-01	4.79E-03	1.38E-01	8.49E-02	1.18E+00
2900	488244.42	3857168.98	0.03708	0.01239	0.0116	0.04221	1.228	0.033	0.0188	0.01239	0.38688416	0.022883409	1.208E-06	2.22E-03	5.76E-01	4.67E-03	1.33E-01	8.43E-02	1.04E+00
2901	488294.42	3857168.98	0.03615	0.01227	0.01156	0.04046	1.05	0.032	0.0182	0.01227	0.37718076	0.022661778	1.203E-06	2.13E-03	4.93E-01	4.54E-03	1.29E-01	8.34E-02	9.44E-01
2902	488244.42	3857218.98	0.03805	0.01272	0.01193	0.04455	1.384	0.035	0.0195	0.01272	0.39700492	0.023492895	1.242E-06	2.35E-03	6.49E-01	4.91E-03	1.38E-01	8.65E-02	1.13E+00
2903	488294.42	3857218.98	0.03706	0.0126	0.01199	0.04259	1.151	0.034	0.0188	0.0126	0.38667549	0.023271263	1.248E-06	2.24E-03	5.40E-01	4.76E-03	1.33E-01	8.57E-02	1.00E+00
2904	488294.42	3857268.98	0.03803	0.01298	0.01273	0.04497	1.213	0.036	0.0196	0.01298	0.39679625	0.023973095	1.325E-06	2.37E-03	5.69E-01	5.01E-03	1.39E-01	8.83E-02	1.05E+00
2905	488139.13	3857111.68	0.03811	0.01224	0.01079	0.04367	1.476	0.033	0.0194	0.01224	0.39763095	0.02260637	1.123E-06	2.30E-03	6.92E-01	4.67E-03	1.38E-01	8.32E-02	1.17E+00
2906	488189.13	3857111.68	0.03707	0.01217	0.01121	0.04172	1.233	0.032	0.0187	0.01217	0.38677983	0.022477085	1.167E-06	2.20E-03	5.78E-01	4.55E-03	1.33E-01	8.28E-02	1.04E+00
2907	488189.13	3857161.68	0.03805	0.01245	0.01154	0.04402	1.478	0.034	0.0195	0.01245	0.39700492	0.022994225	1.201E-06	2.32E-03	6.93E-01	4.77E-03	1.38E-01	8.47E-02	1.17E+00
2908	487951.04	3856961.26	0.03907	0.01184	0.00924	0.04433	1.8	0.032	0.0198	0.01184	0.40764737	0.0218676	9.619E-07	2.34E-03	8.44E-01	4.56E-03	1.41E-01	8.05E-02	1.34E+00
2909	488001.04	3856961.26	0.03806	0.01171	0.0093	0.04227	1.436	0.031	0.0191	0.01171	0.39710926	0.0216275	9.682E-07	2.23E-03	6.73E-01	4.41E-03	1.36E-01	7.96E-02	1.15E+00
2910	488051.04	3856961.26	0.03715	0.01155	0.00936	0.04042	1.193	0.03	0.0185	0.01155	0.38761453	0.021331992	9.744E-07	2.13E-03	5.59E-01	4.27E-03	1.31E-01	7.85E-02	1.03E+00
2911	488101.04	3856961.26	0.03617	0.01151	0.00953	0.03873	1.008	0.03	0.0179	0.01151	0.37738943	0.021258114	9.921E-07	2.04E-03	4.73E-01	4.16E-03	1.27E-01	7.83E-02	9.26E-01
2912	487951.04	3857011.26	0.04002	0.01218	0.00919	0.04695	2.063	0.034	0.0207	0.01218	0.41755945	0.022495555	9.567E-07	2.47E-03	9.67E-01	4.80E-03	1.46E-01	8.28E-02	1.48E+00
2913	488001.04	3857011.26	0.03899	0.01199	0.00924	0.04463	1.679	0.033	0.0199	0.01199	0.40681266	0.022144639	9.619E-07	2.35E-03	7.87E-01	4.63E-03	1.41E-01	8.15E-02	1.28E+00
2914	488051.04	3857011.26	0.03802	0.01182	0.00935	0.04255	1.383	0.032	0.0192	0.01182	0.39669191	0.021830661	9.734E-07	2.24E-03	6.49E-01	4.47E-03	1.36E-01	8.04E-02	1.13E+00
2915	488101.04	3857011.26	0.037	0.01177	0.00963	0.04068	1.16	0.031	0.0185	0.01177	0.38604946	0.021738315	1.003E-06	2.14E-03	5.44E-01	4.35E-03	1.31E-01	8.00E-02	1.01E+00
2916	488001.04	3857061.26	0.04	0.01231	0.00929	0.0473	2.045	0.035	0.0207	0.01231	0.41735077	0.022735655	9.671E-07	2.49E-03	9.59E-01	4.87E-03	1.47E-01	8.37E-02	1.47E+00
2917	488051.04	3857061.26	0.03892	0.01217	0.00952	0.04494	1.66	0.033	0.0199	0.01217	0.4060823	0.022477085	9.911E-07	2.37E-03	7.78E-01	4.70E-03	1.41E-01	8.28E-02	1.27E+00
2918	488101.04	3857061.26	0.03788	0.01207	0.00992	0.04284	1.373	0.032	0.0192	0.01207	0.39523118	0.022292393	1.033E-06	2.26E-03	6.44E-01	4.55E-03	1.36E-01	8.21E-02	1.12E+00
2919	487638.98	3856673.79	0.04039	0.01095	0.01067	0.04386	0.262	0.031	0.02	0.01095	0.42141994	0.020223836	1.111E-06	2.31E-03	1.23E-01	4.32E-03	1.42E-01	7.45E-02	6.38E-01
2920	487688.98	3856673.79	0.03934	0.01084	0.01055	0.04177	0.278	0.03	0.0193	0.01084	0.41046448	0.020020674	1.098E-06	2.20E-03	1.31E-01	4.18E-03	1.37E-01	7.37E-02	6.30E-01
2921	487638.98	3856723.79	0.04134	0.01124	0.01044	0.04648	0.376	0.032	0.0208	0.01124	0.43133202	0.020759445	1.087E-06	2.45E-03	1.76E-01	4.54E-03	1.48E-01	7.64E-02	7.06E-01
2922	487688.98	3856723.79	0.04022	0.01112	0.01033	0.04411	0.41	0.031	0.02	0.01112	0.4196462	0.020537813	1.075E-06	2.32E-03	1.92E-01	4.38E-03	1.42E-01	7.56E-02	7.06E-01
2923	486324.61	3855740.57	0.04902	0.00973	0.02614	0.05514	0.014	0.033	0.0248	0.00973	0.51146337	0.017970587	2.721E-06	2.90E-03	6.42E-03	4.67E-03	1.76E-01	6.62E-02	6.53E-01
2924	486374.61	3855740.57	0.04792	0.00942	0.02501	0.05051	0.014	0.031	0.0232	0.00942	0.49998622	0.01739804	2.604E-06	2.66E-03	6.41E-03	4.37E-03	1.64E-01	6.41E-02	6.31E-01
2925	486424.61	3855740.57	0.04665	0.00924	0.02433	0.04727	0.014	0.03	0.0221	0.00924	0.48673534	0.017065593	2.533E-06	2.49E-03	6.45E-03	4.16E-03	1.56E-01	6.28E-02	6.10E-01
2926	486324.61	3855790.57	0.05101	0.00996	0.02744	0.06026	0.015	0.035	0.0262	0.00996	0.53222657	0.01839538	2.857E-06	3.17E-03	6.80E-03	4.97E-03	1.85E-01	6.77E-02	6.83E-01
2927	486374.61	3855790.57	0.04974	0.00966	0.02624	0.05493	0.015	0.033	0.0244	0.00966	0.51897568	0.017841302	2.732E-06	2.89E-03	6.83E-03	4.64E-03	1.73E-01	6.57E-02	6.59E-01
2928	486424.61	3855790.57	0.04824	0.00951	0.02561	0.05145	0.015	0.031	0.0233	0.00951	0.50332503	0.017564263	2.666E-06	2.71E-03	6.90E-03	4.42E-03	1.65E-01	6.47E-02	6.35E-01
2929	486324.61	3855840.57	0.05321	0.01019	0.02859	0.06643	0.015	0.038	0.0277	0.01019	0.55518086	0.018820173	2.976E-06	3.50E-03	7.20E-03	5.31E-03	1.96E-01	6.93E-02	7.17E-01
2930	486374.61	3855840.57	0.05146	0.01	0.02772	0.06119	0.016	0.036	0.0262	0.01	0.53692177	0.018469257	2.886E-06	3.22E-03	7.31E-03	5.01E-03	1.86E-01	6.80E-02	6.89E-01
2931	486424.61	3855840.57	0.04995	0.00979	0.02679	0.05645	0.016	0.034	0.0247	0.00979	0.52116677	0.018081402	2.789E-06	2.97E-03	7.38E-03	4.73E-03	1.75E-01	6.66E-02	6.63E-01
2932	486324.61	3855890.57	0.05531	0.01056	0.02992	0.0755	0.016	0.041	0.03	0.01056	0.57709178	0.019503535	3.115E-06	3.98E-03	7.67E-03	5.82E-03	2.13E-01	7.18E-02	7.55E-01
2933	486374.61	3855890.57	0.05342	0.01034	0.02884	0.06862	0.017	0.039	0.0282	0.01034	0.55737195	0.019097211	3.002E-06	3.61E-03	7.81E-03	5.44E-03	1.99E-01	7.03E-02	7.22E-01
2934	486424.61	3855890.57	0.05178	0.0101	0.02773	0.06267	0.017	0.036	0.0264	0.0101	0.54026057	0.018653949	2.887E-06	3.30E-03	7.91E-03	5.10E-03	1.87E-01	6.87E-02	6.94E-01
2935	488735.69	3858285.64	0.082	0.02943	0.03159	0.17512	0.029	0.12	0.0396	0.02943	0.85556908	0.054355023	3.289E-06	9.22E-03	1.34E-02	1.68E-02	2.80E-01	2.00E-01	1.03E+00
2936	488765.69	3858285.64	0.07585	0.02871	0.03086	0.15664	0.028	0.11	0.0377	0.02871	0.7914014	0.053025236	3.213E-06	8.25E-03	1.33E-02	1.55E-02	2.67E-01	1.95E-01	9.54E-01
2937	488735.69	3858315.64	0.07878	0.03089	0.03013	0.20363	0.027	0.132	0.0418	0.03089	0.82197234	0.057051534	3.137E-06	1.07E-02	1.27E-02	1.86E-02	2.96E-01	2.10E-01	1.01E+00
2938	488765.69	3858315.64	0.07359	0.03008	0.02947	0.17837	0.027	0.12	0.0398	0.03008	0.76782108	0.055555524	3.068E-06	9.40E-03	1.26E-02	1.69E-02	2.82E-01	2.05E-01	9.39E-01
2939	478676.63	3849871.93	0.00714	0.03511	0.00065	0.00111	0.001	0.001	0.0353	0.03511	0.07449711	0.06484556	6.767E-08	5.85E-05	6.10E-04	1.66E-04	2.50E-01	2.39E-01	1.51E-01
2940	479326.63	3849871.93	0.00538	0.02103	0.00063	0.00101	0.001	0.001	0.0211	0.02103	0.05613368	0.038840847	6.559E-08	5.32E-05	6.10E-04	1.55E-04	1.50E-01	1.43E-01	1.02E-01
2941	479376.63	3849871.93	0.00529	0.02039	0.00063	0.00101	0.001	0.001	0.0205	0.02039	0.05519464	0.037658814	6.559E-08	5.32E-05	6.05E-04	1.53E-04	1.45E-01	1.39E-01	1.00E-01
2942	479426.63	3849871.93	0.0052	0.01989	0.00063	0.001	0.001	0.001	0.02	0.01989	0.0542556	0.036735352	6.559E-08	5.27E-05	6.00E-04	1.53E-04	1.42E-01	1.35E-01	9.81E-02
2943	478726.63	3849921.93	0.00753	0.03698	0.00066	0.00112	0.001	0.001	0.0371	0.03698	0.07856628	0.068299311	6.871E-08	5.90E-05	6.14E-04	1.67E-04	2.63E-01	2.51E-01	1.59E-01
2944	478776.63	3849921.93	0.00728	0.03519	0.00066	0.00112	0.001	0.001	0.0354	0.03519	0.07595784	0.064993314	6.871E-08	5.90E-05	6.14E-04	1.69E-04	2.50E-01	2.39E-01	1.53E-01
2945	478826.63	3849921.93	0.00706	0.03354	0.00065	0.00112	0.001	0.001	0.0337	0.03354	0.07366241	0.061945887	6.767E-08	5.90E-05	6.19E-04	1.69E-04	2.39E-01	2.28E-01	1.47E-01
2946	478976.63	3849921.93	0.00654	0.0294	0.00065	0.00109	0.001	0.001	0.0295	0.0294	0.06823685	0.054299615	6.767E-08	5.74E-05	6.28E-04	1.67E-04	2.09E-01	2.00E-01	1.33E-01
2947	479026.63	3849921.93	0.00638	0.02837	0.00065	0.00109	0.001	0.001	0.0285	0.02837	0.06656745	0.052397281	6.767E-08	5.74E-05	6.28E-04	1.67E-04	2.02E-01	1.93E-01	1.29E-01
2948	479076.63	3849921.93	0.00624	0.02731	0.00065	0.00108	0.001	0.001	0.0274	0.02731	0.06510672	0.05043954	6.767E-08	5.69E-05	6.28E-04	1.66E-04	1.94E-01	1.86E-01	1.25E-01
2949	479126.63	3849921.93	0.00611	0.02629	0.00065	0.00107	0.001	0.001	0.0264	0.02629	0.06375033	0.048555676	6.767E-08	5.64E-05	6.28E-04	1.65E-04	1.87E-01	1.79E-01	1.21E-01
2950	479176.63	3849921.93	0.00598	0.0254	0.00065	0.00106	0.001	0.001	0.0255	0.0254	0.06239394	0.046911912	6.767E-08	5.58E-05	6.28E-04	1.63E-04	1.81E-01	1.73E-01	1.18E-01
2951	479226.63	3849921.93	0.00588	0.02436	0.00064	0.00105	0.001	0.001	0.0244	0.02436	0.06135056	0.044991109	6.663E-08	5.53E-05	6.24E-04	1.62E-04	1.73E-01	1.66E-01	1.15E-01
2952	479276.63	3849921.93	0.00583	0.02309	0.00064	0.00103	0.001	0.001	0.0232	0.02309	0.06082887	0.042645514	6.663E-08	5.43E-05	6.24E-04	1.59E-04	1.64E-01	1.57E-01	1.11E-01
2953	479326.63	3849921.93	0.00566	0.02283	0.00064	0.00104	0.001	0.001	0.0229	0.02283	0.05905513	0.042165313	6.663E-08	5.48E-05	6.19E-04	1.59E-04	1.62E-01	1.55E-01	1.09E-01
2954	479376.63	3849921.93	0.00561	0.02169	0.00064	0.00102	0.001	0.001	0.0218	0.02169	0.05853345	0.040059818	6.663E-08	5.37E-05	6.14E-04	1.56E-04	1.54E-01	1.47E-01	1.06E-01

2955	479426.63	3849921.93	0.00548	0.02132	0.00064	0.00102	0.001	0.001	0.0214	0.02132	0.05717706	0.039376455	6.663E-08	5.37E-05	6.14E-04	1.56E-04	1.52E-01	1.45E-01	1.04E-01
2956	478726.63	3849971.93	0.00829	0.04122	0.00067	0.00114	0.001	0.001	0.0414	0.04122	0.08649595	0.076130276	6.975E-08	6.00E-05	6.14E-04	1.69E-04	2.93E-01	2.80E-01	1.76E-01
2957	478776.63	3849971.93	0.00798	0.03901	0.00067	0.00113	0.001	0.001	0.0392	0.03901	0.08326148	0.07204857	6.975E-08	5.95E-05	6.14E-04	1.69E-04	2.77E-01	2.65E-01	1.68E-01
2958	478826.63	3849971.93	0.00771	0.03699	0.00066	0.00113	0.001	0.001	0.0371	0.03699	0.08044436	0.068317781	6.871E-08	5.95E-05	6.19E-04	1.70E-04	2.63E-01	2.52E-01	1.61E-01
2959	478976.63	3849971.93	0.00703	0.03218	0.00066	0.00112	0.001	0.001	0.0323	0.03218	0.0733494	0.059434068	6.871E-08	5.90E-05	6.28E-04	1.70E-04	2.29E-01	2.19E-01	1.44E-01
2960	479026.63	3849971.93	0.00687	0.03078	0.00066	0.00111	0.001	0.001	0.0309	0.03078	0.07167999	0.056848372	6.871E-08	5.85E-05	6.28E-04	1.70E-04	2.19E-01	2.09E-01	1.39E-01
2961	479076.63	3849971.93	0.00671	0.0295	0.00066	0.0011	0.001	0.001	0.0296	0.0295	0.07001059	0.054484307	6.871E-08	5.79E-05	6.33E-04	1.69E-04	2.10E-01	2.01E-01	1.34E-01
2962	479126.63	3849971.93	0.00655	0.02835	0.00065	0.00109	0.001	0.001	0.0284	0.02835	0.06834119	0.052360343	6.767E-08	5.74E-05	6.33E-04	1.67E-04	2.02E-01	1.93E-01	1.30E-01
2963	479176.63	3849971.93	0.0064	0.02731	0.00065	0.00108	0.001	0.001	0.0274	0.02731	0.06677612	0.05043954	6.767E-08	5.69E-05	6.33E-04	1.66E-04	1.94E-01	1.86E-01	1.26E-01
2964	479226.63	3849971.93	0.00636	0.02568	0.00065	0.00106	0.001	0.001	0.0258	0.02568	0.06635877	0.047429051	6.767E-08	5.58E-05	6.33E-04	1.63E-04	1.83E-01	1.75E-01	1.23E-01
2965	479276.63	3849971.93	0.00616	0.02517	0.00065	0.00106	0.001	0.001	0.0252	0.02517	0.06427202	0.046487119	6.767E-08	5.58E-05	6.28E-04	1.63E-04	1.79E-01	1.71E-01	1.19E-01
2966	479326.63	3849971.93	0.00599	0.02457	0.00065	0.00106	0.001	0.001	0.0247	0.02457	0.06249828	0.045378964	6.767E-08	5.58E-05	6.28E-04	1.63E-04	1.75E-01	1.67E-01	1.16E-01
2967	479376.63	3849971.93	0.00594	0.02337	0.00065	0.00104	0.001	0.001	0.0235	0.02337	0.06197659	0.043162653	6.767E-08	5.48E-05	6.24E-04	1.60E-04	1.66E-01	1.59E-01	1.13E-01
2968	479426.63	3849971.93	0.00582	0.02273	0.00065	0.00104	0.001	0.001	0.0228	0.02273	0.06072454	0.041980621	6.767E-08	5.48E-05	6.24E-04	1.59E-04	1.62E-01	1.55E-01	1.11E-01
2969	478726.63	3850021.93	0.00925	0.04661	0.00068	0.00115	0.001	0.001	0.0467	0.04661	0.09651237	0.086085206	7.079E-08	6.06E-05	6.14E-04	1.69E-04	3.31E-01	3.17E-01	1.98E-01
2970	478776.63	3850021.93	0.00886	0.04376	0.00067	0.00115	0.001	0.001	0.0439	0.04376	0.0924432	0.080821467	6.975E-08	6.06E-05	6.14E-04	1.70E-04	3.11E-01	2.98E-01	1.87E-01
2971	478826.63	3850021.93	0.00851	0.04126	0.00067	0.00115	0.001	0.001	0.0414	0.04126	0.08879138	0.076204153	6.975E-08	6.06E-05	6.19E-04	1.72E-04	2.93E-01	2.81E-01	1.78E-01
2972	478976.63	3850021.93	0.00768	0.03529	0.00067	0.00113	0.001	0.001	0.0354	0.03529	0.08013135	0.065178007	6.975E-08	5.95E-05	6.28E-04	1.73E-04	2.51E-01	2.40E-01	1.57E-01
2973	478726.63	3850071.93	0.01052	0.05369	0.00069	0.00116	0.001	0.001	0.0538	0.05369	0.10976325	0.099161439	7.183E-08	6.11E-05	6.10E-04	1.69E-04	3.81E-01	3.65E-01	2.26E-01
2974	478776.63	3850071.93	0.01	0.04993	0.00068	0.00116	0.001	0.001	0.05	0.04993	0.10433769	0.092216999	7.079E-08	6.11E-05	6.14E-04	1.70E-04	3.54E-01	3.40E-01	2.12E-01
2975	478826.63	3850071.93	0.00956	0.04668	0.00068	0.00116	0.001	0.001	0.0468	0.04668	0.09974683	0.08621449	7.079E-08	6.11E-05	6.19E-04	1.72E-04	3.31E-01	3.17E-01	2.01E-01
2976	478876.63	3850071.93	0.00917	0.04384	0.00068	0.00116	0.001	0.001	0.0439	0.04384	0.09567766	0.080969221	7.079E-08	6.11E-05	6.24E-04	1.73E-04	3.11E-01	2.98E-01	1.91E-01
2977	478976.63	3850071.93	0.0085	0.03912	0.00068	0.00115	0.001	0.001	0.0392	0.03912	0.08868704	0.072251732	7.079E-08	6.06E-05	6.28E-04	1.74E-04	2.78E-01	2.66E-01	1.74E-01
2978	478726.63	3850121.93	0.01229	0.06348	0.0007	0.00116	0.001	0.001	0.0634	0.06348	0.12823102	0.117242842	7.287E-08	6.11E-05	6.10E-04	1.69E-04	4.49E-01	4.32E-01	2.64E-01
2979	478776.63	3850121.93	0.01157	0.05824	0.00069	0.00117	0.001	0.001	0.0582	0.05824	0.12071871	0.107564951	7.183E-08	6.16E-05	6.14E-04	1.72E-04	4.13E-01	3.96E-01	2.46E-01
2980	478826.63	3850121.93	0.01097	0.05383	0.00069	0.00117	0.001	0.001	0.0538	0.05383	0.11445845	0.099420009	7.183E-08	6.16E-05	6.19E-04	1.73E-04	3.81E-01	3.66E-01	2.30E-01
2981	478876.63	3850121.93	0.01045	0.05005	0.00069	0.00117	0.001	0.001	0.0501	0.05005	0.10903289	0.09243863	7.183E-08	6.16E-05	6.24E-04	1.74E-04	3.55E-01	3.40E-01	2.17E-01
2982	478976.63	3850121.93	0.00956	0.04395	0.00068	0.00117	0.001	0.001	0.044	0.04395	0.09974683	0.081172383	7.079E-08	6.16E-05	6.33E-04	1.76E-04	3.12E-01	2.99E-01	1.95E-01
2983	479026.63	3850121.93	0.0092	0.04145	0.00068	0.00116	0.001	0.001	0.0415	0.04145	0.09599068	0.076555069	7.079E-08	6.11E-05	6.33E-04	1.76E-04	2.94E-01	2.82E-01	1.86E-01
2984	479076.63	3850121.93	0.00889	0.03917	0.00068	0.00116	0.001	0.001	0.0392	0.03917	0.09275621	0.072344079	7.079E-08	6.11E-05	6.38E-04	1.76E-04	2.78E-01	2.66E-01	1.78E-01
2985	479126.63	3850121.93	0.00859	0.03715	0.00068	0.00115	0.001	0.001	0.0372	0.03715	0.08962608	0.068613289	7.079E-08	6.06E-05	6.38E-04	1.76E-04	2.64E-01	2.53E-01	1.70E-01
2986	478776.63	3850171.93	0.01385	0.07004	0.0007	0.00117	0.001	0.001	0.0699	0.07004	0.1445077	0.129358674	7.287E-08	6.16E-05	6.14E-04	1.72E-04	4.95E-01	4.76E-01	2.93E-01
2987	478826.63	3850171.93	0.01295	0.0637	0.0007	0.00118	0.001	0.001	0.0636	0.0637	0.13511731	0.117649165	7.287E-08	6.22E-05	6.19E-04	1.73E-04	4.51E-01	4.33E-01	2.71E-01
2988	478876.63	3850171.93	0.01219	0.05844	0.0007	0.00118	0.001	0.001	0.0584	0.05844	0.12718765	0.107934336	7.287E-08	6.22E-05	6.24E-04	1.74E-04	4.14E-01	3.97E-01	2.52E-01
2989	478976.63	3850171.93	0.01095	0.05019	0.00069	0.00118	0.001	0.001	0.0502	0.05019	0.11424977	0.092697199	7.183E-08	6.22E-05	6.33E-04	1.77E-04	3.56E-01	3.41E-01	2.22E-01
2990	479026.63	3850171.93	0.01046	0.04693	0.00069	0.00118	0.001	0.001	0.047	0.04693	0.10913723	0.086676222	7.183E-08	6.22E-05	6.33E-04	1.79E-04	3.33E-01	3.19E-01	2.10E-01
2991	479076.63	3850171.93	0.01004	0.04406	0.00069	0.00118	0.001	0.001	0.0441	0.04406	0.10475504	0.081375545	7.183E-08	6.22E-05	6.38E-04	1.79E-04	3.12E-01	3.00E-01	2.00E-01
2992	479126.63	3850171.93	0.00965	0.04154	0.00069	0.00117	0.001	0.001	0.0416	0.04154	0.10068587	0.076721292	7.183E-08	6.16E-05	6.42E-04	1.79E-04	2.94E-01	2.82E-01	1.90E-01
2993	479176.63	3850171.93	0.00927	0.03931	0.00069	0.00117	0.001	0.001	0.0393	0.03931	0.09672104	0.072602648	7.183E-08	6.16E-05	6.42E-04	1.79E-04	2.79E-01	2.67E-01	1.82E-01
2994	479226.63	3850171.93	0.0089	0.03739	0.00069	0.00116	0.001	0.001	0.0374	0.03739	0.09286055	0.069056551	7.183E-08	6.11E-05	6.47E-04	1.79E-04	2.65E-01	2.54E-01	1.74E-01
2995	479276.63	3850171.93	0.00857	0.03564	0.00069	0.00116	0.001	0.001	0.0357	0.03564	0.0894174	0.065824431	7.183E-08	6.11E-05	6.47E-04	1.77E-04	2.53E-01	2.42E-01	1.67E-01
2996	479326.63	3850171.93	0.00832	0.03402	0.00069	0.00115	0.001	0.001	0.0341	0.03402	0.08680896	0.062832411	7.183E-08	6.06E-05	6.47E-04	1.76E-04	2.41E-01	2.31E-01	1.60E-01
2997	479376.63	3850171.93	0.00811	0.03246	0.00069	0.00114	0.001	0.001	0.0325	0.03246	0.08461787	0.059951207	7.183E-08	6.00E-05	6.47E-04	1.74E-04	2.30E-01	2.21E-01	1.55E-01
2998	478676.63	3850221.93	0.02228	0.11861	0.00072	0.00116	0.001	0.001	0.1174	0.11861	0.23246438	0.219063854	7.496E-08	6.11E-05	6.05E-04	1.67E-04	8.32E-01	8.07E-01	4.77E-01
2999	478726.63	3850221.93	0.01939	0.10108	0.00072	0.00117	0.001	0.001	0.1003	0.10108	0.20231079	0.186687247	7.496E-08	6.16E-05	6.10E-04	1.70E-04	7.10E-01	6.87E-01	4.13E-01
3000	478976.63	3850221.93	0.01281	0.0586	0.0007	0.00119	0.001	0.001	0.0585	0.0586	0.13365658	0.108229844	7.287E-08	6.27E-05	6.33E-04	1.79E-04	4.14E-01	3.98E-01	2.59E-01
3001	479026.63	3850221.93	0.01213	0.05413	0.0007	0.00119	0.001	0.001	0.0541	0.05413	0.12656162	0.099974087	7.287E-08	6.27E-05	6.38E-04	1.80E-04	3.83E-01	3.68E-01	2.42E-01
3002	479076.63	3850221.93	0.01158	0.05035	0.0007	0.00119	0.001	0.001	0.0503	0.05035	0.12082305	0.092992708	7.287E-08	6.27E-05	6.38E-04	1.80E-04	3.56E-01	3.42E-01	2.29E-01
3003	479126.63	3850221.93	0.01106	0.04706	0.0007	0.00119	0.001	0.001	0.0471	0.04706	0.11539749	0.086916322	7.287E-08	6.27E-05	6.42E-04	1.80E-04	3.33E-01	3.20E-01	2.17E-01
3004	479176.63	3850221.93	0.01055	0.0442	0.0007	0.00119	0.001	0.001	0.0442	0.0442	0.11007627	0.081634115	7.287E-08	6.27E-05	6.47E-04	1.81E-04	3.13E-01	3.01E-01	2.05E-01
3005	479226.63	3850221.93	0.01009	0.04169	0.0007	0.00118	0.001	0.001	0.0417	0.04169	0.10527673	0.076998331	7.287E-08	6.22E-05	6.47E-04	1.80E-04	2.95E-01	2.83E-01	1.95E-01
3006	479276.63	3850221.93	0.00969	0.03947	0.0007	0.00118	0.001	0.001	0.0395	0.03947	0.10110322	0.072898156	7.287E-08	6.22E-05	6.47E-04	1.80E-04	2.80E-01	2.68E-01	1.86E-01
3007	479326.63	3850221.93	0.0094	0.0375	0.00069	0.00117	0.001	0.001	0.0375	0.0375	0.09807743	0.069259713	7.183E-08	6.16E-05	6.52E-04	1.79E-04	2.66E-01	2.55E-01	1.79E-01
3008	479376.63	3850221.93	0.00913	0.03569	0.00069	0.00116	0.001	0.001	0.0357	0.03569	0.09526031	0.065916777	7.183E-08	6.11E-05	6.52E-04	1.79E-04	2.53E-01	2.43E-01	1.72E-01
3009	478676.63	3850271.93	0.03471	0.18185	0.00073	0.00116	0.001	0.001	0.1782	0.18185	0.36215613	0.335863433	7.6E-08	6.11E-05	6.10E-04	1.67E-04	1.26E+00	1.24E+00	7.25E-01
3010	478726.63	3850271.93	0.02793	0.14425	0.00073	0.00117	0.001	0.001	0.1421	0.14425	0.29141518	0.266419028	7.6E-08	6.16E-05	6.10E-04	1.70E-04	1.01E+00	9.81E-01	5.84E-01
3011	478976.63	3850271.93	0.01543	0.07063	0.00071	0.0012	0.001	0.001	0.0703	0.07063	0.16099306	0.13044836	7.392E-08	6.32E-05	6.33E-04	1.79E-04	4.98E-01	4.80E-01	3.10E-01
3012	479026.63	3850271.93	0.01445	0.06413	0.00071	0.0012	0.001	0.001	0.0639	0.06413	0.15076797	0.118443343	7.392E-08	6.32E-05	6.38E-04	1.80E-04	4.53E-01	4.36E-01	2.87E-01

3013	479076.63	3850271.93	0.01368	0.05881	0.00071	0.00121	0.001	0.001	0.0587	0.05881	0.14273396	0.108617699	7.392E-08	6.37E-05	6.38E-04	1.81E-04	4.16E-01	4.00E-01	2.68E-01
3014	479126.63	3850271.93	0.01299	0.05433	0.00071	0.0012	0.001	0.001	0.0542	0.05433	0.13553466	0.100343472	7.392E-08	6.32E-05	6.42E-04	1.83E-04	3.84E-01	3.69E-01	2.52E-01
3015	479176.63	3850271.93	0.01232	0.0505	0.00071	0.0012	0.001	0.001	0.0504	0.0505	0.12854404	0.093269746	7.392E-08	6.32E-05	6.47E-04	1.83E-04	3.57E-01	3.43E-01	2.37E-01
3016	479226.63	3850271.93	0.01173	0.04719	0.00071	0.0012	0.001	0.001	0.0471	0.04719	0.12238811	0.087156422	7.392E-08	6.32E-05	6.47E-04	1.83E-04	3.34E-01	3.21E-01	2.24E-01
3017	479276.63	3850271.93	0.01126	0.04433	0.0007	0.00119	0.001	0.001	0.0443	0.04433	0.11748424	0.081874215	7.287E-08	6.27E-05	6.52E-04	1.83E-04	3.14E-01	3.01E-01	2.13E-01
3018	479326.63	3850271.93	0.01089	0.04183	0.0007	0.00119	0.001	0.001	0.0418	0.04183	0.11362375	0.077256901	7.287E-08	6.27E-05	6.52E-04	1.81E-04	2.96E-01	2.84E-01	2.04E-01
3019	479376.63	3850271.93	0.01058	0.03954	0.0007	0.00118	0.001	0.001	0.0395	0.03954	0.11038928	0.073027441	7.287E-08	6.22E-05	6.56E-04	1.80E-04	2.80E-01	2.69E-01	1.95E-01
3020	479053.24	3850293.52	0.01526	0.06622	0.00071	0.00121	0.001	0.001	0.066	0.06622	0.15921932	0.122303418	7.392E-08	6.37E-05	6.38E-04	1.81E-04	4.67E-01	4.50E-01	2.99E-01
3021	479103.24	3850293.52	0.01445	0.06055	0.00071	0.00121	0.001	0.001	0.0604	0.06055	0.15076797	0.111831349	7.392E-08	6.37E-05	6.42E-04	1.83E-04	4.28E-01	4.12E-01	2.79E-01
3022	479153.24	3850293.52	0.01367	0.05582	0.00071	0.00121	0.001	0.001	0.0557	0.05582	0.14262963	0.103095391	7.392E-08	6.37E-05	6.47E-04	1.83E-04	3.95E-01	3.80E-01	2.62E-01
3023	479203.24	3850293.52	0.01296	0.05177	0.00071	0.00121	0.001	0.001	0.0517	0.05177	0.13522165	0.095615342	7.392E-08	6.37E-05	6.47E-04	1.84E-04	3.66E-01	3.52E-01	2.46E-01
3024	479253.24	3850293.52	0.01239	0.04831	0.00071	0.0012	0.001	0.001	0.0482	0.04831	0.1292744	0.089224979	7.392E-08	6.32E-05	6.52E-04	1.84E-04	3.42E-01	3.29E-01	2.33E-01
3025	479303.24	3850293.52	0.01194	0.04533	0.00071	0.0012	0.001	0.001	0.0453	0.04533	0.12457921	0.083721141	7.392E-08	6.32E-05	6.52E-04	1.83E-04	3.21E-01	3.08E-01	2.22E-01
3026	479353.24	3850293.52	0.01156	0.04268	0.00071	0.00119	0.001	0.001	0.0426	0.04268	0.12061437	0.078826788	7.392E-08	6.27E-05	6.56E-04	1.83E-04	3.02E-01	2.90E-01	2.12E-01
3027	479153.24	3850343.52	0.01723	0.06654	0.00072	0.00122	0.001	0.001	0.0662	0.06654	0.17977384	0.122894434	7.496E-08	6.43E-05	6.47E-04	1.84E-04	4.69E-01	4.52E-01	3.20E-01
3028	479203.24	3850343.52	0.01631	0.06081	0.00072	0.00122	0.001	0.001	0.0606	0.06081	0.17017478	0.11231155	7.496E-08	6.43E-05	6.47E-04	1.86E-04	4.29E-01	4.13E-01	2.99E-01
3029	479253.24	3850343.52	0.01559	0.05608	0.00072	0.00122	0.001	0.001	0.0559	0.05608	0.16266246	0.103575592	7.496E-08	6.43E-05	6.52E-04	1.86E-04	3.96E-01	3.81E-01	2.82E-01
3030	479303.24	3850343.52	0.01495	0.05206	0.00072	0.00122	0.001	0.001	0.0519	0.05206	0.15598485	0.09615095	7.496E-08	6.43E-05	6.56E-04	1.86E-04	3.68E-01	3.54E-01	2.67E-01
3031	479353.24	3850343.52	0.01435	0.04855	0.00071	0.00121	0.001	0.001	0.0484	0.04855	0.14972459	0.089668241	7.392E-08	6.37E-05	6.56E-04	1.86E-04	3.43E-01	3.30E-01	2.53E-01
3032	479203.24	3850393.52	0.02474	0.07398	0.00073	0.00124	0.001	0.001	0.0735	0.07398	0.25813145	0.136635561	7.6E-08	6.53E-05	6.52E-04	1.87E-04	5.21E-01	5.03E-01	4.13E-01
3033	479253.24	3850393.52	0.02268	0.06702	0.00073	0.00123	0.001	0.001	0.0667	0.06702	0.23663789	0.123780959	7.6E-08	6.48E-05	6.52E-04	1.87E-04	4.72E-01	4.56E-01	3.78E-01
3034	479303.24	3850393.52	0.02082	0.0613	0.00073	0.00123	0.001	0.001	0.061	0.0613	0.21723108	0.113216544	7.6E-08	6.48E-05	6.56E-04	1.89E-04	4.32E-01	4.17E-01	3.47E-01
3035	479353.24	3850393.52	0.01926	0.05646	0.00072	0.00123	0.001	0.001	0.0562	0.05646	0.2009544	0.104277423	7.496E-08	6.48E-05	6.56E-04	1.87E-04	3.98E-01	3.84E-01	3.21E-01
3036	479403.24	3850393.52	0.01795	0.05228	0.00072	0.00122	0.001	0.001	0.0521	0.05228	0.18728616	0.096557274	7.496E-08	6.43E-05	6.61E-04	1.87E-04	3.69E-01	3.55E-01	2.98E-01
3037	479453.24	3850393.52	0.01686	0.04861	0.00072	0.00122	0.001	0.001	0.0485	0.04861	0.17591335	0.089779057	7.496E-08	6.43E-05	6.66E-04	1.86E-04	3.43E-01	3.31E-01	2.79E-01
3038	479503.24	3850393.52	0.01591	0.04528	0.00072	0.00121	0.001	0.001	0.0451	0.04528	0.16600127	0.083628794	7.496E-08	6.37E-05	6.66E-04	1.84E-04	3.20E-01	3.08E-01	2.62E-01
3039	479303.24	3850443.52	0.0334	0.07478	0.00073	0.00125	0.001	0.001	0.0742	0.07478	0.34848789	0.138113102	7.6E-08	6.58E-05	6.56E-04	1.90E-04	5.26E-01	5.08E-01	5.05E-01
3040	479353.24	3850443.52	0.02843	0.06762	0.00073	0.00124	0.001	0.001	0.0672	0.06762	0.29663206	0.124889114	7.6E-08	6.53E-05	6.61E-04	1.90E-04	4.76E-01	4.60E-01	4.38E-01
3041	479403.24	3850443.52	0.02497	0.06158	0.00073	0.00124	0.001	0.001	0.0612	0.06158	0.26053122	0.113733683	7.6E-08	6.53E-05	6.66E-04	1.89E-04	4.34E-01	4.19E-01	3.90E-01
3042	479453.24	3850443.52	0.02245	0.05644	0.00073	0.00123	0.001	0.001	0.0561	0.05644	0.23423812	0.104240485	7.6E-08	6.48E-05	6.66E-04	1.89E-04	3.98E-01	3.84E-01	3.53E-01
3043	479503.24	3850443.52	0.02051	0.05196	0.00073	0.00123	0.001	0.001	0.0517	0.05196	0.21399661	0.095966258	7.6E-08	6.48E-05	6.71E-04	1.87E-04	3.66E-01	3.53E-01	3.24E-01
3044	480327.18	3850987.04	0.01982	0.09117	0.00083	0.00136	0.002	0.001	0.0908	0.09117	0.20679731	0.168384214	8.641E-08	7.16E-05	7.32E-04	2.07E-04	6.43E-01	6.20E-01	4.00E-01
3045	480377.18	3850987.04	0.01777	0.08045	0.00084	0.00136	0.002	0.001	0.0803	0.08045	0.18540808	0.14858517	8.745E-08	7.16E-05	7.32E-04	2.05E-04	5.69E-01	5.47E-01	3.57E-01
3046	480427.18	3850987.04	0.01622	0.07182	0.00084	0.00135	0.002	0.001	0.0718	0.07182	0.16923574	0.132646202	8.745E-08	7.11E-05	7.32E-04	2.05E-04	5.09E-01	4.88E-01	3.23E-01
3047	480477.18	3850987.04	0.015	0.06461	0.00084	0.00135	0.002	0.001	0.0647	0.06461	0.15650654	0.119329868	8.745E-08	7.11E-05	7.27E-04	2.05E-04	4.58E-01	4.39E-01	2.96E-01
3048	480327.18	3851037.04	0.02647	0.12509	0.00084	0.00138	0.002	0.001	0.1243	0.12509	0.27618187	0.231031932	8.745E-08	7.27E-05	7.36E-04	2.10E-04	8.81E-01	8.51E-01	5.38E-01
3049	480377.18	3851037.04	0.02237	0.1059	0.00085	0.00138	0.002	0.001	0.1055	0.1059	0.23340342	0.195589429	8.849E-08	7.27E-05	7.36E-04	2.10E-04	7.48E-01	7.20E-01	4.57E-01
3050	480427.18	3851037.04	0.01957	0.09147	0.00085	0.00137	0.002	0.001	0.0913	0.09147	0.20418886	0.168938291	8.849E-08	7.22E-05	7.36E-04	2.08E-04	6.47E-01	6.22E-01	3.99E-01
3051	480477.18	3851037.04	0.01753	0.08036	0.00085	0.00137	0.002	0.001	0.0804	0.08036	0.18290398	0.148418947	8.849E-08	7.22E-05	7.36E-04	2.08E-04	5.70E-01	5.46E-01	3.55E-01
3052	480622.06	3851087.39	0.01601	0.07233	0.00088	0.00139	0.002	0.002	0.0726	0.07233	0.16704465	0.133588134	9.161E-08	7.32E-05	7.41E-04	2.11E-04	5.15E-01	4.92E-01	3.24E-01
3053	480672.06	3851087.39	0.01472	0.06518	0.00089	0.00139	0.002	0.002	0.0655	0.06518	0.15358508	0.120382615	9.265E-08	7.32E-05	7.36E-04	2.12E-04	4.64E-01	4.43E-01	2.96E-01
3054	480622.06	3851137.39	0.01974	0.09302	0.00089	0.00141	0.002	0.002	0.0934	0.09302	0.20596261	0.171801026	9.265E-08	7.43E-05	7.50E-04	2.15E-04	6.62E-01	6.33E-01	4.08E-01
3055	480672.06	3851137.39	0.01759	0.08148	0.0009	0.00141	0.002	0.002	0.0819	0.08148	0.18353	0.150487504	9.37E-08	7.43E-05	7.46E-04	2.15E-04	5.81E-01	5.54E-01	3.62E-01
3056	480722.06	3851137.39	0.01596	0.07259	0.00091	0.00141	0.002	0.002	0.0731	0.07259	0.16652296	0.134068335	9.474E-08	7.43E-05	7.46E-04	2.17E-04	5.18E-01	4.94E-01	3.26E-01
3057	480622.06	3851187.39	0.02741	0.12986	0.0009	0.00143	0.002	0.002	0.1303	0.12986	0.28598962	0.239841768	9.37E-08	7.53E-05	7.55E-04	2.18E-04	9.23E-01	8.83E-01	5.67E-01
3058	480672.06	3851187.39	0.02294	0.10871	0.00091	0.00143	0.002	0.002	0.1093	0.10871	0.23935067	0.20077929	9.474E-08	7.53E-05	7.55E-04	2.18E-04	7.75E-01	7.39E-01	4.77E-01
3059	480722.06	3851187.39	0.0199	0.09348	0.00092	0.00143	0.002	0.002	0.0941	0.09348	0.20763201	0.172650612	9.578E-08	7.53E-05	7.55E-04	2.19E-04	6.67E-01	6.36E-01	4.13E-01
3060	471363.09	3845877.25	0.00086	0.00333	0.00036	0.00056	7E-04	6E-04	0.0034	0.00333	0.00897304	0.006150262	3.748E-08	2.95E-05	3.38E-04	8.86E-05	2.37E-02	2.26E-02	1.67E-02
3061	471863.09	3845877.25	0.00087	0.00332	0.00037	0.00056	7E-04	6E-04	0.0033	0.00332	0.00907738	0.006131793	3.852E-08	2.95E-05	3.33E-04	9.00E-05	2.37E-02	2.26E-02	1.68E-02
3062	472363.09	3845877.25	0.00088	0.00383	0.00039	0.00057	7E-04	6E-04	0.0038	0.00383	0.00918172	0.007073725	4.06E-08	3.00E-05	3.38E-04	9.00E-05	2.72E-02	2.60E-02	1.79E-02
3063	472863.09	3845877.25	0.00086	0.00369	0.00039	0.00058	7E-04	6E-04	0.0037	0.00369	0.00897304	0.006815156	4.06E-08	3.06E-05	3.42E-04	8.86E-05	2.64E-02	2.51E-02	1.75E-02
3064	473363.09	3845877.25	0.00084	0.00378	0.00039	0.00061	8E-04	6E-04	0.0038	0.00378	0.00876437	0.006981379	4.06E-08	3.21E-05	3.56E-04	8.86E-05	2.71E-02	2.57E-02	1.77E-02
3065	473863.09	3845877.25	0.00082	0.00384	0.00038	0.00063	8E-04	6E-04	0.0039	0.00384	0.00855569	0.007092195	3.956E-08	3.32E-05	3.75E-04	8.86E-05	2.76E-02	2.61E-02	1.77E-02
3066	474363.09	3845877.25	0.00081	0.00407	0.00037	0.00061	8E-04	6E-04	0.0041	0.00407	0.00845135	0.007516987	3.852E-08	3.21E-05	3.85E-04	8.72E-05	2.93E-02	2.77E-02	1.81E-02
3067	474863.09	3845877.25	0.00082	0.0042	0.00037	0.00059	8E-04	6E-04	0.0043	0.0042	0.00855569	0.007757088	3.852E-08	3.11E-05	3.70E-04	8.58E-05	3.01E-02	2.86E-02	1.84E-02
3068	475363.09	3845877.25	0.00085	0.00424	0.00036	0.00056	7E-04	6E-04	0.0043	0.00424	0.0088687	0.007830965	3.748E-08	2.95E-05	3.47E-04	8.86E-05	3.03E-02	2.88E-02	1.86E-02
3069	475863.09	3845877.25	0.00088	0.00414	0.00036	0.00055	7E-04	6E-04	0.0042	0.00414	0.00918172	0.007646272	3.748E-08	2.90E-05	3.19E-04	8.86E-05	2.94E-02	2.82E-02	1.85E-02
3070	476363.09	3845877.25	0.00088	0.00393	0.00037	0.00057	7E-04	6E-04	0.004	0.00393	0.00918172	0.007258418	3.852E-08	3.00E-05	3.05E-04	8.86E-05	2.81E-02	2.67E-02	1.83E-02

3071	476863.09	3845877.25	0.00084	0.0037	0.00037	0.00058	6E-04	6E-04	0.0038	0.0037	0.00876437	0.006833625	3.852E-08	3.06E-05	3.00E-04	8.72E-05	2.66E-02	2.52E-02	1.75E-02
3072	477363.09	3845877.25	0.00081	0.00351	0.00037	0.00059	7E-04	6E-04	0.0036	0.00351	0.00845135	0.006482709	3.852E-08	3.11E-05	3.28E-04	8.58E-05	2.53E-02	2.39E-02	1.68E-02
3073	477863.09	3845877.25	0.0008	0.0033	0.00037	0.00057	8E-04	6E-04	0.0033	0.0033	0.00834702	0.006094855	3.852E-08	3.00E-05	3.75E-04	8.44E-05	2.36E-02	2.24E-02	1.61E-02
3074	478363.09	3845877.25	0.0008	0.00317	0.00037	0.00055	8E-04	6E-04	0.0032	0.00317	0.00834702	0.005854754	3.852E-08	2.90E-05	3.61E-04	8.30E-05	2.27E-02	2.16E-02	1.58E-02
3075	478863.09	3845877.25	0.00081	0.00305	0.00037	0.00055	7E-04	6E-04	0.0031	0.00305	0.00845135	0.005633123	3.852E-08	2.90E-05	3.09E-04	8.30E-05	2.18E-02	2.07E-02	1.56E-02
3076	479363.09	3845877.25	0.00083	0.00299	0.00037	0.00055	6E-04	6E-04	0.003	0.00299	0.00866003	0.005522308	3.852E-08	2.90E-05	2.91E-04	8.44E-05	2.14E-02	2.03E-02	1.57E-02
3077	479863.09	3845877.25	0.00087	0.00288	0.00038	0.00055	6E-04	6E-04	0.0029	0.00288	0.00907738	0.005319146	3.956E-08	2.90E-05	2.86E-04	8.58E-05	2.05E-02	1.96E-02	1.58E-02
3078	480363.09	3845877.25	0.00089	0.00268	0.0004	0.00054	6E-04	6E-04	0.0027	0.00268	0.00928605	0.004949761	4.164E-08	2.84E-05	2.86E-04	8.58E-05	1.91E-02	1.82E-02	1.55E-02
3079	480863.09	3845877.25	0.0009	0.00256	0.00042	0.00054	6E-04	6E-04	0.0026	0.00256	0.00939039	0.00472813	4.372E-08	2.84E-05	2.95E-04	8.72E-05	1.83E-02	1.74E-02	1.54E-02
3080	481363.09	3845877.25	0.00088	0.00245	0.00041	0.00055	7E-04	6E-04	0.0025	0.00245	0.00918172	0.004524968	4.268E-08	2.90E-05	3.05E-04	8.58E-05	1.76E-02	1.67E-02	1.50E-02
3081	481863.09	3845877.25	0.00083	0.00234	0.00038	0.00054	7E-04	6E-04	0.0024	0.00234	0.00866003	0.004321806	3.956E-08	2.84E-05	3.09E-04	8.44E-05	1.68E-02	1.59E-02	1.43E-02
3082	482363.09	3845877.25	0.00079	0.00222	0.00038	0.00054	6E-04	6E-04	0.0023	0.00222	0.00824268	0.004100175	3.956E-08	2.84E-05	2.95E-04	8.44E-05	1.59E-02	1.51E-02	1.36E-02
3083	482863.09	3845877.25	0.00076	0.00198	0.00036	0.00051	6E-04	6E-04	0.002	0.00198	0.00792966	0.003656913	3.748E-08	2.69E-05	2.95E-04	8.16E-05	1.42E-02	1.35E-02	1.27E-02
3084	483363.09	3845877.25	0.00074	0.00186	0.00036	0.00051	7E-04	6E-04	0.0019	0.00186	0.00772099	0.003435282	3.748E-08	2.69E-05	3.14E-04	7.88E-05	1.34E-02	1.26E-02	1.23E-02
3085	483863.09	3845877.25	0.00079	0.00201	0.00038	0.00053	7E-04	6E-04	0.002	0.00201	0.00824268	0.003712321	3.956E-08	2.79E-05	3.33E-04	8.16E-05	1.44E-02	1.37E-02	1.31E-02
3086	484363.09	3845877.25	0.00078	0.00199	0.00039	0.00053	7E-04	6E-04	0.002	0.00199	0.00813834	0.003675382	4.06E-08	2.79E-05	3.24E-04	8.02E-05	1.42E-02	1.35E-02	1.30E-02
3087	484863.09	3845877.25	0.00076	0.00194	0.00038	0.00053	7E-04	6E-04	0.002	0.00194	0.00792966	0.003583036	3.956E-08	2.79E-05	3.09E-04	7.74E-05	1.39E-02	1.32E-02	1.26E-02
3088	485363.09	3845877.25	0.00075	0.00188	0.00037	0.00052	6E-04	5E-04	0.0019	0.00188	0.00782533	0.00347222	3.852E-08	2.74E-05	2.81E-04	7.60E-05	1.35E-02	1.28E-02	1.24E-02
3089	485863.09	3845877.25	0.00075	0.00187	0.00037	0.00052	6E-04	5E-04	0.0019	0.00187	0.00782533	0.003453751	3.852E-08	2.74E-05	2.58E-04	7.60E-05	1.34E-02	1.27E-02	1.23E-02
3090	486363.09	3845877.25	0.00076	0.00184	0.00038	0.00051	6E-04	5E-04	0.0019	0.00184	0.00792966	0.003398343	3.956E-08	2.69E-05	2.58E-04	7.60E-05	1.32E-02	1.25E-02	1.24E-02
3091	486863.09	3845877.25	0.00076	0.00177	0.00037	0.0005	6E-04	5E-04	0.0018	0.00177	0.00792966	0.003269058	3.852E-08	2.63E-05	2.63E-04	7.46E-05	1.27E-02	1.20E-02	1.22E-02
3092	487363.09	3845877.25	0.00077	0.00175	0.00036	0.00049	6E-04	5E-04	0.0018	0.00175	0.008034	0.00323212	3.748E-08	2.58E-05	2.67E-04	7.46E-05	1.25E-02	1.19E-02	1.22E-02
3093	487863.09	3845877.25	0.00076	0.00168	0.00035	0.00048	6E-04	5E-04	0.0017	0.00168	0.00792966	0.003102835	3.644E-08	2.53E-05	2.77E-04	7.32E-05	1.20E-02	1.14E-02	1.20E-02
3094	488363.09	3845877.25	0.00076	0.00165	0.00035	0.00047	6E-04	5E-04	0.0017	0.00165	0.00792966	0.003047427	3.644E-08	2.48E-05	2.95E-04	7.32E-05	1.18E-02	1.12E-02	1.20E-02
3095	488863.09	3845877.25	0.00079	0.00173	0.00036	0.00049	6E-04	5E-04	0.0017	0.00173	0.00824268	0.003195181	3.748E-08	2.58E-05	2.86E-04	7.46E-05	1.23E-02	1.18E-02	1.24E-02
3096	489363.09	3845877.25	0.0008	0.00171	0.00036	0.00049	6E-04	5E-04	0.0017	0.00171	0.00834702	0.003158243	3.748E-08	2.58E-05	2.67E-04	7.60E-05	1.23E-02	1.16E-02	1.25E-02
3097	489863.09	3845877.25	0.00079	0.00165	0.00036	0.00048	6E-04	5E-04	0.0017	0.00165	0.00824268	0.003047427	3.748E-08	2.53E-05	2.58E-04	7.46E-05	1.18E-02	1.12E-02	1.23E-02
3098	490363.09	3845877.25	0.00077	0.00157	0.00037	0.00047	6E-04	5E-04	0.0016	0.00157	0.008034	0.002899673	3.852E-08	2.48E-05	2.63E-04	7.32E-05	1.13E-02	1.07E-02	1.19E-02
3099	490863.09	3845877.25	0.00075	0.00143	0.00036	0.00045	6E-04	5E-04	0.0014	0.00143	0.00782533	0.002641104	3.748E-08	2.37E-05	2.67E-04	7.17E-05	1.02E-02	9.72E-03	1.13E-02
3100	491363.09	3845877.25	0.00078	0.00149	0.00037	0.00047	6E-04	5E-04	0.0015	0.00149	0.00813834	0.002751919	3.852E-08	2.48E-05	2.86E-04	7.46E-05	1.06E-02	1.01E-02	1.18E-02
3101	491863.09	3845877.25	0.00081	0.00152	0.00039	0.00048	6E-04	5E-04	0.0015	0.00152	0.00845135	0.002807327	4.06E-08	2.53E-05	2.91E-04	7.60E-05	1.08E-02	1.03E-02	1.22E-02
3102	492363.09	3845877.25	0.00079	0.00141	0.00039	0.00048	6E-04	5E-04	0.0014	0.00141	0.00824268	0.002604165	4.06E-08	2.53E-05	2.77E-04	7.46E-05	1.01E-02	9.59E-03	1.17E-02
3103	492863.09	3845877.25	0.00084	0.00152	0.00041	0.00049	6E-04	6E-04	0.0015	0.00152	0.00876437	0.002807327	4.268E-08	2.58E-05	2.81E-04	7.88E-05	1.08E-02	1.03E-02	1.25E-02
3104	493363.09	3845877.25	0.00087	0.00154	0.00041	0.00051	6E-04	6E-04	0.0016	0.00154	0.00907738	0.002844266	4.268E-08	2.69E-05	2.86E-04	8.02E-05	1.11E-02	1.05E-02	1.29E-02
3105	493863.09	3845877.25	0.00089	0.00156	0.00043	0.00052	6E-04	6E-04	0.0016	0.00156	0.00928605	0.002881204	4.477E-08	2.74E-05	2.91E-04	8.16E-05	1.12E-02	1.06E-02	1.32E-02
3106	494363.09	3845877.25	0.00092	0.00157	0.00044	0.00053	6E-04	6E-04	0.0016	0.00157	0.00959907	0.002899673	4.581E-08	2.79E-05	2.95E-04	8.30E-05	1.12E-02	1.07E-02	1.34E-02
3107	494863.09	3845877.25	0.00093	0.00156	0.00045	0.00054	6E-04	6E-04	0.0016	0.00156	0.00970341	0.002881204	4.685E-08	2.84E-05	2.95E-04	8.44E-05	1.12E-02	1.06E-02	1.36E-02
3108	495363.09	3845877.25	0.00096	0.00157	0.00046	0.00056	6E-04	6E-04	0.0016	0.00157	0.01001642	0.002899673	4.789E-08	2.95E-05	2.95E-04	8.72E-05	1.13E-02	1.07E-02	1.39E-02
3109	495863.09	3845877.25	0.00098	0.00159	0.00047	0.00057	7E-04	6E-04	0.0016	0.00159	0.01022509	0.002936612	4.893E-08	3.00E-05	3.05E-04	8.86E-05	1.13E-02	1.08E-02	1.41E-02
3110	496363.09	3845877.25	0.00101	0.00159	0.00048	0.00058	7E-04	7E-04	0.0016	0.00159	0.01053811	0.002936612	4.997E-08	3.06E-05	3.28E-04	9.14E-05	1.14E-02	1.08E-02	1.45E-02
3111	496863.09	3845877.25	0.00102	0.00159	0.0005	0.00059	7E-04	7E-04	0.0016	0.00159	0.01064244	0.002936612	5.205E-08	3.11E-05	3.47E-04	9.43E-05	1.14E-02	1.08E-02	1.46E-02
3112	497363.09	3845877.25	0.00105	0.00158	0.00052	0.0006	8E-04	7E-04	0.0016	0.00158	0.01095546	0.002918143	5.414E-08	3.16E-05	3.61E-04	9.57E-05	1.13E-02	1.07E-02	1.50E-02
3113	497863.09	3845877.25	0.00107	0.00158	0.00054	0.00061	8E-04	7E-04	0.0016	0.00158	0.01116413	0.002918143	5.622E-08	3.21E-05	3.75E-04	9.85E-05	1.13E-02	1.07E-02	1.52E-02
3114	498363.09	3845877.25	0.00109	0.00157	0.00055	0.00062	8E-04	7E-04	0.0016	0.00157	0.01137281	0.002899673	5.726E-08	3.27E-05	3.89E-04	9.99E-05	1.13E-02	1.07E-02	1.54E-02
3115	471363.09	3846377.25	0.00094	0.06116	0.0004	0.00066	9E-04	7E-04	0.0616	0.06116	0.00980774	0.112957974	4.164E-08	3.48E-05	3.99E-04	9.99E-05	4.37E-01	4.16E-01	1.44E-01
3116	471863.09	3846377.25	0.00094	0.05165	0.00039	0.00063	8E-04	7E-04	0.0521	0.05165	0.00980774	0.095393711	4.06E-08	3.32E-05	3.75E-04	9.71E-05	3.69E-01	3.51E-01	1.23E-01
3117	472363.09	3846377.25	0.00092	0.01572	0.00038	0.00058	7E-04	7E-04	0.0158	0.01572	0.00959907	0.029033672	3.956E-08	3.06E-05	3.47E-04	9.28E-05	1.12E-01	1.07E-01	4.44E-02
3118	472863.09	3846377.25	0.00093	0.01091	0.0004	0.00059	8E-04	7E-04	0.011	0.01091	0.00970341	0.020149959	4.164E-08	3.11E-05	3.52E-04	9.43E-05	7.78E-02	7.42E-02	3.39E-02
3119	473363.09	3846377.25	0.00092	0.0086	0.00042	0.00061	8E-04	7E-04	0.0087	0.0086	0.00959907	0.015883561	4.372E-08	3.21E-05	3.56E-04	9.28E-05	6.14E-02	5.85E-02	2.88E-02
3120	473863.09	3846377.25	0.00092	0.0077	0.00042	0.00064	8E-04	7E-04	0.0078	0.0077	0.00959907	0.014221328	4.372E-08	3.37E-05	3.70E-04	9.43E-05	5.51E-02	5.24E-02	2.71E-02
3121	474363.09	3846377.25	0.0009	0.00696	0.00041	0.00067	8E-04	7E-04	0.0071	0.00696	0.00939039	0.012854603	4.268E-08	3.53E-05	3.94E-04	9.43E-05	5.00E-02	4.73E-02	2.54E-02
3122	474863.09	3846377.25	0.00089	0.00654	0.0004	0.00066	9E-04	7E-04	0.0066	0.00654	0.00928605	0.012078894	4.164E-08	3.48E-05	4.08E-04	9.28E-05	4.69E-02	4.45E-02	2.43E-02
3123	475363.09	3846377.25	0.0009	0.00608	0.00039	0.00063	8E-04	7E-04	0.0061	0.00608	0.00939039	0.011229308	4.06E-08	3.32E-05	3.94E-04	9.28E-05	4.35E-02	4.13E-02	2.33E-02
3124	475863.09	3846377.25	0.00092	0.00573	0.00039	0.00059	8E-04	7E-04	0.0058	0.00573	0.00959907	0.010582884	4.06E-08	3.11E-05	3.66E-04	9.57E-05	4.08E-02	3.90E-02	2.25E-02
3125	476363.09	3846377.25	0.00094	0.00527	0.00038	0.00058	7E-04	7E-04	0.0053	0.00527	0.00980774	0.009733298	3.956E-08	3.06E-05	3.38E-04	9.43E-05	3.76E-02	3.58E-02	2.17E-02
3126	476863.09	3846377.25	0.00094	0.00487	0.00039	0.0006	7E-04	7E-04	0.0049	0.00487	0.00980774	0.008994528	4.06E-08	3.16E-05	3.19E-04	9.28E-05	3.49E-02	3.31E-02	2.10E-02
3127	477363.09	3846377.25	0.0009	0.00452	0.00038	0.00061	7E-04	7E-04	0.0046	0.00452	0.00939039	0.008348104	3.956E-08	3.21E-05	3.19E-04	9.28E-05	3.25E-02	3.07E-02	2.00E-02
3128	477863.09	3846377.25	0.00088	0.00417	0.00039	0.00062	8E-04	6E-04	0.0042	0.00417	0.00918172	0.00770168	4.06E-08	3.27E-05	3.52E-04	9.00E-05	3.00E-02	2.84E-02	1.90E-02

3129	478363.09	3846377.25	0.00087	0.00392	0.00039	0.00059	9E-04	6E-04	0.004	0.00392	0.00907738	0.007239949	4.06E-08	3.11E-05	3.99E-04	8.86E-05	2.81E-02	2.67E-02	1.82E-02
3130	478863.09	3846377.25	0.00088	0.00377	0.00039	0.00058	8E-04	6E-04	0.0038	0.00377	0.00918172	0.00696291	4.06E-08	3.06E-05	3.75E-04	8.86E-05	2.69E-02	2.56E-02	1.79E-02
3131	479363.09	3846377.25	0.00089	0.0036	0.00039	0.00059	7E-04	6E-04	0.0036	0.0036	0.00928605	0.006648932	4.06E-08	3.11E-05	3.19E-04	8.86E-05	2.58E-02	2.45E-02	1.77E-02
3132	479863.09	3846377.25	0.00092	0.00341	0.0004	0.00058	7E-04	6E-04	0.0034	0.00341	0.00959907	0.006298017	4.164E-08	3.06E-05	3.05E-04	9.00E-05	2.44E-02	2.32E-02	1.75E-02
3133	480363.09	3846377.25	0.00097	0.00329	0.00042	0.00058	6E-04	7E-04	0.0033	0.00329	0.01012076	0.006076385	4.372E-08	3.06E-05	2.95E-04	9.28E-05	2.35E-02	2.24E-02	1.78E-02
3134	480863.09	3846377.25	0.00098	0.00303	0.00044	0.00058	6E-04	7E-04	0.0031	0.00303	0.01022509	0.005596185	4.581E-08	3.06E-05	3.00E-04	9.14E-05	2.17E-02	2.06E-02	1.73E-02
3135	481363.09	3846377.25	0.00098	0.0029	0.00044	0.00058	7E-04	7E-04	0.0029	0.0029	0.01022509	0.005356084	4.581E-08	3.06E-05	3.19E-04	9.14E-05	2.08E-02	1.97E-02	1.71E-02
3136	481863.09	3846377.25	0.00095	0.00275	0.00042	0.00058	7E-04	6E-04	0.0028	0.00275	0.00991208	0.005079046	4.372E-08	3.06E-05	3.24E-04	9.00E-05	1.97E-02	1.87E-02	1.64E-02
3137	482363.09	3846377.25	0.00088	0.00258	0.0004	0.00057	7E-04	6E-04	0.0026	0.00258	0.00918172	0.004765068	4.164E-08	3.00E-05	3.19E-04	8.86E-05	1.85E-02	1.75E-02	1.53E-02
3138	482863.09	3846377.25	0.00084	0.00235	0.00039	0.00055	7E-04	6E-04	0.0024	0.00235	0.00876437	0.004340275	4.06E-08	2.90E-05	3.09E-04	8.72E-05	1.69E-02	1.60E-02	1.44E-02
3139	483363.09	3846377.25	0.00087	0.00237	0.0004	0.00056	7E-04	6E-04	0.0024	0.00237	0.00907738	0.004377214	4.164E-08	2.95E-05	3.24E-04	8.86E-05	1.69E-02	1.61E-02	1.47E-02
3140	483863.09	3846377.25	0.00087	0.0023	0.0004	0.00056	8E-04	6E-04	0.0023	0.0023	0.00907738	0.004247929	4.164E-08	2.95E-05	3.56E-04	8.72E-05	1.65E-02	1.56E-02	1.47E-02
3141	484363.09	3846377.25	0.00085	0.00218	0.0004	0.00055	7E-04	6E-04	0.0022	0.00218	0.0088687	0.004026298	4.164E-08	2.90E-05	3.42E-04	8.44E-05	1.57E-02	1.48E-02	1.42E-02
3142	484863.09	3846377.25	0.00086	0.00224	0.00041	0.00056	7E-04	6E-04	0.0023	0.00224	0.00897304	0.004137114	4.268E-08	2.95E-05	3.42E-04	8.30E-05	1.60E-02	1.52E-02	1.43E-02
3143	485363.09	3846377.25	0.00085	0.00221	0.00041	0.00056	7E-04	6E-04	0.0022	0.00221	0.0088687	0.004081706	4.268E-08	2.95E-05	3.14E-04	8.30E-05	1.58E-02	1.50E-02	1.41E-02
3144	485863.09	3846377.25	0.00084	0.00212	0.0004	0.00056	6E-04	6E-04	0.0021	0.00212	0.00876437	0.003915482	4.164E-08	2.95E-05	2.77E-04	8.16E-05	1.52E-02	1.44E-02	1.38E-02
3145	486363.09	3846377.25	0.00081	0.00195	0.00039	0.00053	6E-04	6E-04	0.002	0.00195	0.00845135	0.003601505	4.06E-08	2.79E-05	2.67E-04	7.88E-05	1.40E-02	1.33E-02	1.31E-02
3146	486863.09	3846377.25	0.00081	0.00189	0.00038	0.00052	6E-04	6E-04	0.0019	0.00189	0.00845135	0.00349069	3.956E-08	2.74E-05	2.72E-04	7.88E-05	1.35E-02	1.29E-02	1.30E-02
3147	487363.09	3846377.25	0.00083	0.0019	0.00038	0.00052	6E-04	6E-04	0.0019	0.0019	0.00866003	0.003509159	3.956E-08	2.74E-05	2.81E-04	7.88E-05	1.35E-02	1.29E-02	1.32E-02
3148	487863.09	3846377.25	0.00086	0.00196	0.00038	0.00053	7E-04	6E-04	0.002	0.00196	0.00897304	0.003619974	3.956E-08	2.79E-05	3.05E-04	8.02E-05	1.40E-02	1.33E-02	1.37E-02
3149	488363.09	3846377.25	0.00086	0.00192	0.00038	0.00052	7E-04	6E-04	0.0019	0.00192	0.00897304	0.003546097	3.956E-08	2.74E-05	3.24E-04	8.02E-05	1.37E-02	1.31E-02	1.36E-02
3150	488863.09	3846377.25	0.00086	0.00189	0.00038	0.00052	7E-04	6E-04	0.0019	0.00189	0.00897304	0.00349069	3.956E-08	2.74E-05	3.09E-04	8.02E-05	1.35E-02	1.29E-02	1.36E-02
3151	489363.09	3846377.25	0.00087	0.00187	0.00038	0.00052	6E-04	6E-04	0.0019	0.00187	0.00907738	0.003453751	3.956E-08	2.74E-05	2.86E-04	8.02E-05	1.33E-02	1.27E-02	1.35E-02
3152	489863.09	3846377.25	0.00086	0.0018	0.00039	0.00051	6E-04	6E-04	0.0018	0.0018	0.00897304	0.003324466	4.06E-08	2.69E-05	2.77E-04	8.02E-05	1.29E-02	1.22E-02	1.33E-02
3153	490363.09	3846377.25	0.00083	0.00165	0.00039	0.00049	6E-04	6E-04	0.0017	0.00165	0.00866003	0.003047427	4.06E-08	2.58E-05	2.77E-04	7.74E-05	1.18E-02	1.12E-02	1.26E-02
3154	490863.09	3846377.25	0.00082	0.00158	0.00039	0.00049	6E-04	6E-04	0.0016	0.00158	0.00855569	0.002918143	4.06E-08	2.58E-05	2.86E-04	7.74E-05	1.13E-02	1.07E-02	1.24E-02
3155	491363.09	3846377.25	0.00084	0.00155	0.0004	0.00049	6E-04	6E-04	0.0016	0.00155	0.00876437	0.002862735	4.164E-08	2.58E-05	3.00E-04	7.74E-05	1.11E-02	1.05E-02	1.26E-02
3156	491863.09	3846377.25	0.00088	0.00163	0.00042	0.00052	7E-04	6E-04	0.0017	0.00163	0.00918172	0.003010489	4.372E-08	2.74E-05	3.05E-04	8.16E-05	1.17E-02	1.11E-02	1.32E-02
3157	492363.09	3846377.25	0.00088	0.0016	0.00042	0.00052	6E-04	6E-04	0.0016	0.0016	0.00918172	0.002955081	4.372E-08	2.74E-05	2.95E-04	8.16E-05	1.14E-02	1.09E-02	1.31E-02
3158	492863.09	3846377.25	0.0009	0.00159	0.00043	0.00052	6E-04	6E-04	0.0016	0.00159	0.00939039	0.002936612	4.477E-08	2.74E-05	2.95E-04	8.30E-05	1.14E-02	1.08E-02	1.33E-02
3159	493363.09	3846377.25	0.00094	0.00164	0.00045	0.00054	6E-04	6E-04	0.0017	0.00164	0.00980774	0.003028958	4.685E-08	2.84E-05	3.00E-04	8.58E-05	1.18E-02	1.12E-02	1.39E-02
3160	493863.09	3846377.25	0.00097	0.00165	0.00046	0.00056	7E-04	6E-04	0.0017	0.00165	0.01012076	0.003047427	4.789E-08	2.95E-05	3.09E-04	8.72E-05	1.18E-02	1.12E-02	1.42E-02
3161	494363.09	3846377.25	0.00099	0.00166	0.00048	0.00057	7E-04	6E-04	0.0017	0.00166	0.01032943	0.003065897	4.997E-08	3.00E-05	3.09E-04	9.00E-05	1.19E-02	1.13E-02	1.44E-02
3162	494863.09	3846377.25	0.00101	0.00166	0.00049	0.00059	7E-04	7E-04	0.0017	0.00166	0.01053811	0.003065897	5.101E-08	3.11E-05	3.05E-04	9.14E-05	1.19E-02	1.13E-02	1.46E-02
3163	495363.09	3846377.25	0.00104	0.00166	0.0005	0.0006	7E-04	7E-04	0.0017	0.00166	0.01085112	0.003065897	5.205E-08	3.16E-05	3.14E-04	9.43E-05	1.19E-02	1.13E-02	1.50E-02
3164	495863.09	3846377.25	0.00106	0.00167	0.00051	0.00061	7E-04	7E-04	0.0017	0.00167	0.0110598	0.003084366	5.309E-08	3.21E-05	3.38E-04	9.57E-05	1.20E-02	1.14E-02	1.52E-02
3165	496363.09	3846377.25	0.00109	0.00168	0.00053	0.00062	8E-04	7E-04	0.0017	0.00168	0.01137281	0.003102835	5.518E-08	3.27E-05	3.61E-04	9.85E-05	1.20E-02	1.14E-02	1.56E-02
3166	496863.09	3846377.25	0.00112	0.00168	0.00055	0.00063	8E-04	7E-04	0.0017	0.00168	0.01168582	0.003102835	5.726E-08	3.32E-05	3.75E-04	1.01E-04	1.20E-02	1.14E-02	1.59E-02
3167	497363.09	3846377.25	0.00114	0.00167	0.00057	0.00065	8E-04	7E-04	0.0017	0.00167	0.0118945	0.003084366	5.934E-08	3.42E-05	3.94E-04	1.04E-04	1.20E-02	1.14E-02	1.62E-02
3168	497863.09	3846377.25	0.00117	0.00166	0.00059	0.00066	9E-04	8E-04	0.0017	0.00166	0.01220751	0.003065897	6.142E-08	3.48E-05	4.13E-04	1.07E-04	1.20E-02	1.13E-02	1.65E-02
3169	498363.09	3846377.25	0.0012	0.00165	0.00061	0.00067	9E-04	8E-04	0.0017	0.00165	0.01252052	0.003047427	6.35E-08	3.53E-05	4.22E-04	1.10E-04	1.18E-02	1.12E-02	1.67E-02
3170	471363.09	3846877.25	0.001	0.00839	0.00047	0.0007	9E-04	8E-04	0.0085	0.00839	0.01043377	0.015495706	4.893E-08	3.69E-05	4.17E-04	1.06E-04	6.01E-02	5.71E-02	2.95E-02
3171	471863.09	3846877.25	0.00101	0.01782	0.00044	0.0007	9E-04	8E-04	0.018	0.01782	0.01053811	0.032912215	4.581E-08	3.69E-05	4.22E-04	1.06E-04	1.27E-01	1.21E-01	5.02E-02
3172	472363.09	3846877.25	0.00102	0.22642	0.00042	0.00068	9E-04	7E-04	0.2277	0.22642	0.01064244	0.418180911	4.372E-08	3.58E-05	4.08E-04	1.04E-04	1.61E+00	1.54E+00	5.03E-01
3173	472863.09	3846877.25	0.00099	0.02711	0.0004	0.00062	8E-04	7E-04	0.0273	0.02711	0.01032943	0.050070155	4.164E-08	3.27E-05	3.70E-04	9.85E-05	1.93E-01	1.84E-01	6.99E-02
3174	473363.09	3846877.25	0.00101	0.01674	0.00042	0.00062	8E-04	7E-04	0.0169	0.01674	0.01053811	0.030917536	4.372E-08	3.27E-05	3.66E-04	9.85E-05	1.19E-01	1.14E-01	4.75E-02
3175	473863.09	3846877.25	0.00102	0.01353	0.00045	0.00064	8E-04	7E-04	0.0136	0.01353	0.01064244	0.024988904	4.685E-08	3.37E-05	3.70E-04	9.99E-05	9.65E-02	9.20E-02	4.06E-02
3176	474363.09	3846877.25	0.00101	0.01084	0.00045	0.00067	8E-04	7E-04	0.0109	0.01084	0.01053811	0.020020674	4.685E-08	3.53E-05	3.85E-04	9.85E-05	7.75E-02	7.37E-02	3.49E-02
3177	474863.09	3846877.25	0.00099	0.0092	0.00043	0.00071	9E-04	7E-04	0.0093	0.0092	0.01032943	0.016991716	4.477E-08	3.74E-05	4.08E-04	9.99E-05	6.60E-02	6.26E-02	3.13E-02
3178	475363.09	3846877.25	0.00097	0.00802	0.00042	0.0007	9E-04	7E-04	0.0081	0.00802	0.01012076	0.014812344	4.372E-08	3.69E-05	4.31E-04	9.71E-05	5.76E-02	5.45E-02	2.86E-02
3179	475863.09	3846877.25	0.00098	0.00754	0.00041	0.00067	9E-04	7E-04	0.0076	0.00754	0.01022509	0.01392582	4.268E-08	3.53E-05	4.22E-04	9.85E-05	5.40E-02	5.13E-02	2.74E-02
3180	476363.09	3846877.25	0.001	0.0069	0.00041	0.00063	8E-04	7E-04	0.0069	0.0069	0.01043377	0.012743787	4.268E-08	3.32E-05	3.89E-04	1.01E-04	4.92E-02	4.69E-02	2.60E-02
3181	476863.09	3846877.25	0.00102	0.00625	0.00041	0.00062	8E-04	7E-04	0.0063	0.00625	0.01064244	0.011543285	4.268E-08	3.27E-05	3.56E-04	9.85E-05	4.46E-02	4.25E-02	2.47E-02
3182	477363.09	3846877.25	0.00102	0.00572	0.00041	0.00064	7E-04	7E-04	0.0058	0.00572	0.01064244	0.010564415	4.268E-08	3.37E-05	3.33E-04	9.85E-05	4.10E-02	3.89E-02	2.38E-02
3183	477863.09	3846877.25	0.00098	0.00521	0.0004	0.00065	7E-04	7E-04	0.0053	0.00521	0.01022509	0.009622483	4.164E-08	3.42E-05	3.38E-04	9.71E-05	3.75E-02	3.54E-02	2.24E-02
3184	478363.09	3846877.25	0.00097	0.00483	0.00041	0.00065	8E-04	7E-04	0.0049	0.00483	0.01012076	0.008920651	4.268E-08	3.42E-05	3.80E-04	9.57E-05	3.47E-02	3.28E-02	2.14E-02
3185	478863.09	3846877.25	0.00098	0.00459	0.00042	0.00063	9E-04	7E-04	0.0046	0.00459	0.01022509	0.008477389	4.372E-08	3.32E-05	4.36E-04	9.43E-05	3.29E-02	3.12E-02	2.09E-02
3186	479363.09	3846877.25	0.00097	0.0043	0.00042	0.00062	8E-04	7E-04	0.0043	0.0043	0.01012076	0.00794178	4.372E-08	3.27E-05	3.89E-04	9.43E-05	3.08E-02	2.92E-02	2.01E-02

3187	479863.09	3846877.25	0.00096	0.00382	0.00041	0.0006	7E-04	7E-04	0.0039	0.00382	0.01001642	0.007055256	4.268E-08	3.16E-05	3.28E-04	9.28E-05	2.73E-02	2.60E-02	1.89E-02
3188	480363.09	3846877.25	0.00099	0.00349	0.00043	0.00059	7E-04	7E-04	0.0035	0.00349	0.01032943	0.006445771	4.477E-08	3.11E-05	3.14E-04	9.28E-05	2.49E-02	2.37E-02	1.84E-02
3189	480863.09	3846877.25	0.00102	0.00329	0.00045	0.00059	7E-04	7E-04	0.0033	0.00329	0.01064244	0.006076385	4.685E-08	3.11E-05	3.09E-04	9.43E-05	2.35E-02	2.24E-02	1.82E-02
3190	481363.09	3846877.25	0.00106	0.00324	0.00047	0.00061	7E-04	7E-04	0.0033	0.00324	0.0110598	0.005984039	4.893E-08	3.21E-05	3.19E-04	9.57E-05	2.32E-02	2.20E-02	1.87E-02
3191	481863.09	3846877.25	0.00104	0.00311	0.00044	0.00061	7E-04	7E-04	0.0032	0.00311	0.01085112	0.005743939	4.581E-08	3.21E-05	3.33E-04	9.57E-05	2.23E-02	2.11E-02	1.82E-02
3192	482363.09	3846877.25	0.00097	0.00287	0.00042	0.00059	7E-04	7E-04	0.0029	0.00287	0.01012076	0.005300677	4.372E-08	3.11E-05	3.38E-04	9.28E-05	2.06E-02	1.95E-02	1.70E-02
3193	482863.09	3846877.25	0.00097	0.00278	0.00041	0.00059	7E-04	7E-04	0.0028	0.00278	0.01012076	0.005134453	4.268E-08	3.11E-05	3.28E-04	9.28E-05	1.99E-02	1.89E-02	1.67E-02
3194	483363.09	3846877.25	0.00096	0.00269	0.00042	0.00059	7E-04	7E-04	0.0027	0.00269	0.01001642	0.00496823	4.372E-08	3.11E-05	3.33E-04	9.28E-05	1.93E-02	1.83E-02	1.64E-02
3195	483863.09	3846877.25	0.00097	0.00261	0.00042	0.0006	8E-04	7E-04	0.0027	0.00261	0.01012076	0.004820476	4.372E-08	3.16E-05	3.61E-04	9.28E-05	1.88E-02	1.77E-02	1.65E-02
3196	484363.09	3846877.25	0.00096	0.00257	0.00043	0.0006	8E-04	7E-04	0.0026	0.00257	0.01001642	0.004746599	4.477E-08	3.16E-05	3.85E-04	9.14E-05	1.85E-02	1.75E-02	1.63E-02
3197	484863.09	3846877.25	0.00096	0.00249	0.00044	0.00059	8E-04	6E-04	0.0025	0.00249	0.01001642	0.004598845	4.581E-08	3.11E-05	3.70E-04	8.86E-05	1.79E-02	1.69E-02	1.60E-02
3198	485363.09	3846877.25	0.00096	0.00246	0.00044	0.00059	7E-04	6E-04	0.0025	0.00246	0.01001642	0.004543437	4.581E-08	3.11E-05	3.47E-04	8.86E-05	1.76E-02	1.67E-02	1.59E-02
3199	485863.09	3846877.25	0.00093	0.00237	0.00043	0.00059	6E-04	6E-04	0.0024	0.00237	0.00970341	0.004377214	4.477E-08	3.11E-05	3.00E-04	8.72E-05	1.69E-02	1.61E-02	1.53E-02
3200	486363.09	3846877.25	0.00095	0.00238	0.00043	0.00059	6E-04	6E-04	0.0024	0.00238	0.00991208	0.004395683	4.477E-08	3.11E-05	2.86E-04	8.72E-05	1.70E-02	1.62E-02	1.55E-02
3201	486863.09	3846877.25	0.00092	0.0022	0.00042	0.00057	6E-04	6E-04	0.0022	0.0022	0.00959907	0.004063236	4.372E-08	3.00E-05	2.91E-04	8.58E-05	1.57E-02	1.50E-02	1.48E-02
3202	487363.09	3846877.25	0.00094	0.00219	0.00041	0.00056	6E-04	6E-04	0.0022	0.00219	0.00980774	0.004044767	4.268E-08	2.95E-05	3.00E-04	8.58E-05	1.57E-02	1.49E-02	1.50E-02
3203	487863.09	3846877.25	0.00094	0.00215	0.00041	0.00056	7E-04	6E-04	0.0022	0.00215	0.00980774	0.00397089	4.268E-08	2.95E-05	3.24E-04	8.58E-05	1.54E-02	1.46E-02	1.50E-02
3204	488363.09	3846877.25	0.00094	0.00209	0.0004	0.00055	7E-04	6E-04	0.0021	0.00209	0.00980774	0.003860075	4.164E-08	2.90E-05	3.42E-04	8.44E-05	1.50E-02	1.42E-02	1.49E-02
3205	488863.09	3846877.25	0.00095	0.00206	0.0004	0.00055	7E-04	6E-04	0.0021	0.00206	0.00991208	0.003804667	4.164E-08	2.90E-05	3.24E-04	8.58E-05	1.47E-02	1.40E-02	1.49E-02
3206	489363.09	3846877.25	0.00095	0.00203	0.00042	0.00055	6E-04	6E-04	0.0021	0.00203	0.00991208	0.003749259	4.372E-08	2.90E-05	3.00E-04	8.58E-05	1.45E-02	1.38E-02	1.48E-02
3207	489863.09	3846877.25	0.00094	0.00197	0.00042	0.00055	6E-04	6E-04	0.002	0.00197	0.00980774	0.003638444	4.372E-08	2.90E-05	3.00E-04	8.58E-05	1.41E-02	1.34E-02	1.46E-02
3208	490363.09	3846877.25	0.00092	0.00183	0.00042	0.00053	6E-04	6E-04	0.0018	0.00183	0.00959907	0.003379874	4.372E-08	2.79E-05	2.95E-04	8.44E-05	1.30E-02	1.24E-02	1.40E-02
3209	490863.09	3846877.25	0.00092	0.00177	0.00043	0.00053	7E-04	6E-04	0.0018	0.00177	0.00959907	0.003269058	4.477E-08	2.79E-05	3.09E-04	8.44E-05	1.26E-02	1.20E-02	1.39E-02
3210	491363.09	3846877.25	0.00093	0.00174	0.00044	0.00054	7E-04	6E-04	0.0018	0.00174	0.00970341	0.003213651	4.581E-08	2.84E-05	3.24E-04	8.58E-05	1.25E-02	1.18E-02	1.40E-02
3211	491863.09	3846877.25	0.00093	0.00168	0.00044	0.00054	7E-04	6E-04	0.0017	0.00168	0.00970341	0.003102835	4.581E-08	2.84E-05	3.14E-04	8.58E-05	1.20E-02	1.14E-02	1.39E-02
3212	492363.09	3846877.25	0.00099	0.00176	0.00046	0.00057	7E-04	6E-04	0.0018	0.00176	0.01032943	0.003250589	4.789E-08	3.00E-05	3.19E-04	9.00E-05	1.26E-02	1.20E-02	1.47E-02
3213	492863.09	3846877.25	0.00101	0.00175	0.00047	0.00057	7E-04	7E-04	0.0018	0.00175	0.01053811	0.00323212	4.893E-08	3.00E-05	3.19E-04	9.14E-05	1.25E-02	1.19E-02	1.49E-02
3214	493363.09	3846877.25	0.00103	0.00176	0.00049	0.00059	7E-04	7E-04	0.0018	0.00176	0.01074678	0.003250589	5.101E-08	3.11E-05	3.19E-04	9.28E-05	1.26E-02	1.20E-02	1.51E-02
3215	493863.09	3846877.25	0.00105	0.00176	0.00051	0.0006	7E-04	7E-04	0.0018	0.00176	0.01095546	0.003250589	5.309E-08	3.16E-05	3.24E-04	9.43E-05	1.26E-02	1.20E-02	1.53E-02
3216	494363.09	3846877.25	0.00107	0.00174	0.00052	0.00061	7E-04	7E-04	0.0018	0.00174	0.01116413	0.003213651	5.414E-08	3.21E-05	3.24E-04	9.71E-05	1.25E-02	1.18E-02	1.55E-02
3217	494863.09	3846877.25	0.00109	0.00174	0.00053	0.00063	7E-04	7E-04	0.0018	0.00174	0.01137281	0.003213651	5.518E-08	3.32E-05	3.28E-04	9.85E-05	1.25E-02	1.18E-02	1.57E-02
3218	495363.09	3846877.25	0.00112	0.00173	0.00054	0.00064	7E-04	7E-04	0.0018	0.00173	0.01168582	0.003195181	5.622E-08	3.37E-05	3.42E-04	1.01E-04	1.24E-02	1.18E-02	1.60E-02
3219	495863.09	3846877.25	0.00114	0.00172	0.00056	0.00065	8E-04	7E-04	0.0017	0.00172	0.0118945	0.003176712	5.83E-08	3.42E-05	3.66E-04	1.03E-04	1.23E-02	1.17E-02	1.62E-02
3220	496363.09	3846877.25	0.00117	0.00172	0.00059	0.00066	8E-04	8E-04	0.0017	0.00172	0.01220751	0.003176712	6.142E-08	3.48E-05	3.94E-04	1.06E-04	1.23E-02	1.17E-02	1.66E-02
3221	496863.09	3846877.25	0.0012	0.00172	0.00061	0.00068	9E-04	8E-04	0.0018	0.00172	0.01252052	0.003176712	6.35E-08	3.58E-05	4.08E-04	1.10E-04	1.24E-02	1.17E-02	1.70E-02
3222	497363.09	3846877.25	0.00125	0.00174	0.00063	0.0007	9E-04	8E-04	0.0018	0.00174	0.01304221	0.003213651	6.559E-08	3.69E-05	4.31E-04	1.14E-04	1.25E-02	1.18E-02	1.75E-02
3223	497863.09	3846877.25	0.0013	0.00174	0.00065	0.00072	1E-03	8E-04	0.0018	0.00174	0.0135639	0.003213651	6.767E-08	3.79E-05	4.50E-04	1.18E-04	1.25E-02	1.18E-02	1.81E-02
3224	498363.09	3846877.25	0.00132	0.00172	0.00068	0.00073	1E-03	9E-04	0.0017	0.00172	0.01377258	0.003176712	7.079E-08	3.85E-05	4.50E-04	1.20E-04	1.23E-02	1.17E-02	1.82E-02
3225	471363.09	3847377.25	0.00109	0.00543	0.00053	0.00074	9E-04	8E-04	0.0055	0.00543	0.01137281	0.010028806	5.518E-08	3.90E-05	4.31E-04	1.10E-04	3.88E-02	3.69E-02	2.39E-02
3226	471863.09	3847377.25	0.0011	0.00741	0.00051	0.00075	9E-04	8E-04	0.0075	0.00741	0.01147715	0.013685719	5.309E-08	3.95E-05	4.36E-04	1.11E-04	5.30E-02	5.04E-02	2.84E-02
3227	472363.09	3847377.25	0.0011	0.01276	0.00048	0.00074	1E-03	8E-04	0.0129	0.01276	0.01147715	0.023566772	4.997E-08	3.90E-05	4.45E-04	1.11E-04	9.13E-02	8.68E-02	4.02E-02
3228	472863.09	3847377.25	0.00112	0.05719	0.00044	0.00073	9E-04	8E-04	0.0576	0.05719	0.01168582	0.105625679	4.581E-08	3.85E-05	4.41E-04	1.11E-04	4.08E-01	3.89E-01	1.37E-01
3229	473363.09	3847377.25	0.00112	0.05263	0.00043	0.00068	9E-04	8E-04	0.0531	0.05263	0.01168582	0.097203698	4.477E-08	3.58E-05	4.08E-04	1.07E-04	3.76E-01	3.58E-01	1.28E-01
3230	473863.09	3847377.25	0.00113	0.02475	0.00045	0.00066	8E-04	8E-04	0.025	0.02475	0.01179016	0.04571141	4.685E-08	3.48E-05	3.89E-04	1.06E-04	1.77E-01	1.68E-01	6.66E-02
3231	474363.09	3847377.25	0.00116	0.01815	0.00049	0.00068	8E-04	8E-04	0.0183	0.01815	0.01210317	0.033521701	5.101E-08	3.58E-05	3.89E-04	1.06E-04	1.30E-01	1.23E-01	5.24E-02
3232	474863.09	3847377.25	0.00114	0.01342	0.00048	0.0007	9E-04	7E-04	0.0136	0.01342	0.0118945	0.024785743	4.997E-08	3.69E-05	3.99E-04	1.04E-04	9.60E-02	9.13E-02	4.20E-02
3233	475363.09	3847377.25	0.0011	0.01067	0.00046	0.00074	9E-04	7E-04	0.0108	0.01067	0.01147715	0.019706697	4.789E-08	3.90E-05	4.22E-04	1.04E-04	7.66E-02	7.26E-02	3.58E-02
3234	475863.09	3847377.25	0.00108	0.0098	0.00045	0.00075	1E-03	7E-04	0.0099	0.0098	0.01126847	0.018099872	4.685E-08	3.95E-05	4.55E-04	1.04E-04	7.04E-02	6.66E-02	3.37E-02
3235	476363.09	3847377.25	0.00109	0.00897	0.00044	0.00072	1E-03	8E-04	0.0091	0.00897	0.01137281	0.016566923	4.581E-08	3.79E-05	4.50E-04	1.07E-04	6.42E-02	6.10E-02	3.17E-02
3236	476863.09	3847377.25	0.0011	0.00785	0.00043	0.00067	9E-04	8E-04	0.0079	0.00785	0.01147715	0.014498367	4.477E-08	3.53E-05	4.17E-04	1.07E-04	5.60E-02	5.34E-02	2.91E-02
3237	477363.09	3847377.25	0.00113	0.0071	0.00043	0.00066	8E-04	7E-04	0.0072	0.0071	0.01179016	0.013113172	4.477E-08	3.48E-05	3.80E-04	1.04E-04	5.07E-02	4.83E-02	2.79E-02
3238	477863.09	3847377.25	0.00111	0.00641	0.00043	0.00068	8E-04	7E-04	0.0065	0.00641	0.01158148	0.011838794	4.477E-08	3.58E-05	3.52E-04	1.04E-04	4.60E-02	4.36E-02	2.63E-02
3239	478363.09	3847377.25	0.00109	0.00587	0.00043	0.00069	8E-04	7E-04	0.006	0.00587	0.01137281	0.010841454	4.477E-08	3.63E-05	3.56E-04	1.03E-04	4.23E-02	3.99E-02	2.51E-02
3240	478863.09	3847377.25	0.0011	0.00552	0.00044	0.0007	9E-04	7E-04	0.0056	0.00552	0.01147715	0.01019503	4.581E-08	3.69E-05	4.17E-04	1.03E-04	3.96E-02	3.75E-02	2.43E-02
3241	479363.09	3847377.25	0.00106	0.0049	0.00043	0.00065	1E-03	7E-04	0.0049	0.0049	0.0110598	0.009049936	4.477E-08	3.42E-05	4.45E-04	9.85E-05	3.50E-02	3.33E-02	2.24E-02
3242	479863.09	3847377.25	0.00102	0.0042	0.00043	0.00062	8E-04	7E-04	0.0042	0.0042	0.01064244	0.007757088	4.477E-08	3.27E-05	3.70E-04	9.57E-05	3.00E-02	2.86E-02	2.04E-02
3243	480363.09	3847377.25	0.00099	0.00354	0.00043	0.00059	7E-04	7E-04	0.0036	0.00354	0.01032943	0.006538117	4.477E-08	3.11E-05	3.38E-04	9.43E-05	2.53E-02	2.41E-02	1.86E-02
3244	480863.09	3847377.25	0.00099	0.00328	0.00045	0.00059	7E-04	7E-04	0.0033	0.00328	0.01032943	0.006057916	4.685E-08	3.11E-05	3.28E-04	9.43E-05	2.35E-02	2.23E-02	1.80E-02

3245	481363.09	3847377.25	0.00106	0.00333	0.00047	0.00061	7E-04	7E-04	0.0034	0.00333	0.0110598	0.006150262	4.893E-08	3.21E-05	3.28E-04	9.71E-05	2.38E-02	2.26E-02	1.88E-02
3246	481863.09	3847377.25	0.00116	0.00352	0.00047	0.00065	7E-04	7E-04	0.0036	0.00352	0.01210317	0.006501178	4.893E-08	3.42E-05	3.42E-04	9.99E-05	2.53E-02	2.39E-02	2.04E-02
3247	482363.09	3847377.25	0.00115	0.00338	0.00046	0.00064	8E-04	7E-04	0.0034	0.00338	0.01199883	0.006242609	4.789E-08	3.37E-05	3.56E-04	9.99E-05	2.42E-02	2.30E-02	2.00E-02
3248	482863.09	3847377.25	0.00113	0.00321	0.00045	0.00063	8E-04	7E-04	0.0033	0.00321	0.01179016	0.005928631	4.685E-08	3.32E-05	3.56E-04	9.99E-05	2.30E-02	2.18E-02	1.94E-02
3249	483363.09	3847377.25	0.00109	0.00305	0.00044	0.00063	7E-04	7E-04	0.0031	0.00305	0.01137281	0.005633123	4.581E-08	3.32E-05	3.42E-04	9.85E-05	2.19E-02	2.07E-02	1.86E-02
3250	483863.09	3847377.25	0.0011	0.00296	0.00045	0.00063	8E-04	7E-04	0.003	0.00296	0.01147715	0.0054669	4.685E-08	3.32E-05	3.66E-04	9.85E-05	2.13E-02	2.01E-02	1.86E-02
3251	484363.09	3847377.25	0.00111	0.00295	0.00046	0.00064	9E-04	7E-04	0.003	0.00295	0.01158148	0.005448431	4.789E-08	3.37E-05	4.03E-04	9.85E-05	2.12E-02	2.01E-02	1.87E-02
3252	484863.09	3847377.25	0.0011	0.00285	0.00048	0.00064	9E-04	7E-04	0.0029	0.00285	0.01147715	0.005263738	4.997E-08	3.37E-05	4.13E-04	9.71E-05	2.04E-02	1.94E-02	1.83E-02
3253	485363.09	3847377.25	0.00109	0.00277	0.00047	0.00063	9E-04	7E-04	0.0028	0.00277	0.01137281	0.005115984	4.893E-08	3.32E-05	3.99E-04	9.57E-05	1.98E-02	1.88E-02	1.80E-02
3254	485863.09	3847377.25	0.00108	0.00273	0.00047	0.00064	7E-04	7E-04	0.0028	0.00273	0.01126847	0.005042107	4.893E-08	3.37E-05	3.47E-04	9.43E-05	1.96E-02	1.86E-02	1.78E-02
3255	486363.09	3847377.25	0.00108	0.00269	0.00047	0.00064	7E-04	7E-04	0.0027	0.00269	0.01126847	0.00496823	4.893E-08	3.37E-05	3.09E-04	9.43E-05	1.93E-02	1.83E-02	1.77E-02
3256	486863.09	3847377.25	0.00106	0.00252	0.00045	0.00061	7E-04	7E-04	0.0025	0.00252	0.0110598	0.004654253	4.685E-08	3.21E-05	3.09E-04	9.28E-05	1.80E-02	1.71E-02	1.70E-02
3257	487363.09	3847377.25	0.00107	0.00248	0.00045	0.00061	7E-04	7E-04	0.0025	0.00248	0.01116413	0.004580376	4.685E-08	3.21E-05	3.24E-04	9.28E-05	1.78E-02	1.69E-02	1.71E-02
3258	487863.09	3847377.25	0.00104	0.00237	0.00044	0.0006	7E-04	7E-04	0.0024	0.00237	0.01085112	0.004377214	4.581E-08	3.16E-05	3.42E-04	9.14E-05	1.69E-02	1.61E-02	1.65E-02
3259	488363.09	3847377.25	0.00105	0.0023	0.00043	0.00059	8E-04	7E-04	0.0023	0.0023	0.01095546	0.004247929	4.477E-08	3.11E-05	3.61E-04	9.14E-05	1.65E-02	1.56E-02	1.66E-02
3260	488863.09	3847377.25	0.00105	0.00226	0.00044	0.0006	7E-04	7E-04	0.0023	0.00226	0.01095546	0.004174052	4.581E-08	3.16E-05	3.38E-04	9.14E-05	1.62E-02	1.54E-02	1.64E-02
3261	489363.09	3847377.25	0.00106	0.00221	0.00045	0.0006	7E-04	7E-04	0.0022	0.00221	0.0110598	0.004081706	4.685E-08	3.16E-05	3.19E-04	9.28E-05	1.59E-02	1.50E-02	1.64E-02
3262	489863.09	3847377.25	0.00104	0.00211	0.00046	0.00059	7E-04	7E-04	0.0021	0.00211	0.01085112	0.003897013	4.789E-08	3.11E-05	3.14E-04	9.14E-05	1.51E-02	1.43E-02	1.59E-02
3263	490363.09	3847377.25	0.00103	0.00202	0.00047	0.00058	7E-04	7E-04	0.002	0.00202	0.01074678	0.00373079	4.893E-08	3.06E-05	3.24E-04	9.14E-05	1.45E-02	1.37E-02	1.56E-02
3264	490863.09	3847377.25	0.00104	0.00198	0.00048	0.00059	7E-04	7E-04	0.002	0.00198	0.01085112	0.003656913	4.997E-08	3.11E-05	3.42E-04	9.28E-05	1.42E-02	1.35E-02	1.57E-02
3265	491363.09	3847377.25	0.00105	0.00192	0.00048	0.00059	7E-04	7E-04	0.0019	0.00192	0.01095546	0.003546097	4.997E-08	3.11E-05	3.47E-04	9.43E-05	1.37E-02	1.31E-02	1.57E-02
3266	491863.09	3847377.25	0.00108	0.00194	0.00049	0.00061	7E-04	7E-04	0.002	0.00194	0.01126847	0.003583036	5.101E-08	3.21E-05	3.38E-04	9.71E-05	1.40E-02	1.32E-02	1.61E-02
3267	492363.09	3847377.25	0.00109	0.00189	0.0005	0.00062	7E-04	7E-04	0.0019	0.00189	0.01137281	0.00349069	5.205E-08	3.27E-05	3.33E-04	9.71E-05	1.35E-02	1.29E-02	1.60E-02
3268	492863.09	3847377.25	0.00111	0.00189	0.00052	0.00063	7E-04	7E-04	0.0019	0.00189	0.01158148	0.00349069	5.414E-08	3.32E-05	3.38E-04	9.99E-05	1.35E-02	1.29E-02	1.62E-02
3269	493363.09	3847377.25	0.00113	0.00187	0.00054	0.00064	7E-04	7E-04	0.0019	0.00187	0.01179016	0.003453751	5.622E-08	3.37E-05	3.38E-04	1.01E-04	1.34E-02	1.27E-02	1.64E-02
3270	493863.09	3847377.25	0.00114	0.00183	0.00056	0.00065	7E-04	7E-04	0.0019	0.00183	0.0118945	0.003379874	5.83E-08	3.42E-05	3.38E-04	1.03E-04	1.31E-02	1.24E-02	1.64E-02
3271	494363.09	3847377.25	0.00115	0.00179	0.00056	0.00066	7E-04	7E-04	0.0018	0.00179	0.01199883	0.003305997	5.83E-08	3.48E-05	3.42E-04	1.04E-04	1.28E-02	1.22E-02	1.64E-02
3272	494863.09	3847377.25	0.00117	0.00177	0.00058	0.00067	8E-04	8E-04	0.0018	0.00177	0.01220751	0.003269058	6.038E-08	3.53E-05	3.52E-04	1.06E-04	1.27E-02	1.20E-02	1.66E-02
3273	495363.09	3847377.25	0.0012	0.00175	0.0006	0.00068	8E-04	8E-04	0.0018	0.00175	0.01252052	0.00323212	6.246E-08	3.58E-05	3.75E-04	1.08E-04	1.25E-02	1.19E-02	1.69E-02
3274	495863.09	3847377.25	0.00122	0.00174	0.00062	0.00069	8E-04	8E-04	0.0018	0.00174	0.0127292	0.003213651	6.455E-08	3.63E-05	3.94E-04	1.11E-04	1.25E-02	1.18E-02	1.72E-02
3275	496363.09	3847377.25	0.00125	0.00173	0.00064	0.00071	9E-04	8E-04	0.0018	0.00173	0.01304221	0.003195181	6.663E-08	3.74E-05	4.13E-04	1.14E-04	1.24E-02	1.18E-02	1.74E-02
3276	496863.09	3847377.25	0.00129	0.00174	0.00067	0.00073	9E-04	8E-04	0.0018	0.00174	0.01345956	0.003213651	6.975E-08	3.85E-05	4.41E-04	1.18E-04	1.25E-02	1.18E-02	1.80E-02
3277	497363.09	3847377.25	0.00135	0.00177	0.0007	0.00076	1E-03	9E-04	0.0018	0.00177	0.01408559	0.003269058	7.287E-08	4.00E-05	4.64E-04	1.24E-04	1.27E-02	1.20E-02	1.86E-02
3278	497863.09	3847377.25	0.00142	0.0018	0.00073	0.00079	0.001	9E-04	0.0018	0.0018	0.01481595	0.003324466	7.6E-08	4.16E-05	4.83E-04	1.29E-04	1.30E-02	1.22E-02	1.95E-02
3279	498363.09	3847377.25	0.00146	0.00179	0.00076	0.00081	0.001	9E-04	0.0018	0.00179	0.0152333	0.003305997	7.912E-08	4.27E-05	4.78E-04	1.32E-04	1.29E-02	1.22E-02	1.99E-02
3280	471363.09	3847877.25	0.00117	0.00428	0.00055	0.00075	1E-03	8E-04	0.0043	0.00428	0.01220751	0.007904842	5.726E-08	3.95E-05	4.50E-04	1.15E-04	3.05E-02	2.91E-02	2.22E-02
3281	471863.09	3847877.25	0.00119	0.00519	0.00057	0.00077	1E-03	8E-04	0.0052	0.00519	0.01241619	0.009585544	5.934E-08	4.06E-05	4.55E-04	1.17E-04	3.71E-02	3.53E-02	2.44E-02
3282	472363.09	3847877.25	0.00121	0.0068	0.00056	0.00079	1E-03	8E-04	0.0069	0.0068	0.01262486	0.012559095	5.83E-08	4.16E-05	4.60E-04	1.18E-04	4.86E-02	4.62E-02	2.82E-02
3283	472863.09	3847877.25	0.00125	0.01008	0.00053	0.0008	0.001	8E-04	0.0102	0.01008	0.01304221	0.018617011	5.518E-08	4.21E-05	4.69E-04	1.18E-04	7.21E-02	6.85E-02	3.59E-02
3284	473363.09	3847877.25	0.0013	0.01996	0.00049	0.00079	0.001	8E-04	0.0201	0.01996	0.0135639	0.036864636	5.101E-08	4.16E-05	4.69E-04	1.18E-04	1.42E-01	1.36E-01	5.76E-02
3285	473863.09	3847877.25	0.00137	0.35303	0.00047	0.00076	1E-03	8E-04	0.3501	0.35303	0.01429426	0.65202017	4.893E-08	4.00E-05	4.55E-04	1.18E-04	2.48E+00	2.40E+00	7.47E-01
3286	474363.09	3847877.25	0.00139	0.03796	0.00048	0.00071	9E-04	8E-04	0.0384	0.03796	0.01450294	0.070109299	4.997E-08	3.74E-05	4.22E-04	1.14E-04	2.72E-01	2.58E-01	9.91E-02
3287	474863.09	3847877.25	0.00139	0.02304	0.00052	0.00072	9E-04	8E-04	0.0232	0.02304	0.01450294	0.042553167	5.414E-08	3.79E-05	4.13E-04	1.13E-04	1.65E-01	1.57E-01	6.55E-02
3288	475363.09	3847877.25	0.0013	0.01546	0.00052	0.00073	9E-04	8E-04	0.0156	0.01546	0.0135639	0.028553471	5.414E-08	3.85E-05	4.17E-04	1.10E-04	1.10E-01	1.05E-01	4.79E-02
3289	475863.09	3847877.25	0.00123	0.01187	0.00049	0.00078	9E-04	8E-04	0.012	0.01187	0.01283354	0.021923008	5.101E-08	4.11E-05	4.41E-04	1.10E-04	8.51E-02	8.07E-02	3.97E-02
3290	476363.09	3847877.25	0.00124	0.01131	0.00048	0.00082	0.001	8E-04	0.0115	0.01131	0.01293787	0.020888729	4.997E-08	4.32E-05	4.78E-04	1.13E-04	8.11E-02	7.69E-02	3.87E-02
3291	476863.09	3847877.25	0.00124	0.00989	0.00047	0.00077	0.001	8E-04	0.01	0.00989	0.01293787	0.018266095	4.893E-08	4.06E-05	4.83E-04	1.15E-04	7.08E-02	6.73E-02	3.54E-02
3292	477363.09	3847877.25	0.00126	0.00877	0.00046	0.00072	1E-03	8E-04	0.0088	0.00877	0.01314655	0.016197538	4.789E-08	3.79E-05	4.45E-04	1.15E-04	6.24E-02	5.96E-02	3.27E-02
3293	477863.09	3847877.25	0.00128	0.00793	0.00046	0.00071	9E-04	8E-04	0.008	0.00793	0.01335522	0.014646121	4.789E-08	3.74E-05	4.03E-04	1.11E-04	5.66E-02	5.39E-02	3.12E-02
3294	478363.09	3847877.25	0.00127	0.00718	0.00046	0.00073	8E-04	8E-04	0.0073	0.00718	0.01325089	0.013260926	4.789E-08	3.85E-05	3.75E-04	1.10E-04	5.15E-02	4.88E-02	2.97E-02
3295	478863.09	3847877.25	0.00127	0.0066	0.00046	0.00074	8E-04	8E-04	0.0067	0.0066	0.01325089	0.012189709	4.789E-08	3.90E-05	3.85E-04	1.10E-04	4.75E-02	4.49E-02	2.86E-02
3296	479363.09	3847877.25	0.00119	0.00554	0.00045	0.00069	9E-04	7E-04	0.0056	0.00554	0.01241619	0.010231968	4.685E-08	3.63E-05	4.22E-04	1.04E-04	3.97E-02	3.77E-02	2.52E-02
3297	479863.09	3847877.25	0.00108	0.0043	0.00044	0.00063	8E-04	7E-04	0.0043	0.0043	0.01126847	0.00794178	4.581E-08	3.32E-05	3.94E-04	9.71E-05	3.08E-02	2.92E-02	2.12E-02
3298	480363.09	3847877.25	0.00113	0.00423	0.00045	0.00064	8E-04	7E-04	0.0043	0.00423	0.01179016	0.007812496	4.685E-08	3.37E-05	3.70E-04	9.85E-05	3.03E-02	2.88E-02	2.16E-02
3299	480863.09	3847877.25	0.00115	0.0039	0.00047	0.00063	8E-04	7E-04	0.0039	0.0039	0.01199883	0.00720301	4.893E-08	3.32E-05	3.52E-04	9.99E-05	2.78E-02	2.65E-02	2.09E-02
3300	481363.09	3847877.25	0.00119	0.00379	0.0005	0.00064	7E-04	7E-04	0.0038	0.00379	0.01241619	0.006999848	5.205E-08	3.37E-05	3.47E-04	1.03E-04	2.70E-02	2.58E-02	2.11E-02
3301	481863.09	3847877.25	0.00136	0.00412	0.00051	0.0007	8E-04	8E-04	0.0042	0.00412	0.01418993	0.007609334	5.309E-08	3.69E-05	3.56E-04	1.08E-04	2.96E-02	2.80E-02	2.39E-02
3302	482363.09	3847877.25	0.00132	0.0039	0.0005	0.00069	8E-04	8E-04	0.004	0.0039	0.01377258	0.00720301	5.205E-08	3.63E-05	3.75E-04	1.07E-04	2.80E-02	2.65E-02	2.30E-02

3303	482863.09	3847877.25	0.00128	0.00365	0.00048	0.00068	8E-04	8E-04	0.0037	0.00365	0.01335522	0.006741279	4.997E-08	3.58E-05	3.80E-04	1.06E-04	2.61E-02	2.48E-02	2.19E-02
3304	483363.09	3847877.25	0.00128	0.00347	0.00047	0.00067	8E-04	8E-04	0.0035	0.00347	0.01335522	0.006408832	4.893E-08	3.53E-05	3.70E-04	1.06E-04	2.49E-02	2.36E-02	2.15E-02
3305	483863.09	3847877.25	0.00129	0.00336	0.00049	0.00068	8E-04	8E-04	0.0034	0.00336	0.01345956	0.00620567	5.101E-08	3.58E-05	3.75E-04	1.06E-04	2.42E-02	2.28E-02	2.15E-02
3306	484363.09	3847877.25	0.00131	0.00333	0.0005	0.00068	9E-04	8E-04	0.0034	0.00333	0.01366824	0.006150262	5.205E-08	3.58E-05	4.17E-04	1.06E-04	2.39E-02	2.26E-02	2.16E-02
3307	484863.09	3847877.25	0.00129	0.00322	0.00051	0.00068	9E-04	8E-04	0.0033	0.00322	0.01345956	0.005947101	5.309E-08	3.58E-05	4.41E-04	1.06E-04	2.31E-02	2.19E-02	2.12E-02
3308	485363.09	3847877.25	0.00128	0.00316	0.0005	0.00069	9E-04	7E-04	0.0032	0.00316	0.01335522	0.005836285	5.205E-08	3.63E-05	4.41E-04	1.03E-04	2.27E-02	2.15E-02	2.10E-02
3309	485863.09	3847877.25	0.00127	0.00311	0.0005	0.00069	9E-04	7E-04	0.0031	0.00311	0.01325089	0.005743939	5.205E-08	3.63E-05	3.99E-04	1.03E-04	2.22E-02	2.11E-02	2.06E-02
3310	486363.09	3847877.25	0.00122	0.00296	0.0005	0.00068	7E-04	7E-04	0.003	0.00296	0.0127292	0.0054669	5.205E-08	3.58E-05	3.38E-04	9.99E-05	2.12E-02	2.01E-02	1.97E-02
3311	486863.09	3847877.25	0.0012	0.00283	0.0005	0.00067	7E-04	7E-04	0.0029	0.00283	0.01252052	0.0052268	5.205E-08	3.53E-05	3.28E-04	9.85E-05	2.03E-02	1.92E-02	1.92E-02
3312	487363.09	3847877.25	0.00119	0.00273	0.00049	0.00065	7E-04	7E-04	0.0028	0.00273	0.01241619	0.005042107	5.101E-08	3.42E-05	3.42E-04	9.85E-05	1.96E-02	1.86E-02	1.89E-02
3313	487863.09	3847877.25	0.00118	0.0026	0.00047	0.00064	8E-04	7E-04	0.0026	0.0026	0.01231185	0.004802007	4.893E-08	3.37E-05	3.61E-04	9.85E-05	1.86E-02	1.77E-02	1.86E-02
3314	488363.09	3847877.25	0.00118	0.00252	0.00047	0.00064	8E-04	7E-04	0.0026	0.00252	0.01231185	0.004654253	4.893E-08	3.37E-05	3.80E-04	9.99E-05	1.81E-02	1.71E-02	1.84E-02
3315	488863.09	3847877.25	0.00118	0.00246	0.00048	0.00065	8E-04	7E-04	0.0025	0.00246	0.01231185	0.004543437	4.997E-08	3.42E-05	3.61E-04	9.99E-05	1.76E-02	1.67E-02	1.83E-02
3316	489363.09	3847877.25	0.00118	0.00241	0.0005	0.00065	7E-04	7E-04	0.0024	0.00241	0.01231185	0.004451091	5.205E-08	3.42E-05	3.38E-04	1.01E-04	1.73E-02	1.64E-02	1.81E-02
3317	489863.09	3847877.25	0.00122	0.00239	0.00052	0.00067	8E-04	7E-04	0.0024	0.00239	0.0127292	0.004414152	5.414E-08	3.53E-05	3.56E-04	1.03E-04	1.71E-02	1.63E-02	1.85E-02
3318	490363.09	3847877.25	0.00121	0.00233	0.00053	0.00066	8E-04	7E-04	0.0024	0.00233	0.01262486	0.004303337	5.518E-08	3.48E-05	3.70E-04	1.04E-04	1.67E-02	1.58E-02	1.83E-02
3319	490863.09	3847877.25	0.00121	0.00224	0.00053	0.00066	8E-04	7E-04	0.0023	0.00224	0.01262486	0.004137114	5.518E-08	3.48E-05	3.94E-04	1.04E-04	1.61E-02	1.52E-02	1.81E-02
3320	491363.09	3847877.25	0.00119	0.00213	0.00052	0.00066	8E-04	7E-04	0.0022	0.00213	0.01241619	0.003933952	5.414E-08	3.48E-05	3.70E-04	1.04E-04	1.52E-02	1.45E-02	1.76E-02
3321	491863.09	3847877.25	0.0012	0.00208	0.00053	0.00067	8E-04	8E-04	0.0021	0.00208	0.01252052	0.003841605	5.518E-08	3.53E-05	3.56E-04	1.06E-04	1.49E-02	1.41E-02	1.76E-02
3322	492363.09	3847877.25	0.00122	0.00205	0.00056	0.00068	8E-04	8E-04	0.0021	0.00205	0.0127292	0.003786198	5.83E-08	3.58E-05	3.61E-04	1.07E-04	1.47E-02	1.39E-02	1.77E-02
3323	492863.09	3847877.25	0.00123	0.002	0.00058	0.00069	8E-04	8E-04	0.002	0.002	0.01283354	0.003693851	6.038E-08	3.63E-05	3.66E-04	1.08E-04	1.44E-02	1.36E-02	1.78E-02
3324	493363.09	3847877.25	0.00122	0.00191	0.0006	0.00069	8E-04	8E-04	0.0019	0.00191	0.0127292	0.003527628	6.246E-08	3.63E-05	3.56E-04	1.08E-04	1.37E-02	1.30E-02	1.75E-02
3325	493863.09	3847877.25	0.00122	0.00185	0.0006	0.00069	8E-04	8E-04	0.0019	0.00185	0.0127292	0.003416812	6.246E-08	3.63E-05	3.56E-04	1.10E-04	1.33E-02	1.26E-02	1.74E-02
3326	494363.09	3847877.25	0.00123	0.00181	0.00062	0.0007	8E-04	8E-04	0.0018	0.00181	0.01283354	0.003342935	6.455E-08	3.69E-05	3.66E-04	1.11E-04	1.30E-02	1.23E-02	1.74E-02
3327	494863.09	3847877.25	0.00126	0.00179	0.00064	0.00072	8E-04	8E-04	0.0018	0.00179	0.01314655	0.003305997	6.663E-08	3.79E-05	3.89E-04	1.14E-04	1.28E-02	1.22E-02	1.76E-02
3328	495363.09	3847877.25	0.00128	0.00175	0.00066	0.00073	9E-04	8E-04	0.0018	0.00175	0.01335522	0.00323212	6.871E-08	3.85E-05	4.08E-04	1.17E-04	1.25E-02	1.19E-02	1.78E-02
3329	495863.09	3847877.25	0.00126	0.00163	0.00066	0.00073	9E-04	8E-04	0.0017	0.00163	0.01314655	0.003010489	6.871E-08	3.85E-05	4.13E-04	1.17E-04	1.18E-02	1.11E-02	1.74E-02
3330	496363.09	3847877.25	0.00135	0.00173	0.00071	0.00077	9E-04	9E-04	0.0018	0.00173	0.01408559	0.003195181	7.392E-08	4.06E-05	4.41E-04	1.24E-04	1.25E-02	1.18E-02	1.86E-02
3331	496863.09	3847877.25	0.00139	0.00174	0.00075	0.00079	0.001	9E-04	0.0018	0.00174	0.01450294	0.003213651	7.808E-08	4.16E-05	4.69E-04	1.28E-04	1.25E-02	1.18E-02	1.91E-02
3332	497363.09	3847877.25	0.00145	0.00177	0.00078	0.00082	0.001	1E-03	0.0018	0.00177	0.01512897	0.003269058	8.12E-08	4.32E-05	4.88E-04	1.34E-04	1.28E-02	1.20E-02	1.98E-02
3333	497863.09	3847877.25	0.00156	0.00185	0.00082	0.00086	0.001	0.001	0.0019	0.00185	0.01627668	0.003416812	8.537E-08	4.53E-05	5.02E-04	1.41E-04	1.34E-02	1.26E-02	2.12E-02
3334	498363.09	3847877.25	0.00161	0.00186	0.00085	0.0009	0.001	0.001	0.0019	0.00186	0.01679837	0.003435282	8.849E-08	4.74E-05	5.02E-04	1.45E-04	1.34E-02	1.26E-02	2.17E-02
3335	471363.09	3848377.25	0.00124	0.00365	0.00058	0.00076	1E-03	9E-04	0.0037	0.00365	0.01293787	0.006741279	6.038E-08	4.00E-05	4.50E-04	1.20E-04	2.60E-02	2.48E-02	2.15E-02
3336	471863.09	3848377.25	0.00128	0.00422	0.00059	0.00078	0.001	9E-04	0.0043	0.00422	0.01335522	0.007794026	6.142E-08	4.11E-05	4.74E-04	1.21E-04	3.01E-02	2.87E-02	2.32E-02
3337	472363.09	3848377.25	0.00132	0.00503	0.0006	0.0008	0.001	9E-04	0.0051	0.00503	0.01377258	0.009290036	6.246E-08	4.21E-05	4.83E-04	1.22E-04	3.59E-02	3.42E-02	2.54E-02
3338	472863.09	3848377.25	0.00137	0.00628	0.00061	0.00083	0.001	9E-04	0.0063	0.00628	0.01429426	0.011598693	6.35E-08	4.37E-05	4.88E-04	1.24E-04	4.49E-02	4.27E-02	2.87E-02
3339	473363.09	3848377.25	0.00147	0.00846	0.00058	0.00085	0.001	9E-04	0.0086	0.00846	0.01533764	0.015624991	6.038E-08	4.48E-05	4.92E-04	1.25E-04	6.06E-02	5.75E-02	3.47E-02
3340	473863.09	3848377.25	0.0017	0.01375	0.00054	0.00084	0.001	9E-04	0.0139	0.01375	0.01773741	0.025395228	5.622E-08	4.42E-05	5.02E-04	1.27E-04	9.83E-02	9.35E-02	4.87E-02
3341	474363.09	3848377.25	0.00385	0.06099	0.00051	0.00083	0.001	9E-04	0.0614	0.06099	0.04017001	0.112643997	5.309E-08	4.37E-05	4.97E-04	1.27E-04	4.35E-01	4.15E-01	1.74E-01
3342	474863.09	3848377.25	0.00208	0.04912	0.00051	0.00078	1E-03	9E-04	0.0495	0.04912	0.02170224	0.090720989	5.309E-08	4.11E-05	4.64E-04	1.22E-04	3.51E-01	3.34E-01	1.30E-01
3343	475363.09	3848377.25	0.00175	0.02754	0.00056	0.00077	1E-03	9E-04	0.0277	0.02754	0.0182591	0.050864333	5.83E-08	4.06E-05	4.45E-04	1.22E-04	1.96E-01	1.87E-01	7.89E-02
3344	475863.09	3848377.25	0.00158	0.01776	0.00056	0.00077	9E-04	8E-04	0.0179	0.01776	0.01648536	0.0328014	5.83E-08	4.06E-05	4.41E-04	1.17E-04	1.27E-01	1.21E-01	5.59E-02
3345	476363.09	3848377.25	0.00148	0.01332	0.00052	0.00081	1E-03	8E-04	0.0135	0.01332	0.01544198	0.02460105	5.414E-08	4.27E-05	4.60E-04	1.17E-04	9.54E-02	9.06E-02	4.55E-02
3346	476863.09	3848377.25	0.00153	0.01295	0.00052	0.00088	0.001	9E-04	0.0131	0.01295	0.01596367	0.023917687	5.414E-08	4.64E-05	5.02E-04	1.21E-04	9.29E-02	8.81E-02	4.54E-02
3347	477363.09	3848377.25	0.00151	0.01138	0.0005	0.00083	0.001	9E-04	0.0115	0.01138	0.01575499	0.021018014	5.205E-08	4.37E-05	5.11E-04	1.24E-04	8.15E-02	7.74E-02	4.16E-02
3348	477863.09	3848377.25	0.0015	0.01027	0.00049	0.00077	0.001	9E-04	0.0103	0.01027	0.01565065	0.018967927	5.101E-08	4.06E-05	4.78E-04	1.22E-04	7.31E-02	6.98E-02	3.85E-02
3349	478363.09	3848377.25	0.00152	0.00923	0.00049	0.00077	9E-04	8E-04	0.0093	0.00923	0.01585933	0.017047124	5.101E-08	4.06E-05	4.31E-04	1.18E-04	6.60E-02	6.28E-02	3.67E-02
3350	478863.09	3848377.25	0.00151	0.00816	0.00048	0.00077	9E-04	8E-04	0.0083	0.00816	0.01575499	0.015070913	4.997E-08	4.06E-05	3.99E-04	1.15E-04	5.86E-02	5.55E-02	3.45E-02
3351	479363.09	3848377.25	0.00142	0.00678	0.00048	0.00075	9E-04	8E-04	0.0069	0.00678	0.01481595	0.012522156	4.997E-08	3.95E-05	3.99E-04	1.11E-04	4.87E-02	4.61E-02	3.05E-02
3352	479863.09	3848377.25	0.00117	0.00425	0.00046	0.00063	8E-04	7E-04	0.0043	0.00425	0.01220751	0.007849434	4.789E-08	3.32E-05	3.75E-04	9.85E-05	3.04E-02	2.89E-02	2.21E-02
3353	480363.09	3848377.25	0.00127	0.00476	0.00047	0.00067	9E-04	7E-04	0.0048	0.00476	0.01325089	0.008791366	4.893E-08	3.53E-05	4.08E-04	1.04E-04	3.40E-02	3.24E-02	2.42E-02
3354	480863.09	3848377.25	0.00143	0.0052	0.0005	0.00071	9E-04	8E-04	0.0052	0.0052	0.01492029	0.009604013	5.205E-08	3.74E-05	3.99E-04	1.10E-04	3.71E-02	3.54E-02	2.68E-02
3355	481363.09	3848377.25	0.00154	0.00497	0.00054	0.00072	8E-04	8E-04	0.005	0.00497	0.016068	0.009179221	5.622E-08	3.79E-05	3.75E-04	1.14E-04	3.55E-02	3.38E-02	2.75E-02
3356	481863.09	3848377.25	0.00161	0.0048	0.00055	0.00075	8E-04	8E-04	0.0049	0.0048	0.01679837	0.008865243	5.726E-08	3.95E-05	3.70E-04	1.15E-04	3.44E-02	3.26E-02	2.80E-02
3357	482363.09	3848377.25	0.00159	0.00459	0.00054	0.00076	8E-04	8E-04	0.0047	0.00459	0.01658969	0.008477389	5.622E-08	4.00E-05	3.94E-04	1.15E-04	3.30E-02	3.12E-02	2.74E-02
3358	482863.09	3848377.25	0.00151	0.00422	0.00053	0.00074	9E-04	8E-04	0.0043	0.00422	0.01575499	0.007794026	5.518E-08	3.90E-05	4.08E-04	1.15E-04	3.03E-02	2.87E-02	2.57E-02
3359	483363.09	3848377.25	0.00151	0.00402	0.00051	0.00073	9E-04	8E-04	0.0041	0.00402	0.01575499	0.007424641	5.309E-08	3.85E-05	4.08E-04	1.15E-04	2.88E-02	2.73E-02	2.52E-02
3360	483863.09	3848377.25	0.00148	0.00377	0.00051	0.00072	8E-04	8E-04	0.0038	0.00377	0.01544198	0.00696291	5.309E-08	3.79E-05	3.89E-04	1.14E-04	2.71E-02	2.56E-02	2.44E-02

3361	484363.09	3848377.25	0.00149	0.00366	0.00053	0.00073	9E-04	8E-04	0.0037	0.00366	0.01554632	0.006759748	5.518E-08	3.85E-05	4.22E-04	1.13E-04	2.63E-02	2.49E-02	2.43E-02
3362	484863.09	3848377.25	0.00151	0.00366	0.00057	0.00075	0.001	8E-04	0.0037	0.00366	0.01575499	0.006759748	5.934E-08	3.95E-05	4.69E-04	1.15E-04	2.63E-02	2.49E-02	2.45E-02
3363	485363.09	3848377.25	0.00148	0.00354	0.00054	0.00075	0.001	8E-04	0.0036	0.00354	0.01544198	0.006538117	5.622E-08	3.95E-05	4.78E-04	1.13E-04	2.54E-02	2.41E-02	2.39E-02
3364	485863.09	3848377.25	0.00145	0.00343	0.00053	0.00075	1E-03	8E-04	0.0035	0.00343	0.01512897	0.006334955	5.518E-08	3.95E-05	4.55E-04	1.11E-04	2.47E-02	2.33E-02	2.34E-02
3365	486363.09	3848377.25	0.00141	0.00329	0.00054	0.00074	8E-04	8E-04	0.0033	0.00329	0.01471161	0.006076385	5.622E-08	3.90E-05	3.75E-04	1.08E-04	2.36E-02	2.24E-02	2.25E-02
3366	486863.09	3848377.25	0.00137	0.00312	0.00054	0.00072	8E-04	8E-04	0.0032	0.00312	0.01429426	0.005762408	5.622E-08	3.79E-05	3.52E-04	1.07E-04	2.24E-02	2.12E-02	2.17E-02
3367	487363.09	3848377.25	0.00132	0.00294	0.00053	0.0007	8E-04	8E-04	0.003	0.00294	0.01377258	0.005429961	5.518E-08	3.69E-05	3.61E-04	1.07E-04	2.10E-02	2.00E-02	2.08E-02
3368	487863.09	3848377.25	0.00132	0.00285	0.0005	0.0007	8E-04	8E-04	0.0029	0.00285	0.01377258	0.005263738	5.205E-08	3.69E-05	3.85E-04	1.07E-04	2.04E-02	1.94E-02	2.06E-02
3369	488363.09	3848377.25	0.00132	0.00276	0.00051	0.0007	9E-04	8E-04	0.0028	0.00276	0.01377258	0.005097515	5.309E-08	3.69E-05	3.99E-04	1.10E-04	1.98E-02	1.88E-02	2.04E-02
3370	488863.09	3848377.25	0.00133	0.00268	0.00053	0.00072	8E-04	8E-04	0.0027	0.00268	0.01387691	0.004949761	5.518E-08	3.79E-05	3.80E-04	1.10E-04	1.92E-02	1.82E-02	2.03E-02
3371	489363.09	3848377.25	0.00135	0.00262	0.00056	0.00073	8E-04	8E-04	0.0027	0.00262	0.01408559	0.004838945	5.83E-08	3.85E-05	3.70E-04	1.11E-04	1.88E-02	1.78E-02	2.05E-02
3372	489863.09	3848377.25	0.00138	0.0026	0.00057	0.00074	8E-04	8E-04	0.0026	0.0026	0.0143986	0.004802007	5.934E-08	3.90E-05	3.85E-04	1.13E-04	1.87E-02	1.77E-02	2.08E-02
3373	490363.09	3848377.25	0.00138	0.00252	0.00057	0.00073	9E-04	8E-04	0.0026	0.00252	0.0143986	0.004654253	5.934E-08	3.85E-05	4.08E-04	1.14E-04	1.81E-02	1.71E-02	2.05E-02
3374	490863.09	3848377.25	0.00136	0.0024	0.00057	0.00073	9E-04	8E-04	0.0024	0.0024	0.01418993	0.004432622	5.934E-08	3.85E-05	4.22E-04	1.15E-04	1.73E-02	1.63E-02	2.02E-02
3375	491363.09	3848377.25	0.00135	0.0023	0.00058	0.00073	9E-04	8E-04	0.0023	0.0023	0.01408559	0.004247929	6.038E-08	3.85E-05	4.03E-04	1.15E-04	1.65E-02	1.56E-02	1.98E-02
3376	491863.09	3848377.25	0.00135	0.00223	0.00061	0.00073	8E-04	8E-04	0.0023	0.00223	0.01408559	0.004118644	6.35E-08	3.85E-05	3.89E-04	1.17E-04	1.60E-02	1.52E-02	1.96E-02
3377	492363.09	3848377.25	0.00132	0.00211	0.00062	0.00073	8E-04	8E-04	0.0021	0.00211	0.01377258	0.003897013	6.455E-08	3.85E-05	3.85E-04	1.17E-04	1.52E-02	1.43E-02	1.90E-02
3378	492863.09	3848377.25	0.0013	0.002	0.00064	0.00073	8E-04	8E-04	0.002	0.002	0.0135639	0.003693851	6.663E-08	3.85E-05	3.75E-04	1.15E-04	1.44E-02	1.36E-02	1.86E-02
3379	493363.09	3848377.25	0.0013	0.00193	0.00065	0.00074	8E-04	8E-04	0.002	0.00193	0.0135639	0.003564567	6.767E-08	3.90E-05	3.75E-04	1.17E-04	1.39E-02	1.31E-02	1.84E-02
3380	493863.09	3848377.25	0.00131	0.00187	0.00067	0.00075	8E-04	8E-04	0.0019	0.00187	0.01366824	0.003453751	6.975E-08	3.95E-05	3.85E-04	1.18E-04	1.34E-02	1.27E-02	1.83E-02
3381	494363.09	3848377.25	0.00132	0.00181	0.00068	0.00076	9E-04	9E-04	0.0018	0.00181	0.01377258	0.003342935	7.079E-08	4.00E-05	4.03E-04	1.21E-04	1.30E-02	1.23E-02	1.84E-02
3382	494863.09	3848377.25	0.00136	0.00179	0.0007	0.00078	9E-04	9E-04	0.0018	0.00179	0.01418993	0.003305997	7.287E-08	4.11E-05	4.27E-04	1.25E-04	1.29E-02	1.22E-02	1.88E-02
3383	495363.09	3848377.25	0.00136	0.00171	0.00072	0.00078	9E-04	9E-04	0.0017	0.00171	0.01418993	0.003158243	7.496E-08	4.11E-05	4.36E-04	1.25E-04	1.23E-02	1.16E-02	1.87E-02
3384	495863.09	3848377.25	0.00138	0.00168	0.00075	0.0008	1E-03	9E-04	0.0017	0.00168	0.0143986	0.003102835	7.808E-08	4.21E-05	4.50E-04	1.28E-04	1.21E-02	1.14E-02	1.88E-02
3385	496363.09	3848377.25	0.00143	0.00171	0.0008	0.00083	0.001	1E-03	0.0017	0.00171	0.01492029	0.003158243	8.328E-08	4.37E-05	4.74E-04	1.34E-04	1.23E-02	1.16E-02	1.94E-02
3386	496863.09	3848377.25	0.00145	0.00167	0.00082	0.00084	0.001	1E-03	0.0017	0.00167	0.01512897	0.003084366	8.537E-08	4.42E-05	4.78E-04	1.36E-04	1.20E-02	1.14E-02	1.96E-02
3387	497363.09	3848377.25	0.00154	0.00173	0.00086	0.00088	0.001	0.001	0.0018	0.00173	0.016068	0.003195181	8.953E-08	4.64E-05	4.97E-04	1.42E-04	1.25E-02	1.18E-02	2.07E-02
3388	497863.09	3848377.25	0.00173	0.00192	0.00091	0.00096	0.001	0.001	0.002	0.00192	0.01805042	0.003546097	9.474E-08	5.06E-05	5.35E-04	1.56E-04	1.40E-02	1.31E-02	2.32E-02
3389	498363.09	3848377.25	0.00177	0.00191	0.00093	0.001	0.001	0.001	0.002	0.00191	0.01846777	0.003527628	9.682E-08	5.27E-05	5.44E-04	1.60E-04	1.39E-02	1.30E-02	2.37E-02
3390	471363.09	3848877.25	0.00128	0.00319	0.00059	0.00081	9E-04	9E-04	0.0032	0.00319	0.01335522	0.005891693	6.142E-08	4.27E-05	4.36E-04	1.25E-04	2.28E-02	2.17E-02	2.10E-02
3391	471863.09	3848877.25	0.00132	0.00356	0.00061	0.00082	1E-03	9E-04	0.0036	0.00356	0.01377258	0.006575055	6.35E-08	4.32E-05	4.60E-04	1.27E-04	2.54E-02	2.42E-02	2.21E-02
3392	472363.09	3848877.25	0.00138	0.00404	0.00063	0.00082	0.001	9E-04	0.0041	0.00404	0.0143986	0.00746158	6.559E-08	4.32E-05	4.83E-04	1.29E-04	2.88E-02	2.75E-02	2.38E-02
3393	472863.09	3848877.25	0.00144	0.00474	0.00064	0.00084	0.001	9E-04	0.0048	0.00474	0.01502463	0.008754428	6.663E-08	4.42E-05	5.06E-04	1.29E-04	3.38E-02	3.22E-02	2.60E-02
3394	473363.09	3848877.25	0.00152	0.0058	0.00066	0.00087	0.001	9E-04	0.0058	0.0058	0.01585933	0.010712169	6.871E-08	4.58E-05	5.16E-04	1.32E-04	4.14E-02	3.94E-02	2.92E-02
3395	473863.09	3848877.25	0.00168	0.00768	0.00065	0.0009	0.001	1E-03	0.0078	0.00768	0.01752873	0.014184389	6.767E-08	4.74E-05	5.21E-04	1.34E-04	5.49E-02	5.22E-02	3.51E-02
3396	474363.09	3848877.25	0.00207	0.01192	0.00061	0.00091	0.001	1E-03	0.0121	0.01192	0.0215979	0.022015354	6.35E-08	4.79E-05	5.30E-04	1.35E-04	8.54E-02	8.11E-02	4.87E-02
3397	474863.09	3848877.25	0.00468	0.03846	0.00055	0.00089	0.001	1E-03	0.0388	0.03846	0.04883004	0.071032761	5.726E-08	4.69E-05	5.35E-04	1.34E-04	2.75E-01	2.62E-01	1.34E-01
3398	475363.09	3848877.25	0.00486	0.08287	0.00055	0.00087	0.001	1E-03	0.0835	0.08287	0.05070812	0.15305473	5.726E-08	4.58E-05	5.16E-04	1.34E-04	5.92E-01	5.64E-01	2.33E-01
3399	475863.09	3848877.25	0.00311	0.04046	0.00061	0.00084	0.001	9E-04	0.0408	0.04046	0.03244902	0.074726613	6.35E-08	4.42E-05	4.88E-04	1.32E-04	2.89E-01	2.75E-01	1.22E-01
3400	476363.09	3848877.25	0.00255	0.02835	0.00062	0.00083	0.001	9E-04	0.0286	0.02835	0.02660611	0.052360343	6.455E-08	4.37E-05	4.69E-04	1.27E-04	2.02E-01	1.93E-01	8.93E-02
3401	476863.09	3848877.25	0.00227	0.02152	0.00058	0.00087	0.001	9E-04	0.0217	0.02152	0.02368466	0.03974584	6.038E-08	4.58E-05	4.83E-04	1.25E-04	1.54E-01	1.46E-01	7.17E-02
3402	477363.09	3848877.25	0.00214	0.01946	0.00057	0.00095	0.001	9E-04	0.0197	0.01946	0.02232827	0.035941174	5.934E-08	5.00E-05	5.25E-04	1.32E-04	1.40E-01	1.32E-01	6.62E-02
3403	477863.09	3848877.25	0.00201	0.01589	0.00054	0.0009	0.001	1E-03	0.016	0.01589	0.02097188	0.029347649	5.622E-08	4.74E-05	5.49E-04	1.36E-04	1.14E-01	1.08E-01	5.67E-02
3404	478363.09	3848877.25	0.00197	0.01343	0.00053	0.00084	0.001	9E-04	0.0135	0.01343	0.02055453	0.024804212	5.518E-08	4.42E-05	5.16E-04	1.32E-04	9.57E-02	9.13E-02	5.05E-02
3405	478863.09	3848877.25	0.00196	0.01125	0.00052	0.00083	1E-03	9E-04	0.0114	0.01125	0.02045019	0.020777914	5.414E-08	4.37E-05	4.64E-04	1.27E-04	8.04E-02	7.65E-02	4.58E-02
3406	479363.09	3848877.25	0.00189	0.00924	0.00052	0.00082	9E-04	9E-04	0.0094	0.00924	0.01971982	0.017065593	5.414E-08	4.32E-05	4.22E-04	1.22E-04	6.63E-02	6.28E-02	4.09E-02
3407	479863.09	3848877.25	0.00179	0.00767	0.00051	0.00081	9E-04	9E-04	0.0078	0.00767	0.01867645	0.01416592	5.309E-08	4.27E-05	4.31E-04	1.20E-04	5.51E-02	5.22E-02	3.63E-02
3408	480363.09	3848877.25	0.00181	0.00718	0.00052	0.0008	0.001	9E-04	0.0073	0.00718	0.01888512	0.013260926	5.414E-08	4.21E-05	5.11E-04	1.20E-04	5.14E-02	4.88E-02	3.54E-02
3409	480863.09	3848877.25	0.0019	0.00676	0.00055	0.00081	0.001	9E-04	0.0068	0.00676	0.01982416	0.012485218	5.726E-08	4.27E-05	5.16E-04	1.24E-04	4.83E-02	4.60E-02	3.53E-02
3410	481363.09	3848877.25	0.00198	0.00619	0.00061	0.0008	9E-04	9E-04	0.0062	0.00619	0.02065886	0.01143247	6.35E-08	4.21E-05	4.27E-04	1.27E-04	4.42E-02	4.21E-02	3.48E-02
3411	481863.09	3848877.25	0.00197	0.00554	0.00061	0.0008	8E-04	9E-04	0.0056	0.00554	0.02055453	0.010231968	6.35E-08	4.21E-05	3.94E-04	1.25E-04	3.97E-02	3.77E-02	3.34E-02
3412	482363.09	3848877.25	0.0018	0.0049	0.00057	0.00079	8E-04	9E-04	0.005	0.0049	0.01878078	0.009049936	5.934E-08	4.16E-05	3.94E-04	1.21E-04	3.52E-02	3.33E-02	3.03E-02
3413	482863.09	3848877.25	0.00168	0.00442	0.00056	0.00077	9E-04	9E-04	0.0045	0.00442	0.01752873	0.008163411	5.83E-08	4.06E-05	4.08E-04	1.20E-04	3.17E-02	3.01E-02	2.79E-02
3414	483363.09	3848877.25	0.00161	0.00405	0.00053	0.00074	9E-04	8E-04	0.0041	0.00405	0.01679837	0.007480049	5.518E-08	3.90E-05	4.17E-04	1.18E-04	2.90E-02	2.75E-02	2.64E-02
3415	483863.09	3848877.25	0.00157	0.00388	0.00054	0.00074	9E-04	8E-04	0.0039	0.00388	0.01638102	0.007166072	5.622E-08	3.90E-05	4.13E-04	1.18E-04	2.78E-02	2.64E-02	2.56E-02
3416	484363.09	3848877.25	0.00168	0.00401	0.00058	0.00078	9E-04	9E-04	0.0041	0.00401	0.01752873	0.007406172	6.038E-08	4.11E-05	4.31E-04	1.22E-04	2.88E-02	2.73E-02	2.71E-02
3417	484863.09	3848877.25	0.00176	0.0041	0.00062	0.00082	0.001	9E-04	0.0042	0.0041	0.01836343	0.007572395	6.455E-08	4.32E-05	5.25E-04	1.25E-04	2.95E-02	2.79E-02	2.82E-02
3418	485363.09	3848877.25	0.00172	0.00393	0.00059	0.00082	0.001	9E-04	0.004	0.00393	0.01794608	0.007258418	6.142E-08	4.32E-05	5.49E-04	1.22E-04	2.83E-02	2.67E-02	2.75E-02

3419	485863.09	3848877.25	0.00167	0.00378	0.00057	0.00081	0.001	9E-04	0.0038	0.00378	0.01742439	0.006981379	5.934E-08	4.27E-05	5.16E-04	1.21E-04	2.71E-02	2.57E-02	2.65E-02
3420	486363.09	3848877.25	0.00159	0.00356	0.00058	0.0008	9E-04	8E-04	0.0036	0.00356	0.01658969	0.006575055	6.038E-08	4.21E-05	4.17E-04	1.17E-04	2.56E-02	2.42E-02	2.51E-02
3421	486863.09	3848877.25	0.00151	0.00334	0.00059	0.00077	8E-04	8E-04	0.0034	0.00334	0.01575499	0.006168732	6.142E-08	4.06E-05	3.75E-04	1.15E-04	2.39E-02	2.27E-02	2.37E-02
3422	487363.09	3848877.25	0.00151	0.00325	0.00057	0.00077	8E-04	8E-04	0.0033	0.00325	0.01575499	0.006002508	5.934E-08	4.06E-05	3.89E-04	1.17E-04	2.33E-02	2.21E-02	2.35E-02
3423	487863.09	3848877.25	0.00148	0.00311	0.00055	0.00077	9E-04	8E-04	0.0032	0.00311	0.01544198	0.005743939	5.726E-08	4.06E-05	4.08E-04	1.18E-04	2.23E-02	2.11E-02	2.29E-02
3424	488363.09	3848877.25	0.00149	0.00301	0.00056	0.00077	9E-04	9E-04	0.0031	0.00301	0.01554632	0.005559246	5.83E-08	4.06E-05	4.22E-04	1.21E-04	2.16E-02	2.05E-02	2.28E-02
3425	488863.09	3848877.25	0.00149	0.0029	0.0006	0.00079	9E-04	9E-04	0.0029	0.0029	0.01554632	0.005356084	6.246E-08	4.16E-05	4.03E-04	1.21E-04	2.08E-02	1.97E-02	2.26E-02
3426	489363.09	3848877.25	0.00151	0.00284	0.00062	0.0008	9E-04	9E-04	0.0029	0.00284	0.01575499	0.005245269	6.455E-08	4.21E-05	3.99E-04	1.22E-04	2.04E-02	1.93E-02	2.27E-02
3427	489863.09	3848877.25	0.00153	0.00278	0.00063	0.00081	9E-04	9E-04	0.0028	0.00278	0.01596367	0.005134453	6.559E-08	4.27E-05	4.17E-04	1.24E-04	2.00E-02	1.89E-02	2.28E-02
3428	490363.09	3848877.25	0.00152	0.00265	0.00062	0.00079	1E-03	9E-04	0.0027	0.00265	0.01585933	0.004894353	6.455E-08	4.16E-05	4.45E-04	1.24E-04	1.91E-02	1.80E-02	2.24E-02
3429	490863.09	3848877.25	0.0015	0.00252	0.00063	0.00079	1E-03	9E-04	0.0026	0.00252	0.01565065	0.004654253	6.559E-08	4.16E-05	4.45E-04	1.25E-04	1.81E-02	1.71E-02	2.19E-02
3430	491363.09	3848877.25	0.00149	0.00243	0.00066	0.0008	9E-04	9E-04	0.0025	0.00243	0.01554632	0.004488029	6.871E-08	4.21E-05	4.17E-04	1.27E-04	1.74E-02	1.65E-02	2.15E-02
3431	491863.09	3848877.25	0.00146	0.00228	0.00068	0.00079	9E-04	9E-04	0.0023	0.00228	0.0152333	0.004210991	7.079E-08	4.16E-05	4.03E-04	1.27E-04	1.64E-02	1.55E-02	2.09E-02
3432	492363.09	3848877.25	0.00142	0.00214	0.0007	0.00079	9E-04	9E-04	0.0022	0.00214	0.01481595	0.003952421	7.287E-08	4.16E-05	3.99E-04	1.27E-04	1.54E-02	1.46E-02	2.02E-02
3433	492863.09	3848877.25	0.00139	0.002	0.00071	0.00079	9E-04	9E-04	0.002	0.002	0.01450294	0.003693851	7.392E-08	4.16E-05	3.99E-04	1.25E-04	1.44E-02	1.36E-02	1.95E-02
3434	493363.09	3848877.25	0.00137	0.00186	0.00071	0.00079	9E-04	9E-04	0.0019	0.00186	0.01429426	0.003435282	7.392E-08	4.16E-05	3.99E-04	1.25E-04	1.34E-02	1.26E-02	1.90E-02
3435	493863.09	3848877.25	0.0014	0.00184	0.00073	0.00081	9E-04	9E-04	0.0019	0.00184	0.01460728	0.003398343	7.6E-08	4.27E-05	4.17E-04	1.29E-04	1.32E-02	1.25E-02	1.93E-02
3436	494363.09	3848877.25	0.00143	0.0018	0.00076	0.00083	9E-04	9E-04	0.0018	0.0018	0.01492029	0.003324466	7.912E-08	4.37E-05	4.41E-04	1.32E-04	1.30E-02	1.22E-02	1.96E-02
3437	494863.09	3848877.25	0.00147	0.0018	0.0008	0.00086	0.001	1E-03	0.0018	0.0018	0.01533764	0.003324466	8.328E-08	4.53E-05	4.69E-04	1.36E-04	1.30E-02	1.22E-02	2.00E-02
3438	495363.09	3848877.25	0.00151	0.00179	0.00083	0.00087	0.001	0.001	0.0018	0.00179	0.01575499	0.003305997	8.641E-08	4.58E-05	4.88E-04	1.41E-04	1.29E-02	1.22E-02	2.05E-02
3439	495863.09	3848877.25	0.0015	0.00169	0.00085	0.00087	0.001	0.001	0.0017	0.00169	0.01565065	0.003121304	8.849E-08	4.58E-05	4.92E-04	1.41E-04	1.22E-02	1.15E-02	2.01E-02
3440	496363.09	3848877.25	0.00154	0.00168	0.00088	0.0009	0.001	0.001	0.0017	0.00168	0.016068	0.003102835	9.161E-08	4.74E-05	5.02E-04	1.45E-04	1.21E-02	1.14E-02	2.06E-02
3441	496863.09	3848877.25	0.00162	0.00174	0.00092	0.00094	0.001	0.001	0.0018	0.00174	0.01690271	0.003213651	9.578E-08	4.95E-05	5.21E-04	1.52E-04	1.26E-02	1.18E-02	2.16E-02
3442	497363.09	3848877.25	0.00178	0.0019	0.00097	0.00101	0.001	0.001	0.0019	0.0019	0.01857211	0.003509159	1.01E-07	5.32E-05	5.49E-04	1.63E-04	1.37E-02	1.29E-02	2.37E-02
3443	497863.09	3848877.25	0.00188	0.00194	0.00101	0.00106	0.001	0.001	0.002	0.00194	0.01961549	0.003583036	1.051E-07	5.58E-05	5.77E-04	1.70E-04	1.41E-02	1.32E-02	2.49E-02
3444	498363.09	3848877.25	0.00195	0.00197	0.00103	0.00112	0.001	0.001	0.002	0.00197	0.02034585	0.003638444	1.072E-07	5.90E-05	6.10E-04	1.76E-04	1.43E-02	1.34E-02	2.57E-02
3445	471363.09	3849377.25	0.00131	0.00279	0.0006	0.00084	1E-03	9E-04	0.0028	0.00279	0.01366824	0.005152923	6.246E-08	4.42E-05	4.60E-04	1.29E-04	2.01E-02	1.90E-02	2.05E-02
3446	471863.09	3849377.25	0.00136	0.0031	0.00063	0.00086	1E-03	1E-03	0.0031	0.0031	0.01418993	0.00572547	6.559E-08	4.53E-05	4.55E-04	1.34E-04	2.22E-02	2.11E-02	2.16E-02
3447	472363.09	3849377.25	0.00141	0.00344	0.00065	0.00088	0.001	1E-03	0.0035	0.00344	0.01471161	0.006353424	6.767E-08	4.64E-05	4.69E-04	1.35E-04	2.46E-02	2.34E-02	2.29E-02
3448	472863.09	3849377.25	0.00147	0.00388	0.00067	0.00088	0.001	1E-03	0.0039	0.00388	0.01533764	0.007166072	6.975E-08	4.64E-05	4.92E-04	1.38E-04	2.77E-02	2.64E-02	2.45E-02
3449	473363.09	3849377.25	0.00155	0.00453	0.00069	0.00089	0.001	1E-03	0.0046	0.00453	0.01617234	0.008366573	7.183E-08	4.69E-05	5.21E-04	1.39E-04	3.24E-02	3.08E-02	2.68E-02
3450	473863.09	3849377.25	0.00165	0.0055	0.00071	0.00091	0.001	0.001	0.0055	0.0055	0.01721572	0.010158091	7.392E-08	4.79E-05	5.44E-04	1.41E-04	3.93E-02	3.74E-02	3.00E-02
3451	474363.09	3849377.25	0.0018	0.00698	0.00071	0.00095	0.001	0.001	0.007	0.00698	0.01878078	0.012891541	7.392E-08	5.00E-05	5.53E-04	1.42E-04	4.99E-02	4.75E-02	3.48E-02
3452	474863.09	3849377.25	0.00203	0.00964	0.00068	0.00098	0.001	0.001	0.0098	0.00964	0.02118055	0.017804363	7.079E-08	5.16E-05	5.67E-04	1.45E-04	6.91E-02	6.56E-02	4.33E-02
3453	475363.09	3849377.25	0.00255	0.01572	0.00062	0.00098	0.001	0.001	0.0159	0.01572	0.02660611	0.029033672	6.455E-08	5.16E-05	5.67E-04	1.46E-04	1.13E-01	1.07E-01	6.20E-02
3454	475863.09	3849377.25	0.00429	0.02719	0.00061	0.00097	0.001	0.001	0.0274	0.02719	0.04476087	0.050217909	6.35E-08	5.11E-05	5.63E-04	1.48E-04	1.94E-01	1.85E-01	1.05E-01
3455	476363.09	3849377.25	0.00854	0.05945	0.00066	0.00095	0.001	0.001	0.0598	0.05945	0.08910439	0.109799731	6.871E-08	5.00E-05	5.39E-04	1.48E-04	4.23E-01	4.04E-01	2.19E-01
3456	476863.09	3849377.25	0.01296	0.16452	0.0007	0.00092	0.001	0.001	0.1664	0.16452	0.13522165	0.303856212	7.287E-08	4.85E-05	5.16E-04	1.41E-04	1.18E+00	1.12E+00	5.00E-01
3457	477363.09	3849377.25	0.00511	0.04728	0.00065	0.00094	0.001	1E-03	0.0477	0.04728	0.05331656	0.087322646	6.767E-08	4.95E-05	5.16E-04	1.38E-04	3.38E-01	3.21E-01	1.58E-01
3458	477863.09	3849377.25	0.00368	0.02837	0.00061	0.00101	0.001	0.001	0.0286	0.02837	0.03839627	0.052397281	6.35E-08	5.32E-05	5.49E-04	1.42E-04	2.03E-01	1.93E-01	1.02E-01
3459	478363.09	3849377.25	0.00326	0.02089	0.00059	0.00099	0.001	0.001	0.0211	0.02089	0.03401409	0.038582277	6.142E-08	5.21E-05	5.81E-04	1.49E-04	1.49E-01	1.42E-01	8.05E-02
3460	478863.09	3849377.25	0.00314	0.01579	0.00057	0.0009	0.001	1E-03	0.0159	0.01579	0.03276204	0.029162956	5.934E-08	4.74E-05	5.58E-04	1.39E-04	1.12E-01	1.07E-01	6.77E-02
3461	479363.09	3849377.25	0.00302	0.0129	0.00057	0.0009	0.001	1E-03	0.013	0.0129	0.03150998	0.023825341	5.934E-08	4.74E-05	4.97E-04	1.35E-04	9.23E-02	8.77E-02	6.05E-02
3462	479863.09	3849377.25	0.00272	0.01015	0.00056	0.00088	1E-03	9E-04	0.0103	0.01015	0.02837985	0.018746296	5.83E-08	4.64E-05	4.55E-04	1.32E-04	7.28E-02	6.90E-02	5.15E-02
3463	480363.09	3849377.25	0.00274	0.00961	0.00058	0.00092	0.001	1E-03	0.0097	0.00961	0.02858853	0.017748956	6.038E-08	4.85E-05	4.88E-04	1.36E-04	6.89E-02	6.53E-02	5.05E-02
3464	480863.09	3849377.25	0.00258	0.00845	0.00059	0.00092	0.001	1E-03	0.0085	0.00845	0.02691912	0.015606522	6.142E-08	4.85E-05	5.91E-04	1.36E-04	6.05E-02	5.75E-02	4.64E-02
3465	481363.09	3849377.25	0.00246	0.00723	0.00064	0.00087	0.001	1E-03	0.0073	0.00723	0.02566707	0.013353273	6.663E-08	4.58E-05	5.35E-04	1.35E-04	5.16E-02	4.92E-02	4.22E-02
3466	481863.09	3849377.25	0.00224	0.00593	0.00063	0.00083	9E-04	9E-04	0.006	0.00593	0.02337164	0.010952269	6.559E-08	4.37E-05	4.36E-04	1.29E-04	4.24E-02	4.03E-02	3.70E-02
3467	482363.09	3849377.25	0.00207	0.00529	0.0006	0.00083	9E-04	9E-04	0.0054	0.00529	0.0215979	0.009770237	6.246E-08	4.37E-05	4.17E-04	1.28E-04	3.79E-02	3.60E-02	3.39E-02
3468	482863.09	3849377.25	0.00188	0.00466	0.0006	0.0008	9E-04	9E-04	0.0047	0.00466	0.01961549	0.008606674	6.246E-08	4.21E-05	4.17E-04	1.25E-04	3.34E-02	3.17E-02	3.05E-02
3469	483363.09	3849377.25	0.00176	0.00428	0.00057	0.00079	9E-04	9E-04	0.0043	0.00428	0.01836343	0.007904842	5.934E-08	4.16E-05	4.31E-04	1.24E-04	3.08E-02	2.91E-02	2.85E-02
3470	483863.09	3849377.25	0.00163	0.00384	0.00056	0.00077	9E-04	9E-04	0.0039	0.00384	0.01700704	0.007092195	5.83E-08	4.06E-05	4.36E-04	1.22E-04	2.76E-02	2.61E-02	2.61E-02
3471	484363.09	3849377.25	0.00191	0.00437	0.00062	0.00084	1E-03	9E-04	0.0044	0.00437	0.0199285	0.008071065	6.455E-08	4.42E-05	4.64E-04	1.32E-04	3.14E-02	2.97E-02	3.03E-02
3472	484863.09	3849377.25	0.00205	0.00453	0.00066	0.00089	0.001	1E-03	0.0046	0.00453	0.02138923	0.008366573	6.871E-08	4.69E-05	5.77E-04	1.36E-04	3.26E-02	3.08E-02	3.23E-02
3473	485363.09	3849377.25	0.00201	0.00434	0.00064	0.0009	0.001	1E-03	0.0044	0.00434	0.02097188	0.008015657	6.663E-08	4.74E-05	6.33E-04	1.34E-04	3.12E-02	2.95E-02	3.15E-02
3474	485863.09	3849377.25	0.00177	0.00385	0.0006	0.00085	0.001	9E-04	0.0039	0.00385	0.01846777	0.007110664	6.246E-08	4.48E-05	5.30E-04	1.25E-04	2.76E-02	2.62E-02	2.77E-02
3475	486363.09	3849377.25	0.0016	0.00344	0.00061	0.00081	9E-04	9E-04	0.0035	0.00344	0.01669403	0.006353424	6.35E-08	4.27E-05	4.27E-04	1.20E-04	2.47E-02	2.34E-02	2.49E-02
3476	486863.09	3849377.25	0.0017	0.00358	0.00063	0.00084	9E-04	9E-04	0.0036	0.00358	0.01773741	0.006611994	6.559E-08	4.42E-05	4.08E-04	1.27E-04	2.57E-02	2.43E-02	2.63E-02

3477	487363.09	3849377.25	0.00171	0.00351	0.00064	0.00085	9E-04	9E-04	0.0036	0.00351	0.01784175	0.006482709	6.663E-08	4.48E-05	4.17E-04	1.31E-04	2.52E-02	2.39E-02	2.63E-02
3478	487863.09	3849377.25	0.0017	0.00336	0.00063	0.00085	9E-04	9E-04	0.0034	0.00336	0.01773741	0.00620567	6.559E-08	4.48E-05	4.41E-04	1.31E-04	2.42E-02	2.28E-02	2.59E-02
3479	488363.09	3849377.25	0.0017	0.00323	0.00066	0.00086	1E-03	9E-04	0.0033	0.00323	0.01773741	0.00596557	6.871E-08	4.53E-05	4.50E-04	1.32E-04	2.32E-02	2.20E-02	2.56E-02
3480	488863.09	3849377.25	0.0017	0.00313	0.00068	0.00088	9E-04	1E-03	0.0032	0.00313	0.01773741	0.005780877	7.079E-08	4.64E-05	4.31E-04	1.34E-04	2.25E-02	2.13E-02	2.54E-02
3481	489363.09	3849377.25	0.00171	0.00304	0.00068	0.00089	9E-04	1E-03	0.0031	0.00304	0.01784175	0.005614654	7.079E-08	4.69E-05	4.36E-04	1.36E-04	2.19E-02	2.07E-02	2.53E-02
3482	489863.09	3849377.25	0.0017	0.00292	0.00069	0.00089	1E-03	1E-03	0.003	0.00292	0.01773741	0.005393023	7.183E-08	4.69E-05	4.60E-04	1.38E-04	2.10E-02	1.99E-02	2.50E-02
3483	490363.09	3849377.25	0.00168	0.00276	0.0007	0.00087	0.001	1E-03	0.0028	0.00276	0.01752873	0.005097515	7.287E-08	4.58E-05	4.83E-04	1.38E-04	1.99E-02	1.88E-02	2.44E-02
3484	490863.09	3849377.25	0.00167	0.00264	0.00073	0.00087	0.001	1E-03	0.0027	0.00264	0.01742439	0.004875884	7.6E-08	4.58E-05	4.69E-04	1.38E-04	1.90E-02	1.80E-02	2.40E-02
3485	491363.09	3849377.25	0.00166	0.00252	0.00075	0.00088	1E-03	0.001	0.0026	0.00252	0.01732006	0.004654253	7.808E-08	4.64E-05	4.45E-04	1.41E-04	1.82E-02	1.71E-02	2.37E-02
3486	491863.09	3849377.25	0.00162	0.00237	0.00078	0.00088	9E-04	0.001	0.0024	0.00237	0.01690271	0.004377214	8.12E-08	4.64E-05	4.41E-04	1.41E-04	1.70E-02	1.61E-02	2.28E-02
3487	492363.09	3849377.25	0.00157	0.00222	0.0008	0.00089	9E-04	0.001	0.0023	0.00222	0.01638102	0.004100175	8.328E-08	4.69E-05	4.31E-04	1.41E-04	1.60E-02	1.51E-02	2.20E-02
3488	492863.09	3849377.25	0.00153	0.00203	0.0008	0.00088	9E-04	1E-03	0.0021	0.00203	0.01596367	0.003749259	8.328E-08	4.64E-05	4.27E-04	1.39E-04	1.47E-02	1.38E-02	2.12E-02
3489	493363.09	3849377.25	0.00153	0.00194	0.00081	0.00089	9E-04	0.001	0.002	0.00194	0.01596367	0.003583036	8.433E-08	4.69E-05	4.41E-04	1.42E-04	1.40E-02	1.32E-02	2.09E-02
3490	493863.09	3849377.25	0.00155	0.00188	0.00084	0.0009	1E-03	0.001	0.0019	0.00188	0.01617234	0.00347222	8.745E-08	4.74E-05	4.64E-04	1.45E-04	1.35E-02	1.28E-02	2.11E-02
3491	494363.09	3849377.25	0.00159	0.00187	0.00088	0.00093	0.001	0.001	0.0019	0.00187	0.01658969	0.003453751	9.161E-08	4.90E-05	4.97E-04	1.49E-04	1.35E-02	1.27E-02	2.16E-02
3492	494863.09	3849377.25	0.0017	0.00195	0.00094	0.00098	0.001	0.001	0.002	0.00195	0.01773741	0.003601505	9.786E-08	5.16E-05	5.35E-04	1.58E-04	1.41E-02	1.33E-02	2.29E-02
3493	495363.09	3849377.25	0.00175	0.00195	0.00098	0.001	0.001	0.001	0.002	0.00195	0.0182591	0.003601505	1.02E-07	5.27E-05	5.63E-04	1.62E-04	1.42E-02	1.33E-02	2.35E-02
3494	495863.09	3849377.25	0.00165	0.00172	0.00096	0.00097	0.001	0.001	0.0018	0.00172	0.01721572	0.003176712	9.994E-08	5.11E-05	5.35E-04	1.55E-04	1.25E-02	1.17E-02	2.19E-02
3495	496363.09	3849377.25	0.00167	0.00167	0.00097	0.00098	0.001	0.001	0.0017	0.00167	0.01742439	0.003084366	1.01E-07	5.16E-05	5.39E-04	1.58E-04	1.20E-02	1.14E-02	2.19E-02
3496	496863.09	3849377.25	0.00186	0.00187	0.00104	0.00107	0.001	0.001	0.0019	0.00187	0.01940681	0.003453751	1.083E-07	5.64E-05	5.81E-04	1.72E-04	1.36E-02	1.27E-02	2.46E-02
3497	497363.09	3849377.25	0.00193	0.00191	0.00107	0.00112	0.001	0.001	0.002	0.00191	0.02013717	0.003527628	1.114E-07	5.90E-05	6.10E-04	1.79E-04	1.39E-02	1.30E-02	2.54E-02
3498	497863.09	3849377.25	0.00219	0.00209	0.00114	0.00124	0.001	0.001	0.0022	0.00209	0.02284995	0.003860075	1.187E-07	6.53E-05	6.66E-04	1.94E-04	1.53E-02	1.42E-02	2.87E-02
3499	498363.09	3849377.25	0.00217	0.00203	0.00115	0.00126	0.001	0.001	0.0021	0.00203	0.02264128	0.003749259	1.197E-07	6.64E-05	6.89E-04	1.94E-04	1.48E-02	1.38E-02	2.83E-02
3500	471363.09	3849877.25	0.00134	0.00236	0.00059	0.00085	0.001	9E-04	0.0024	0.00236	0.01398125	0.004358745	6.142E-08	4.48E-05	5.30E-04	1.31E-04	1.69E-02	1.60E-02	1.99E-02
3501	471863.09	3849877.25	0.00141	0.00276	0.00063	0.00088	0.001	1E-03	0.0028	0.00276	0.01471161	0.005097515	6.559E-08	4.64E-05	5.16E-04	1.36E-04	1.98E-02	1.88E-02	2.16E-02
3502	472363.09	3849877.25	0.00146	0.00307	0.00066	0.00091	0.001	0.001	0.0031	0.00307	0.0152333	0.005670062	6.871E-08	4.79E-05	4.97E-04	1.42E-04	2.20E-02	2.09E-02	2.28E-02
3503	472863.09	3849877.25	0.0015	0.00337	0.00069	0.00094	0.001	0.001	0.0034	0.00337	0.01565065	0.00622414	7.183E-08	4.95E-05	4.97E-04	1.45E-04	2.41E-02	2.29E-02	2.37E-02
3504	473363.09	3849877.25	0.00156	0.00376	0.00071	0.00095	0.001	0.001	0.0038	0.00376	0.01627668	0.006944441	7.392E-08	5.00E-05	5.06E-04	1.46E-04	2.69E-02	2.56E-02	2.53E-02
3505	473863.09	3849877.25	0.00161	0.00428	0.00074	0.00096	0.001	0.001	0.0043	0.00428	0.01679837	0.007904842	7.704E-08	5.06E-05	5.35E-04	1.51E-04	3.06E-02	2.91E-02	2.69E-02
3506	474363.09	3849877.25	0.00167	0.00497	0.00077	0.00097	0.001	0.001	0.005	0.00497	0.01742439	0.009179221	8.016E-08	5.11E-05	5.63E-04	1.51E-04	3.54E-02	3.38E-02	2.90E-02
3507	474863.09	3849877.25	0.00173	0.00583	0.00078	0.001	0.001	0.001	0.0059	0.00583	0.01805042	0.010767577	8.12E-08	5.27E-05	5.86E-04	1.52E-04	4.16E-02	3.96E-02	3.16E-02
3508	475363.09	3849877.25	0.00183	0.00698	0.00076	0.00104	0.001	0.001	0.0071	0.00698	0.0190938	0.012891541	7.912E-08	5.48E-05	6.00E-04	1.55E-04	5.00E-02	4.75E-02	3.53E-02
3509	475863.09	3849877.25	0.00212	0.00851	0.00071	0.00106	0.001	0.001	0.0086	0.00851	0.02211959	0.015717337	7.392E-08	5.58E-05	6.10E-04	1.58E-04	6.11E-02	5.79E-02	4.19E-02
3510	476363.09	3849877.25	0.00251	0.01087	0.00067	0.00106	0.001	0.001	0.011	0.01087	0.02618876	0.020076082	6.975E-08	5.58E-05	6.10E-04	1.60E-04	7.80E-02	7.39E-02	5.12E-02
3511	476863.09	3849877.25	0.00321	0.01614	0.00071	0.00104	0.001	0.001	0.0163	0.01614	0.0334924	0.02980938	7.392E-08	5.48E-05	5.91E-04	1.62E-04	1.15E-01	1.10E-01	6.99E-02
3512	477363.09	3849877.25	0.00618	0.03813	0.00077	0.00103	0.001	0.001	0.0386	0.03813	0.06448069	0.070423276	8.016E-08	5.43E-05	5.72E-04	1.56E-04	2.73E-01	2.59E-01	1.50E-01
3513	477863.09	3849877.25	0.02734	0.18374	0.00073	0.00104	0.001	0.001	0.1825	0.18374	0.28525925	0.339354123	7.6E-08	5.48E-05	5.58E-04	1.51E-04	1.29E+00	1.25E+00	6.69E-01
3514	478363.09	3849877.25	0.00962	0.05012	0.00067	0.0011	0.001	0.001	0.0503	0.05012	0.10037286	0.092567915	6.975E-08	5.79E-05	5.81E-04	1.56E-04	3.56E-01	3.41E-01	2.09E-01
3515	478863.09	3849877.25	0.00645	0.0301	0.00065	0.0011	0.001	0.001	0.0302	0.0301	0.06729781	0.055592463	6.767E-08	5.79E-05	6.19E-04	1.67E-04	2.14E-01	2.05E-01	1.33E-01
3516	479363.09	3849877.25	0.00535	0.02067	0.00063	0.00101	0.001	0.001	0.0208	0.02067	0.05582067	0.038175954	6.559E-08	5.32E-05	6.10E-04	1.53E-04	1.47E-01	1.41E-01	1.01E-01
3517	479863.09	3849877.25	0.00464	0.01644	0.00064	0.00101	0.001	0.001	0.0166	0.01644	0.04841269	0.030363458	6.663E-08	5.32E-05	5.44E-04	1.52E-04	1.17E-01	1.12E-01	8.51E-02
3518	480363.09	3849877.25	0.00412	0.01256	0.00065	0.00098	0.001	0.001	0.0127	0.01256	0.04298713	0.023197386	6.767E-08	5.16E-05	4.92E-04	1.49E-04	8.98E-02	8.54E-02	7.13E-02
3519	480863.09	3849877.25	0.00365	0.0102	0.00063	0.00099	0.001	0.001	0.0103	0.0102	0.03808326	0.018838642	6.559E-08	5.21E-05	5.25E-04	1.46E-04	7.31E-02	6.94E-02	6.14E-02
3520	481363.09	3849877.25	0.0033	0.00873	0.00067	0.00098	0.001	0.001	0.0088	0.00873	0.03443144	0.016123661	6.975E-08	5.16E-05	6.24E-04	1.48E-04	6.24E-02	5.94E-02	5.44E-02
3521	481863.09	3849877.25	0.00273	0.00676	0.00069	0.00089	0.001	1E-03	0.0068	0.00676	0.02848419	0.012485218	7.183E-08	4.69E-05	5.11E-04	1.39E-04	4.83E-02	4.60E-02	4.40E-02
3522	482363.09	3849877.25	0.00241	0.00579	0.00064	0.00088	1E-03	1E-03	0.0059	0.00579	0.02514538	0.0106937	6.663E-08	4.64E-05	4.55E-04	1.36E-04	4.14E-02	3.94E-02	3.86E-02
3523	482863.09	3849877.25	0.00218	0.00513	0.00065	0.00086	1E-03	1E-03	0.0052	0.00513	0.02274562	0.009474729	6.767E-08	4.53E-05	4.45E-04	1.34E-04	3.68E-02	3.49E-02	3.47E-02
3524	483363.09	3849877.25	0.00197	0.00455	0.00062	0.00084	1E-03	9E-04	0.0046	0.00455	0.02055453	0.008403512	6.455E-08	4.42E-05	4.45E-04	1.32E-04	3.27E-02	3.09E-02	3.13E-02
3525	483863.09	3849877.25	0.00192	0.00433	0.00061	0.00085	1E-03	1E-03	0.0044	0.00433	0.02003284	0.007997188	6.35E-08	4.48E-05	4.64E-04	1.34E-04	3.11E-02	2.94E-02	3.03E-02
3526	484363.09	3849877.25	0.00217	0.00474	0.00068	0.00091	0.001	0.001	0.0048	0.00474	0.02264128	0.008754428	7.079E-08	4.79E-05	4.92E-04	1.43E-04	3.42E-02	3.22E-02	3.40E-02
3527	484863.09	3849877.25	0.00241	0.00505	0.00072	0.00099	0.001	0.001	0.0051	0.00505	0.02514538	0.009326975	7.496E-08	5.21E-05	5.81E-04	1.51E-04	3.64E-02	3.43E-02	3.73E-02
3528	485363.09	3849877.25	0.00229	0.0047	0.00069	0.00097	0.001	0.001	0.0048	0.0047	0.02389333	0.008680551	7.183E-08	5.11E-05	6.71E-04	1.46E-04	3.39E-02	3.20E-02	3.54E-02
3529	485863.09	3849877.25	0.00208	0.00426	0.00067	0.00094	0.001	1E-03	0.0043	0.00426	0.02170224	0.007867903	6.975E-08	4.95E-05	6.14E-04	1.39E-04	3.07E-02	2.90E-02	3.21E-02
3530	486363.09	3849877.25	0.00195	0.00399	0.00069	0.00093	0.001	1E-03	0.0041	0.00399	0.02034585	0.007369233	7.183E-08	4.90E-05	5.25E-04	1.38E-04	2.87E-02	2.71E-02	3.00E-02
3531	486863.09	3849877.25	0.002	0.00398	0.00071	0.00095	1E-03	0.001	0.004	0.00398	0.02086754	0.007350764	7.392E-08	5.00E-05	4.60E-04	1.43E-04	2.86E-02	2.71E-02	3.04E-02
3532	487363.09	3849877.25	0.00197	0.00382	0.00072	0.00095	1E-03	0.001	0.0039	0.00382	0.02055453	0.007055256	7.496E-08	5.00E-05	4.55E-04	1.46E-04	2.75E-02	2.60E-02	2.98E-02
3533	487863.09	3849877.25	0.00194	0.00365	0.00076	0.00095	0.001	0.001	0.0037	0.00365	0.02024151	0.006741279	7.912E-08	5.00E-05	4.78E-04	1.46E-04	2.62E-02	2.48E-02	2.91E-02
3534	488363.09	3849877.25	0.00193	0.00349	0.00076	0.00097	0.001	0.001	0.0036	0.00349	0.02013717	0.006445771	7.912E-08	5.11E-05	4.83E-04	1.48E-04	2.52E-02	2.37E-02	2.87E-02

3535	488863.09	3849877.25	0.00193	0.00337	0.00074	0.00099	1E-03	0.001	0.0034	0.00337	0.02013717	0.00622414	7.704E-08	5.21E-05	4.64E-04	1.51E-04	2.43E-02	2.29E-02	2.84E-02
3536	489363.09	3849877.25	0.00193	0.00323	0.00076	0.001	0.001	0.001	0.0033	0.00323	0.02013717	0.00596557	7.912E-08	5.27E-05	4.78E-04	1.53E-04	2.33E-02	2.20E-02	2.81E-02
3537	489863.09	3849877.25	0.00191	0.00306	0.00079	0.001	0.001	0.001	0.0031	0.00306	0.0199285	0.005651593	8.224E-08	5.27E-05	5.25E-04	1.55E-04	2.21E-02	2.08E-02	2.76E-02
3538	490363.09	3849877.25	0.00188	0.0029	0.00083	0.00098	0.001	0.001	0.003	0.0029	0.01961549	0.005356084	8.641E-08	5.16E-05	5.21E-04	1.55E-04	2.09E-02	1.97E-02	2.69E-02
3539	490863.09	3849877.25	0.00188	0.00277	0.00085	0.00098	0.001	0.001	0.0028	0.00277	0.01961549	0.005115984	8.849E-08	5.16E-05	4.97E-04	1.58E-04	2.00E-02	1.88E-02	2.66E-02
3540	491363.09	3849877.25	0.00187	0.00264	0.00087	0.00099	0.001	0.001	0.0027	0.00264	0.01951115	0.004875884	9.057E-08	5.21E-05	4.78E-04	1.59E-04	1.91E-02	1.80E-02	2.63E-02
3541	491863.09	3849877.25	0.00182	0.00248	0.00089	0.001	0.001	0.001	0.0025	0.00248	0.01898946	0.004580376	9.265E-08	5.27E-05	4.74E-04	1.60E-04	1.79E-02	1.69E-02	2.52E-02
3542	492363.09	3849877.25	0.00179	0.00233	0.00091	0.00101	1E-03	0.001	0.0024	0.00233	0.01867645	0.004303337	9.474E-08	5.32E-05	4.64E-04	1.62E-04	1.69E-02	1.58E-02	2.47E-02
3543	492863.09	3849877.25	0.00175	0.00217	0.00093	0.00101	0.001	0.001	0.0022	0.00217	0.0182591	0.004007829	9.682E-08	5.32E-05	4.69E-04	1.60E-04	1.57E-02	1.48E-02	2.39E-02
3544	493363.09	3849877.25	0.00173	0.00202	0.00096	0.001	0.001	0.001	0.0021	0.00202	0.01805042	0.00373079	9.994E-08	5.27E-05	4.97E-04	1.60E-04	1.46E-02	1.37E-02	2.34E-02
3545	493863.09	3849877.25	0.00172	0.00192	0.00098	0.00102	0.001	0.001	0.002	0.00192	0.01794608	0.003546097	1.02E-07	5.37E-05	5.30E-04	1.62E-04	1.40E-02	1.31E-02	2.31E-02
3546	494363.09	3849877.25	0.00186	0.00206	0.00105	0.00108	0.001	0.001	0.0021	0.00206	0.01940681	0.003804667	1.093E-07	5.69E-05	5.72E-04	1.74E-04	1.50E-02	1.40E-02	2.50E-02
3547	494863.09	3849877.25	0.00198	0.00212	0.0011	0.00113	0.001	0.001	0.0022	0.00212	0.02065886	0.003915482	1.145E-07	5.95E-05	6.19E-04	1.84E-04	1.54E-02	1.44E-02	2.64E-02
3548	495363.09	3849877.25	0.00192	0.00195	0.0011	0.00111	0.001	0.001	0.002	0.00195	0.02003284	0.003601505	1.145E-07	5.85E-05	6.10E-04	1.79E-04	1.42E-02	1.33E-02	2.54E-02
3549	495863.09	3849877.25	0.00204	0.00203	0.00115	0.00117	0.001	0.001	0.0021	0.00203	0.02128489	0.003749259	1.197E-07	6.16E-05	6.28E-04	1.89E-04	1.48E-02	1.38E-02	2.69E-02
3550	496363.09	3849877.25	0.0021	0.00203	0.00117	0.0012	0.001	0.001	0.0021	0.00203	0.02191092	0.003749259	1.218E-07	6.32E-05	6.38E-04	1.93E-04	1.48E-02	1.38E-02	2.76E-02
3551	496863.09	3849877.25	0.00216	0.00202	0.00119	0.00123	0.001	0.001	0.0021	0.00202	0.02253694	0.00373079	1.239E-07	6.48E-05	6.71E-04	1.98E-04	1.47E-02	1.37E-02	2.82E-02
3552	497363.09	3849877.25	0.00235	0.00213	0.00124	0.00133	0.002	0.001	0.0022	0.00213	0.02451936	0.003933952	1.291E-07	7.01E-05	7.17E-04	2.10E-04	1.56E-02	1.45E-02	3.06E-02
3553	497863.09	3849877.25	0.00243	0.00215	0.00127	0.0014	0.002	0.002	0.0022	0.00215	0.02535406	0.00397089	1.322E-07	7.37E-05	7.55E-04	2.17E-04	1.57E-02	1.46E-02	3.15E-02
3554	498363.09	3849877.25	0.0024	0.00208	0.00129	0.00142	0.002	0.002	0.0022	0.00208	0.02504105	0.003841605	1.343E-07	7.48E-05	7.78E-04	2.17E-04	1.52E-02	1.41E-02	3.10E-02
3555	471363.09	3850377.25	0.00133	0.00173	0.00058	0.00085	0.001	9E-04	0.0018	0.00173	0.01387691	0.003195181	6.038E-08	4.48E-05	5.58E-04	1.31E-04	1.25E-02	1.18E-02	1.85E-02
3556	471863.09	3850377.25	0.00142	0.00222	0.00063	0.0009	0.001	1E-03	0.0023	0.00222	0.01481595	0.004100175	6.559E-08	4.74E-05	5.86E-04	1.38E-04	1.59E-02	1.51E-02	2.05E-02
3557	472363.09	3850377.25	0.00147	0.00252	0.00066	0.00092	0.001	0.001	0.0026	0.00252	0.01533764	0.004654253	6.871E-08	4.85E-05	5.81E-04	1.42E-04	1.81E-02	1.71E-02	2.18E-02
3558	472863.09	3850377.25	0.00154	0.00293	0.00071	0.00096	0.001	0.001	0.003	0.00293	0.016068	0.005411492	7.392E-08	5.06E-05	5.63E-04	1.51E-04	2.10E-02	1.99E-02	2.34E-02
3559	473363.09	3850377.25	0.00159	0.0032	0.00073	0.00099	0.001	0.001	0.0032	0.0032	0.01658969	0.005910162	7.6E-08	5.21E-05	5.39E-04	1.53E-04	2.30E-02	2.18E-02	2.44E-02
3560	473863.09	3850377.25	0.00162	0.00354	0.00075	0.00102	0.001	0.001	0.0036	0.00354	0.01690271	0.006538117	7.808E-08	5.37E-05	5.35E-04	1.58E-04	2.54E-02	2.41E-02	2.55E-02
3561	474363.09	3850377.25	0.00168	0.00392	0.00079	0.00105	0.001	0.001	0.004	0.00392	0.01752873	0.007239949	8.224E-08	5.53E-05	5.49E-04	1.62E-04	2.81E-02	2.67E-02	2.69E-02
3562	474863.09	3850377.25	0.00172	0.00436	0.00082	0.00106	0.001	0.001	0.0044	0.00436	0.01794608	0.008052596	8.537E-08	5.58E-05	5.81E-04	1.65E-04	3.12E-02	2.96E-02	2.83E-02
3563	475363.09	3850377.25	0.00179	0.00488	0.00086	0.00107	0.001	0.001	0.0049	0.00488	0.01867645	0.009012997	8.953E-08	5.64E-05	6.14E-04	1.65E-04	3.49E-02	3.32E-02	3.02E-02
3564	475863.09	3850377.25	0.00194	0.00561	0.00086	0.0011	0.001	0.001	0.0057	0.00561	0.02024151	0.010361253	8.953E-08	5.79E-05	6.38E-04	1.66E-04	4.02E-02	3.81E-02	3.35E-02
3565	476363.09	3850377.25	0.00214	0.00651	0.00081	0.00114	0.001	0.001	0.0066	0.00651	0.02232827	0.012023486	8.433E-08	6.00E-05	6.56E-04	1.70E-04	4.68E-02	4.43E-02	3.78E-02
3566	476863.09	3850377.25	0.0024	0.00785	0.00075	0.00116	0.001	0.001	0.008	0.00785	0.02504105	0.014498367	7.808E-08	6.11E-05	6.61E-04	1.74E-04	5.65E-02	5.34E-02	4.36E-02
3567	477363.09	3850377.25	0.00276	0.01014	0.00077	0.00115	0.001	0.001	0.0103	0.01014	0.0287972	0.018727826	8.016E-08	6.06E-05	6.47E-04	1.77E-04	7.28E-02	6.90E-02	5.23E-02
3568	477863.09	3850377.25	0.00357	0.0152	0.00084	0.00113	0.001	0.001	0.0154	0.0152	0.03724856	0.02807327	8.745E-08	5.95E-05	6.28E-04	1.72E-04	1.09E-01	1.03E-01	7.17E-02
3569	478363.09	3850377.25	0.00685	0.03571	0.00081	0.00112	0.001	0.001	0.0365	0.03571	0.07147132	0.065953716	8.433E-08	5.90E-05	6.05E-04	1.65E-04	2.58E-01	2.43E-01	1.54E-01
3570	478863.09	3850377.25	0.04112	0.20987	0.00074	0.0012	0.001	0.001	0.2043	0.20987	0.42903659	0.387614291	7.704E-08	6.32E-05	6.24E-04	1.74E-04	1.45E+00	1.43E+00	8.38E-01
3571	479363.09	3850377.25	0.01714	0.05282	0.00072	0.00122	0.001	0.001	0.0526	0.05282	0.17883481	0.097554614	7.496E-08	6.43E-05	6.61E-04	1.87E-04	3.73E-01	3.59E-01	2.91E-01
3572	479863.09	3850377.25	0.01073	0.02921	0.0007	0.00114	0.001	0.001	0.0292	0.02921	0.11195434	0.053948699	7.287E-08	6.00E-05	6.61E-04	1.73E-04	2.07E-01	1.99E-01	1.75E-01
3573	480363.09	3850377.25	0.00794	0.02013	0.00074	0.00112	0.001	0.001	0.0202	0.02013	0.08284413	0.037178614	7.704E-08	5.90E-05	5.96E-04	1.69E-04	1.43E-01	1.37E-01	1.27E-01
3574	480863.09	3850377.25	0.00621	0.01598	0.00076	0.00112	0.001	0.001	0.0161	0.01598	0.06479371	0.029513872	7.912E-08	5.90E-05	5.44E-04	1.72E-04	1.14E-01	1.09E-01	1.00E-01
3575	481363.09	3850377.25	0.00471	0.01105	0.00071	0.0011	0.001	0.001	0.0112	0.01105	0.04914305	0.020408529	7.392E-08	5.79E-05	5.77E-04	1.62E-04	7.91E-02	7.51E-02	7.44E-02
3576	481863.09	3850377.25	0.00417	0.00948	0.00079	0.00107	0.001	0.001	0.0096	0.00948	0.04350882	0.017508855	8.224E-08	5.64E-05	6.80E-04	1.66E-04	6.77E-02	6.45E-02	6.51E-02
3577	482363.09	3850377.25	0.00374	0.00815	0.00077	0.00108	0.001	0.001	0.0083	0.00815	0.0390223	0.015052444	8.016E-08	5.69E-05	5.72E-04	1.62E-04	5.85E-02	5.54E-02	5.79E-02
3578	482863.09	3850377.25	0.00292	0.00649	0.00073	0.001	0.001	0.001	0.0066	0.00649	0.03046661	0.011986548	7.6E-08	5.27E-05	4.92E-04	1.52E-04	4.66E-02	4.41E-02	4.56E-02
3579	483363.09	3850377.25	0.00249	0.00555	0.00071	0.00096	0.001	0.001	0.0056	0.00555	0.02598009	0.010250437	7.392E-08	5.06E-05	4.83E-04	1.49E-04	3.99E-02	3.77E-02	3.91E-02
3580	483863.09	3850377.25	0.00249	0.0054	0.00069	0.001	0.001	0.001	0.0055	0.0054	0.02598009	0.009973399	7.183E-08	5.27E-05	5.16E-04	1.55E-04	3.89E-02	3.67E-02	3.89E-02
3581	484363.09	3850377.25	0.00262	0.00546	0.00075	0.00104	0.001	0.001	0.0056	0.00546	0.02733648	0.010084214	7.808E-08	5.48E-05	5.63E-04	1.60E-04	3.94E-02	3.71E-02	4.05E-02
3582	484863.09	3850377.25	0.00272	0.00552	0.00077	0.00109	0.001	0.001	0.0056	0.00552	0.02837985	0.01019503	8.016E-08	5.74E-05	5.91E-04	1.67E-04	3.98E-02	3.75E-02	4.17E-02
3583	485363.09	3850377.25	0.00266	0.00521	0.00076	0.00111	0.002	0.001	0.0053	0.00521	0.02775383	0.009622483	7.912E-08	5.85E-05	7.08E-04	1.65E-04	3.76E-02	3.54E-02	4.05E-02
3584	485863.09	3850377.25	0.00248	0.00479	0.00077	0.00107	0.002	0.001	0.0049	0.00479	0.02587575	0.008846774	8.016E-08	5.64E-05	7.50E-04	1.60E-04	3.45E-02	3.26E-02	3.76E-02
3585	486363.09	3850377.25	0.0024	0.00455	0.00076	0.00109	0.001	0.001	0.0046	0.00455	0.02504105	0.008403512	7.912E-08	5.74E-05	6.75E-04	1.63E-04	3.28E-02	3.09E-02	3.62E-02
3586	486863.09	3850377.25	0.00234	0.00434	0.00079	0.0011	0.001	0.001	0.0044	0.00434	0.02441502	0.008015657	8.224E-08	5.79E-05	5.35E-04	1.63E-04	3.12E-02	2.95E-02	3.49E-02
3587	487363.09	3850377.25	0.00225	0.00407	0.00086	0.00108	0.001	0.001	0.0041	0.00407	0.02347598	0.007516987	8.953E-08	5.69E-05	4.97E-04	1.63E-04	2.93E-02	2.77E-02	3.34E-02
3588	487863.09	3850377.25	0.00222	0.0039	0.00087	0.00109	0.001	0.001	0.004	0.0039	0.02316297	0.00720301	9.057E-08	5.74E-05	5.44E-04	1.65E-04	2.81E-02	2.65E-02	3.27E-02
3589	488363.09	3850377.25	0.0022	0.00372	0.00083	0.0011	0.001	0.001	0.0038	0.00372	0.02295429	0.006870564	8.641E-08	5.79E-05	5.21E-04	1.69E-04	2.69E-02	2.53E-02	3.21E-02
3590	488863.09	3850377.25	0.0022	0.00357	0.00085	0.00112	0.001	0.001	0.0036	0.00357	0.02295429	0.006593525	8.849E-08	5.90E-05	5.02E-04	1.72E-04	2.58E-02	2.43E-02	3.18E-02
3591	489363.09	3850377.25	0.00219	0.0034	0.00089	0.00114	0.001	0.001	0.0035	0.0034	0.02284995	0.006279547	9.265E-08	6.00E-05	5.35E-04	1.74E-04	2.46E-02	2.31E-02	3.14E-02
3592	489863.09	3850377.25	0.00217	0.00321	0.00095	0.00113	0.001	0.001	0.0033	0.00321	0.02264128	0.005928631	9.89E-08	5.95E-05	5.81E-04	1.76E-04	2.32E-02	2.18E-02	3.08E-02

3593	490363.09	3850377.25	0.00214	0.00304	0.00099	0.00113	0.001	0.001	0.0031	0.00304	0.02232827	0.005614654	1.031E-07	5.95E-05	5.81E-04	1.80E-04	2.20E-02	2.07E-02	3.01E-02
3594	490863.09	3850377.25	0.00214	0.0029	0.001	0.00114	0.001	0.001	0.003	0.0029	0.02232827	0.005356084	1.041E-07	6.00E-05	5.35E-04	1.81E-04	2.10E-02	1.97E-02	2.98E-02
3595	491363.09	3850377.25	0.00213	0.00276	0.00101	0.00115	0.001	0.001	0.0028	0.00276	0.02222393	0.005097515	1.051E-07	6.06E-05	5.39E-04	1.84E-04	2.01E-02	1.88E-02	2.94E-02
3596	491863.09	3850377.25	0.00208	0.00258	0.00104	0.00116	0.001	0.001	0.0026	0.00258	0.02170224	0.004765068	1.083E-07	6.11E-05	5.11E-04	1.84E-04	1.87E-02	1.75E-02	2.84E-02
3597	492363.09	3850377.25	0.00202	0.0024	0.00107	0.00116	0.001	0.001	0.0025	0.0024	0.02107621	0.004432622	1.114E-07	6.11E-05	5.11E-04	1.84E-04	1.74E-02	1.63E-02	2.74E-02
3598	492863.09	3850377.25	0.002	0.00227	0.00111	0.00116	0.001	0.001	0.0023	0.00227	0.02086754	0.004192521	1.156E-07	6.11E-05	5.44E-04	1.86E-04	1.65E-02	1.54E-02	2.69E-02
3599	493363.09	3850377.25	0.00198	0.00213	0.00113	0.00116	0.001	0.001	0.0022	0.00213	0.02065886	0.003933952	1.176E-07	6.11E-05	5.72E-04	1.84E-04	1.55E-02	1.45E-02	2.64E-02
3600	493863.09	3850377.25	0.00206	0.00216	0.00117	0.00121	0.001	0.001	0.0022	0.00216	0.02149356	0.003989359	1.218E-07	6.37E-05	6.28E-04	1.93E-04	1.57E-02	1.47E-02	2.74E-02
3601	494363.09	3850377.25	0.00213	0.00215	0.00122	0.00124	0.001	0.001	0.0022	0.00215	0.02222393	0.00397089	1.27E-07	6.53E-05	6.61E-04	2.00E-04	1.57E-02	1.46E-02	2.82E-02
3602	494863.09	3850377.25	0.00226	0.0022	0.00126	0.00129	0.001	0.001	0.0023	0.0022	0.02358032	0.004063236	1.312E-07	6.79E-05	6.94E-04	2.10E-04	1.61E-02	1.50E-02	2.97E-02
3603	495363.09	3850377.25	0.00241	0.00226	0.00131	0.00135	0.002	0.002	0.0023	0.00226	0.02514538	0.004174052	1.364E-07	7.11E-05	7.13E-04	2.19E-04	1.66E-02	1.54E-02	3.15E-02
3604	495863.09	3850377.25	0.00237	0.00216	0.0013	0.00135	0.002	0.002	0.0022	0.00216	0.02472803	0.003989359	1.353E-07	7.11E-05	7.08E-04	2.18E-04	1.58E-02	1.47E-02	3.08E-02
3605	496363.09	3850377.25	0.00252	0.00222	0.00134	0.00141	0.002	0.002	0.0023	0.00222	0.0262931	0.004100175	1.395E-07	7.43E-05	7.46E-04	2.25E-04	1.63E-02	1.51E-02	3.26E-02
3606	496863.09	3850377.25	0.00265	0.00226	0.00139	0.00149	0.002	0.002	0.0024	0.00226	0.02764949	0.004174052	1.447E-07	7.85E-05	7.92E-04	2.35E-04	1.67E-02	1.54E-02	3.42E-02
3607	497363.09	3850377.25	0.0027	0.00225	0.00142	0.00156	0.002	0.002	0.0023	0.00225	0.02817118	0.004155583	1.478E-07	8.22E-05	8.25E-04	2.39E-04	1.66E-02	1.53E-02	3.48E-02
3608	497863.09	3850377.25	0.0027	0.0022	0.00144	0.00159	0.002	0.002	0.0023	0.0022	0.02817118	0.004063236	1.499E-07	8.38E-05	8.63E-04	2.42E-04	1.62E-02	1.50E-02	3.47E-02
3609	498363.09	3850377.25	0.0027	0.00215	0.00147	0.00162	0.002	0.002	0.0022	0.00215	0.02817118	0.00397089	1.53E-07	8.53E-05	9.00E-04	2.43E-04	1.58E-02	1.46E-02	3.46E-02
3610	471363.09	3850877.25	0.00144	0.00179	0.00062	0.00092	0.001	0.001	0.0018	0.00179	0.01502463	0.003305997	6.455E-08	4.85E-05	5.63E-04	1.42E-04	1.29E-02	1.22E-02	1.98E-02
3611	471863.09	3850877.25	0.00148	0.00199	0.00064	0.00094	0.001	0.001	0.002	0.00199	0.01544198	0.003675382	6.663E-08	4.95E-05	5.91E-04	1.45E-04	1.43E-02	1.35E-02	2.07E-02
3612	472363.09	3850877.25	0.00153	0.00227	0.00068	0.00097	0.001	0.001	0.0023	0.00227	0.01596367	0.004192521	7.079E-08	5.11E-05	6.19E-04	1.49E-04	1.63E-02	1.54E-02	2.18E-02
3613	472863.09	3850877.25	0.00158	0.00255	0.00073	0.00099	0.001	0.001	0.0026	0.00255	0.01648536	0.00470966	7.6E-08	5.21E-05	6.38E-04	1.53E-04	1.84E-02	1.73E-02	2.30E-02
3614	473363.09	3850877.25	0.00162	0.00262	0.00073	0.001	0.001	0.001	0.0027	0.00262	0.01690271	0.004838945	7.6E-08	5.27E-05	6.33E-04	1.56E-04	1.89E-02	1.78E-02	2.37E-02
3615	473863.09	3850877.25	0.00169	0.00298	0.00078	0.00104	0.001	0.001	0.003	0.00298	0.01763307	0.005503839	8.12E-08	5.48E-05	6.14E-04	1.63E-04	2.14E-02	2.03E-02	2.51E-02
3616	474363.09	3850877.25	0.00172	0.00329	0.00082	0.0011	0.001	0.001	0.0033	0.00329	0.01794608	0.006076385	8.537E-08	5.79E-05	5.96E-04	1.69E-04	2.36E-02	2.24E-02	2.61E-02
3617	474863.09	3850877.25	0.00178	0.00359	0.00085	0.00113	0.001	0.001	0.0036	0.00359	0.01857211	0.006630463	8.849E-08	5.95E-05	5.91E-04	1.73E-04	2.58E-02	2.44E-02	2.74E-02
3618	475363.09	3850877.25	0.00184	0.00393	0.00088	0.00116	0.001	0.001	0.004	0.00393	0.01919814	0.007258418	9.161E-08	6.11E-05	6.05E-04	1.79E-04	2.82E-02	2.67E-02	2.88E-02
3619	475863.09	3850877.25	0.00191	0.00434	0.00093	0.00118	0.001	0.001	0.0044	0.00434	0.0199285	0.008015657	9.682E-08	6.22E-05	6.38E-04	1.81E-04	3.10E-02	2.95E-02	3.03E-02
3620	476363.09	3850877.25	0.00208	0.00487	0.00096	0.00119	0.001	0.001	0.0049	0.00487	0.02170224	0.008994528	9.994E-08	6.27E-05	6.71E-04	1.81E-04	3.48E-02	3.31E-02	3.33E-02
3621	476863.09	3850877.25	0.00223	0.00545	0.00094	0.00123	0.001	0.001	0.0055	0.00545	0.02326731	0.010065745	9.786E-08	6.48E-05	6.99E-04	1.84E-04	3.92E-02	3.71E-02	3.64E-02
3622	477363.09	3850877.25	0.0024	0.00629	0.00087	0.00127	0.002	0.001	0.0064	0.00629	0.02504105	0.011617162	9.057E-08	6.69E-05	7.17E-04	1.90E-04	4.54E-02	4.28E-02	4.03E-02
3623	477863.09	3850877.25	0.00266	0.00759	0.00085	0.00128	0.002	0.001	0.0077	0.00759	0.02775383	0.014018166	8.849E-08	6.74E-05	7.13E-04	1.96E-04	5.47E-02	5.16E-02	4.58E-02
3624	478363.09	3850877.25	0.00314	0.00994	0.00093	0.00127	0.001	0.001	0.0101	0.00994	0.03276204	0.018358441	9.682E-08	6.69E-05	6.94E-04	1.93E-04	7.14E-02	6.76E-02	5.59E-02
3625	478863.09	3850877.25	0.00419	0.0146	0.00092	0.00125	0.001	0.001	0.0149	0.0146	0.04371749	0.026965115	9.578E-08	6.58E-05	6.80E-04	1.86E-04	1.05E-01	9.93E-02	7.76E-02
3626	479363.09	3850877.25	0.00748	0.03208	0.00084	0.00131	0.001	0.001	0.0331	0.03208	0.07804459	0.059249376	8.745E-08	6.90E-05	6.85E-04	1.97E-04	2.35E-01	2.18E-01	1.55E-01
3627	479863.09	3850877.25	0.04837	0.25187	0.0008	0.00136	0.002	0.001	0.2402	0.25187	0.50468142	0.465185169	8.328E-08	7.16E-05	7.08E-04	2.07E-04	1.70E+00	1.71E+00	9.60E-01
3628	480363.09	3850877.25	0.01413	0.0541	0.00082	0.00131	0.002	0.001	0.0541	0.0541	0.14742916	0.099918679	8.537E-08	6.90E-05	7.13E-04	2.00E-04	3.83E-01	3.68E-01	2.64E-01
3629	480863.09	3850877.25	0.00872	0.02965	0.00092	0.00129	0.001	0.001	0.0298	0.02965	0.09098247	0.054761346	9.578E-08	6.79E-05	6.66E-04	2.03E-04	2.11E-01	2.02E-01	1.56E-01
3630	481363.09	3850877.25	0.00672	0.0201	0.00087	0.0013	0.001	0.001	0.0203	0.0201	0.07011493	0.037123206	9.057E-08	6.85E-05	6.10E-04	1.98E-04	1.44E-01	1.37E-01	1.15E-01
3631	481863.09	3850877.25	0.00576	0.01446	0.00093	0.00134	0.001	0.001	0.0146	0.01446	0.06009851	0.026706545	9.682E-08	7.06E-05	6.85E-04	2.04E-04	1.04E-01	9.83E-02	9.30E-02
3632	482363.09	3850877.25	0.00483	0.01064	0.00092	0.00126	0.002	0.001	0.0108	0.01064	0.05039511	0.019651289	9.578E-08	6.64E-05	7.64E-04	1.90E-04	7.64E-02	7.24E-02	7.51E-02
3633	482863.09	3850877.25	0.00405	0.0086	0.00085	0.00123	0.001	0.001	0.0087	0.0086	0.04225677	0.015883561	8.849E-08	6.48E-05	6.00E-04	1.81E-04	6.19E-02	5.85E-02	6.24E-02
3634	483363.09	3850877.25	0.00331	0.00704	0.00083	0.00117	0.001	0.001	0.0072	0.00704	0.03453578	0.013002357	8.641E-08	6.16E-05	5.30E-04	1.73E-04	5.08E-02	4.79E-02	5.12E-02
3635	483863.09	3850877.25	0.00308	0.00641	0.00079	0.00116	0.001	0.001	0.0065	0.00641	0.03213601	0.011838794	8.224E-08	6.11E-05	5.63E-04	1.77E-04	4.63E-02	4.36E-02	4.75E-02
3636	484363.09	3850877.25	0.00314	0.0063	0.00086	0.00121	0.001	0.001	0.0064	0.0063	0.03276204	0.011635632	8.953E-08	6.37E-05	6.61E-04	1.84E-04	4.56E-02	4.28E-02	4.80E-02
3637	484863.09	3850877.25	0.00306	0.00589	0.00084	0.00122	0.001	0.001	0.006	0.00589	0.03192733	0.010878392	8.745E-08	6.43E-05	6.38E-04	1.86E-04	4.26E-02	4.01E-02	4.62E-02
3638	485363.09	3850877.25	0.00301	0.00561	0.00087	0.00125	0.002	0.001	0.0057	0.00561	0.03140565	0.010361253	9.057E-08	6.58E-05	7.22E-04	1.89E-04	4.06E-02	3.81E-02	4.52E-02
3639	485863.09	3850877.25	0.0028	0.00506	0.00088	0.00121	0.002	0.001	0.0052	0.00506	0.02921455	0.009345444	9.161E-08	6.37E-05	8.25E-04	1.86E-04	3.66E-02	3.44E-02	4.18E-02
3640	486363.09	3850877.25	0.00279	0.00487	0.00087	0.00127	0.002	0.001	0.005	0.00487	0.02911022	0.008994528	9.057E-08	6.69E-05	8.07E-04	1.89E-04	3.52E-02	3.31E-02	4.13E-02
3641	486863.09	3850877.25	0.0027	0.0046	0.00096	0.00128	0.001	0.001	0.0047	0.0046	0.02817118	0.008495858	9.994E-08	6.74E-05	6.33E-04	1.87E-04	3.33E-02	3.13E-02	3.96E-02
3642	487363.09	3850877.25	0.00258	0.0043	0.00098	0.00126	0.001	0.001	0.0044	0.0043	0.02691912	0.00794178	1.02E-07	6.64E-05	5.53E-04	1.87E-04	3.11E-02	2.92E-02	3.75E-02
3643	487863.09	3850877.25	0.00253	0.00409	0.00096	0.00126	0.001	0.001	0.0042	0.00409	0.02639744	0.007553926	9.994E-08	6.64E-05	5.96E-04	1.91E-04	2.96E-02	2.78E-02	3.66E-02
3644	488363.09	3850877.25	0.00254	0.0039	0.00095	0.00128	0.001	0.001	0.004	0.0039	0.02650177	0.00720301	9.89E-08	6.74E-05	6.05E-04	1.96E-04	2.83E-02	2.65E-02	3.63E-02
3645	488863.09	3850877.25	0.00253	0.00371	0.00101	0.00131	0.001	0.001	0.0038	0.00371	0.02639744	0.006852094	1.051E-07	6.90E-05	5.58E-04	2.00E-04	2.69E-02	2.52E-02	3.58E-02
3646	489363.09	3850877.25	0.00253	0.00354	0.00111	0.00132	0.001	0.001	0.0036	0.00354	0.02639744	0.006538117	1.156E-07	6.95E-05	6.05E-04	2.04E-04	2.57E-02	2.41E-02	3.55E-02
3647	489863.09	3850877.25	0.00252	0.00336	0.00116	0.00134	0.001	0.001	0.0035	0.00336	0.0262931	0.00620567	1.208E-07	7.06E-05	6.47E-04	2.08E-04	2.44E-02	2.28E-02	3.50E-02
3648	490363.09	3850877.25	0.00252	0.00321	0.00116	0.00135	0.001	0.002	0.0033	0.00321	0.0262931	0.005928631	1.208E-07	7.11E-05	6.24E-04	2.12E-04	2.34E-02	2.18E-02	3.47E-02
3649	490863.09	3850877.25	0.00251	0.00306	0.00117	0.00136	0.001	0.002	0.0032	0.00306	0.02618876	0.005651593	1.218E-07	7.16E-05	6.00E-04	2.17E-04	2.23E-02	2.08E-02	3.42E-02
3650	491363.09	3850877.25	0.00246	0.00289	0.00122	0.00137	0.001	0.002	0.003	0.00289	0.02566707	0.005337615	1.27E-07	7.22E-05	6.05E-04	2.17E-04	2.11E-02	1.97E-02	3.34E-02

3651	491863.09	3850877.25	0.00242	0.00271	0.00126	0.00138	0.001	0.002	0.0028	0.00271	0.02524972	0.005005169	1.312E-07	7.27E-05	5.63E-04	2.17E-04	1.98E-02	1.84E-02	3.25E-02
3652	492363.09	3850877.25	0.00239	0.00255	0.0013	0.00137	0.001	0.002	0.0026	0.00255	0.02493671	0.00470966	1.353E-07	7.22E-05	5.91E-04	2.17E-04	1.86E-02	1.73E-02	3.18E-02
3653	492863.09	3850877.25	0.00237	0.00243	0.00134	0.00137	0.001	0.002	0.0025	0.00243	0.02472803	0.004488029	1.395E-07	7.22E-05	6.33E-04	2.19E-04	1.78E-02	1.65E-02	3.14E-02
3654	493363.09	3850877.25	0.00238	0.00235	0.00135	0.00139	0.001	0.002	0.0024	0.00235	0.02483237	0.004340275	1.405E-07	7.32E-05	6.89E-04	2.22E-04	1.72E-02	1.60E-02	3.14E-02
3655	493863.09	3850877.25	0.0025	0.00237	0.00139	0.00144	0.002	0.002	0.0025	0.00237	0.02608442	0.004377214	1.447E-07	7.59E-05	7.46E-04	2.31E-04	1.74E-02	1.61E-02	3.28E-02
3656	494363.09	3850877.25	0.00257	0.00233	0.00142	0.00146	0.002	0.002	0.0024	0.00233	0.02681479	0.004303337	1.478E-07	7.69E-05	7.64E-04	2.36E-04	1.71E-02	1.58E-02	3.35E-02
3657	494863.09	3850877.25	0.00271	0.00236	0.00147	0.00152	0.002	0.002	0.0025	0.00236	0.02827551	0.004358745	1.53E-07	8.01E-05	8.02E-04	2.46E-04	1.74E-02	1.60E-02	3.51E-02
3658	495363.09	3850877.25	0.00283	0.0024	0.0015	0.00159	0.002	0.002	0.0025	0.0024	0.02952757	0.004432622	1.562E-07	8.38E-05	8.11E-04	2.56E-04	1.77E-02	1.63E-02	3.65E-02
3659	495863.09	3850877.25	0.00287	0.00235	0.00152	0.0016	0.002	0.002	0.0025	0.00235	0.02994492	0.004340275	1.582E-07	8.43E-05	8.30E-04	2.57E-04	1.74E-02	1.60E-02	3.69E-02
3660	496363.09	3850877.25	0.00294	0.00235	0.00156	0.00167	0.002	0.002	0.0025	0.00235	0.03067528	0.004340275	1.624E-07	8.80E-05	8.72E-04	2.62E-04	1.74E-02	1.60E-02	3.76E-02
3661	496863.09	3850877.25	0.00305	0.00237	0.00161	0.00177	0.002	0.002	0.0025	0.00237	0.031823	0.004377214	1.676E-07	9.32E-05	9.24E-04	2.70E-04	1.76E-02	1.61E-02	3.89E-02
3662	497363.09	3850877.25	0.00306	0.00233	0.00163	0.00181	0.002	0.002	0.0024	0.00233	0.03192733	0.004303337	1.697E-07	9.53E-05	9.71E-04	2.72E-04	1.73E-02	1.58E-02	3.90E-02
3663	497863.09	3850877.25	0.00303	0.00226	0.00164	0.00183	0.002	0.002	0.0024	0.00226	0.03161432	0.004174052	1.707E-07	9.64E-05	1.01E-03	2.72E-04	1.68E-02	1.54E-02	3.86E-02
3664	498363.09	3850877.25	0.003	0.0022	0.00166	0.00181	0.002	0.002	0.0023	0.0022	0.03130131	0.004063236	1.728E-07	9.53E-05	1.04E-03	2.70E-04	1.63E-02	1.50E-02	3.81E-02
3665	471363.09	3851377.25	0.00152	0.00174	0.00065	0.00101	0.001	0.001	0.0018	0.00174	0.01585933	0.003213651	6.767E-08	5.32E-05	5.81E-04	1.52E-04	1.25E-02	1.18E-02	2.06E-02
3666	471863.09	3851377.25	0.00159	0.00202	0.0007	0.00106	0.001	0.001	0.0021	0.00202	0.01658969	0.00373079	7.287E-08	5.58E-05	6.05E-04	1.60E-04	1.46E-02	1.37E-02	2.20E-02
3667	472363.09	3851377.25	0.00163	0.00209	0.00071	0.00107	0.001	0.001	0.0021	0.00209	0.01700704	0.003860075	7.392E-08	5.64E-05	6.24E-04	1.62E-04	1.50E-02	1.42E-02	2.25E-02
3668	472863.09	3851377.25	0.00166	0.00218	0.00072	0.00106	0.001	0.001	0.0022	0.00218	0.01732006	0.004026298	7.496E-08	5.58E-05	6.42E-04	1.62E-04	1.57E-02	1.48E-02	2.31E-02
3669	473363.09	3851377.25	0.00167	0.00209	0.00072	0.00104	0.001	0.001	0.0021	0.00209	0.01742439	0.003860075	7.496E-08	5.48E-05	6.61E-04	1.60E-04	1.51E-02	1.42E-02	2.30E-02
3670	473863.09	3851377.25	0.00172	0.00225	0.00075	0.00106	0.001	0.001	0.0023	0.00225	0.01794608	0.004155583	7.808E-08	5.58E-05	6.85E-04	1.63E-04	1.62E-02	1.53E-02	2.39E-02
3671	474363.09	3851377.25	0.00181	0.00268	0.00082	0.0011	0.001	0.001	0.0027	0.00268	0.01888512	0.004949761	8.537E-08	5.79E-05	6.99E-04	1.72E-04	1.93E-02	1.82E-02	2.58E-02
3672	474863.09	3851377.25	0.00188	0.00305	0.00088	0.00115	0.001	0.001	0.0031	0.00305	0.01961549	0.005633123	9.161E-08	6.06E-05	6.80E-04	1.80E-04	2.20E-02	2.07E-02	2.74E-02
3673	475363.09	3851377.25	0.00193	0.00334	0.00093	0.00121	0.001	0.001	0.0034	0.00334	0.02013717	0.006168732	9.682E-08	6.37E-05	6.56E-04	1.87E-04	2.40E-02	2.27E-02	2.85E-02
3674	475863.09	3851377.25	0.00201	0.00363	0.00095	0.00126	0.001	0.001	0.0037	0.00363	0.02097188	0.00670434	9.89E-08	6.64E-05	6.47E-04	1.93E-04	2.61E-02	2.47E-02	3.00E-02
3675	476363.09	3851377.25	0.00213	0.00397	0.00099	0.00129	0.001	0.001	0.004	0.00397	0.02222393	0.007332295	1.031E-07	6.79E-05	6.66E-04	2.00E-04	2.86E-02	2.70E-02	3.20E-02
3676	476863.09	3851377.25	0.00225	0.00436	0.00104	0.00131	0.002	0.001	0.0044	0.00436	0.02347598	0.008052596	1.083E-07	6.90E-05	7.03E-04	2.01E-04	3.12E-02	2.96E-02	3.41E-02
3677	477363.09	3851377.25	0.00233	0.0048	0.00108	0.00134	0.002	0.001	0.0049	0.0048	0.02431068	0.008865243	1.124E-07	7.06E-05	7.41E-04	2.04E-04	3.44E-02	3.26E-02	3.60E-02
3678	477863.09	3851377.25	0.00246	0.00541	0.00102	0.00138	0.002	0.001	0.0055	0.00541	0.02566707	0.009991868	1.062E-07	7.27E-05	7.74E-04	2.08E-04	3.90E-02	3.68E-02	3.90E-02
3679	478363.09	3851377.25	0.00263	0.00625	0.00095	0.00142	0.002	0.002	0.0064	0.00625	0.02744081	0.011543285	9.89E-08	7.48E-05	7.88E-04	2.17E-04	4.53E-02	4.25E-02	4.29E-02
3680	478863.09	3851377.25	0.00285	0.00759	0.00103	0.00144	0.002	0.002	0.0077	0.00759	0.02973624	0.014018166	1.072E-07	7.59E-05	7.74E-04	2.18E-04	5.46E-02	5.16E-02	4.78E-02
3681	479363.09	3851377.25	0.00318	0.0098	0.00105	0.00142	0.002	0.002	0.01	0.0098	0.03317939	0.018099872	1.093E-07	7.48E-05	7.50E-04	2.11E-04	7.06E-02	6.66E-02	5.62E-02
3682	479863.09	3851377.25	0.00393	0.01434	0.00095	0.00145	0.002	0.002	0.0146	0.01434	0.04100471	0.026484914	9.89E-08	7.64E-05	7.46E-04	2.25E-04	1.04E-01	9.75E-02	7.46E-02
3683	480363.09	3851377.25	0.00669	0.03118	0.00092	0.00153	0.002	0.002	0.0317	0.03118	0.06980192	0.057587142	9.578E-08	8.06E-05	7.69E-04	2.35E-04	2.24E-01	2.12E-01	1.41E-01
3684	480863.09	3851377.25	0.04734	0.27503	0.00098	0.00151	0.002	0.002	0.2806	0.27503	0.49393464	0.507959968	1.02E-07	7.95E-05	7.83E-04	2.34E-04	1.99E+00	1.87E+00	1.12E+00
3685	481363.09	3851377.25	0.01275	0.05031	0.00105	0.00148	0.002	0.002	0.051	0.05031	0.13303056	0.092918831	1.093E-07	7.80E-05	7.46E-04	2.35E-04	3.61E-01	3.42E-01	2.46E-01
3686	481863.09	3851377.25	0.00784	0.02429	0.00107	0.00154	0.001	0.002	0.0246	0.02429	0.08180075	0.044861825	1.114E-07	8.11E-05	6.75E-04	2.39E-04	1.75E-01	1.65E-01	1.37E-01
3687	482363.09	3851377.25	0.00623	0.01588	0.00116	0.00155	0.002	0.002	0.0161	0.01588	0.06500238	0.02932918	1.208E-07	8.16E-05	7.78E-04	2.39E-04	1.14E-01	1.08E-01	1.01E-01
3688	482863.09	3851377.25	0.00505	0.01094	0.00099	0.00152	0.002	0.002	0.0111	0.01094	0.05269053	0.020205367	1.031E-07	8.01E-05	8.39E-04	2.19E-04	7.89E-02	7.44E-02	7.86E-02
3689	483363.09	3851377.25	0.00405	0.00837	0.00099	0.0014	0.001	0.001	0.0085	0.00837	0.04225677	0.015458768	1.031E-07	7.37E-05	6.33E-04	2.04E-04	6.05E-02	5.69E-02	6.22E-02
3690	483863.09	3851377.25	0.00358	0.00714	0.00093	0.00136	0.001	0.001	0.0073	0.00714	0.03735289	0.013187049	9.682E-08	7.16E-05	5.96E-04	2.03E-04	5.17E-02	4.86E-02	5.46E-02
3691	484363.09	3851377.25	0.00367	0.00709	0.00097	0.00145	0.002	0.002	0.0073	0.00709	0.03829193	0.013094703	1.01E-07	7.64E-05	7.55E-04	2.18E-04	5.14E-02	4.82E-02	5.57E-02
3692	484863.09	3851377.25	0.00323	0.00591	0.0009	0.00132	0.002	0.001	0.006	0.00591	0.03370107	0.010915331	9.37E-08	6.95E-05	7.03E-04	2.03E-04	4.28E-02	4.02E-02	4.82E-02
3693	485363.09	3851377.25	0.00343	0.00602	0.00102	0.00146	0.002	0.002	0.0062	0.00602	0.03578783	0.011118493	1.062E-07	7.69E-05	7.46E-04	2.26E-04	4.38E-02	4.09E-02	5.08E-02
3694	485863.09	3851377.25	0.00324	0.00536	0.00101	0.00144	0.002	0.002	0.0055	0.00536	0.03380541	0.009899522	1.051E-07	7.59E-05	8.91E-04	2.18E-04	3.89E-02	3.64E-02	4.73E-02
3695	486363.09	3851377.25	0.00327	0.00519	0.00107	0.00152	0.002	0.002	0.0053	0.00519	0.03411843	0.009585544	1.114E-07	8.01E-05	9.61E-04	2.24E-04	3.77E-02	3.53E-02	4.74E-02
3696	486863.09	3851377.25	0.00315	0.00482	0.00111	0.00151	0.002	0.002	0.005	0.00482	0.03286637	0.008902182	1.156E-07	7.95E-05	7.64E-04	2.21E-04	3.51E-02	3.28E-02	4.51E-02
3697	487363.09	3851377.25	0.0029	0.00434	0.00109	0.00145	0.001	0.002	0.0045	0.00434	0.03025793	0.008015657	1.135E-07	7.64E-05	6.10E-04	2.18E-04	3.16E-02	2.95E-02	4.13E-02
3698	487863.09	3851377.25	0.00297	0.00423	0.00113	0.0015	0.001	0.002	0.0044	0.00423	0.03098829	0.007812496	1.176E-07	7.90E-05	6.61E-04	2.28E-04	3.09E-02	2.88E-02	4.19E-02
3699	488363.09	3851377.25	0.003	0.00405	0.00118	0.00152	0.001	0.002	0.0042	0.00405	0.03130131	0.007480049	1.228E-07	8.01E-05	6.61E-04	2.36E-04	2.95E-02	2.75E-02	4.18E-02
3700	488863.09	3851377.25	0.003	0.00385	0.00132	0.00157	0.001	0.002	0.004	0.00385	0.03130131	0.007110664	1.374E-07	8.27E-05	6.19E-04	2.42E-04	2.81E-02	2.62E-02	4.13E-02
3701	489363.09	3851377.25	0.003	0.00366	0.00137	0.0016	0.001	0.002	0.0038	0.00366	0.03130131	0.006759748	1.426E-07	8.43E-05	6.85E-04	2.48E-04	2.69E-02	2.49E-02	4.10E-02
3702	489863.09	3851377.25	0.00298	0.00347	0.00135	0.00162	0.002	0.002	0.0036	0.00347	0.03109263	0.006408832	1.405E-07	8.53E-05	7.13E-04	2.50E-04	2.55E-02	2.36E-02	4.05E-02
3703	490363.09	3851377.25	0.00298	0.00331	0.00138	0.00164	0.001	0.002	0.0034	0.00331	0.03109263	0.006113324	1.437E-07	8.64E-05	6.75E-04	2.55E-04	2.44E-02	2.25E-02	4.01E-02
3704	490863.09	3851377.25	0.00296	0.00315	0.00144	0.00164	0.001	0.002	0.0033	0.00315	0.03088396	0.005817816	1.499E-07	8.64E-05	6.75E-04	2.56E-04	2.32E-02	2.14E-02	3.95E-02
3705	491363.09	3851377.25	0.00291	0.00297	0.0015	0.00164	0.001	0.002	0.0031	0.00297	0.03036227	0.005485369	1.562E-07	8.64E-05	6.71E-04	2.56E-04	2.20E-02	2.02E-02	3.86E-02
3706	491863.09	3851377.25	0.00286	0.00282	0.00155	0.00165	0.001	0.002	0.0029	0.00282	0.02984058	0.00520833	1.614E-07	8.69E-05	6.52E-04	2.56E-04	2.08E-02	1.92E-02	3.77E-02
3707	492363.09	3851377.25	0.00286	0.0027	0.00158	0.00165	0.002	0.002	0.0028	0.0027	0.02984058	0.004986699	1.645E-07	8.69E-05	7.27E-04	2.59E-04	2.00E-02	1.84E-02	3.75E-02
3708	492863.09	3851377.25	0.00284	0.00257	0.00157	0.00164	0.002	0.002	0.0027	0.00257	0.0296319	0.004746599	1.634E-07	8.64E-05	8.11E-04	2.59E-04	1.90E-02	1.75E-02	3.70E-02

3709	493363.09	3851377.25	0.0027	0.00235	0.00154	0.00159	0.002	0.002	0.0025	0.00235	0.02817118	0.004340275	1.603E-07	8.38E-05	7.97E-04	2.53E-04	1.74E-02	1.60E-02	3.50E-02
3710	493863.09	3851377.25	0.00281	0.00238	0.0016	0.00165	0.002	0.002	0.0025	0.00238	0.02931889	0.004395683	1.666E-07	8.69E-05	8.30E-04	2.62E-04	1.76E-02	1.62E-02	3.63E-02
3711	494363.09	3851377.25	0.00307	0.00249	0.00168	0.00174	0.002	0.002	0.0026	0.00249	0.03203167	0.004598845	1.749E-07	9.17E-05	8.86E-04	2.79E-04	1.85E-02	1.69E-02	3.94E-02
3712	494863.09	3851377.25	0.00313	0.00246	0.0017	0.00178	0.002	0.002	0.0026	0.00246	0.0326577	0.004543437	1.77E-07	9.38E-05	8.91E-04	2.86E-04	1.83E-02	1.67E-02	4.00E-02
3713	495363.09	3851377.25	0.00337	0.00255	0.00176	0.00188	0.002	0.002	0.0027	0.00255	0.0351618	0.00470966	1.832E-07	9.90E-05	9.33E-04	2.98E-04	1.91E-02	1.73E-02	4.29E-02
3714	495863.09	3851377.25	0.00346	0.00253	0.0018	0.00194	0.002	0.002	0.0027	0.00253	0.03610084	0.004672722	1.874E-07	1.02E-04	9.85E-04	3.02E-04	1.90E-02	1.72E-02	4.39E-02
3715	496363.09	3851377.25	0.00349	0.0025	0.00183	0.00201	0.002	0.002	0.0026	0.0025	0.03641385	0.004617314	1.905E-07	1.06E-04	1.05E-03	3.05E-04	1.87E-02	1.70E-02	4.42E-02
3716	496863.09	3851377.25	0.00349	0.00245	0.00186	0.00206	0.002	0.002	0.0026	0.00245	0.03641385	0.004524968	1.936E-07	1.09E-04	1.10E-03	3.07E-04	1.84E-02	1.67E-02	4.41E-02
3717	497363.09	3851377.25	0.00347	0.0024	0.0019	0.00209	0.002	0.002	0.0025	0.0024	0.03620518	0.004432622	1.978E-07	1.10E-04	1.15E-03	3.08E-04	1.79E-02	1.63E-02	4.38E-02
3718	497863.09	3851377.25	0.00342	0.00233	0.00187	0.00207	0.003	0.002	0.0025	0.00233	0.03568349	0.004303337	1.947E-07	1.09E-04	1.19E-03	3.05E-04	1.74E-02	1.58E-02	4.32E-02
3719	498363.09	3851377.25	0.00332	0.00224	0.00184	0.00201	0.003	0.002	0.0024	0.00224	0.03464011	0.004137114	1.916E-07	1.06E-04	1.21E-03	3.01E-04	1.67E-02	1.52E-02	4.18E-02
3720	471363.09	3851877.25	0.00162	0.0017	0.0007	0.00103	0.001	0.001	0.0017	0.0017	0.01690271	0.003139774	7.287E-08	5.43E-05	5.96E-04	1.56E-04	1.23E-02	1.16E-02	2.15E-02
3721	471863.09	3851877.25	0.00164	0.00171	0.00071	0.00106	0.001	0.001	0.0018	0.00171	0.01711138	0.003158243	7.392E-08	5.58E-05	6.10E-04	1.60E-04	1.24E-02	1.16E-02	2.19E-02
3722	472363.09	3851877.25	0.0017	0.00187	0.00074	0.00112	0.001	0.001	0.0019	0.00187	0.01773741	0.003453751	7.704E-08	5.90E-05	6.33E-04	1.69E-04	1.35E-02	1.27E-02	2.29E-02
3723	472863.09	3851877.25	0.00176	0.00201	0.00077	0.00117	0.001	0.001	0.0021	0.00201	0.01836343	0.003712321	8.016E-08	6.16E-05	6.56E-04	1.74E-04	1.45E-02	1.37E-02	2.38E-02
3724	473363.09	3851877.25	0.00179	0.00195	0.00076	0.00116	0.001	0.001	0.002	0.00195	0.01867645	0.003601505	7.912E-08	6.11E-05	6.66E-04	1.74E-04	1.42E-02	1.33E-02	2.41E-02
3725	473863.09	3851877.25	0.00182	0.002	0.00077	0.00117	0.001	0.001	0.0021	0.002	0.01898946	0.003693851	8.016E-08	6.16E-05	6.89E-04	1.76E-04	1.45E-02	1.36E-02	2.45E-02
3726	474363.09	3851877.25	0.00189	0.00226	0.00082	0.0012	0.002	0.001	0.0023	0.00226	0.01971982	0.004174052	8.537E-08	6.32E-05	7.27E-04	1.83E-04	1.64E-02	1.54E-02	2.59E-02
3727	474863.09	3851877.25	0.00197	0.00258	0.00088	0.00124	0.002	0.001	0.0026	0.00258	0.02055453	0.004765068	9.161E-08	6.53E-05	7.60E-04	1.90E-04	1.87E-02	1.75E-02	2.75E-02
3728	475363.09	3851877.25	0.00205	0.00283	0.00094	0.00126	0.002	0.001	0.0029	0.00283	0.02138923	0.0052268	9.786E-08	6.64E-05	7.74E-04	1.97E-04	2.04E-02	1.92E-02	2.88E-02
3729	475863.09	3851877.25	0.00213	0.00307	0.001	0.00129	0.002	0.001	0.0031	0.00307	0.02222393	0.005670062	1.041E-07	6.79E-05	7.55E-04	2.03E-04	2.21E-02	2.09E-02	3.02E-02
3730	476363.09	3851877.25	0.00224	0.00321	0.00101	0.00132	0.002	0.001	0.0033	0.00321	0.02337164	0.005928631	1.051E-07	6.95E-05	7.22E-04	2.04E-04	2.31E-02	2.18E-02	3.16E-02
3731	476863.09	3851877.25	0.00233	0.00355	0.00105	0.00138	0.002	0.002	0.0036	0.00355	0.02431068	0.006556586	1.093E-07	7.27E-05	7.08E-04	2.12E-04	2.56E-02	2.41E-02	3.33E-02
3732	477363.09	3851877.25	0.00242	0.00389	0.00111	0.00143	0.002	0.002	0.004	0.00389	0.02524972	0.007184541	1.156E-07	7.53E-05	7.32E-04	2.21E-04	2.81E-02	2.65E-02	3.51E-02
3733	477863.09	3851877.25	0.00252	0.00427	0.00118	0.00148	0.002	0.002	0.0043	0.00427	0.0262931	0.007886373	1.228E-07	7.80E-05	7.83E-04	2.25E-04	3.07E-02	2.90E-02	3.69E-02
3734	478363.09	3851877.25	0.00264	0.00464	0.00115	0.00151	0.002	0.002	0.0047	0.00464	0.02754515	0.008569735	1.197E-07	7.95E-05	8.35E-04	2.28E-04	3.35E-02	3.16E-02	3.92E-02
3735	478863.09	3851877.25	0.00272	0.00532	0.00107	0.00156	0.002	0.002	0.0055	0.00532	0.02837985	0.009825645	1.114E-07	8.22E-05	8.68E-04	2.38E-04	3.87E-02	3.62E-02	4.19E-02
3736	479363.09	3851877.25	0.0028	0.0063	0.00115	0.00163	0.002	0.002	0.0064	0.0063	0.02921455	0.011635632	1.197E-07	8.59E-05	8.68E-04	2.50E-04	4.56E-02	4.28E-02	4.48E-02
3737	479863.09	3851877.25	0.003	0.00767	0.00122	0.00165	0.002	0.002	0.0078	0.00767	0.03130131	0.01416592	1.27E-07	8.69E-05	8.44E-04	2.46E-04	5.52E-02	5.22E-02	4.97E-02
3738	480363.09	3851877.25	0.00343	0.01	0.0011	0.00165	0.002	0.002	0.0102	0.01	0.03578783	0.018469257	1.145E-07	8.69E-05	8.25E-04	2.63E-04	7.21E-02	6.80E-02	5.96E-02
3739	480863.09	3851877.25	0.00425	0.01563	0.00108	0.00176	0.002	0.002	0.0158	0.01563	0.04434352	0.028867448	1.124E-07	9.27E-05	8.39E-04	2.73E-04	1.12E-01	1.06E-01	8.01E-02
3740	481363.09	3851877.25	0.01156	0.07022	0.00124	0.00177	0.002	0.002	0.0712	0.07022	0.12061437	0.129691121	1.291E-07	9.32E-05	8.63E-04	2.84E-04	5.05E-01	4.77E-01	2.79E-01
3741	481863.09	3851877.25	0.01014	0.04853	0.00119	0.00173	0.002	0.002	0.0489	0.04853	0.10579842	0.089631303	1.239E-07	9.11E-05	8.30E-04	2.79E-04	3.46E-01	3.30E-01	2.13E-01
3742	482363.09	3851877.25	0.00721	0.01928	0.00135	0.00178	0.002	0.002	0.0195	0.01928	0.07522748	0.035608727	1.405E-07	9.38E-05	7.41E-04	2.77E-04	1.38E-01	1.31E-01	1.19E-01
3743	482863.09	3851877.25	0.00552	0.01191	0.00112	0.00172	0.002	0.002	0.0121	0.01191	0.05759441	0.021996885	1.166E-07	9.06E-05	8.44E-04	2.49E-04	8.60E-02	8.10E-02	8.58E-02
3744	483363.09	3851877.25	0.00487	0.00992	0.00118	0.00178	0.002	0.002	0.0102	0.00992	0.05081246	0.018321503	1.228E-07	9.38E-05	8.96E-04	2.53E-04	7.21E-02	6.75E-02	7.50E-02
3745	483863.09	3851877.25	0.0044	0.00832	0.00115	0.00173	0.001	0.002	0.0086	0.00832	0.04590858	0.015366422	1.197E-07	9.11E-05	6.94E-04	2.50E-04	6.07E-02	5.66E-02	6.64E-02
3746	484363.09	3851877.25	0.00425	0.00774	0.0011	0.00178	0.002	0.002	0.008	0.00774	0.04434352	0.014295205	1.145E-07	9.38E-05	7.64E-04	2.59E-04	5.65E-02	5.26E-02	6.37E-02
3747	484863.09	3851877.25	0.00402	0.00682	0.00108	0.00169	0.002	0.002	0.007	0.00682	0.04194375	0.012596033	1.124E-07	8.90E-05	8.91E-04	2.66E-04	4.97E-02	4.64E-02	5.91E-02
3748	485363.09	3851877.25	0.00399	0.00633	0.00119	0.00179	0.002	0.002	0.0065	0.00633	0.04163074	0.01169104	1.239E-07	9.43E-05	8.30E-04	2.73E-04	4.63E-02	4.30E-02	5.78E-02
3749	485863.09	3851877.25	0.00397	0.00589	0.00132	0.00185	0.002	0.002	0.0061	0.00589	0.04142206	0.010878392	1.374E-07	9.74E-05	9.61E-04	2.77E-04	4.33E-02	4.01E-02	5.69E-02
3750	486363.09	3851877.25	0.00383	0.0053	0.00127	0.00181	0.002	0.002	0.0055	0.0053	0.03996134	0.009788706	1.322E-07	9.53E-05	1.10E-03	2.73E-04	3.89E-02	3.60E-02	5.41E-02
3751	486863.09	3851877.25	0.00374	0.00496	0.00126	0.00185	0.002	0.002	0.0051	0.00496	0.0390223	0.009160751	1.312E-07	9.74E-05	9.33E-04	2.74E-04	3.64E-02	3.37E-02	5.22E-02
3752	487363.09	3851877.25	0.00364	0.00465	0.00135	0.00186	0.002	0.002	0.0048	0.00465	0.03797892	0.008588204	1.405E-07	9.80E-05	7.13E-04	2.79E-04	3.42E-02	3.16E-02	5.03E-02
3753	487863.09	3851877.25	0.00344	0.00422	0.00143	0.0018	0.002	0.002	0.0044	0.00422	0.03589217	0.007794026	1.489E-07	9.48E-05	7.27E-04	2.79E-04	3.10E-02	2.87E-02	4.71E-02
3754	488363.09	3851877.25	0.00347	0.00401	0.00157	0.00183	0.002	0.002	0.0042	0.00401	0.03620518	0.007406172	1.634E-07	9.64E-05	7.27E-04	2.87E-04	2.96E-02	2.73E-02	4.71E-02
3755	488863.09	3851877.25	0.00339	0.00374	0.00158	0.00186	0.001	0.002	0.0039	0.00374	0.03537048	0.006907502	1.645E-07	9.80E-05	6.99E-04	2.88E-04	2.77E-02	2.54E-02	4.56E-02
3756	489363.09	3851877.25	0.00332	0.00351	0.0016	0.00187	0.002	0.002	0.0037	0.00351	0.03464011	0.006482709	1.666E-07	9.85E-05	7.60E-04	2.88E-04	2.60E-02	2.39E-02	4.44E-02
3757	489863.09	3851877.25	0.0033	0.00333	0.00164	0.00188	0.002	0.002	0.0035	0.00333	0.03443144	0.006150262	1.707E-07	9.90E-05	7.60E-04	2.91E-04	2.47E-02	2.26E-02	4.38E-02
3758	490363.09	3851877.25	0.00334	0.0032	0.00172	0.00191	0.002	0.002	0.0034	0.0032	0.03484879	0.005910162	1.791E-07	1.01E-04	7.27E-04	2.94E-04	2.39E-02	2.18E-02	4.40E-02
3759	490863.09	3851877.25	0.0034	0.00311	0.0018	0.00195	0.002	0.002	0.0033	0.00311	0.03547482	0.005743939	1.874E-07	1.03E-04	7.41E-04	3.00E-04	2.32E-02	2.11E-02	4.45E-02
3760	491363.09	3851877.25	0.00346	0.00303	0.00187	0.00198	0.002	0.002	0.0032	0.00303	0.03610084	0.005596185	1.947E-07	1.04E-04	7.60E-04	3.05E-04	2.27E-02	2.06E-02	4.50E-02
3761	491863.09	3851877.25	0.0035	0.00295	0.00188	0.00201	0.002	0.002	0.0031	0.00295	0.03651819	0.005448431	1.957E-07	1.06E-04	8.39E-04	3.09E-04	2.21E-02	2.01E-02	4.53E-02
3762	492363.09	3851877.25	0.00344	0.00281	0.00186	0.00199	0.002	0.002	0.003	0.00281	0.03589217	0.005189861	1.936E-07	1.05E-04	9.43E-04	3.08E-04	2.11E-02	1.91E-02	4.44E-02
3763	492863.09	3851877.25	0.00321	0.00253	0.00183	0.00188	0.002	0.002	0.0027	0.00253	0.0334924	0.004672722	1.905E-07	9.90E-05	9.33E-04	2.95E-04	1.89E-02	1.72E-02	4.12E-02
3764	493363.09	3851877.25	0.00349	0.00267	0.00193	0.00203	0.002	0.002	0.0028	0.00267	0.03641385	0.004931292	2.009E-07	1.07E-04	1.01E-03	3.15E-04	2.01E-02	1.82E-02	4.47E-02
3765	493863.09	3851877.25	0.00382	0.00279	0.00204	0.00214	0.002	0.002	0.003	0.00279	0.039857	0.005152923	2.124E-07	1.13E-04	1.02E-03	3.36E-04	2.10E-02	1.90E-02	4.86E-02
3766	494363.09	3851877.25	0.00375	0.00268	0.00201	0.00211	0.002	0.002	0.0029	0.00268	0.03912663	0.004949761	2.093E-07	1.11E-04	1.01E-03	3.32E-04	2.02E-02	1.82E-02	4.75E-02

3767	494863.09	3851877.25	0.00394	0.00271	0.00207	0.00221	0.002	0.002	0.0029	0.00271	0.04110905	0.005005169	2.155E-07	1.16E-04	1.06E-03	3.46E-04	2.05E-02	1.84E-02	4.98E-02
3768	495363.09	3851877.25	0.00405	0.0027	0.00213	0.00226	0.002	0.003	0.0029	0.0027	0.04225677	0.004986699	2.217E-07	1.19E-04	1.13E-03	3.53E-04	2.05E-02	1.84E-02	5.10E-02
3769	495863.09	3851877.25	0.00409	0.00268	0.00215	0.00235	0.003	0.003	0.0029	0.00268	0.04267412	0.004949761	2.238E-07	1.24E-04	1.22E-03	3.56E-04	2.03E-02	1.82E-02	5.14E-02
3770	496363.09	3851877.25	0.00405	0.00261	0.00215	0.00238	0.003	0.003	0.0028	0.00261	0.04225677	0.004820476	2.238E-07	1.25E-04	1.28E-03	3.52E-04	1.98E-02	1.77E-02	5.09E-02
3771	496863.09	3851877.25	0.00399	0.00253	0.00214	0.0024	0.003	0.002	0.0027	0.00253	0.04163074	0.004672722	2.228E-07	1.26E-04	1.33E-03	3.49E-04	1.92E-02	1.72E-02	5.01E-02
3772	497363.09	3851877.25	0.00391	0.00246	0.00212	0.00236	0.003	0.002	0.0026	0.00246	0.04079604	0.004543437	2.207E-07	1.24E-04	1.38E-03	3.46E-04	1.86E-02	1.67E-02	4.91E-02
3773	497863.09	3851877.25	0.00374	0.00235	0.00204	0.00227	0.003	0.002	0.0025	0.00235	0.0390223	0.004340275	2.124E-07	1.20E-04	1.42E-03	3.38E-04	1.77E-02	1.60E-02	4.70E-02
3774	498363.09	3851877.25	0.00361	0.00225	0.00198	0.00222	0.003	0.002	0.0024	0.00225	0.03766591	0.004155583	2.061E-07	1.17E-04	1.46E-03	3.32E-04	1.69E-02	1.53E-02	4.53E-02
3775	471363.09	3852377.25	0.00165	0.00149	0.0007	0.001	0.001	0.001	0.0015	0.00149	0.01721572	0.002751919	7.287E-08	5.27E-05	6.24E-04	1.55E-04	1.07E-02	1.01E-02	2.14E-02
3776	471863.09	3852377.25	0.00171	0.00162	0.00074	0.00105	0.001	0.001	0.0016	0.00162	0.01784175	0.00299202	7.704E-08	5.53E-05	6.42E-04	1.62E-04	1.16E-02	1.10E-02	2.23E-02
3777	472363.09	3852377.25	0.00177	0.00172	0.00077	0.00109	0.001	0.001	0.0017	0.00172	0.01846777	0.003176712	8.016E-08	5.74E-05	6.52E-04	1.67E-04	1.23E-02	1.17E-02	2.32E-02
3778	472863.09	3852377.25	0.00183	0.00181	0.0008	0.00115	0.001	0.001	0.0018	0.00181	0.0190938	0.003342935	8.328E-08	6.06E-05	6.66E-04	1.76E-04	1.30E-02	1.23E-02	2.41E-02
3779	473363.09	3852377.25	0.00188	0.00188	0.00084	0.0012	0.001	0.001	0.0019	0.00188	0.01961549	0.00347222	8.745E-08	6.32E-05	6.85E-04	1.83E-04	1.35E-02	1.28E-02	2.48E-02
3780	473863.09	3852377.25	0.00193	0.00191	0.00086	0.00124	0.002	0.001	0.002	0.00191	0.02013717	0.003527628	8.953E-08	6.53E-05	7.08E-04	1.87E-04	1.38E-02	1.30E-02	2.55E-02
3781	474363.09	3852377.25	0.00198	0.00196	0.00087	0.00128	0.002	0.001	0.002	0.00196	0.02065886	0.003619974	9.057E-08	6.74E-05	7.27E-04	1.91E-04	1.42E-02	1.33E-02	2.62E-02
3782	474863.09	3852377.25	0.00209	0.00232	0.00092	0.00136	0.002	0.001	0.0024	0.00232	0.02180658	0.004284868	9.578E-08	7.16E-05	7.69E-04	2.03E-04	1.69E-02	1.58E-02	2.82E-02
3783	475363.09	3852377.25	0.00216	0.00242	0.00094	0.00138	0.002	0.001	0.0025	0.00242	0.02253694	0.00446956	9.786E-08	7.27E-05	8.02E-04	2.08E-04	1.76E-02	1.65E-02	2.93E-02
3784	475863.09	3852377.25	0.00223	0.00251	0.00097	0.0014	0.002	0.002	0.0026	0.00251	0.02326731	0.004635783	1.01E-07	7.37E-05	8.35E-04	2.12E-04	1.84E-02	1.71E-02	3.03E-02
3785	476363.09	3852377.25	0.00231	0.00259	0.00102	0.00141	0.002	0.002	0.0027	0.00259	0.02410201	0.004783537	1.062E-07	7.43E-05	8.53E-04	2.18E-04	1.88E-02	1.76E-02	3.13E-02
3786	476863.09	3852377.25	0.00242	0.00283	0.00109	0.00145	0.002	0.002	0.0029	0.00283	0.02524972	0.0052268	1.135E-07	7.64E-05	8.44E-04	2.24E-04	2.05E-02	1.92E-02	3.29E-02
3787	477363.09	3852377.25	0.00252	0.00296	0.00111	0.00148	0.002	0.002	0.003	0.00296	0.0262931	0.0054669	1.156E-07	7.80E-05	8.07E-04	2.29E-04	2.14E-02	2.01E-02	3.41E-02
3788	477863.09	3852377.25	0.00257	0.00279	0.00107	0.00149	0.002	0.002	0.0029	0.00279	0.02681479	0.005152923	1.114E-07	7.85E-05	7.64E-04	2.29E-04	2.03E-02	1.90E-02	3.43E-02
3789	478363.09	3852377.25	0.00261	0.00275	0.00106	0.00152	0.002	0.002	0.0028	0.00275	0.02723214	0.005079046	1.104E-07	8.01E-05	7.83E-04	2.32E-04	2.01E-02	1.87E-02	3.48E-02
3790	478863.09	3852377.25	0.00282	0.00337	0.00117	0.00164	0.002	0.002	0.0035	0.00337	0.02942323	0.00622414	1.218E-07	8.64E-05	8.72E-04	2.46E-04	2.47E-02	2.29E-02	3.86E-02
3791	479363.09	3852377.25	0.00298	0.00391	0.00117	0.00172	0.002	0.002	0.004	0.00391	0.03109263	0.007221479	1.218E-07	9.06E-05	9.33E-04	2.60E-04	2.86E-02	2.66E-02	4.16E-02
3792	479863.09	3852377.25	0.00307	0.00517	0.00126	0.00184	0.002	0.002	0.0053	0.00517	0.03203167	0.009548606	1.312E-07	9.69E-05	9.80E-04	2.84E-04	3.77E-02	3.52E-02	4.55E-02
3793	480363.09	3852377.25	0.00318	0.00671	0.00146	0.00196	0.002	0.002	0.0068	0.00671	0.03317939	0.012392871	1.52E-07	1.03E-04	9.57E-04	2.98E-04	4.84E-02	4.56E-02	4.97E-02
3794	480863.09	3852377.25	0.00353	0.00872	0.00132	0.00197	0.002	0.002	0.0089	0.00872	0.03683121	0.016105192	1.374E-07	1.04E-04	9.28E-04	3.22E-04	6.30E-02	5.93E-02	5.80E-02
3795	481363.09	3852377.25	0.0044	0.01423	0.00133	0.0021	0.002	0.002	0.0144	0.01423	0.04590858	0.026281752	1.385E-07	1.11E-04	9.33E-04	3.36E-04	1.02E-01	9.68E-02	7.91E-02
3796	481863.09	3852377.25	0.01324	0.08108	0.00153	0.00219	0.002	0.003	0.0824	0.08108	0.13814311	0.149748734	1.593E-07	1.15E-04	9.61E-04	3.60E-04	5.84E-01	5.51E-01	3.22E-01
3797	482363.09	3852377.25	0.0103	0.04522	0.00174	0.00221	0.002	0.003	0.0455	0.04522	0.10746782	0.083517979	1.811E-07	1.16E-04	9.43E-04	3.84E-04	3.22E-01	3.07E-01	2.07E-01
3798	482863.09	3852377.25	0.00697	0.01914	0.0018	0.00242	0.002	0.003	0.0196	0.01914	0.07272337	0.035350157	1.874E-07	1.27E-04	8.72E-04	3.63E-04	1.39E-01	1.30E-01	1.18E-01
3799	483363.09	3852377.25	0.006	0.01175	0.00143	0.00231	0.002	0.002	0.0121	0.01175	0.06260262	0.021701377	1.489E-07	1.22E-04	1.02E-03	3.25E-04	8.59E-02	7.99E-02	9.17E-02
3800	483863.09	3852377.25	0.00526	0.00905	0.00144	0.00211	0.002	0.002	0.0094	0.00905	0.05488163	0.016714677	1.499E-07	1.11E-04	9.57E-04	3.05E-04	6.63E-02	6.15E-02	7.77E-02
3801	484363.09	3852377.25	0.00511	0.00827	0.00129	0.00221	0.002	0.002	0.0086	0.00827	0.05331656	0.015274075	1.343E-07	1.16E-04	7.88E-04	3.35E-04	6.10E-02	5.62E-02	7.46E-02
3802	484863.09	3852377.25	0.00498	0.00756	0.00133	0.00233	0.002	0.003	0.0079	0.00756	0.05196017	0.013962758	1.385E-07	1.23E-04	1.02E-03	3.52E-04	5.59E-02	5.14E-02	7.19E-02
3803	485363.09	3852377.25	0.00494	0.00696	0.00159	0.0024	0.002	0.003	0.0073	0.00696	0.05154282	0.012854603	1.655E-07	1.26E-04	1.06E-03	3.70E-04	5.17E-02	4.73E-02	7.04E-02
3804	485863.09	3852377.25	0.00487	0.00616	0.0017	0.0024	0.002	0.003	0.0065	0.00616	0.05081246	0.011377062	1.77E-07	1.26E-04	1.01E-03	3.67E-04	4.60E-02	4.19E-02	6.78E-02
3805	486363.09	3852377.25	0.00469	0.00539	0.00151	0.00232	0.003	0.003	0.0057	0.00539	0.04893438	0.009954929	1.572E-07	1.22E-04	1.23E-03	3.56E-04	4.02E-02	3.67E-02	6.41E-02
3806	486863.09	3852377.25	0.00455	0.00496	0.00162	0.00236	0.002	0.003	0.0052	0.00496	0.04747365	0.009160751	1.687E-07	1.24E-04	1.10E-03	3.59E-04	3.71E-02	3.37E-02	6.15E-02
3807	487363.09	3852377.25	0.00435	0.00452	0.0018	0.00232	0.002	0.003	0.0048	0.00452	0.0453869	0.008348104	1.874E-07	1.22E-04	8.07E-04	3.53E-04	3.39E-02	3.07E-02	5.81E-02
3808	487863.09	3852377.25	0.00415	0.00415	0.00192	0.00228	0.002	0.003	0.0044	0.00415	0.04330014	0.007664742	1.999E-07	1.20E-04	8.16E-04	3.52E-04	3.12E-02	2.82E-02	5.52E-02
3809	488363.09	3852377.25	0.00399	0.00383	0.00196	0.00226	0.002	0.002	0.0041	0.00383	0.04163074	0.007073725	2.04E-07	1.19E-04	8.07E-04	3.49E-04	2.88E-02	2.60E-02	5.27E-02
3810	488863.09	3852377.25	0.00383	0.00353	0.00197	0.00223	0.002	0.002	0.0038	0.00353	0.03996134	0.006519648	2.051E-07	1.17E-04	7.92E-04	3.45E-04	2.66E-02	2.40E-02	5.03E-02
3811	489363.09	3852377.25	0.00374	0.00331	0.00202	0.00222	0.002	0.002	0.0035	0.00331	0.0390223	0.006113324	2.103E-07	1.17E-04	8.39E-04	3.42E-04	2.49E-02	2.25E-02	4.89E-02
3812	489863.09	3852377.25	0.00358	0.00305	0.00201	0.00219	0.002	0.002	0.0033	0.00305	0.03735289	0.005633123	2.093E-07	1.15E-04	7.92E-04	3.33E-04	2.31E-02	2.07E-02	4.66E-02
3813	490363.09	3852377.25	0.00378	0.00307	0.0021	0.00227	0.002	0.002	0.0033	0.00307	0.03943965	0.005670062	2.186E-07	1.20E-04	8.02E-04	3.43E-04	2.33E-02	2.09E-02	4.88E-02
3814	490863.09	3852377.25	0.00393	0.00306	0.00218	0.00233	0.002	0.003	0.0033	0.00306	0.04100471	0.005651593	2.27E-07	1.23E-04	8.35E-04	3.52E-04	2.33E-02	2.08E-02	5.05E-02
3815	491363.09	3852377.25	0.00428	0.00317	0.00228	0.00248	0.002	0.003	0.0034	0.00317	0.04465653	0.005854754	2.374E-07	1.31E-04	9.24E-04	3.73E-04	2.42E-02	2.16E-02	5.46E-02
3816	491863.09	3852377.25	0.00434	0.0031	0.00231	0.00249	0.002	0.003	0.0034	0.0031	0.04528256	0.00572547	2.405E-07	1.31E-04	1.08E-03	3.77E-04	2.37E-02	2.11E-02	5.53E-02
3817	492363.09	3852377.25	0.00436	0.00302	0.00233	0.0025	0.003	0.003	0.0033	0.00302	0.04549123	0.005577716	2.426E-07	1.32E-04	1.18E-03	3.80E-04	2.31E-02	2.05E-02	5.53E-02
3818	492863.09	3852377.25	0.00449	0.003	0.00241	0.00256	0.003	0.003	0.0033	0.003	0.04684762	0.005540777	2.509E-07	1.35E-04	1.21E-03	3.90E-04	2.30E-02	2.04E-02	5.68E-02
3819	493363.09	3852377.25	0.00471	0.00304	0.00249	0.00268	0.003	0.003	0.0033	0.00304	0.04914305	0.005614654	2.592E-07	1.41E-04	1.20E-03	4.07E-04	2.35E-02	2.07E-02	5.93E-02
3820	493863.09	3852377.25	0.00467	0.00295	0.00247	0.00264	0.003	0.003	0.0032	0.00295	0.0487257	0.005448431	2.571E-07	1.39E-04	1.18E-03	4.04E-04	2.27E-02	2.01E-02	5.86E-02
3821	494363.09	3852377.25	0.00463	0.00287	0.00246	0.00264	0.003	0.003	0.0031	0.00287	0.04830835	0.005300677	2.561E-07	1.39E-04	1.23E-03	4.02E-04	2.20E-02	1.95E-02	5.79E-02
3822	494863.09	3852377.25	0.00474	0.00287	0.00247	0.00268	0.003	0.003	0.0031	0.00287	0.04945607	0.005300677	2.571E-07	1.41E-04	1.34E-03	4.11E-04	2.21E-02	1.95E-02	5.92E-02
3823	495363.09	3852377.25	0.00483	0.00286	0.0025	0.00278	0.003	0.003	0.0031	0.00286	0.05039511	0.005282207	2.603E-07	1.46E-04	1.46E-03	4.18E-04	2.21E-02	1.94E-02	6.04E-02
3824	495863.09	3852377.25	0.00471	0.00277	0.00246	0.00278	0.003	0.003	0.003	0.00277	0.04914305	0.005115984	2.561E-07	1.46E-04	1.52E-03	4.09E-04	2.13E-02	1.88E-02	5.88E-02

3825	496363.09	3852377.25	0.00459	0.00267	0.00243	0.00278	0.003	0.003	0.0029	0.00267	0.047891	0.004931292	2.53E-07	1.46E-04	1.57E-03	4.00E-04	2.05E-02	1.82E-02	5.73E-02
3826	496863.09	3852377.25	0.00449	0.0026	0.00238	0.00272	0.003	0.003	0.0028	0.0026	0.04684762	0.004802007	2.478E-07	1.43E-04	1.63E-03	3.95E-04	1.99E-02	1.77E-02	5.60E-02
3827	497363.09	3852377.25	0.00427	0.00247	0.00226	0.00258	0.004	0.003	0.0027	0.00247	0.04455219	0.004561906	2.353E-07	1.36E-04	1.66E-03	3.81E-04	1.88E-02	1.68E-02	5.33E-02
3828	497863.09	3852377.25	0.00401	0.00233	0.00217	0.00248	0.004	0.003	0.0025	0.00233	0.04183941	0.004303337	2.259E-07	1.31E-04	1.69E-03	3.67E-04	1.76E-02	1.58E-02	5.01E-02
3829	498363.09	3852377.25	0.00379	0.00221	0.00212	0.00241	0.004	0.003	0.0023	0.00221	0.03954399	0.004081706	2.207E-07	1.27E-04	1.72E-03	3.57E-04	1.66E-02	1.50E-02	4.74E-02
3830	471363.09	3852877.25	0.0017	0.00145	0.0007	0.00101	0.002	0.001	0.0015	0.00145	0.01773741	0.002678042	7.287E-08	5.32E-05	7.64E-04	1.59E-04	1.04E-02	9.86E-03	2.19E-02
3831	471863.09	3852877.25	0.00177	0.00154	0.00074	0.00106	0.002	0.001	0.0016	0.00154	0.01846777	0.002844266	7.704E-08	5.58E-05	7.60E-04	1.65E-04	1.11E-02	1.05E-02	2.29E-02
3832	472363.09	3852877.25	0.00183	0.00162	0.00077	0.0011	0.002	0.001	0.0016	0.00162	0.0190938	0.00299202	8.016E-08	5.79E-05	7.50E-04	1.72E-04	1.16E-02	1.10E-02	2.37E-02
3833	472863.09	3852877.25	0.00189	0.00169	0.00081	0.00115	0.002	0.001	0.0017	0.00169	0.01971982	0.003121304	8.433E-08	6.06E-05	7.36E-04	1.77E-04	1.21E-02	1.15E-02	2.44E-02
3834	473363.09	3852877.25	0.00196	0.00178	0.00086	0.0012	0.002	0.001	0.0018	0.00178	0.02045019	0.003287528	8.953E-08	6.32E-05	7.32E-04	1.84E-04	1.28E-02	1.21E-02	2.54E-02
3835	473863.09	3852877.25	0.00203	0.00189	0.00092	0.00127	0.002	0.001	0.0019	0.00189	0.02118055	0.00349069	9.578E-08	6.69E-05	7.36E-04	1.94E-04	1.36E-02	1.29E-02	2.64E-02
3836	474363.09	3852877.25	0.00212	0.00201	0.00097	0.00133	0.002	0.001	0.002	0.00201	0.02211959	0.003712321	1.01E-07	7.01E-05	7.60E-04	2.04E-04	1.44E-02	1.37E-02	2.76E-02
3837	474863.09	3852877.25	0.00217	0.00197	0.00098	0.00136	0.002	0.001	0.002	0.00197	0.02264128	0.003638444	1.02E-07	7.16E-05	7.74E-04	2.07E-04	1.42E-02	1.34E-02	2.81E-02
3838	475363.09	3852877.25	0.00227	0.00212	0.00102	0.00142	0.002	0.002	0.0022	0.00212	0.02368466	0.003915482	1.062E-07	7.48E-05	8.07E-04	2.15E-04	1.53E-02	1.44E-02	2.96E-02
3839	475863.09	3852877.25	0.00235	0.00219	0.00104	0.00147	0.002	0.002	0.0022	0.00219	0.02451936	0.004044767	1.083E-07	7.74E-05	8.35E-04	2.21E-04	1.59E-02	1.49E-02	3.07E-02
3840	476363.09	3852877.25	0.00241	0.00218	0.00104	0.00149	0.002	0.002	0.0023	0.00218	0.02514538	0.004026298	1.083E-07	7.85E-05	8.63E-04	2.24E-04	1.59E-02	1.48E-02	3.15E-02
3841	476863.09	3852877.25	0.00243	0.00214	0.00103	0.0015	0.002	0.002	0.0022	0.00214	0.02535406	0.003952421	1.072E-07	7.90E-05	8.86E-04	2.25E-04	1.57E-02	1.46E-02	3.16E-02
3842	477363.09	3852877.25	0.00245	0.00212	0.00106	0.0015	0.002	0.002	0.0022	0.00212	0.02556273	0.003915482	1.104E-07	7.90E-05	9.10E-04	2.28E-04	1.55E-02	1.44E-02	3.18E-02
3843	477863.09	3852877.25	0.00246	0.00208	0.00107	0.00149	0.002	0.002	0.0021	0.00208	0.02566707	0.003841605	1.114E-07	7.85E-05	9.00E-04	2.31E-04	1.51E-02	1.41E-02	3.17E-02
3844	478363.09	3852877.25	0.00236	0.00195	0.00107	0.00147	0.002	0.002	0.002	0.00195	0.0246237	0.003601505	1.114E-07	7.74E-05	8.35E-04	2.34E-04	1.41E-02	1.33E-02	3.02E-02
3845	478863.09	3852877.25	0.00256	0.00219	0.00112	0.00158	0.002	0.002	0.0023	0.00219	0.02671045	0.004044767	1.166E-07	8.32E-05	8.21E-04	2.48E-04	1.59E-02	1.49E-02	3.30E-02
3846	479363.09	3852877.25	0.00293	0.00265	0.00122	0.00174	0.002	0.002	0.0028	0.00265	0.03057094	0.004894353	1.27E-07	9.17E-05	8.77E-04	2.70E-04	1.95E-02	1.80E-02	3.82E-02
3847	479863.09	3852877.25	0.00339	0.00364	0.00146	0.00203	0.002	0.002	0.0038	0.00364	0.03537048	0.006722809	1.52E-07	1.07E-04	1.01E-03	3.09E-04	2.70E-02	2.48E-02	4.58E-02
3848	480363.09	3852877.25	0.00351	0.00504	0.0016	0.00226	0.002	0.003	0.0052	0.00504	0.03662253	0.009308505	1.666E-07	1.19E-04	1.08E-03	3.59E-04	3.71E-02	3.43E-02	5.03E-02
3849	480863.09	3852877.25	0.00379	0.00627	0.00179	0.00237	0.002	0.003	0.0064	0.00627	0.03954399	0.011580224	1.863E-07	1.25E-04	1.10E-03	3.74E-04	4.56E-02	4.26E-02	5.56E-02
3850	481363.09	3852877.25	0.00427	0.0085	0.00168	0.00255	0.002	0.003	0.0087	0.0085	0.04455219	0.015698868	1.749E-07	1.34E-04	1.07E-03	4.30E-04	6.14E-02	5.78E-02	6.55E-02
3851	481863.09	3852877.25	0.00547	0.01425	0.00181	0.0027	0.002	0.003	0.0145	0.01425	0.05707272	0.026318691	1.884E-07	1.42E-04	1.06E-03	4.67E-04	1.03E-01	9.69E-02	9.08E-02
3852	482363.09	3852877.25	0.01768	0.09772	0.00202	0.00295	0.002	0.004	0.0995	0.09772	0.18446904	0.180481577	2.103E-07	1.55E-04	1.09E-03	5.33E-04	7.05E-01	6.64E-01	4.07E-01
3853	482863.09	3852877.25	0.012	0.04194	0.00261	0.00317	0.002	0.004	0.0427	0.04194	0.12520523	0.077460063	2.717E-07	1.67E-04	1.08E-03	5.28E-04	3.03E-01	2.85E-01	2.22E-01
3854	483363.09	3852877.25	0.00842	0.01754	0.00185	0.0033	0.002	0.004	0.0182	0.01754	0.08785234	0.032395076	1.926E-07	1.74E-04	1.01E-03	4.95E-04	1.29E-01	1.19E-01	1.32E-01
3855	483863.09	3852877.25	0.0074	0.01013	0.00186	0.00298	0.003	0.003	0.0107	0.01013	0.07720989	0.018709357	1.936E-07	1.57E-04	1.18E-03	4.46E-04	7.55E-02	6.89E-02	1.04E-01
3856	484363.09	3852877.25	0.00684	0.00907	0.00173	0.00324	0.002	0.003	0.0097	0.00907	0.07136698	0.016751616	1.801E-07	1.71E-04	1.09E-03	4.90E-04	6.84E-02	6.17E-02	9.66E-02
3857	484863.09	3852877.25	0.00658	0.00814	0.00179	0.0034	0.002	0.004	0.0087	0.00814	0.0686542	0.015033975	1.863E-07	1.79E-04	1.01E-03	5.30E-04	6.19E-02	5.54E-02	9.20E-02
3858	485363.09	3852877.25	0.00629	0.00642	0.00208	0.00311	0.002	0.004	0.0069	0.00642	0.06562841	0.011857263	2.165E-07	1.64E-04	1.15E-03	4.97E-04	4.90E-02	4.37E-02	8.47E-02
3859	485863.09	3852877.25	0.00603	0.00563	0.00203	0.00312	0.002	0.003	0.0061	0.00563	0.06291563	0.010398192	2.113E-07	1.64E-04	1.08E-03	4.91E-04	4.32E-02	3.83E-02	8.00E-02
3860	486363.09	3852877.25	0.0057	0.005	0.00213	0.00304	0.003	0.003	0.0054	0.005	0.05947248	0.009234628	2.217E-07	1.60E-04	1.26E-03	4.74E-04	3.84E-02	3.40E-02	7.50E-02
3861	486863.09	3852877.25	0.00551	0.00462	0.00226	0.00307	0.003	0.003	0.005	0.00462	0.05749007	0.008532797	2.353E-07	1.62E-04	1.21E-03	4.68E-04	3.57E-02	3.14E-02	7.22E-02
3862	487363.09	3852877.25	0.00517	0.00422	0.00242	0.00301	0.002	0.003	0.0046	0.00422	0.05394259	0.007794026	2.519E-07	1.59E-04	9.14E-04	4.54E-04	3.27E-02	2.87E-02	6.72E-02
3863	487863.09	3852877.25	0.00495	0.00392	0.00258	0.00295	0.002	0.003	0.0043	0.00392	0.05164716	0.007239949	2.686E-07	1.55E-04	9.14E-04	4.47E-04	3.04E-02	2.67E-02	6.41E-02
3864	488363.09	3852877.25	0.00418	0.00328	0.00248	0.00266	0.002	0.003	0.0036	0.00328	0.04361316	0.006057916	2.582E-07	1.40E-04	8.68E-04	4.07E-04	2.54E-02	2.23E-02	5.41E-02
3865	488863.09	3852877.25	0.00436	0.00327	0.00247	0.00274	0.002	0.003	0.0036	0.00327	0.04549123	0.006039447	2.571E-07	1.44E-04	9.10E-04	4.14E-04	2.54E-02	2.22E-02	5.61E-02
3866	489363.09	3852877.25	0.00441	0.00318	0.0025	0.00276	0.002	0.003	0.0035	0.00318	0.04601292	0.005873224	2.603E-07	1.45E-04	9.38E-04	4.12E-04	2.47E-02	2.16E-02	5.64E-02
3867	489863.09	3852877.25	0.00443	0.00309	0.00255	0.00277	0.002	0.003	0.0034	0.00309	0.0462216	0.005707	2.655E-07	1.46E-04	9.00E-04	4.11E-04	2.40E-02	2.10E-02	5.64E-02
3868	490363.09	3852877.25	0.00504	0.00332	0.00272	0.00303	0.002	0.003	0.0037	0.00332	0.0525862	0.006131793	2.832E-07	1.60E-04	9.57E-04	4.43E-04	2.60E-02	2.26E-02	6.37E-02
3869	490863.09	3852877.25	0.00527	0.00333	0.00283	0.00312	0.002	0.003	0.0037	0.00333	0.05498596	0.006150262	2.946E-07	1.64E-04	1.03E-03	4.56E-04	2.62E-02	2.26E-02	6.64E-02
3870	491363.09	3852877.25	0.00544	0.00333	0.00294	0.0032	0.003	0.003	0.0037	0.00333	0.0567597	0.006150262	3.061E-07	1.69E-04	1.24E-03	4.66E-04	2.63E-02	2.26E-02	6.84E-02
3871	491863.09	3852877.25	0.00547	0.00327	0.00299	0.00317	0.003	0.003	0.0036	0.00327	0.05707272	0.006039447	3.113E-07	1.67E-04	1.41E-03	4.68E-04	2.58E-02	2.22E-02	6.87E-02
3872	492363.09	3852877.25	0.00554	0.00323	0.00302	0.00318	0.003	0.003	0.0036	0.00323	0.05780308	0.00596557	3.144E-07	1.68E-04	1.45E-03	4.73E-04	2.55E-02	2.20E-02	6.94E-02
3873	492863.09	3852877.25	0.00571	0.00324	0.00297	0.00328	0.003	0.003	0.0036	0.00324	0.05957682	0.005984039	3.092E-07	1.73E-04	1.43E-03	4.85E-04	2.56E-02	2.20E-02	7.13E-02
3874	493363.09	3852877.25	0.00578	0.00322	0.00294	0.00331	0.003	0.003	0.0036	0.00322	0.06030719	0.005947101	3.061E-07	1.74E-04	1.45E-03	4.91E-04	2.55E-02	2.19E-02	7.20E-02
3875	493863.09	3852877.25	0.00571	0.00313	0.00292	0.00328	0.003	0.003	0.0035	0.00313	0.05957682	0.005780877	3.04E-07	1.73E-04	1.53E-03	4.87E-04	2.47E-02	2.13E-02	7.10E-02
3876	494363.09	3852877.25	0.00566	0.00306	0.00287	0.00324	0.004	0.003	0.0034	0.00306	0.05905513	0.005651593	2.988E-07	1.71E-04	1.65E-03	4.84E-04	2.41E-02	2.08E-02	7.03E-02
3877	494863.09	3852877.25	0.00565	0.00301	0.00287	0.00326	0.004	0.003	0.0033	0.00301	0.0589508	0.005559246	2.988E-07	1.72E-04	1.77E-03	4.84E-04	2.37E-02	2.05E-02	7.01E-02
3878	495363.09	3852877.25	0.00545	0.0029	0.00282	0.00322	0.004	0.003	0.0032	0.0029	0.05686404	0.005356084	2.936E-07	1.70E-04	1.81E-03	4.71E-04	2.27E-02	1.97E-02	6.76E-02
3879	495863.09	3852877.25	0.00526	0.00279	0.00278	0.00321	0.004	0.003	0.0031	0.00279	0.05488163	0.005152923	2.894E-07	1.69E-04	1.87E-03	4.59E-04	2.17E-02	1.90E-02	6.52E-02
3880	496363.09	3852877.25	0.00517	0.00273	0.00273	0.00314	0.004	0.003	0.003	0.00273	0.05394259	0.005042107	2.842E-07	1.65E-04	1.96E-03	4.52E-04	2.12E-02	1.86E-02	6.42E-02
3881	496863.09	3852877.25	0.00503	0.00265	0.00266	0.00303	0.004	0.003	0.0029	0.00265	0.05248186	0.004894353	2.769E-07	1.60E-04	2.06E-03	4.43E-04	2.05E-02	1.80E-02	6.25E-02
3882	497363.09	3852877.25	0.00462	0.00247	0.00249	0.00285	0.004	0.003	0.0027	0.00247	0.04820401	0.004561906	2.592E-07	1.50E-04	2.04E-03	4.18E-04	1.88E-02	1.68E-02	5.74E-02

3883	497863.09	3852877.25	0.00398	0.00219	0.00231	0.00259	0.004	0.003	0.0023	0.00219	0.0415264	0.004044767	2.405E-07	1.36E-04	1.93E-03	3.83E-04	1.64E-02	1.49E-02	4.95E-02
3884	498363.09	3852877.25	0.00386	0.00212	0.00226	0.00257	0.004	0.003	0.0022	0.00212	0.04027435	0.003915482	2.353E-07	1.35E-04	1.92E-03	3.78E-04	1.58E-02	1.44E-02	4.80E-02
3885	471363.09	3853377.25	0.00173	0.0014	0.00068	0.00102	0.002	0.001	0.0014	0.0014	0.01805042	0.002585696	7.079E-08	5.37E-05	7.60E-04	1.59E-04	1.01E-02	9.52E-03	2.21E-02
3886	471863.09	3853377.25	0.0018	0.00147	0.00071	0.00107	0.002	0.001	0.0015	0.00147	0.01878078	0.002714981	7.392E-08	5.64E-05	8.11E-04	1.66E-04	1.06E-02	1.00E-02	2.31E-02
3887	472363.09	3853377.25	0.00187	0.00153	0.00075	0.00112	0.002	0.001	0.0016	0.00153	0.01951115	0.002825796	7.808E-08	5.90E-05	8.53E-04	1.73E-04	1.11E-02	1.04E-02	2.41E-02
3888	472863.09	3853377.25	0.00194	0.0016	0.00079	0.00116	0.002	0.001	0.0016	0.0016	0.02024151	0.002955081	8.224E-08	6.11E-05	8.77E-04	1.80E-04	1.15E-02	1.09E-02	2.49E-02
3889	473363.09	3853377.25	0.00201	0.00166	0.00084	0.00121	0.002	0.001	0.0017	0.00166	0.02097188	0.003065897	8.745E-08	6.37E-05	8.77E-04	1.87E-04	1.19E-02	1.13E-02	2.58E-02
3890	473863.09	3853377.25	0.00208	0.00172	0.00088	0.00126	0.002	0.001	0.0018	0.00172	0.02170224	0.003176712	9.161E-08	6.64E-05	8.68E-04	1.94E-04	1.24E-02	1.17E-02	2.67E-02
3891	474363.09	3853377.25	0.00216	0.00178	0.00093	0.00131	0.002	0.001	0.0018	0.00178	0.02253694	0.003287528	9.682E-08	6.90E-05	8.49E-04	2.01E-04	1.28E-02	1.21E-02	2.76E-02
3892	474863.09	3853377.25	0.00223	0.00178	0.00096	0.00134	0.002	0.001	0.0018	0.00178	0.02326731	0.003287528	9.994E-08	7.06E-05	8.35E-04	2.07E-04	1.28E-02	1.21E-02	2.84E-02
3893	475363.09	3853377.25	0.00232	0.00183	0.00099	0.00138	0.002	0.002	0.0019	0.00183	0.02420634	0.003379874	1.031E-07	7.27E-05	8.35E-04	2.14E-04	1.31E-02	1.24E-02	2.94E-02
3894	475863.09	3853377.25	0.0024	0.00188	0.00103	0.00143	0.002	0.002	0.0019	0.00188	0.02504105	0.00347222	1.072E-07	7.53E-05	8.49E-04	2.21E-04	1.35E-02	1.28E-02	3.03E-02
3895	476363.09	3853377.25	0.00245	0.00187	0.00106	0.00145	0.002	0.002	0.0019	0.00187	0.02556273	0.003453751	1.104E-07	7.64E-05	8.68E-04	2.24E-04	1.33E-02	1.27E-02	3.08E-02
3896	476863.09	3853377.25	0.00239	0.0018	0.00106	0.00144	0.002	0.002	0.0018	0.0018	0.02493671	0.003324466	1.104E-07	7.59E-05	8.72E-04	2.24E-04	1.28E-02	1.22E-02	3.00E-02
3897	477363.09	3853377.25	0.00246	0.00184	0.00111	0.00147	0.002	0.002	0.0019	0.00184	0.02566707	0.003398343	1.156E-07	7.74E-05	9.00E-04	2.31E-04	1.32E-02	1.25E-02	3.09E-02
3898	477863.09	3853377.25	0.00255	0.00189	0.00116	0.00153	0.002	0.002	0.0019	0.00189	0.02660611	0.00349069	1.208E-07	8.06E-05	9.38E-04	2.41E-04	1.36E-02	1.29E-02	3.21E-02
3899	478363.09	3853377.25	0.00254	0.00183	0.0012	0.00153	0.002	0.002	0.0019	0.00183	0.02650177	0.003379874	1.249E-07	8.06E-05	9.52E-04	2.45E-04	1.31E-02	1.24E-02	3.18E-02
3900	478863.09	3853377.25	0.00246	0.00176	0.0012	0.00153	0.002	0.002	0.0018	0.00176	0.02566707	0.003250589	1.249E-07	8.06E-05	9.28E-04	2.49E-04	1.25E-02	1.20E-02	3.07E-02
3901	479363.09	3853377.25	0.00296	0.00218	0.00136	0.00179	0.002	0.002	0.0022	0.00218	0.03088396	0.004026298	1.416E-07	9.43E-05	9.80E-04	2.84E-04	1.57E-02	1.48E-02	3.72E-02
3902	479863.09	3853377.25	0.00356	0.00272	0.00152	0.00207	0.002	0.002	0.0028	0.00272	0.03714422	0.005023638	1.582E-07	1.09E-04	9.89E-04	3.24E-04	1.99E-02	1.85E-02	4.50E-02
3903	480363.09	3853377.25	0.00411	0.00375	0.00195	0.00249	0.002	0.003	0.0039	0.00375	0.04288279	0.006925971	2.03E-07	1.31E-04	1.08E-03	3.92E-04	2.76E-02	2.55E-02	5.35E-02
3904	480863.09	3853377.25	0.0046	0.00397	0.0019	0.00269	0.003	0.003	0.0042	0.00397	0.04799534	0.007332295	1.978E-07	1.42E-04	1.18E-03	4.35E-04	2.98E-02	2.70E-02	5.98E-02
3905	481363.09	3853377.25	0.00513	0.00578	0.0023	0.00316	0.003	0.004	0.006	0.00578	0.05352524	0.01067523	2.394E-07	1.66E-04	1.28E-03	5.29E-04	4.24E-02	3.93E-02	6.92E-02
3906	481863.09	3853377.25	0.00626	0.00909	0.00237	0.00364	0.003	0.005	0.0092	0.00909	0.0653154	0.016788554	2.467E-07	1.92E-04	1.26E-03	7.01E-04	6.51E-02	6.18E-02	8.76E-02
3907	482363.09	3853377.25	0.00996	0.01786	0.00274	0.00429	0.003	0.006	0.0178	0.01786	0.10392034	0.032986093	2.853E-07	2.26E-04	1.23E-03	8.90E-04	1.26E-01	1.21E-01	1.44E-01
3908	482863.09	3853377.25	0.04196	0.11653	0.00383	0.00517	0.003	0.007	0.1279	0.11653	0.43780096	0.215222249	3.987E-07	2.72E-04	1.26E-03	9.95E-04	9.06E-01	7.92E-01	7.69E-01
3909	483363.09	3853377.25	0.01455	0.02276	0.0026	0.00562	0.003	0.007	0.0247	0.02276	0.15181134	0.042036028	2.707E-07	2.96E-04	1.27E-03	9.82E-04	1.75E-01	1.55E-01	2.17E-01
3910	483863.09	3853377.25	0.01147	0.01336	0.00268	0.00575	0.003	0.007	0.0149	0.01336	0.11967533	0.024674927	2.79E-07	3.03E-04	1.21E-03	9.99E-04	1.06E-01	9.08E-02	1.62E-01
3911	484363.09	3853377.25	0.01023	0.01022	0.00263	0.00617	0.003	0.007	0.0117	0.01022	0.10673746	0.01887558	2.738E-07	3.25E-04	1.44E-03	1.04E-03	8.28E-02	6.95E-02	1.42E-01
3912	484863.09	3853377.25	0.0098	0.00748	0.00295	0.00583	0.003	0.007	0.0088	0.00748	0.10225094	0.013815004	3.071E-07	3.07E-04	1.21E-03	9.19E-04	6.21E-02	5.09E-02	1.30E-01
3913	485363.09	3853377.25	0.0086	0.00575	0.00286	0.00493	0.002	0.005	0.0067	0.00575	0.08973042	0.010619823	2.977E-07	2.60E-04	1.13E-03	7.72E-04	4.75E-02	3.91E-02	1.11E-01
3914	485863.09	3853377.25	0.00708	0.00483	0.00308	0.00436	0.002	0.005	0.0056	0.00483	0.07387109	0.008920651	3.206E-07	2.30E-04	1.15E-03	6.75E-04	3.96E-02	3.28E-02	9.16E-02
3915	486363.09	3853377.25	0.00708	0.00461	0.00323	0.00439	0.003	0.005	0.0054	0.00461	0.07387109	0.008514327	3.363E-07	2.31E-04	1.34E-03	6.63E-04	3.80E-02	3.13E-02	9.12E-02
3916	486863.09	3853377.25	0.00694	0.00436	0.00347	0.00436	0.003	0.005	0.0051	0.00436	0.07241036	0.008052596	3.612E-07	2.30E-04	1.39E-03	6.43E-04	3.60E-02	2.96E-02	8.91E-02
3917	487363.09	3853377.25	0.007	0.00424	0.00371	0.00442	0.002	0.005	0.005	0.00424	0.07303638	0.007830965	3.862E-07	2.33E-04	1.13E-03	6.34E-04	3.52E-02	2.88E-02	8.92E-02
3918	487863.09	3853377.25	0.00695	0.0041	0.00371	0.00441	0.002	0.004	0.0048	0.0041	0.0725147	0.007572395	3.862E-07	2.32E-04	1.09E-03	6.26E-04	3.42E-02	2.79E-02	8.83E-02
3919	488363.09	3853377.25	0.00702	0.00402	0.00376	0.00441	0.002	0.004	0.0047	0.00402	0.07324506	0.007424641	3.914E-07	2.32E-04	1.09E-03	6.22E-04	3.35E-02	2.73E-02	8.88E-02
3920	488863.09	3853377.25	0.00696	0.00387	0.00366	0.00433	0.002	0.004	0.0045	0.00387	0.07261903	0.007147602	3.81E-07	2.28E-04	1.13E-03	6.06E-04	3.22E-02	2.63E-02	8.76E-02
3921	489363.09	3853377.25	0.00686	0.00374	0.00361	0.00423	0.003	0.004	0.0044	0.00374	0.07157566	0.006907502	3.758E-07	2.23E-04	1.18E-03	5.92E-04	3.10E-02	2.54E-02	8.60E-02
3922	489863.09	3853377.25	0.00667	0.00359	0.00356	0.00407	0.002	0.004	0.0042	0.00359	0.06959324	0.006630463	3.706E-07	2.14E-04	1.13E-03	5.71E-04	2.95E-02	2.44E-02	8.33E-02
3923	490363.09	3853377.25	0.00681	0.00358	0.00366	0.00412	0.003	0.004	0.0042	0.00358	0.07105397	0.006611994	3.81E-07	2.17E-04	1.21E-03	5.75E-04	2.95E-02	2.43E-02	8.48E-02
3924	490863.09	3853377.25	0.00688	0.00354	0.00367	0.00413	0.003	0.004	0.0041	0.00354	0.07178433	0.006538117	3.821E-07	2.18E-04	1.42E-03	5.75E-04	2.91E-02	2.41E-02	8.56E-02
3925	491363.09	3853377.25	0.00693	0.00349	0.00369	0.00411	0.004	0.004	0.0041	0.00349	0.07230602	0.006445771	3.842E-07	2.16E-04	1.67E-03	5.75E-04	2.87E-02	2.37E-02	8.62E-02
3926	491863.09	3853377.25	0.0069	0.00344	0.00369	0.00403	0.004	0.004	0.004	0.00344	0.07199301	0.006353424	3.842E-07	2.12E-04	1.76E-03	5.75E-04	2.81E-02	2.34E-02	8.56E-02
3927	492363.09	3853377.25	0.00696	0.00343	0.00361	0.00403	0.004	0.004	0.004	0.00343	0.07261903	0.006334955	3.758E-07	2.12E-04	1.73E-03	5.81E-04	2.80E-02	2.33E-02	8.61E-02
3928	492863.09	3853377.25	0.00698	0.00342	0.00354	0.00407	0.004	0.004	0.0039	0.00342	0.07282771	0.006316486	3.685E-07	2.14E-04	1.77E-03	5.85E-04	2.78E-02	2.33E-02	8.63E-02
3929	493363.09	3853377.25	0.00689	0.00337	0.00356	0.004	0.004	0.004	0.0038	0.00337	0.07188867	0.00622414	3.706E-07	2.11E-04	1.93E-03	5.81E-04	2.72E-02	2.29E-02	8.51E-02
3930	493863.09	3853377.25	0.00679	0.0033	0.00348	0.00398	0.004	0.004	0.0037	0.0033	0.07084529	0.006094855	3.623E-07	2.10E-04	2.09E-03	5.74E-04	2.65E-02	2.24E-02	8.39E-02
3931	494363.09	3853377.25	0.0066	0.0032	0.0034	0.00381	0.005	0.004	0.0036	0.0032	0.06886288	0.005910162	3.54E-07	2.01E-04	2.19E-03	5.60E-04	2.55E-02	2.18E-02	8.15E-02
3932	494863.09	3853377.25	0.00638	0.00308	0.00334	0.00375	0.005	0.004	0.0034	0.00308	0.06656745	0.005688531	3.477E-07	1.98E-04	2.27E-03	5.44E-04	2.44E-02	2.09E-02	7.87E-02
3933	495363.09	3853377.25	0.00622	0.003	0.00331	0.00379	0.005	0.004	0.0033	0.003	0.06489804	0.005540777	3.446E-07	2.00E-04	2.34E-03	5.35E-04	2.37E-02	2.04E-02	7.68E-02
3934	495863.09	3853377.25	0.00599	0.0029	0.00319	0.00362	0.005	0.004	0.0032	0.0029	0.06249828	0.005356084	3.321E-07	1.91E-04	2.45E-03	5.21E-04	2.27E-02	1.97E-02	7.40E-02
3935	496363.09	3853377.25	0.00571	0.00278	0.00304	0.00345	0.005	0.004	0.003	0.00278	0.05957682	0.005134453	3.165E-07	1.82E-04	2.52E-03	5.01E-04	2.15E-02	1.89E-02	7.05E-02
3936	496863.09	3853377.25	0.00533	0.0026	0.00284	0.00327	0.005	0.003	0.0028	0.0026	0.05561199	0.004802007	2.957E-07	1.72E-04	2.49E-03	4.77E-04	2.01E-02	1.77E-02	6.59E-02
3937	497363.09	3853377.25	0.0048	0.0024	0.00266	0.00307	0.005	0.003	0.0026	0.0024	0.05008209	0.004432622	2.769E-07	1.62E-04	2.33E-03	4.46E-04	1.82E-02	1.63E-02	5.93E-02
3938	497863.09	3853377.25	0.00394	0.00204	0.00235	0.00271	0.004	0.003	0.0021	0.00204	0.04110905	0.003767728	2.446E-07	1.43E-04	2.10E-03	3.92E-04	1.52E-02	1.39E-02	4.88E-02
3939	498363.09	3853377.25	0.00354	0.00185	0.00216	0.00252	0.004	0.003	0.0019	0.00185	0.03693554	0.003416812	2.249E-07	1.33E-04	1.94E-03	3.64E-04	1.37E-02	1.26E-02	4.39E-02
3940	471363.09	3853877.25	0.00171	0.00136	0.00068	0.001	0.001	0.001	0.0014	0.00136	0.01784175	0.002511819	7.079E-08	5.27E-05	6.47E-04	1.60E-04	9.64E-03	9.25E-03	2.16E-02

3941	471863.09	3853877.25	0.00179	0.00142	0.00071	0.00106	0.001	0.001	0.0014	0.00142	0.01867645	0.002622634	7.392E-08	5.58E-05	6.99E-04	1.66E-04	1.01E-02	9.66E-03	2.27E-02
3942	472363.09	3853877.25	0.00187	0.00147	0.00073	0.00111	0.002	0.001	0.0015	0.00147	0.01951115	0.002714981	7.6E-08	5.85E-05	7.50E-04	1.73E-04	1.05E-02	1.00E-02	2.37E-02
3943	472863.09	3853877.25	0.00195	0.00152	0.00076	0.00116	0.002	0.001	0.0015	0.00152	0.02034585	0.002807327	7.912E-08	6.11E-05	8.11E-04	1.80E-04	1.08E-02	1.03E-02	2.47E-02
3944	473363.09	3853877.25	0.00202	0.00156	0.00079	0.0012	0.002	0.001	0.0016	0.00156	0.02107621	0.002881204	8.224E-08	6.32E-05	8.72E-04	1.87E-04	1.11E-02	1.06E-02	2.56E-02
3945	473863.09	3853877.25	0.00211	0.0016	0.00083	0.00124	0.002	0.001	0.0016	0.0016	0.02201525	0.002955081	8.641E-08	6.53E-05	9.33E-04	1.94E-04	1.15E-02	1.09E-02	2.68E-02
3946	474363.09	3853877.25	0.0022	0.00165	0.00088	0.00129	0.002	0.001	0.0017	0.00165	0.02295429	0.003047427	9.161E-08	6.79E-05	9.80E-04	2.03E-04	1.18E-02	1.12E-02	2.79E-02
3947	474863.09	3853877.25	0.00229	0.00169	0.00094	0.00134	0.002	0.002	0.0017	0.00169	0.02389333	0.003121304	9.786E-08	7.06E-05	1.00E-03	2.11E-04	1.21E-02	1.15E-02	2.89E-02
3948	475363.09	3853877.25	0.00236	0.00168	0.00098	0.00137	0.002	0.002	0.0017	0.00168	0.0246237	0.003102835	1.02E-07	7.22E-05	9.94E-04	2.14E-04	1.20E-02	1.14E-02	2.96E-02
3949	475863.09	3853877.25	0.00237	0.00162	0.00099	0.00136	0.002	0.002	0.0016	0.00162	0.02472803	0.00299202	1.031E-07	7.16E-05	9.57E-04	2.17E-04	1.16E-02	1.10E-02	2.96E-02
3950	476363.09	3853877.25	0.0023	0.00158	0.00102	0.00135	0.002	0.002	0.0016	0.00158	0.02399767	0.002918143	1.062E-07	7.11E-05	9.05E-04	2.18E-04	1.12E-02	1.07E-02	2.86E-02
3951	476863.09	3853877.25	0.00222	0.00152	0.00104	0.00133	0.002	0.002	0.0015	0.00152	0.02316297	0.002807327	1.083E-07	7.01E-05	8.68E-04	2.19E-04	1.06E-02	1.03E-02	2.74E-02
3952	477363.09	3853877.25	0.00239	0.00162	0.0011	0.00141	0.002	0.002	0.0016	0.00162	0.02493671	0.00299202	1.145E-07	7.43E-05	8.96E-04	2.29E-04	1.13E-02	1.10E-02	2.94E-02
3953	477863.09	3853877.25	0.00257	0.00173	0.00119	0.0015	0.002	0.002	0.0017	0.00173	0.02681479	0.003195181	1.239E-07	7.90E-05	9.38E-04	2.42E-04	1.20E-02	1.18E-02	3.16E-02
3954	478363.09	3853877.25	0.00271	0.00178	0.00128	0.00157	0.002	0.002	0.0018	0.00178	0.02827551	0.003287528	1.333E-07	8.27E-05	9.80E-04	2.55E-04	1.25E-02	1.21E-02	3.32E-02
3955	478863.09	3853877.25	0.00259	0.00165	0.00132	0.00154	0.002	0.002	0.0016	0.00165	0.02702346	0.003047427	1.374E-07	8.11E-05	9.52E-04	2.59E-04	1.15E-02	1.12E-02	3.16E-02
3956	479363.09	3853877.25	0.00298	0.00187	0.00147	0.00171	0.002	0.002	0.0019	0.00187	0.03109263	0.003453751	1.53E-07	9.01E-05	1.06E-03	2.87E-04	1.31E-02	1.27E-02	3.64E-02
3957	479863.09	3853877.25	0.00382	0.0024	0.00175	0.00213	0.003	0.002	0.0024	0.0024	0.039857	0.004432622	1.822E-07	1.12E-04	1.21E-03	3.42E-04	1.72E-02	1.63E-02	4.69E-02
3958	480363.09	3853877.25	0.00456	0.00296	0.0021	0.00256	0.003	0.003	0.0031	0.00296	0.04757799	0.0054669	2.186E-07	1.35E-04	1.25E-03	4.08E-04	2.16E-02	2.01E-02	5.63E-02
3959	480863.09	3853877.25	0.00532	0.00401	0.00276	0.00315	0.003	0.004	0.0041	0.00401	0.05550765	0.007406172	2.873E-07	1.66E-04	1.26E-03	5.21E-04	2.91E-02	2.73E-02	6.67E-02
3960	481363.09	3853877.25	0.00619	0.00519	0.00334	0.00377	0.003	0.005	0.0053	0.00519	0.06458503	0.009585544	3.477E-07	1.99E-04	1.33E-03	6.88E-04	3.73E-02	3.53E-02	7.84E-02
3961	481863.09	3853877.25	0.00784	0.00773	0.00414	0.00463	0.003	0.007	0.0073	0.00773	0.08180075	0.014276735	4.31E-07	2.44E-04	1.43E-03	1.05E-03	5.14E-02	5.26E-02	9.76E-02
3962	482363.09	3853877.25	0.01295	0.01374	0.00421	0.00672	0.003	0.016	0.0117	0.01374	0.13511731	0.025376759	4.383E-07	3.54E-04	1.50E-03	2.28E-03	8.30E-02	9.34E-02	1.54E-01
3963	482863.09	3853877.25	0.06756	0.2451	0.00544	0.01606	0.003	0.124	0.0645	0.2451	0.70490545	0.452681482	5.663E-07	8.46E-04	1.50E-03	1.74E-02	4.57E-01	1.67E+00	-3.26E-02
3964	483363.09	3853877.25	0.04643	0.02637	0.00473	0.05283	0.003	0.077	0.0414	0.02637	0.48443991	0.04870343	4.924E-07	2.78E-03	1.52E-03	1.08E-02	2.93E-01	1.79E-01	6.62E-01
3965	483863.09	3853877.25	0.02497	0.01521	0.00469	0.0287	0.003	0.03	0.0227	0.01521	0.26053122	0.028091739	4.883E-07	1.51E-03	1.54E-03	4.16E-03	1.61E-01	1.03E-01	3.53E-01
3966	484363.09	3853877.25	0.01903	0.01005	0.00555	0.01847	0.003	0.018	0.0152	0.01005	0.19855463	0.018561603	5.778E-07	9.73E-04	1.47E-03	2.48E-03	1.07E-01	6.83E-02	2.61E-01
3967	484863.09	3853877.25	0.01584	0.00731	0.00549	0.01273	0.003	0.012	0.0107	0.00731	0.16527091	0.013501027	5.715E-07	6.71E-04	1.62E-03	1.69E-03	7.56E-02	4.97E-02	2.09E-01
3968	485363.09	3853877.25	0.01193	0.00541	0.00544	0.00892	0.003	0.009	0.0075	0.00541	0.12447487	0.009991868	5.663E-07	4.70E-04	1.26E-03	1.21E-03	5.33E-02	3.68E-02	1.54E-01
3969	485863.09	3853877.25	0.01174	0.00504	0.0058	0.00848	0.003	0.008	0.007	0.00504	0.12249245	0.009308505	6.038E-07	4.47E-04	1.38E-03	1.13E-03	4.98E-02	3.43E-02	1.50E-01
3970	486363.09	3853877.25	0.01077	0.00469	0.00576	0.00762	0.003	0.007	0.0064	0.00469	0.1123717	0.008662081	5.997E-07	4.01E-04	1.55E-03	1.01E-03	4.53E-02	3.19E-02	1.37E-01
3971	486863.09	3853877.25	0.00998	0.00444	0.00549	0.0069	0.004	0.007	0.0059	0.00444	0.10412902	0.00820035	5.715E-07	3.63E-04	1.74E-03	9.16E-04	4.17E-02	3.02E-02	1.27E-01
3972	487363.09	3853877.25	0.00981	0.00436	0.00532	0.00666	0.003	0.006	0.0057	0.00436	0.10235528	0.008052596	5.538E-07	3.51E-04	1.47E-03	8.72E-04	4.05E-02	2.96E-02	1.24E-01
3973	487863.09	3853877.25	0.00997	0.00441	0.00545	0.00672	0.003	0.006	0.0058	0.00441	0.10402468	0.008144942	5.674E-07	3.54E-04	1.35E-03	8.71E-04	4.07E-02	3.00E-02	1.25E-01
3974	488363.09	3853877.25	0.00977	0.00431	0.00545	0.00648	0.003	0.006	0.0056	0.00431	0.10193793	0.00796025	5.674E-07	3.41E-04	1.35E-03	8.44E-04	3.95E-02	2.93E-02	1.23E-01
3975	488863.09	3853877.25	0.00972	0.00428	0.00527	0.0064	0.003	0.006	0.0055	0.00428	0.10141624	0.007904842	5.486E-07	3.37E-04	1.51E-03	8.33E-04	3.89E-02	2.91E-02	1.22E-01
3976	489363.09	3853877.25	0.00933	0.00406	0.00498	0.00593	0.003	0.006	0.0051	0.00406	0.09734707	0.007498518	5.184E-07	3.12E-04	1.52E-03	7.79E-04	3.62E-02	2.76E-02	1.16E-01
3977	489863.09	3853877.25	0.0092	0.00398	0.00498	0.00573	0.003	0.005	0.0049	0.00398	0.09599068	0.007350764	5.184E-07	3.02E-04	1.53E-03	7.61E-04	3.50E-02	2.71E-02	1.14E-01
3978	490363.09	3853877.25	0.00895	0.00385	0.00484	0.00549	0.004	0.005	0.0047	0.00385	0.09338223	0.007110664	5.039E-07	2.89E-04	1.74E-03	7.34E-04	3.34E-02	2.62E-02	1.10E-01
3979	490863.09	3853877.25	0.0088	0.00378	0.00477	0.00534	0.004	0.005	0.0046	0.00378	0.09181717	0.006981379	4.966E-07	2.81E-04	2.10E-03	7.16E-04	3.23E-02	2.57E-02	1.09E-01
3980	491363.09	3853877.25	0.00866	0.00372	0.00471	0.00518	0.005	0.005	0.0045	0.00372	0.09035644	0.006870564	4.903E-07	2.73E-04	2.23E-03	7.06E-04	3.15E-02	2.53E-02	1.07E-01
3981	491863.09	3853877.25	0.00848	0.00366	0.00451	0.005	0.005	0.005	0.0043	0.00366	0.08847836	0.006759748	4.695E-07	2.63E-04	2.15E-03	6.96E-04	3.08E-02	2.49E-02	1.04E-01
3982	492363.09	3853877.25	0.00838	0.00366	0.00443	0.00493	0.005	0.005	0.0043	0.00366	0.08743499	0.006759748	4.612E-07	2.60E-04	2.29E-03	6.95E-04	3.05E-02	2.49E-02	1.03E-01
3983	492863.09	3853877.25	0.00823	0.00362	0.00436	0.00487	0.005	0.005	0.0042	0.00362	0.08586992	0.006685871	4.539E-07	2.57E-04	2.54E-03	6.89E-04	2.98E-02	2.46E-02	1.01E-01
3984	493363.09	3853877.25	0.00804	0.00353	0.00423	0.0048	0.006	0.005	0.0041	0.00353	0.0838875	0.006519648	4.404E-07	2.53E-04	2.72E-03	6.78E-04	2.88E-02	2.40E-02	9.89E-02
3985	493863.09	3853877.25	0.00781	0.00342	0.00411	0.00458	0.006	0.005	0.0039	0.00342	0.08148774	0.006316486	4.279E-07	2.41E-04	2.87E-03	6.58E-04	2.77E-02	2.33E-02	9.60E-02
3986	494363.09	3853877.25	0.0076	0.00334	0.00401	0.00449	0.006	0.005	0.0038	0.00334	0.07929665	0.006168732	4.175E-07	2.37E-04	3.02E-03	6.44E-04	2.68E-02	2.27E-02	9.34E-02
3987	494863.09	3853877.25	0.00734	0.00322	0.00386	0.00454	0.007	0.004	0.0036	0.00322	0.07658387	0.005947101	4.018E-07	2.39E-04	3.13E-03	6.26E-04	2.56E-02	2.19E-02	9.03E-02
3988	495363.09	3853877.25	0.00684	0.00302	0.00356	0.0041	0.007	0.004	0.0034	0.00302	0.07136698	0.005577716	3.706E-07	2.16E-04	3.09E-03	5.87E-04	2.37E-02	2.05E-02	8.40E-02
3989	495863.09	3853877.25	0.00634	0.00284	0.0033	0.00383	0.006	0.004	0.0031	0.00284	0.0661501	0.005245269	3.436E-07	2.02E-04	3.03E-03	5.57E-04	2.22E-02	1.93E-02	7.80E-02
3990	496363.09	3853877.25	0.00602	0.00272	0.00316	0.0037	0.006	0.004	0.003	0.00272	0.06281129	0.005023638	3.29E-07	1.95E-04	2.97E-03	5.39E-04	2.10E-02	1.85E-02	7.41E-02
3991	496863.09	3853877.25	0.00545	0.00253	0.00294	0.0035	0.006	0.004	0.0027	0.00253	0.05686404	0.004672722	3.061E-07	1.84E-04	2.80E-03	5.04E-04	1.93E-02	1.72E-02	6.72E-02
3992	497363.09	3853877.25	0.00498	0.00236	0.00279	0.00333	0.006	0.003	0.0025	0.00236	0.05196017	0.004358745	2.905E-07	1.75E-04	2.64E-03	4.75E-04	1.79E-02	1.60E-02	6.14E-02
3993	497863.09	3853877.25	0.00439	0.00215	0.00258	0.00311	0.005	0.003	0.0023	0.00215	0.04580425	0.00397089	2.686E-07	1.64E-04	2.44E-03	4.40E-04	1.60E-02	1.46E-02	5.42E-02
3994	498363.09	3853877.25	0.00406	0.00201	0.00243	0.00301	0.005	0.003	0.0021	0.00201	0.0423611	0.003712321	2.53E-07	1.59E-04	2.31E-03	4.16E-04	1.49E-02	1.37E-02	5.02E-02
3995	471363.09	3854377.25	0.00166	0.00132	0.00069	0.001	0.001	0.001	0.0013	0.00132	0.01732006	0.002437942	7.183E-08	5.27E-05	5.81E-04	1.62E-04	9.35E-03	8.98E-03	2.09E-02
3996	471863.09	3854377.25	0.00174	0.00138	0.00072	0.00105	0.001	0.001	0.0014	0.00138	0.01815476	0.002548757	7.496E-08	5.53E-05	6.14E-04	1.69E-04	9.78E-03	9.38E-03	2.19E-02
3997	472363.09	3854377.25	0.00182	0.00142	0.00074	0.00109	0.001	0.001	0.0014	0.00142	0.01898946	0.002622634	7.704E-08	5.74E-05	6.52E-04	1.76E-04	1.01E-02	9.66E-03	2.29E-02
3998	472863.09	3854377.25	0.0019	0.00145	0.00077	0.00113	0.001	0.001	0.0015	0.00145	0.01982416	0.002678042	8.016E-08	5.95E-05	6.89E-04	1.80E-04	1.03E-02	9.86E-03	2.38E-02

3999	473363.09	3854377.25	0.002	0.0015	0.00079	0.00118	0.002	0.001	0.0015	0.0015	0.02086754	0.002770389	8.224E-08	6.22E-05	7.41E-04	1.87E-04	1.06E-02	1.02E-02	2.51E-02
4000	473863.09	3854377.25	0.00211	0.00156	0.00082	0.00124	0.002	0.001	0.0016	0.00156	0.02201525	0.002881204	8.537E-08	6.53E-05	7.97E-04	1.96E-04	1.11E-02	1.06E-02	2.64E-02
4001	474363.09	3854377.25	0.00221	0.0016	0.00087	0.0013	0.002	0.001	0.0016	0.0016	0.02305863	0.002955081	9.057E-08	6.85E-05	8.63E-04	2.04E-04	1.14E-02	1.09E-02	2.77E-02
4002	474863.09	3854377.25	0.0023	0.00157	0.00089	0.00133	0.002	0.001	0.0016	0.00157	0.02399767	0.002899673	9.265E-08	7.01E-05	9.19E-04	2.08E-04	1.13E-02	1.07E-02	2.87E-02
4003	475363.09	3854377.25	0.00233	0.0015	0.00091	0.00132	0.002	0.002	0.0015	0.0015	0.02431068	0.002770389	9.474E-08	6.95E-05	9.61E-04	2.11E-04	1.07E-02	1.02E-02	2.88E-02
4004	475863.09	3854377.25	0.00214	0.00136	0.00094	0.00126	0.002	0.001	0.0014	0.00136	0.02232827	0.002511819	9.786E-08	6.64E-05	9.00E-04	2.07E-04	9.57E-03	9.25E-03	2.63E-02
4005	476363.09	3854377.25	0.00212	0.00137	0.00097	0.00128	0.002	0.002	0.0014	0.00137	0.02211959	0.002530288	1.01E-07	6.74E-05	9.28E-04	2.11E-04	9.57E-03	9.32E-03	2.61E-02
4006	476863.09	3854377.25	0.00219	0.0014	0.00103	0.00131	0.002	0.002	0.0014	0.0014	0.02284995	0.002585696	1.072E-07	6.90E-05	9.52E-04	2.18E-04	9.71E-03	9.52E-03	2.69E-02
4007	477363.09	3854377.25	0.00226	0.00145	0.00109	0.00136	0.002	0.002	0.0014	0.00145	0.02358032	0.002678042	1.135E-07	7.16E-05	9.71E-04	2.28E-04	1.01E-02	9.86E-03	2.77E-02
4008	477863.09	3854377.25	0.00239	0.00151	0.00116	0.00143	0.002	0.002	0.0015	0.00151	0.02493671	0.002788858	1.208E-07	7.53E-05	9.85E-04	2.41E-04	1.04E-02	1.03E-02	2.92E-02
4009	478363.09	3854377.25	0.00263	0.00163	0.00125	0.00154	0.002	0.002	0.0016	0.00163	0.02744081	0.003010489	1.301E-07	8.11E-05	1.02E-03	2.57E-04	1.13E-02	1.11E-02	3.20E-02
4010	478863.09	3854377.25	0.00284	0.00171	0.00136	0.00164	0.002	0.002	0.0017	0.00171	0.0296319	0.003158243	1.416E-07	8.64E-05	1.06E-03	2.73E-04	1.18E-02	1.16E-02	3.43E-02
4011	479363.09	3854377.25	0.00344	0.00197	0.00154	0.00189	0.002	0.002	0.0019	0.00197	0.03589217	0.003638444	1.603E-07	9.96E-05	1.16E-03	3.08E-04	1.37E-02	1.34E-02	4.14E-02
4012	479863.09	3854377.25	0.00406	0.00219	0.00179	0.00211	0.003	0.002	0.0022	0.00219	0.0423611	0.004044767	1.863E-07	1.11E-04	1.26E-03	3.47E-04	1.54E-02	1.49E-02	4.86E-02
4013	480363.09	3854377.25	0.00494	0.0026	0.00224	0.00251	0.003	0.003	0.0026	0.0026	0.05154282	0.004802007	2.332E-07	1.32E-04	1.40E-03	4.14E-04	1.85E-02	1.77E-02	5.91E-02
4014	480863.09	3854377.25	0.00615	0.00336	0.00291	0.00312	0.003	0.004	0.0034	0.00336	0.06416768	0.00620567	3.029E-07	1.64E-04	1.54E-03	5.35E-04	2.38E-02	2.28E-02	7.36E-02
4015	481363.09	3854377.25	0.0074	0.00448	0.00404	0.00397	0.003	0.005	0.0043	0.00448	0.07720989	0.008274227	4.206E-07	2.09E-04	1.58E-03	7.41E-04	3.07E-02	3.05E-02	8.82E-02
4016	481863.09	3854377.25	0.0094	0.00704	0.00686	0.00498	0.003	0.009	0.0058	0.00704	0.09807743	0.013002357	7.142E-07	2.62E-04	1.59E-03	1.29E-03	4.10E-02	4.79E-02	1.07E-01
4017	482363.09	3854377.25	0.01555	0.01192	0.01003	0.00693	0.004	0.021	0.0078	0.01192	0.16224511	0.022015354	1.044E-06	3.65E-04	1.66E-03	2.90E-03	5.49E-02	8.11E-02	1.63E-01
4018	482863.09	3854377.25	0.07337	0.18322	0.01302	0.01253	0.004	0.082	0.0135	0.18322	0.76552565	0.338393722	1.355E-06	6.60E-04	1.80E-03	1.15E-02	9.57E-02	1.25E+00	-3.23E-02
4019	483363.09	3854377.25	0.09849	0.03175	0.01352	0.03798	0.004	0.044	0.051	0.03175	1.02762194	0.05863989	1.408E-06	2.00E-03	1.88E-03	6.12E-03	3.61E-01	2.16E-01	1.24E+00
4020	483863.09	3854377.25	0.06005	0.01474	0.01636	0.24931	0.004	0.122	0.0827	0.01474	0.62654784	0.027223684	1.703E-06	1.31E-02	1.83E-03	1.72E-02	5.86E-01	1.00E-01	1.17E+00
4021	484363.09	3854377.25	0.03651	0.00959	0.01672	0.05101	0.004	0.033	0.0282	0.00959	0.38093692	0.017712017	1.741E-06	2.69E-03	1.86E-03	4.71E-03	2.00E-01	6.52E-02	5.43E-01
4022	484863.09	3854377.25	0.02432	0.00711	0.01432	0.02519	0.004	0.019	0.0156	0.00711	0.25374927	0.013131642	1.491E-06	1.33E-03	1.69E-03	2.61E-03	1.11E-01	4.83E-02	3.35E-01
4023	485363.09	3854377.25	0.02218	0.00675	0.01263	0.02127	0.004	0.016	0.0137	0.00675	0.231421	0.012466748	1.315E-06	1.12E-03	1.91E-03	2.27E-03	9.69E-02	4.59E-02	3.00E-01
4024	485863.09	3854377.25	0.01803	0.00561	0.01022	0.01499	0.004	0.012	0.01	0.00561	0.18812086	0.010361253	1.064E-06	7.90E-04	1.66E-03	1.69E-03	7.09E-02	3.81E-02	2.35E-01
4025	486363.09	3854377.25	0.01675	0.00521	0.00954	0.01303	0.004	0.011	0.0088	0.00521	0.17476564	0.009622483	9.932E-07	6.86E-04	1.93E-03	1.51E-03	6.24E-02	3.54E-02	2.15E-01
4026	486863.09	3854377.25	0.01504	0.00473	0.00831	0.01092	0.005	0.009	0.0075	0.00473	0.15692389	0.008735958	8.651E-07	5.75E-04	2.22E-03	1.30E-03	5.30E-02	3.22E-02	1.91E-01
4027	487363.09	3854377.25	0.01432	0.00463	0.00797	0.01002	0.005	0.009	0.007	0.00463	0.14941158	0.008551266	8.297E-07	5.28E-04	2.15E-03	1.21E-03	4.96E-02	3.15E-02	1.80E-01
4028	487863.09	3854377.25	0.01382	0.0047	0.00771	0.00949	0.004	0.008	0.0068	0.0047	0.14419469	0.008680551	8.027E-07	5.00E-04	1.75E-03	1.15E-03	4.83E-02	3.20E-02	1.73E-01
4029	488363.09	3854377.25	0.01318	0.00468	0.00749	0.00886	0.004	0.008	0.0065	0.00468	0.13751708	0.008643612	7.798E-07	4.67E-04	1.77E-03	1.09E-03	4.62E-02	3.18E-02	1.64E-01
4030	488863.09	3854377.25	0.01264	0.0046	0.00719	0.0083	0.004	0.007	0.0062	0.0046	0.13188284	0.008495858	7.485E-07	4.37E-04	2.03E-03	1.04E-03	4.39E-02	3.13E-02	1.57E-01
4031	489363.09	3854377.25	0.01212	0.00449	0.00682	0.00779	0.004	0.007	0.0059	0.00449	0.12645728	0.008292696	7.1E-07	4.10E-04	2.08E-03	9.89E-04	4.16E-02	3.05E-02	1.49E-01
4032	489863.09	3854377.25	0.01163	0.00435	0.0064	0.00732	0.005	0.007	0.0056	0.00435	0.12134474	0.008034127	6.663E-07	3.86E-04	2.34E-03	9.45E-04	3.94E-02	2.96E-02	1.43E-01
4033	490363.09	3854377.25	0.01116	0.00419	0.00605	0.00689	0.006	0.006	0.0053	0.00419	0.11644087	0.007738619	6.298E-07	3.63E-04	2.78E-03	8.99E-04	3.72E-02	2.85E-02	1.37E-01
4034	490863.09	3854377.25	0.0103	0.00379	0.00536	0.00608	0.006	0.006	0.0046	0.00379	0.10746782	0.006999848	5.58E-07	3.20E-04	2.65E-03	8.02E-04	3.29E-02	2.58E-02	1.25E-01
4035	491363.09	3854377.25	0.01023	0.00388	0.00538	0.00612	0.006	0.006	0.0047	0.00388	0.10673746	0.007166072	5.601E-07	3.22E-04	2.81E-03	8.20E-04	3.33E-02	2.64E-02	1.25E-01
4036	491863.09	3854377.25	0.01003	0.00392	0.0053	0.00601	0.007	0.006	0.0047	0.00392	0.10465071	0.007239949	5.518E-07	3.17E-04	3.13E-03	8.23E-04	3.32E-02	2.67E-02	1.23E-01
4037	492363.09	3854377.25	0.00974	0.00389	0.00516	0.00582	0.007	0.006	0.0046	0.00389	0.10162491	0.007184541	5.372E-07	3.07E-04	3.47E-03	8.13E-04	3.25E-02	2.65E-02	1.19E-01
4038	492863.09	3854377.25	0.00945	0.0038	0.00498	0.00568	0.008	0.006	0.0044	0.0038	0.09859912	0.007018318	5.184E-07	2.99E-04	3.80E-03	7.96E-04	3.13E-02	2.58E-02	1.16E-01
4039	493363.09	3854377.25	0.00914	0.00368	0.00474	0.00553	0.009	0.006	0.0042	0.00368	0.09536465	0.006796686	4.935E-07	2.91E-04	4.04E-03	7.74E-04	3.00E-02	2.50E-02	1.12E-01
4040	493863.09	3854377.25	0.00882	0.00356	0.00451	0.00523	0.009	0.005	0.0041	0.00356	0.09202584	0.006575055	4.695E-07	2.75E-04	4.19E-03	7.50E-04	2.88E-02	2.42E-02	1.08E-01
4041	494363.09	3854377.25	0.00851	0.00345	0.00436	0.00536	0.009	0.005	0.0039	0.00345	0.08879138	0.006371894	4.539E-07	2.82E-04	4.22E-03	7.24E-04	2.76E-02	2.35E-02	1.05E-01
4042	494863.09	3854377.25	0.00779	0.00315	0.00394	0.00468	0.008	0.005	0.0035	0.00315	0.08127906	0.005817816	4.102E-07	2.47E-04	3.90E-03	6.64E-04	2.49E-02	2.14E-02	9.54E-02
4043	495363.09	3854377.25	0.00679	0.00283	0.00355	0.00416	0.008	0.004	0.0031	0.00283	0.07084529	0.0052268	3.696E-07	2.19E-04	3.56E-03	6.06E-04	2.20E-02	1.92E-02	8.32E-02
4044	495863.09	3854377.25	0.00609	0.00262	0.00327	0.00391	0.007	0.004	0.0028	0.00262	0.06354165	0.004838945	3.404E-07	2.06E-04	3.33E-03	5.70E-04	2.01E-02	1.78E-02	7.48E-02
4045	496363.09	3854377.25	0.00576	0.00251	0.00314	0.00382	0.007	0.004	0.0027	0.00251	0.06009851	0.004635783	3.269E-07	2.01E-04	3.19E-03	5.49E-04	1.91E-02	1.71E-02	7.07E-02
4046	496863.09	3854377.25	0.00531	0.00238	0.00297	0.00368	0.006	0.004	0.0025	0.00238	0.05540331	0.004395683	3.092E-07	1.94E-04	3.03E-03	5.16E-04	1.79E-02	1.62E-02	6.53E-02
4047	497363.09	3854377.25	0.00468	0.00218	0.00274	0.00347	0.006	0.003	0.0023	0.00218	0.04883004	0.004026298	2.853E-07	1.83E-04	2.82E-03	4.75E-04	1.62E-02	1.48E-02	5.77E-02
4048	497863.09	3854377.25	0.00472	0.0022	0.00274	0.00355	0.006	0.003	0.0023	0.0022	0.04924739	0.004063236	2.853E-07	1.87E-04	2.82E-03	4.80E-04	1.63E-02	1.50E-02	5.81E-02
4049	498363.09	3854377.25	0.00437	0.00208	0.00258	0.00343	0.006	0.003	0.0022	0.00208	0.04559557	0.003841605	2.686E-07	1.81E-04	2.66E-03	4.54E-04	1.53E-02	1.41E-02	5.39E-02
4050	471363.09	3854877.25	0.00163	0.00129	0.00068	0.001	0.001	0.001	0.0013	0.00129	0.01700704	0.002382534	7.079E-08	5.27E-05	5.96E-04	1.60E-04	9.21E-03	8.77E-03	2.06E-02
4051	471863.09	3854877.25	0.0017	0.00134	0.00071	0.00104	0.001	0.001	0.0013	0.00134	0.01773741	0.00247488	7.392E-08	5.48E-05	6.19E-04	1.69E-04	9.49E-03	9.11E-03	2.14E-02
4052	472363.09	3854877.25	0.00177	0.00137	0.00074	0.00108	0.001	0.001	0.0014	0.00137	0.01846777	0.002530288	7.704E-08	5.69E-05	6.38E-04	1.76E-04	9.78E-03	9.32E-03	2.23E-02
4053	472863.09	3854877.25	0.00185	0.00139	0.00077	0.00112	0.001	0.001	0.0014	0.00139	0.01930247	0.002567227	8.016E-08	5.90E-05	6.52E-04	1.81E-04	9.85E-03	9.45E-03	2.32E-02
4054	473363.09	3854877.25	0.00195	0.00144	0.0008	0.00117	0.001	0.001	0.0014	0.00144	0.02034585	0.002659573	8.328E-08	6.16E-05	6.85E-04	1.91E-04	1.02E-02	9.79E-03	2.44E-02
4055	473863.09	3854877.25	0.00205	0.0015	0.00084	0.00123	0.002	0.001	0.0015	0.0015	0.02138923	0.002770389	8.745E-08	6.48E-05	7.17E-04	2.00E-04	1.06E-02	1.02E-02	2.55E-02
4056	474363.09	3854877.25	0.00216	0.00157	0.00088	0.0013	0.002	0.001	0.0016	0.00157	0.02253694	0.002899673	9.161E-08	6.85E-05	7.64E-04	2.10E-04	1.11E-02	1.07E-02	2.69E-02

4057	474863.09	3854877.25	0.00222	0.00146	0.00088	0.00127	0.002	0.001	0.0015	0.00146	0.02316297	0.002696511	9.161E-08	6.69E-05	7.69E-04	2.05E-04	1.03E-02	9.93E-03	2.72E-02
4058	475363.09	3854877.25	0.00214	0.00135	0.00089	0.00125	0.002	0.001	0.0013	0.00135	0.02232827	0.00249335	9.265E-08	6.58E-05	7.55E-04	2.03E-04	9.49E-03	9.18E-03	2.62E-02
4059	475863.09	3854877.25	0.00205	0.00127	0.00091	0.00123	0.002	0.001	0.0013	0.00127	0.02138923	0.002345596	9.474E-08	6.48E-05	7.74E-04	2.03E-04	8.86E-03	8.64E-03	2.50E-02
4060	476363.09	3854877.25	0.00188	0.00117	0.00092	0.00119	0.002	0.001	0.0011	0.00117	0.01961549	0.002160903	9.578E-08	6.27E-05	7.97E-04	2.00E-04	8.01E-03	7.96E-03	2.29E-02
4061	476863.09	3854877.25	0.00197	0.00119	0.00096	0.00124	0.002	0.001	0.0012	0.00119	0.02055453	0.002197842	9.994E-08	6.53E-05	8.58E-04	2.07E-04	8.15E-03	8.09E-03	2.39E-02
4062	477363.09	3854877.25	0.00216	0.0013	0.00104	0.00132	0.002	0.002	0.0013	0.0013	0.02253694	0.002401003	1.083E-07	6.95E-05	9.43E-04	2.21E-04	8.86E-03	8.84E-03	2.62E-02
4063	477863.09	3854877.25	0.00233	0.0014	0.00113	0.0014	0.002	0.002	0.0014	0.0014	0.02431068	0.002585696	1.176E-07	7.37E-05	1.02E-03	2.36E-04	9.64E-03	9.52E-03	2.83E-02
4064	478363.09	3854877.25	0.00271	0.00158	0.00127	0.00153	0.002	0.002	0.0015	0.00158	0.02827551	0.002918143	1.322E-07	8.06E-05	1.11E-03	2.60E-04	1.08E-02	1.07E-02	3.27E-02
4065	478863.09	3854877.25	0.0032	0.00181	0.00144	0.00173	0.003	0.002	0.0018	0.00181	0.03338806	0.003342935	1.499E-07	9.11E-05	1.24E-03	2.94E-04	1.25E-02	1.23E-02	3.86E-02
4066	479363.09	3854877.25	0.00394	0.00206	0.00165	0.00202	0.003	0.002	0.002	0.00206	0.04110905	0.003804667	1.718E-07	1.06E-04	1.38E-03	3.35E-04	1.44E-02	1.40E-02	4.71E-02
4067	479863.09	3854877.25	0.00474	0.00234	0.0019	0.00241	0.003	0.003	0.0023	0.00234	0.04945607	0.004321806	1.978E-07	1.27E-04	1.51E-03	3.85E-04	1.66E-02	1.59E-02	5.65E-02
4068	480363.09	3854877.25	0.00559	0.00261	0.00218	0.00278	0.003	0.003	0.0027	0.00261	0.05832477	0.004820476	2.27E-07	1.46E-04	1.54E-03	4.49E-04	1.88E-02	1.77E-02	6.63E-02
4069	480863.09	3854877.25	0.00673	0.00321	0.0027	0.00338	0.004	0.004	0.0033	0.00321	0.07021927	0.005928631	2.811E-07	1.78E-04	1.65E-03	5.68E-04	2.31E-02	2.18E-02	7.98E-02
4070	481363.09	3854877.25	0.00823	0.00396	0.00369	0.00401	0.004	0.005	0.0039	0.00396	0.08586992	0.007313826	3.842E-07	2.11E-04	1.79E-03	7.29E-04	2.73E-02	2.69E-02	9.63E-02
4071	481863.09	3854877.25	0.01132	0.00454	0.00519	0.00475	0.004	0.006	0.0043	0.00454	0.11811027	0.008385043	5.403E-07	2.50E-04	1.92E-03	9.13E-04	3.02E-02	3.09E-02	1.29E-01
4072	482363.09	3854877.25	0.01695	0.009	0.01265	0.00601	0.004	0.015	0.0056	0.009	0.17685239	0.016622331	1.317E-06	3.17E-04	1.99E-03	2.16E-03	3.94E-02	6.12E-02	1.76E-01
4073	482863.09	3854877.25	0.07496	0.02178	0.05977	0.00825	0.004	0.053	0.0071	0.02178	0.78211534	0.040226041	6.222E-06	4.35E-04	2.07E-03	7.40E-03	5.00E-02	1.48E-01	7.34E-01
4074	483363.09	3854877.25	0.10359	0.10492	1.22849	0.01223	0.005	0.068	0.0099	0.10492	1.08083416	0.193779442	0.0001279	6.44E-04	2.21E-03	9.61E-03	7.04E-02	7.13E-01	6.44E-01
4075	483863.09	3854877.25	0.11617	0.02581	0.17258	0.02397	0.005	0.034	0.019	0.02581	1.21209098	0.047669152	1.797E-05	1.26E-03	2.41E-03	4.78E-03	1.34E-01	1.76E-01	1.23E+00
4076	484363.09	3854877.25	0.1218	0.01395	0.05558	0.09931	0.005	0.107	0.1155	0.01395	1.2708331	0.025764613	5.786E-06	5.23E-03	2.42E-03	1.51E-02	8.18E-01	9.49E-02	2.04E+00
4077	484863.09	3854877.25	0.06392	0.01041	0.02966	0.17375	0.005	0.078	0.0739	0.01041	0.66692653	0.019226496	3.088E-06	9.15E-03	2.50E-03	1.09E-02	5.24E-01	7.08E-02	1.16E+00
4078	485363.09	3854877.25	0.04119	0.00846	0.01954	0.05207	0.005	0.032	0.0282	0.00846	0.42976696	0.015624991	2.034E-06	2.74E-03	2.54E-03	4.56E-03	2.00E-01	5.75E-02	5.98E-01
4079	485863.09	3854877.25	0.03165	0.00722	0.015	0.02965	0.006	0.021	0.0173	0.00722	0.3302288	0.013334803	1.562E-06	1.56E-03	2.60E-03	2.91E-03	1.23E-01	4.91E-02	4.24E-01
4080	486363.09	3854877.25	0.02589	0.00632	0.01243	0.0206	0.006	0.015	0.0125	0.00632	0.27013029	0.01167257	1.294E-06	1.09E-03	2.61E-03	2.17E-03	8.86E-02	4.30E-02	3.33E-01
4081	486863.09	3854877.25	0.02226	0.0057	0.01084	0.01608	0.006	0.013	0.01	0.0057	0.2322557	0.010527476	1.129E-06	8.47E-04	3.04E-03	1.78E-03	7.09E-02	3.88E-02	2.81E-01
4082	487363.09	3854877.25	0.0201	0.00536	0.01014	0.01402	0.007	0.011	0.0088	0.00536	0.20971876	0.009899522	1.056E-06	7.38E-04	3.36E-03	1.60E-03	6.22E-02	3.64E-02	2.51E-01
4083	487863.09	3854877.25	0.01832	0.00514	0.00974	0.01255	0.005	0.01	0.0079	0.00514	0.19114665	0.009493198	1.014E-06	6.61E-04	2.50E-03	1.46E-03	5.62E-02	3.50E-02	2.27E-01
4084	488363.09	3854877.25	0.01691	0.00505	0.00927	0.01144	0.006	0.01	0.0074	0.00505	0.17643504	0.009326975	9.651E-07	6.03E-04	2.61E-03	1.36E-03	5.22E-02	3.43E-02	2.08E-01
4085	488863.09	3854877.25	0.01585	0.00504	0.00876	0.01058	0.007	0.009	0.007	0.00504	0.16537524	0.009308505	9.12E-07	5.57E-04	3.05E-03	1.29E-03	4.95E-02	3.43E-02	1.95E-01
4086	489363.09	3854877.25	0.01487	0.00494	0.00816	0.00977	0.007	0.009	0.0066	0.00494	0.15515015	0.009123813	8.495E-07	5.15E-04	3.46E-03	1.21E-03	4.66E-02	3.36E-02	1.82E-01
4087	489863.09	3854877.25	0.01396	0.00468	0.00746	0.00893	0.008	0.008	0.0061	0.00468	0.14565542	0.008643612	7.766E-07	4.70E-04	3.82E-03	1.12E-03	4.31E-02	3.18E-02	1.71E-01
4088	490363.09	3854877.25	0.01264	0.00405	0.00614	0.00746	0.008	0.007	0.0051	0.00405	0.13188284	0.007480049	6.392E-07	3.93E-04	3.55E-03	9.55E-04	3.63E-02	2.75E-02	1.53E-01
4089	490863.09	3854877.25	0.01028	0.00348	0.00511	0.006	0.007	0.006	0.0042	0.00348	0.10725915	0.006427301	5.32E-07	3.16E-04	3.26E-03	8.00E-04	2.95E-02	2.37E-02	1.24E-01
4090	491363.09	3854877.25	0.01053	0.00356	0.00499	0.00608	0.008	0.006	0.0043	0.00356	0.10986759	0.006575055	5.195E-07	3.20E-04	3.61E-03	8.15E-04	3.02E-02	2.42E-02	1.27E-01
4091	491863.09	3854877.25	0.01147	0.00416	0.00582	0.00708	0.011	0.007	0.005	0.00416	0.11967533	0.007683211	6.059E-07	3.73E-04	5.04E-03	9.55E-04	3.53E-02	2.83E-02	1.41E-01
4092	492363.09	3854877.25	0.01106	0.00413	0.00574	0.00685	0.012	0.007	0.0049	0.00413	0.11539749	0.007627803	5.976E-07	3.61E-04	5.67E-03	9.44E-04	3.44E-02	2.81E-02	1.36E-01
4093	492863.09	3854877.25	0.01063	0.00399	0.00543	0.00684	0.013	0.007	0.0046	0.00399	0.11091097	0.007369233	5.653E-07	3.60E-04	5.88E-03	9.16E-04	3.29E-02	2.71E-02	1.31E-01
4094	493363.09	3854877.25	0.01019	0.00382	0.00509	0.00622	0.012	0.006	0.0044	0.00382	0.10632011	0.007055256	5.299E-07	3.28E-04	5.85E-03	8.82E-04	3.12E-02	2.60E-02	1.26E-01
4095	493863.09	3854877.25	0.00979	0.00369	0.00495	0.0064	0.012	0.006	0.0042	0.00369	0.1021466	0.006815156	5.153E-07	3.37E-04	5.75E-03	8.50E-04	2.98E-02	2.51E-02	1.21E-01
4096	494363.09	3854877.25	0.00883	0.00327	0.00432	0.00539	0.011	0.005	0.0037	0.00327	0.09213018	0.006039447	4.497E-07	2.84E-04	4.93E-03	7.53E-04	2.61E-02	2.22E-02	1.08E-01
4097	494863.09	3854877.25	0.0073	0.00286	0.00376	0.00461	0.009	0.005	0.0031	0.00286	0.07616652	0.005282207	3.914E-07	2.43E-04	4.26E-03	6.61E-04	2.22E-02	1.94E-02	8.93E-02
4098	495363.09	3854877.25	0.00633	0.0026	0.00341	0.00427	0.008	0.004	0.0028	0.0026	0.06604576	0.004802007	3.55E-07	2.25E-04	3.87E-03	6.08E-04	1.98E-02	1.77E-02	7.76E-02
4099	495863.09	3854877.25	0.00578	0.00245	0.0032	0.0041	0.008	0.004	0.0026	0.00245	0.06030719	0.004524968	3.331E-07	2.16E-04	3.64E-03	5.74E-04	1.84E-02	1.67E-02	7.10E-02
4100	496363.09	3854877.25	0.00512	0.00225	0.00295	0.00389	0.007	0.004	0.0024	0.00225	0.0534209	0.004155583	3.071E-07	2.05E-04	3.37E-03	5.29E-04	1.67E-02	1.53E-02	6.30E-02
4101	496863.09	3854877.25	0.00473	0.00212	0.00278	0.00377	0.007	0.004	0.0022	0.00212	0.04935173	0.003915482	2.894E-07	1.99E-04	3.15E-03	4.97E-04	1.57E-02	1.44E-02	5.84E-02
4102	497363.09	3854877.25	0.00459	0.00208	0.00271	0.00375	0.006	0.003	0.0022	0.00208	0.047891	0.003841605	2.821E-07	1.98E-04	3.02E-03	4.87E-04	1.53E-02	1.41E-02	5.66E-02
4103	497863.09	3854877.25	0.00473	0.00216	0.00279	0.00387	0.007	0.004	0.0022	0.00216	0.04935173	0.003989359	2.905E-07	2.04E-04	3.06E-03	4.99E-04	1.58E-02	1.47E-02	5.82E-02
4104	498363.09	3854877.25	0.00462	0.00214	0.00273	0.00383	0.006	0.004	0.0022	0.00214	0.04820401	0.003952421	2.842E-07	2.02E-04	2.96E-03	4.95E-04	1.56E-02	1.46E-02	5.68E-02
4105	471363.09	3855377.25	0.00158	0.00127	0.00065	0.00097	0.001	0.001	0.0013	0.00127	0.01648536	0.002345596	6.767E-08	5.11E-05	6.05E-04	1.56E-04	9.00E-03	8.64E-03	2.00E-02
4106	471863.09	3855377.25	0.00166	0.0013	0.00068	0.00101	0.001	0.001	0.0013	0.0013	0.01732006	0.002401003	7.079E-08	5.32E-05	6.28E-04	1.63E-04	9.21E-03	8.84E-03	2.09E-02
4107	472363.09	3855377.25	0.00174	0.00134	0.00072	0.00107	0.001	0.001	0.0014	0.00134	0.01815476	0.00247488	7.496E-08	5.64E-05	6.61E-04	1.72E-04	9.57E-03	9.11E-03	2.20E-02
4108	472863.09	3855377.25	0.00182	0.00136	0.00075	0.00111	0.001	0.001	0.0014	0.00136	0.01898946	0.002511819	7.808E-08	5.85E-05	6.85E-04	1.79E-04	9.71E-03	9.25E-03	2.29E-02
4109	473363.09	3855377.25	0.00192	0.00142	0.00079	0.00118	0.002	0.001	0.0014	0.00142	0.02003284	0.002622634	8.224E-08	6.22E-05	7.22E-04	1.91E-04	1.01E-02	9.66E-03	2.41E-02
4110	473863.09	3855377.25	0.00202	0.00148	0.00084	0.00125	0.002	0.001	0.0015	0.00148	0.02107621	0.00273345	8.745E-08	6.58E-05	7.55E-04	2.03E-04	1.05E-02	1.01E-02	2.53E-02
4111	474363.09	3855377.25	0.00213	0.00152	0.00087	0.00131	0.002	0.002	0.0015	0.00152	0.02222393	0.002807327	9.057E-08	6.90E-05	7.88E-04	2.14E-04	1.08E-02	1.03E-02	2.66E-02
4112	474863.09	3855377.25	0.00218	0.00143	0.00088	0.00129	0.002	0.001	0.0014	0.00143	0.02274562	0.002641104	9.161E-08	6.79E-05	7.64E-04	2.10E-04	1.01E-02	9.72E-03	2.68E-02
4113	475363.09	3855377.25	0.00181	0.00116	0.00084	0.00115	0.001	0.001	0.0011	0.00116	0.01888512	0.002142434	8.745E-08	6.06E-05	6.47E-04	1.93E-04	8.01E-03	7.89E-03	2.20E-02
4114	475863.09	3855377.25	0.00175	0.00111	0.00086	0.00112	0.001	0.001	0.0011	0.00111	0.0182591	0.002050087	8.953E-08	5.90E-05	6.52E-04	1.93E-04	7.58E-03	7.55E-03	2.12E-02

4115	476363.09	3855377.25	0.00189	0.00118	0.00091	0.0012	0.002	0.001	0.0011	0.00118	0.01971982	0.002179372	9.474E-08	6.32E-05	7.08E-04	2.04E-04	8.08E-03	8.02E-03	2.29E-02
4116	476863.09	3855377.25	0.00198	0.00121	0.00095	0.00123	0.002	0.002	0.0012	0.00121	0.02065886	0.00223478	9.89E-08	6.48E-05	7.55E-04	2.11E-04	8.22E-03	8.23E-03	2.39E-02
4117	477363.09	3855377.25	0.00213	0.00127	0.001	0.00131	0.002	0.002	0.0012	0.00127	0.02222393	0.002345596	1.041E-07	6.90E-05	8.11E-04	2.24E-04	8.71E-03	8.64E-03	2.58E-02
4118	477863.09	3855377.25	0.00241	0.0014	0.00109	0.00144	0.002	0.002	0.0014	0.0014	0.02514538	0.002585696	1.135E-07	7.59E-05	8.91E-04	2.42E-04	9.64E-03	9.52E-03	2.91E-02
4119	478363.09	3855377.25	0.0028	0.00156	0.00121	0.00158	0.002	0.002	0.0015	0.00156	0.02921455	0.002881204	1.26E-07	8.32E-05	9.94E-04	2.66E-04	1.08E-02	1.06E-02	3.36E-02
4120	478863.09	3855377.25	0.00323	0.00173	0.00133	0.00177	0.002	0.002	0.0017	0.00173	0.03370107	0.003195181	1.385E-07	9.32E-05	1.13E-03	2.94E-04	1.20E-02	1.18E-02	3.87E-02
4121	479363.09	3855377.25	0.00394	0.00193	0.00151	0.00205	0.003	0.002	0.0019	0.00193	0.04110905	0.003564567	1.572E-07	1.08E-04	1.35E-03	3.35E-04	1.37E-02	1.31E-02	4.70E-02
4122	479863.09	3855377.25	0.0047	0.00215	0.00177	0.00237	0.003	0.003	0.0022	0.00215	0.04903872	0.00397089	1.843E-07	1.25E-04	1.54E-03	3.84E-04	1.54E-02	1.46E-02	5.59E-02
4123	480363.09	3855377.25	0.00582	0.00251	0.00224	0.0029	0.004	0.003	0.0026	0.00251	0.06072454	0.004635783	2.332E-07	1.53E-04	1.89E-03	4.66E-04	1.84E-02	1.71E-02	6.92E-02
4124	480863.09	3855377.25	0.00699	0.0031	0.00319	0.00349	0.004	0.004	0.0031	0.0031	0.07293205	0.00572547	3.321E-07	1.84E-04	2.07E-03	5.81E-04	2.20E-02	2.11E-02	8.24E-02
4125	481363.09	3855377.25	0.0082	0.00397	0.00463	0.00406	0.005	0.005	0.0036	0.00397	0.08555691	0.007332295	4.82E-07	2.14E-04	2.20E-03	7.62E-04	2.56E-02	2.70E-02	9.47E-02
4126	481863.09	3855377.25	0.01064	0.00508	0.00643	0.00458	0.005	0.007	0.004	0.00508	0.11101531	0.009382382	6.694E-07	2.41E-04	2.26E-03	1.01E-03	2.86E-02	3.45E-02	1.18E-01
4127	482363.09	3855377.25	0.01691	0.00667	0.00952	0.00527	0.005	0.01	0.0044	0.00667	0.17643504	0.012318994	9.911E-07	2.78E-04	2.32E-03	1.37E-03	3.15E-02	4.54E-02	1.79E-01
4128	482863.09	3855377.25	0.07413	0.00988	0.0163	0.00636	0.005	0.015	0.0051	0.00988	0.77345532	0.018247626	1.697E-06	3.35E-04	2.50E-03	2.13E-03	3.61E-02	6.72E-02	7.66E-01
4129	483363.09	3855377.25	0.10379	0.02195	0.02081	0.00789	0.006	0.113	0.0061	0.02195	1.08292091	0.040540019	2.166E-06	4.16E-04	2.70E-03	1.60E-02	4.31E-02	1.49E-01	1.04E+00
4130	483863.09	3855377.25	0.11598	0.14213	0.02292	0.01046	0.006	0.042	0.0081	0.14213	1.21010856	0.262503546	2.386E-06	5.51E-04	2.92E-03	5.90E-03	5.74E-02	9.66E-01	5.73E-01
4131	484363.09	3855377.25	0.12451	0.02832	0.02582	0.01652	0.007	0.025	0.0123	0.02832	1.29910861	0.052304935	2.688E-06	8.70E-04	3.26E-03	3.56E-03	8.73E-02	1.93E-01	1.25E+00
4132	484863.09	3855377.25	0.1262	0.01702	0.02026	0.03718	0.008	0.036	0.0337	0.01702	1.31674168	0.031434675	2.109E-06	1.96E-03	3.58E-03	5.06E-03	2.39E-01	1.16E-01	1.48E+00
4133	485363.09	3855377.25	0.07784	0.01218	0.01971	0.29352	0.008	0.106	0.078	0.01218	0.8121646	0.022495555	2.052E-06	1.55E-02	3.77E-03	1.48E-02	5.53E-01	8.28E-02	1.34E+00
4134	485863.09	3855377.25	0.04823	0.00969	0.01843	0.05946	0.009	0.036	0.0285	0.00969	0.50322069	0.01789671	1.919E-06	3.13E-03	4.09E-03	5.03E-03	2.02E-01	6.59E-02	6.69E-01
4135	486363.09	3855377.25	0.03768	0.008	0.01654	0.03297	0.009	0.023	0.0176	0.008	0.39314443	0.014775405	1.722E-06	1.74E-03	4.25E-03	3.18E-03	1.25E-01	5.44E-02	4.88E-01
4136	486863.09	3855377.25	0.03101	0.00693	0.01436	0.02289	0.01	0.017	0.0129	0.00693	0.32355118	0.012799195	1.495E-06	1.21E-03	4.68E-03	2.38E-03	9.15E-02	4.71E-02	3.89E-01
4137	487363.09	3855377.25	0.02662	0.00655	0.01314	0.01902	0.012	0.015	0.0111	0.00655	0.27774694	0.012097363	1.368E-06	1.00E-03	5.44E-03	2.07E-03	7.83E-02	4.45E-02	3.32E-01
4138	487863.09	3855377.25	0.02331	0.00618	0.01212	0.01639	0.009	0.013	0.0097	0.00618	0.24321116	0.011414001	1.262E-06	8.63E-04	4.20E-03	1.84E-03	6.84E-02	4.20E-02	2.88E-01
4139	488363.09	3855377.25	0.02079	0.00585	0.01118	0.01453	0.009	0.012	0.0086	0.00585	0.21691806	0.010804515	1.164E-06	7.65E-04	4.33E-03	1.68E-03	6.09E-02	3.98E-02	2.56E-01
4140	488863.09	3855377.25	0.01887	0.00561	0.01038	0.01306	0.012	0.011	0.0078	0.00561	0.19688523	0.010361253	1.081E-06	6.88E-04	5.39E-03	1.56E-03	5.53E-02	3.81E-02	2.32E-01
4141	489363.09	3855377.25	0.01739	0.00538	0.00934	0.01186	0.013	0.01	0.0072	0.00538	0.18144325	0.00993646	9.724E-07	6.25E-04	6.13E-03	1.45E-03	5.09E-02	3.66E-02	2.14E-01
4142	489863.09	3855377.25	0.01628	0.00512	0.00862	0.01084	0.014	0.01	0.0067	0.00512	0.16986176	0.009456259	8.974E-07	5.71E-04	6.75E-03	1.34E-03	4.71E-02	3.48E-02	2.00E-01
4143	490363.09	3855377.25	0.01523	0.00504	0.00785	0.01024	0.015	0.009	0.0063	0.00504	0.15890631	0.009308505	8.172E-07	5.39E-04	7.26E-03	1.29E-03	4.46E-02	3.43E-02	1.88E-01
4144	490863.09	3855377.25	0.01348	0.00401	0.00596	0.00798	0.013	0.007	0.005	0.00401	0.14064721	0.007406172	6.205E-07	4.20E-04	5.86E-03	1.02E-03	3.55E-02	2.73E-02	1.64E-01
4145	491363.09	3855377.25	0.01205	0.00373	0.00546	0.00708	0.013	0.007	0.0045	0.00373	0.12572692	0.006889033	5.684E-07	3.73E-04	6.09E-03	9.28E-04	3.18E-02	2.54E-02	1.46E-01
4146	491863.09	3855377.25	0.0129	0.00443	0.00634	0.00837	0.018	0.008	0.0053	0.00443	0.13459562	0.008181881	6.6E-07	4.41E-04	8.52E-03	1.11E-03	3.74E-02	3.01E-02	1.60E-01
4147	492363.09	3855377.25	0.01231	0.00436	0.00605	0.00814	0.018	0.008	0.0051	0.00436	0.1284397	0.008052596	6.298E-07	4.29E-04	8.64E-03	1.09E-03	3.61E-02	2.96E-02	1.53E-01
4148	492863.09	3855377.25	0.01174	0.00419	0.00571	0.00768	0.018	0.007	0.0048	0.00419	0.12249245	0.007738619	5.944E-07	4.05E-04	8.38E-03	1.05E-03	3.43E-02	2.85E-02	1.46E-01
4149	493363.09	3855377.25	0.0111	0.00389	0.00539	0.00752	0.016	0.007	0.0045	0.00389	0.11581484	0.007184541	5.611E-07	3.96E-04	7.70E-03	9.78E-04	3.18E-02	2.65E-02	1.37E-01
4150	493863.09	3855377.25	0.01003	0.00345	0.0047	0.0064	0.014	0.006	0.0039	0.00345	0.10465071	0.006371894	4.893E-07	3.37E-04	6.54E-03	8.64E-04	2.78E-02	2.35E-02	1.23E-01
4151	494363.09	3855377.25	0.00831	0.00302	0.00406	0.00551	0.012	0.005	0.0033	0.00302	0.08670462	0.005577716	4.227E-07	2.90E-04	5.52E-03	7.57E-04	2.36E-02	2.05E-02	1.02E-01
4152	494863.09	3855377.25	0.00679	0.00265	0.00357	0.00491	0.01	0.005	0.0028	0.00265	0.07084529	0.004894353	3.717E-07	2.59E-04	4.73E-03	6.67E-04	2.01E-02	1.80E-02	8.35E-02
4153	495363.09	3855377.25	0.0058	0.00241	0.00324	0.00459	0.009	0.004	0.0025	0.00241	0.06051586	0.004451091	3.373E-07	2.42E-04	4.19E-03	6.03E-04	1.79E-02	1.64E-02	7.15E-02
4154	495863.09	3855377.25	0.00521	0.00223	0.00303	0.00437	0.008	0.004	0.0023	0.00223	0.05435994	0.004118644	3.154E-07	2.30E-04	3.80E-03	5.60E-04	1.64E-02	1.52E-02	6.43E-02
4155	496363.09	3855377.25	0.00502	0.00218	0.00295	0.00433	0.008	0.004	0.0023	0.00218	0.05237752	0.004026298	3.071E-07	2.28E-04	3.62E-03	5.47E-04	1.59E-02	1.48E-02	6.19E-02
4156	496863.09	3855377.25	0.00488	0.00215	0.0029	0.00427	0.007	0.004	0.0022	0.00215	0.05091679	0.00397089	3.019E-07	2.25E-04	3.44E-03	5.35E-04	1.57E-02	1.46E-02	6.01E-02
4157	497363.09	3855377.25	0.00483	0.00216	0.00287	0.00427	0.007	0.004	0.0022	0.00216	0.05039511	0.003989359	2.988E-07	2.25E-04	3.35E-03	5.32E-04	1.57E-02	1.47E-02	5.95E-02
4158	497863.09	3855377.25	0.00487	0.00219	0.00292	0.0043	0.007	0.004	0.0022	0.00219	0.05081246	0.004044767	3.04E-07	2.26E-04	3.29E-03	5.39E-04	1.59E-02	1.49E-02	5.99E-02
4159	498363.09	3855377.25	0.00496	0.00224	0.00294	0.00436	0.007	0.004	0.0023	0.00224	0.0517515	0.004137114	3.061E-07	2.30E-04	3.25E-03	5.51E-04	1.63E-02	1.52E-02	6.10E-02
4160	471363.09	3855877.25	0.00153	0.00124	0.00064	0.00097	0.001	0.001	0.0013	0.00124	0.01596367	0.002290188	6.663E-08	5.11E-05	5.53E-04	1.53E-04	8.86E-03	8.43E-03	1.94E-02
4161	471863.09	3855877.25	0.0016	0.00127	0.00067	0.00101	0.001	0.001	0.0013	0.00127	0.01669403	0.002345596	6.975E-08	5.32E-05	5.81E-04	1.59E-04	9.07E-03	8.64E-03	2.03E-02
4162	472363.09	3855877.25	0.0017	0.00132	0.00071	0.00106	0.001	0.001	0.0013	0.00132	0.01773741	0.002437942	7.392E-08	5.58E-05	6.14E-04	1.69E-04	9.49E-03	8.98E-03	2.15E-02
4163	472863.09	3855877.25	0.00178	0.00133	0.00074	0.0011	0.001	0.001	0.0014	0.00133	0.01857211	0.002456411	7.704E-08	5.79E-05	6.42E-04	1.76E-04	9.57E-03	9.04E-03	2.24E-02
4164	473363.09	3855877.25	0.00189	0.0014	0.0008	0.00118	0.001	0.001	0.0014	0.0014	0.01971982	0.002585696	8.328E-08	6.22E-05	6.85E-04	1.90E-04	1.01E-02	9.52E-03	2.38E-02
4165	473863.09	3855877.25	0.002	0.00145	0.00085	0.00125	0.002	0.001	0.0015	0.00145	0.02086754	0.002678042	8.849E-08	6.58E-05	7.27E-04	2.01E-04	1.04E-02	9.86E-03	2.51E-02
4166	474363.09	3855877.25	0.00211	0.00148	0.00088	0.00132	0.002	0.002	0.0015	0.00148	0.02201525	0.00273345	9.161E-08	6.95E-05	7.64E-04	2.12E-04	1.07E-02	1.01E-02	2.64E-02
4167	474863.09	3855877.25	0.00215	0.00136	0.00085	0.00128	0.002	0.001	0.0014	0.00136	0.0224326	0.002511819	8.849E-08	6.74E-05	7.46E-04	2.05E-04	9.78E-03	9.25E-03	2.65E-02
4168	475363.09	3855877.25	0.00194	0.00119	0.00084	0.00118	0.001	0.001	0.0012	0.00119	0.02024151	0.002197842	8.745E-08	6.22E-05	6.75E-04	1.96E-04	8.36E-03	8.09E-03	2.36E-02
4169	475863.09	3855877.25	0.00158	0.00099	0.00077	0.00104	0.001	0.001	0.001	0.00099	0.01648536	0.001828456	8.016E-08	5.48E-05	6.10E-04	1.80E-04	6.80E-03	6.73E-03	1.92E-02
4170	476363.09	3855877.25	0.00167	0.00103	0.00081	0.0011	0.001	0.001	0.001	0.00103	0.01742439	0.001902333	8.433E-08	5.79E-05	6.42E-04	1.90E-04	7.09E-03	7.00E-03	2.03E-02
4171	476863.09	3855877.25	0.00192	0.00117	0.00091	0.00123	0.002	0.002	0.0011	0.00117	0.02003284	0.002160903	9.474E-08	6.48E-05	7.03E-04	2.12E-04	8.08E-03	7.96E-03	2.33E-02
4172	477363.09	3855877.25	0.00214	0.00126	0.00099	0.00133	0.002	0.002	0.0012	0.00126	0.02232827	0.002327126	1.031E-07	7.01E-05	7.60E-04	2.29E-04	8.71E-03	8.57E-03	2.59E-02

4173	477863.09	3855877.25	0.00242	0.00137	0.00109	0.00144	0.002	0.002	0.0013	0.00137	0.02524972	0.002530288	1.135E-07	7.59E-05	8.21E-04	2.48E-04	9.49E-03	9.32E-03	2.91E-02
4174	478363.09	3855877.25	0.00281	0.00151	0.0012	0.00161	0.002	0.002	0.0015	0.00151	0.02931889	0.002788858	1.249E-07	8.48E-05	9.00E-04	2.70E-04	1.06E-02	1.03E-02	3.37E-02
4175	478863.09	3855877.25	0.00338	0.00168	0.00134	0.00181	0.002	0.002	0.0017	0.00168	0.03526614	0.003102835	1.395E-07	9.53E-05	1.03E-03	3.01E-04	1.18E-02	1.14E-02	4.02E-02
4176	479363.09	3855877.25	0.00411	0.00188	0.0015	0.00212	0.003	0.002	0.0019	0.00188	0.04288279	0.00347222	1.562E-07	1.12E-04	1.19E-03	3.43E-04	1.36E-02	1.28E-02	4.88E-02
4177	479863.09	3855877.25	0.00491	0.00209	0.00173	0.00246	0.003	0.003	0.0022	0.00209	0.05122981	0.003860075	1.801E-07	1.30E-04	1.37E-03	3.94E-04	1.53E-02	1.42E-02	5.81E-02
4178	480363.09	3855877.25	0.00589	0.00239	0.00216	0.00291	0.004	0.003	0.0025	0.00239	0.0614549	0.004414152	2.249E-07	1.53E-04	1.66E-03	4.64E-04	1.76E-02	1.63E-02	6.95E-02
4179	480863.09	3855877.25	0.00701	0.00283	0.00281	0.00343	0.004	0.004	0.0029	0.00283	0.07314072	0.0052268	2.925E-07	1.81E-04	1.97E-03	5.63E-04	2.04E-02	1.92E-02	8.22E-02
4180	481363.09	3855877.25	0.00852	0.00305	0.00308	0.00381	0.005	0.004	0.0031	0.00305	0.08889571	0.005633123	3.206E-07	2.01E-04	2.22E-03	6.25E-04	2.19E-02	2.07E-02	9.87E-02
4181	481863.09	3855877.25	0.00988	0.00434	0.00451	0.00435	0.006	0.006	0.0036	0.00434	0.10308564	0.008015657	4.695E-07	2.29E-04	2.59E-03	8.69E-04	2.52E-02	2.95E-02	1.11E-01
4182	482363.09	3855877.25	0.01359	0.00531	0.00644	0.00478	0.006	0.008	0.0038	0.00531	0.14179492	0.009807175	6.704E-07	2.52E-04	2.76E-03	1.09E-03	2.67E-02	3.61E-02	1.46E-01
4183	482863.09	3855877.25	0.02429	0.0067	0.0093	0.00541	0.006	0.01	0.0042	0.0067	0.25343626	0.012374402	9.682E-07	2.85E-04	3.02E-03	1.48E-03	2.95E-02	4.56E-02	2.55E-01
4184	483363.09	3855877.25	0.09093	0.00955	0.01129	0.00627	0.007	0.019	0.0047	0.00955	0.94874264	0.01763814	1.175E-06	3.30E-04	3.29E-03	2.66E-03	3.34E-02	6.49E-02	9.41E-01
4185	483863.09	3855877.25	0.11047	0.01972	0.02335	0.00752	0.008	0.298	0.0056	0.01972	1.15261849	0.036421374	2.431E-06	3.96E-04	3.63E-03	4.19E-02	3.98E-02	1.34E-01	1.14E+00
4186	484363.09	3855877.25	0.12068	0.2299	0.07102	0.00986	0.009	0.041	0.0074	0.2299	1.25914728	0.424608212	7.394E-06	5.19E-04	4.17E-03	5.72E-03	5.25E-02	1.56E+00	1.83E-01
4187	484863.09	3855877.25	0.12718	0.03604	0.10394	0.01465	0.01	0.027	0.0111	0.03604	1.32696678	0.066563201	1.082E-05	7.72E-04	4.87E-03	3.73E-03	7.86E-02	2.45E-01	1.24E+00
4188	485363.09	3855877.25	0.12891	0.01998	0.0801	0.02935	0.012	0.032	0.0296	0.01998	1.3450172	0.036901575	8.339E-06	1.55E-03	5.76E-03	4.51E-03	2.10E-01	1.36E-01	1.47E+00
4189	485863.09	3855877.25	0.09169	0.01372	0.0464	0.88655	0.014	0.158	0.0861	0.01372	0.9566723	0.02533982	4.831E-06	4.67E-02	6.68E-03	2.23E-02	6.10E-01	9.33E-02	1.57E+00
4190	486363.09	3855877.25	0.05329	0.0103	0.02881	0.06786	0.016	0.038	0.028	0.0103	0.55601556	0.019023334	2.999E-06	3.57E-03	7.65E-03	5.40E-03	1.98E-01	7.00E-02	7.20E-01
4191	486863.09	3855877.25	0.04086	0.00864	0.02106	0.03627	0.019	0.024	0.0177	0.00864	0.42632381	0.015957438	2.192E-06	1.91E-03	8.72E-03	3.43E-03	1.26E-01	5.88E-02	5.23E-01
4192	487363.09	3855877.25	0.0331	0.00799	0.01706	0.02676	0.022	0.02	0.0141	0.00799	0.34535776	0.014756936	1.776E-06	1.41E-03	1.03E-02	2.76E-03	9.99E-02	5.43E-02	4.20E-01
4193	487863.09	3855877.25	0.02799	0.0075	0.01452	0.02152	0.019	0.017	0.0118	0.0075	0.2920412	0.013851943	1.512E-06	1.13E-03	9.04E-03	2.35E-03	8.38E-02	5.10E-02	3.51E-01
4194	488363.09	3855877.25	0.02436	0.00698	0.01232	0.01813	0.021	0.015	0.0102	0.00698	0.25416662	0.012891541	1.283E-06	9.55E-04	9.79E-03	2.07E-03	7.20E-02	4.75E-02	3.04E-01
4195	488863.09	3855877.25	0.02169	0.00654	0.01101	0.01584	0.025	0.013	0.009	0.00654	0.22630846	0.012078894	1.146E-06	8.34E-04	1.18E-02	1.88E-03	6.34E-02	4.45E-02	2.72E-01
4196	489363.09	3855877.25	0.01971	0.00614	0.0101	0.0142	0.028	0.012	0.008	0.00614	0.20564959	0.011340124	1.051E-06	7.48E-04	1.31E-02	1.72E-03	5.67E-02	4.18E-02	2.48E-01
4197	489863.09	3855877.25	0.01816	0.0058	0.00874	0.01302	0.03	0.012	0.0073	0.0058	0.18947725	0.010712169	9.099E-07	6.86E-04	1.42E-02	1.62E-03	5.17E-02	3.94E-02	2.29E-01
4198	490363.09	3855877.25	0.01683	0.00557	0.00806	0.01224	0.032	0.011	0.0068	0.00557	0.17560034	0.010287376	8.391E-07	6.45E-04	1.49E-02	1.52E-03	4.79E-02	3.79E-02	2.13E-01
4199	490863.09	3855877.25	0.01581	0.00522	0.00745	0.01159	0.031	0.01	0.0063	0.00522	0.16495789	0.009640952	7.756E-07	6.10E-04	1.47E-02	1.42E-03	4.46E-02	3.55E-02	2.00E-01
4200	491363.09	3855877.25	0.01499	0.00469	0.00652	0.01048	0.028	0.009	0.0057	0.00469	0.1564022	0.008662081	6.788E-07	5.52E-04	1.33E-02	1.28E-03	4.04E-02	3.19E-02	1.89E-01
4201	491863.09	3855877.25	0.01406	0.00486	0.00659	0.01059	0.029	0.009	0.0056	0.00486	0.1466988	0.008976059	6.861E-07	5.58E-04	1.38E-02	1.31E-03	3.99E-02	3.30E-02	1.78E-01
4202	492363.09	3855877.25	0.0134	0.0046	0.00625	0.0101	0.027	0.009	0.0053	0.0046	0.13981251	0.008495858	6.507E-07	5.32E-04	1.28E-02	1.24E-03	3.75E-02	3.13E-02	1.69E-01
4203	492863.09	3855877.25	0.01273	0.00438	0.00614	0.00969	0.025	0.008	0.005	0.00438	0.13282188	0.008089534	6.392E-07	5.10E-04	1.19E-02	1.18E-03	3.54E-02	2.98E-02	1.60E-01
4204	493363.09	3855877.25	0.01165	0.00381	0.00527	0.00826	0.02	0.007	0.0043	0.00381	0.12155341	0.007036787	5.486E-07	4.35E-04	9.59E-03	1.03E-03	3.08E-02	2.59E-02	1.44E-01
4205	493863.09	3855877.25	0.00963	0.00328	0.00446	0.00705	0.016	0.006	0.0036	0.00328	0.1004772	0.006057916	4.643E-07	3.71E-04	7.46E-03	8.81E-04	2.56E-02	2.23E-02	1.19E-01
4206	494363.09	3855877.25	0.0076	0.00284	0.00383	0.00624	0.013	0.005	0.003	0.00284	0.07929665	0.005245269	3.987E-07	3.29E-04	5.96E-03	7.61E-04	2.14E-02	1.93E-02	9.37E-02
4207	494863.09	3855877.25	0.00634	0.00254	0.00348	0.00569	0.011	0.005	0.0027	0.00254	0.0661501	0.004691191	3.623E-07	3.00E-04	5.06E-03	6.81E-04	1.88E-02	1.73E-02	7.84E-02
4208	495363.09	3855877.25	0.0053	0.00225	0.00312	0.00508	0.009	0.004	0.0023	0.00225	0.05529898	0.004155583	3.248E-07	2.68E-04	4.22E-03	6.01E-04	1.63E-02	1.53E-02	6.55E-02
4209	495863.09	3855877.25	0.00513	0.00221	0.00306	0.00498	0.008	0.004	0.0023	0.00221	0.05352524	0.004081706	3.186E-07	2.62E-04	3.96E-03	5.89E-04	1.59E-02	1.50E-02	6.33E-02
4210	496363.09	3855877.25	0.00502	0.00219	0.00302	0.00486	0.008	0.004	0.0022	0.00219	0.05237752	0.004044767	3.144E-07	2.56E-04	3.76E-03	5.81E-04	1.57E-02	1.49E-02	6.19E-02
4211	496863.09	3855877.25	0.005	0.0022	0.00302	0.00483	0.008	0.004	0.0022	0.0022	0.05216885	0.004063236	3.144E-07	2.54E-04	3.65E-03	5.80E-04	1.59E-02	1.50E-02	6.16E-02
4212	497363.09	3855877.25	0.00502	0.00223	0.00303	0.00481	0.008	0.004	0.0023	0.00223	0.05237752	0.004118644	3.154E-07	2.53E-04	3.56E-03	5.82E-04	1.61E-02	1.52E-02	6.18E-02
4213	497863.09	3855877.25	0.0051	0.00228	0.00304	0.00484	0.007	0.004	0.0023	0.00228	0.05321222	0.004210991	3.165E-07	2.55E-04	3.49E-03	5.92E-04	1.64E-02	1.55E-02	6.27E-02
4214	498363.09	3855877.25	0.0054	0.00239	0.00311	0.005	0.008	0.004	0.0024	0.00239	0.05634235	0.004414152	3.238E-07	2.63E-04	3.58E-03	6.22E-04	1.73E-02	1.63E-02	6.63E-02
4215	471363.09	3856377.25	0.00149	0.00119	0.00062	0.00097	0.001	0.001	0.0012	0.00119	0.01554632	0.002197842	6.455E-08	5.11E-05	5.21E-04	1.53E-04	8.50E-03	8.09E-03	1.89E-02
4216	471863.09	3856377.25	0.00156	0.00122	0.00064	0.00101	0.001	0.001	0.0012	0.00122	0.01627668	0.002253249	6.663E-08	5.32E-05	5.39E-04	1.59E-04	8.79E-03	8.30E-03	1.98E-02
4217	472363.09	3856377.25	0.00165	0.00126	0.00068	0.00106	0.001	0.001	0.0013	0.00126	0.01721572	0.002327126	7.079E-08	5.58E-05	5.63E-04	1.67E-04	9.14E-03	8.57E-03	2.09E-02
4218	472863.09	3856377.25	0.00175	0.00132	0.00072	0.00112	0.001	0.001	0.0013	0.00132	0.0182591	0.002437942	7.496E-08	5.90E-05	5.91E-04	1.77E-04	9.49E-03	8.98E-03	2.20E-02
4219	473363.09	3856377.25	0.00184	0.00136	0.00077	0.00118	0.001	0.001	0.0014	0.00136	0.01919814	0.002511819	8.016E-08	6.22E-05	6.19E-04	1.87E-04	9.85E-03	9.25E-03	2.32E-02
4220	473863.09	3856377.25	0.00196	0.00143	0.00084	0.00126	0.001	0.001	0.0015	0.00143	0.02045019	0.002641104	8.745E-08	6.64E-05	6.56E-04	2.01E-04	1.03E-02	9.72E-03	2.46E-02
4221	474363.09	3856377.25	0.00206	0.00142	0.00086	0.0013	0.001	0.001	0.0015	0.00142	0.02149356	0.002622634	8.953E-08	6.85E-05	6.80E-04	2.07E-04	1.03E-02	9.66E-03	2.57E-02
4222	474863.09	3856377.25	0.00216	0.00138	0.00084	0.00132	0.001	0.001	0.0014	0.00138	0.02253694	0.002548757	8.745E-08	6.95E-05	6.99E-04	2.07E-04	1.01E-02	9.38E-03	2.67E-02
4223	475363.09	3856377.25	0.00217	0.00128	0.00083	0.00129	0.001	0.001	0.0013	0.00128	0.02264128	0.002364065	8.641E-08	6.79E-05	6.94E-04	2.03E-04	9.35E-03	8.70E-03	2.66E-02
4224	475863.09	3856377.25	0.00197	0.00116	0.00083	0.0012	0.001	0.001	0.0012	0.00116	0.02055453	0.002142434	8.641E-08	6.32E-05	6.75E-04	1.97E-04	8.29E-03	7.89E-03	2.40E-02
4225	476363.09	3856377.25	0.00199	0.00116	0.00086	0.00123	0.001	0.001	0.0012	0.00116	0.0207632	0.002142434	8.953E-08	6.48E-05	6.94E-04	2.05E-04	8.29E-03	7.89E-03	2.43E-02
4226	476863.09	3856377.25	0.00209	0.0012	0.00091	0.00129	0.002	0.002	0.0012	0.0012	0.02180658	0.002216311	9.474E-08	6.79E-05	7.27E-04	2.17E-04	8.50E-03	8.16E-03	2.54E-02
4227	477363.09	3856377.25	0.00223	0.00126	0.00099	0.00137	0.002	0.002	0.0013	0.00126	0.02326731	0.002327126	1.031E-07	7.22E-05	7.69E-04	2.29E-04	8.86E-03	8.57E-03	2.70E-02
4228	477863.09	3856377.25	0.00214	0.00124	0.001	0.00135	0.002	0.002	0.0012	0.00124	0.02232827	0.002290188	1.041E-07	7.11E-05	7.83E-04	2.34E-04	8.57E-03	8.43E-03	2.58E-02
4229	478363.09	3856377.25	0.00219	0.00125	0.00107	0.00137	0.002	0.002	0.0012	0.00125	0.02284995	0.002308657	1.114E-07	7.22E-05	7.97E-04	2.43E-04	8.50E-03	8.50E-03	2.63E-02
4230	478863.09	3856377.25	0.003	0.00151	0.00132	0.00168	0.002	0.002	0.0015	0.00151	0.03130131	0.002788858	1.374E-07	8.85E-05	9.47E-04	2.87E-04	1.06E-02	1.03E-02	3.58E-02

4231	479363.09	3856377.25	0.00365	0.00167	0.00151	0.00189	0.002	0.002	0.0017	0.00167	0.03808326	0.003084366	1.572E-07	9.96E-05	1.06E-03	3.21E-04	1.18E-02	1.14E-02	4.31E-02
4232	479863.09	3856377.25	0.00479	0.00196	0.00173	0.00237	0.003	0.003	0.002	0.00196	0.04997775	0.003619974	1.801E-07	1.25E-04	1.32E-03	3.87E-04	1.43E-02	1.33E-02	5.64E-02
4233	480363.09	3856377.25	0.00575	0.0023	0.00204	0.00284	0.003	0.003	0.0024	0.0023	0.05999417	0.004247929	2.124E-07	1.50E-04	1.60E-03	4.64E-04	1.69E-02	1.56E-02	6.77E-02
4234	480863.09	3856377.25	0.0066	0.00267	0.00245	0.00329	0.004	0.004	0.0027	0.00267	0.06886288	0.004931292	2.551E-07	1.73E-04	1.84E-03	5.37E-04	1.90E-02	1.82E-02	7.72E-02
4235	481363.09	3856377.25	0.00751	0.00318	0.00326	0.00368	0.004	0.005	0.003	0.00318	0.07835761	0.005873224	3.394E-07	1.94E-04	2.08E-03	6.49E-04	2.10E-02	2.16E-02	8.66E-02
4236	481863.09	3856377.25	0.00864	0.00387	0.00431	0.0041	0.005	0.006	0.0032	0.00387	0.09014777	0.007147602	4.487E-07	2.16E-04	2.33E-03	8.00E-04	2.28E-02	2.63E-02	9.71E-02
4237	482363.09	3856377.25	0.01077	0.00451	0.00613	0.00445	0.006	0.007	0.0034	0.00451	0.1123717	0.008329635	6.382E-07	2.34E-04	2.58E-03	9.59E-04	2.41E-02	3.07E-02	1.18E-01
4238	482863.09	3856377.25	0.01546	0.00531	0.00666	0.00493	0.006	0.008	0.0037	0.00531	0.16130607	0.009807175	6.933E-07	2.60E-04	3.00E-03	1.16E-03	2.60E-02	3.61E-02	1.65E-01
4239	483363.09	3856377.25	0.04431	0.00653	0.00865	0.00552	0.008	0.011	0.004	0.00653	0.46232032	0.012060425	9.005E-07	2.91E-04	3.52E-03	1.54E-03	2.83E-02	4.44E-02	4.64E-01
4240	483863.09	3856377.25	0.09996	0.00906	0.01446	0.00628	0.009	0.018	0.0045	0.00906	1.04295958	0.016733147	1.505E-06	3.31E-04	4.18E-03	2.57E-03	3.21E-02	6.16E-02	1.04E+00
4241	484363.09	3856377.25	0.1145	0.01666	0.03634	0.00741	0.011	0.179	0.0055	0.01666	1.19466658	0.030769782	3.783E-06	3.90E-04	5.01E-03	2.52E-02	3.88E-02	1.13E-01	1.18E+00
4242	484863.09	3856377.25	0.12249	0.17119	0.04526	0.00952	0.013	0.051	0.007	0.17119	1.2780324	0.316175206	4.712E-06	5.01E-04	6.20E-03	7.11E-03	4.97E-02	1.16E+00	4.94E-01
4243	485363.09	3856377.25	0.12795	0.04784	0.0436	0.0135	0.017	0.03	0.0104	0.04784	1.33500078	0.088356924	4.539E-06	7.11E-04	8.11E-03	4.16E-03	7.35E-02	3.25E-01	1.18E+00
4244	485863.09	3856377.25	0.13002	0.02294	0.03013	0.02446	0.024	0.03	0.026	0.02294	1.35659868	0.042368475	3.137E-06	1.29E-03	1.12E-02	4.28E-03	1.84E-01	1.56E-01	1.44E+00
4245	486363.09	3856377.25	0.11271	0.01398	0.01962	0.22468	0.033	0.304	0.0993	0.01398	1.17599013	0.025820021	2.043E-06	1.18E-02	1.56E-02	4.27E-02	7.04E-01	9.51E-02	1.88E+00
4246	486863.09	3856377.25	0.05561	0.0114	0.01601	0.08606	0.047	0.046	0.0314	0.0114	0.58022191	0.021054953	1.667E-06	4.53E-03	2.22E-02	6.48E-03	2.22E-01	7.75E-02	7.79E-01
4247	487363.09	3856377.25	0.04077	0.01001	0.01305	0.04163	0.062	0.028	0.0195	0.01001	0.42538477	0.018487726	1.359E-06	2.19E-03	2.90E-02	3.97E-03	1.38E-01	6.81E-02	5.49E-01
4248	487863.09	3856377.25	0.03271	0.00919	0.01146	0.02872	0.065	0.022	0.0146	0.00919	0.34128859	0.016973247	1.193E-06	1.51E-03	3.05E-02	3.07E-03	1.04E-01	6.25E-02	4.35E-01
4249	488363.09	3856377.25	0.02761	0.00845	0.01016	0.02281	0.074	0.018	0.012	0.00845	0.28807637	0.015606522	1.058E-06	1.20E-03	3.49E-02	2.58E-03	8.50E-02	5.75E-02	3.70E-01
4250	488863.09	3856377.25	0.02412	0.0078	0.01025	0.01937	0.081	0.016	0.0103	0.0078	0.25166251	0.01440602	1.067E-06	1.02E-03	3.81E-02	2.28E-03	7.26E-02	5.30E-02	3.27E-01
4251	489363.09	3856377.25	0.02166	0.00723	0.00925	0.01708	0.079	0.015	0.009	0.00723	0.22599544	0.013353273	9.63E-07	9.00E-04	3.69E-02	2.10E-03	6.38E-02	4.92E-02	2.94E-01
4252	489863.09	3856377.25	0.01973	0.00673	0.00866	0.0157	0.072	0.014	0.0081	0.00673	0.20585827	0.01242981	9.016E-07	8.27E-04	3.40E-02	1.93E-03	5.71E-02	4.58E-02	2.66E-01
4253	490363.09	3856377.25	0.01825	0.00624	0.00823	0.01505	0.065	0.013	0.0073	0.00624	0.19041629	0.011524816	8.568E-07	7.93E-04	3.04E-02	1.80E-03	5.19E-02	4.24E-02	2.44E-01
4254	490863.09	3856377.25	0.01707	0.00582	0.00774	0.01478	0.057	0.012	0.0068	0.00582	0.17810444	0.010749107	8.058E-07	7.79E-04	2.68E-02	1.69E-03	4.78E-02	3.96E-02	2.26E-01
4255	491363.09	3856377.25	0.01602	0.0055	0.00759	0.01556	0.05	0.011	0.0063	0.0055	0.16714898	0.010158091	7.902E-07	8.20E-04	2.36E-02	1.61E-03	4.45E-02	3.74E-02	2.10E-01
4256	491863.09	3856377.25	0.01516	0.00519	0.0073	0.01589	0.044	0.011	0.0059	0.00519	0.15817594	0.009585544	7.6E-07	8.37E-04	2.07E-02	1.52E-03	4.16E-02	3.53E-02	1.97E-01
4257	492363.09	3856377.25	0.01446	0.00484	0.00688	0.01486	0.038	0.01	0.0055	0.00484	0.1508723	0.00893912	7.163E-07	7.83E-04	1.79E-02	1.41E-03	3.86E-02	3.29E-02	1.86E-01
4258	492863.09	3856377.25	0.01347	0.00429	0.00601	0.01437	0.03	0.009	0.0049	0.00429	0.14054287	0.007923311	6.257E-07	7.57E-04	1.43E-02	1.25E-03	3.44E-02	2.92E-02	1.70E-01
4259	493363.09	3856377.25	0.01087	0.0035	0.00474	0.01093	0.02	0.007	0.0038	0.0035	0.11341507	0.00646424	4.935E-07	5.76E-04	9.60E-03	1.01E-03	2.72E-02	2.38E-02	1.34E-01
4260	493863.09	3856377.25	0.00898	0.00315	0.0043	0.00928	0.017	0.006	0.0034	0.00315	0.09369525	0.005817816	4.477E-07	4.89E-04	7.77E-03	9.06E-04	2.38E-02	2.14E-02	1.11E-01
4261	494363.09	3856377.25	0.0072	0.00277	0.00387	0.00782	0.013	0.006	0.0029	0.00277	0.07512314	0.005115984	4.029E-07	4.12E-04	6.18E-03	7.96E-04	2.03E-02	1.88E-02	8.91E-02
4262	494863.09	3856377.25	0.00602	0.00248	0.0035	0.00676	0.011	0.005	0.0025	0.00248	0.06281129	0.004580376	3.644E-07	3.56E-04	5.07E-03	7.09E-04	1.79E-02	1.69E-02	7.45E-02
4263	495363.09	3856377.25	0.00535	0.0023	0.00326	0.006	0.009	0.005	0.0023	0.0023	0.05582067	0.004247929	3.394E-07	3.16E-04	4.33E-03	6.56E-04	1.64E-02	1.56E-02	6.62E-02
4264	495863.09	3856377.25	0.00514	0.00226	0.00319	0.00567	0.009	0.005	0.0023	0.00226	0.05362957	0.004174052	3.321E-07	2.99E-04	4.00E-03	6.39E-04	1.61E-02	1.54E-02	6.35E-02
4265	496363.09	3856377.25	0.00509	0.00226	0.00315	0.00549	0.008	0.005	0.0023	0.00226	0.05310789	0.004174052	3.279E-07	2.89E-04	3.80E-03	6.34E-04	1.60E-02	1.54E-02	6.26E-02
4266	496863.09	3856377.25	0.00518	0.00231	0.00317	0.00547	0.008	0.005	0.0023	0.00231	0.05404692	0.004266398	3.3E-07	2.88E-04	3.74E-03	6.43E-04	1.64E-02	1.57E-02	6.37E-02
4267	497363.09	3856377.25	0.00527	0.00236	0.00317	0.00547	0.008	0.005	0.0024	0.00236	0.05498596	0.004358745	3.3E-07	2.88E-04	3.64E-03	6.51E-04	1.68E-02	1.60E-02	6.47E-02
4268	497863.09	3856377.25	0.00547	0.00243	0.00321	0.00553	0.008	0.005	0.0025	0.00243	0.05707272	0.004488029	3.342E-07	2.91E-04	3.63E-03	6.74E-04	1.74E-02	1.65E-02	6.71E-02
4269	498363.09	3856377.25	0.00579	0.00253	0.00326	0.00565	0.008	0.005	0.0026	0.00253	0.06041152	0.004672722	3.394E-07	2.98E-04	3.70E-03	7.47E-04	1.83E-02	1.72E-02	7.09E-02
4270	471363.09	3856877.25	0.00147	0.00115	0.00062	0.00099	0.001	0.001	0.0012	0.00115	0.01533764	0.002123965	6.455E-08	5.21E-05	5.11E-04	1.55E-04	8.29E-03	7.82E-03	1.86E-02
4271	471863.09	3856877.25	0.00154	0.00117	0.00064	0.00102	0.001	0.001	0.0012	0.00117	0.016068	0.002160903	6.663E-08	5.37E-05	5.30E-04	1.60E-04	8.43E-03	7.96E-03	1.94E-02
4272	472363.09	3856877.25	0.00162	0.00121	0.00068	0.00107	0.001	0.001	0.0012	0.00121	0.01690271	0.00223478	7.079E-08	5.64E-05	5.49E-04	1.69E-04	8.71E-03	8.23E-03	2.04E-02
4273	472863.09	3856877.25	0.00171	0.00124	0.00071	0.00112	0.001	0.001	0.0013	0.00124	0.01784175	0.002290188	7.392E-08	5.90E-05	5.72E-04	1.77E-04	9.00E-03	8.43E-03	2.15E-02
4274	473363.09	3856877.25	0.00182	0.00131	0.00076	0.00119	0.001	0.001	0.0013	0.00131	0.01898946	0.002419473	7.912E-08	6.27E-05	6.00E-04	1.89E-04	9.49E-03	8.91E-03	2.28E-02
4275	473863.09	3856877.25	0.00193	0.00136	0.0008	0.00125	0.001	0.001	0.0014	0.00136	0.02013717	0.002511819	8.328E-08	6.58E-05	6.24E-04	1.98E-04	9.85E-03	9.25E-03	2.41E-02
4276	474363.09	3856877.25	0.00203	0.00136	0.0008	0.00128	0.001	0.001	0.0014	0.00136	0.02118055	0.002511819	8.328E-08	6.74E-05	6.47E-04	2.01E-04	9.85E-03	9.25E-03	2.52E-02
4277	474863.09	3856877.25	0.00212	0.00132	0.00078	0.00129	0.001	0.001	0.0014	0.00132	0.02211959	0.002437942	8.12E-08	6.79E-05	6.61E-04	2.01E-04	9.71E-03	8.98E-03	2.62E-02
4278	475363.09	3856877.25	0.00216	0.00126	0.00079	0.00128	0.001	0.001	0.0013	0.00126	0.02253694	0.002327126	8.224E-08	6.74E-05	6.71E-04	2.00E-04	9.21E-03	8.57E-03	2.64E-02
4279	475863.09	3856877.25	0.00227	0.00126	0.00083	0.00132	0.001	0.001	0.0013	0.00126	0.02368466	0.002327126	8.641E-08	6.95E-05	6.99E-04	2.07E-04	9.28E-03	8.57E-03	2.77E-02
4280	476363.09	3856877.25	0.00226	0.00122	0.00085	0.00131	0.002	0.001	0.0013	0.00122	0.02358032	0.002253249	8.849E-08	6.90E-05	7.13E-04	2.10E-04	8.86E-03	8.30E-03	2.74E-02
4281	476863.09	3856877.25	0.00229	0.00123	0.00091	0.00134	0.002	0.002	0.0013	0.00123	0.02389333	0.002271719	9.474E-08	7.06E-05	7.36E-04	2.17E-04	8.86E-03	8.36E-03	2.77E-02
4282	477363.09	3856877.25	0.00227	0.00123	0.00097	0.00134	0.002	0.002	0.0012	0.00123	0.02368466	0.002271719	1.01E-07	7.06E-05	7.60E-04	2.22E-04	8.71E-03	8.36E-03	2.74E-02
4283	477863.09	3856877.25	0.00201	0.00116	0.00097	0.00128	0.002	0.002	0.0011	0.00116	0.02097188	0.002142434	1.01E-07	6.74E-05	7.36E-04	2.19E-04	8.08E-03	7.89E-03	2.43E-02
4284	478363.09	3856877.25	0.00205	0.00117	0.00101	0.00131	0.002	0.002	0.0011	0.00117	0.02138923	0.002160903	1.051E-07	6.90E-05	7.64E-04	2.28E-04	8.01E-03	7.96E-03	2.47E-02
4285	478863.09	3856877.25	0.00232	0.00128	0.0011	0.00145	0.002	0.002	0.0012	0.00128	0.02420634	0.002364065	1.145E-07	7.64E-05	8.39E-04	2.52E-04	8.79E-03	8.70E-03	2.78E-02
4286	479363.09	3856877.25	0.00277	0.00141	0.00122	0.00163	0.002	0.002	0.0014	0.00141	0.02890154	0.002604165	1.27E-07	8.59E-05	9.43E-04	2.81E-04	9.78E-03	9.59E-03	3.30E-02
4287	479863.09	3856877.25	0.00451	0.0018	0.00155	0.00227	0.002	0.003	0.0019	0.0018	0.0470563	0.003324466	1.614E-07	1.20E-04	1.17E-03	3.64E-04	1.32E-02	1.22E-02	5.30E-02
4288	480363.09	3856877.25	0.00544	0.00215	0.0019	0.00276	0.003	0.003	0.0022	0.00215	0.0567597	0.00397089	1.978E-07	1.45E-04	1.39E-03	4.45E-04	1.58E-02	1.46E-02	6.39E-02

4289	480863.09	3856877.25	0.00605	0.0026	0.00269	0.00315	0.003	0.004	0.0025	0.0026	0.0631243	0.004802007	2.8E-07	1.66E-04	1.60E-03	5.39E-04	1.80E-02	1.77E-02	7.05E-02
4290	481363.09	3856877.25	0.00666	0.00301	0.00326	0.00348	0.004	0.005	0.0028	0.00301	0.0694889	0.005559246	3.394E-07	1.83E-04	1.84E-03	6.44E-04	1.95E-02	2.05E-02	7.67E-02
4291	481863.09	3856877.25	0.0076	0.00336	0.00388	0.00382	0.004	0.005	0.0029	0.00336	0.07929665	0.00620567	4.039E-07	2.01E-04	2.07E-03	7.22E-04	2.08E-02	2.28E-02	8.64E-02
4292	482363.09	3856877.25	0.0087	0.00395	0.00521	0.00411	0.005	0.006	0.0031	0.00395	0.09077379	0.007295356	5.424E-07	2.16E-04	2.29E-03	8.60E-04	2.20E-02	2.69E-02	9.65E-02
4293	482863.09	3856877.25	0.01121	0.00447	0.00526	0.00448	0.006	0.007	0.0033	0.00447	0.11696255	0.008255758	5.476E-07	2.36E-04	2.62E-03	1.00E-03	2.35E-02	3.04E-02	1.22E-01
4294	483363.09	3856877.25	0.01823	0.00517	0.00572	0.00499	0.007	0.009	0.0036	0.00517	0.19020761	0.009548606	5.955E-07	2.63E-04	3.09E-03	1.21E-03	2.54E-02	3.52E-02	1.95E-01
4295	483863.09	3856877.25	0.08123	0.00629	0.00723	0.0056	0.008	0.011	0.004	0.00629	0.84753508	0.011617162	7.527E-07	2.95E-04	3.73E-03	1.55E-03	2.80E-02	4.28E-02	8.50E-01
4296	484363.09	3856877.25	0.102	0.00859	0.0093	0.00639	0.01	0.017	0.0045	0.00859	1.06424447	0.015865092	9.682E-07	3.37E-04	4.68E-03	2.42E-03	3.19E-02	5.84E-02	1.06E+00
4297	484863.09	3856877.25	0.11211	0.01386	0.00886	0.00751	0.013	0.071	0.0054	0.01386	1.16972987	0.02559839	9.224E-07	3.96E-04	6.10E-03	9.95E-03	3.80E-02	9.42E-02	1.16E+00
4298	485363.09	3856877.25	0.11884	0.05183	0.01042	0.00946	0.018	0.06	0.0068	0.05183	1.23994914	0.095726158	1.085E-06	4.98E-04	8.60E-03	8.38E-03	4.84E-02	3.52E-01	1.05E+00
4299	485863.09	3856877.25	0.12422	0.06758	0.00996	0.01299	0.029	0.032	0.01	0.06758	1.29608282	0.124815237	1.037E-06	6.84E-04	1.34E-02	4.53E-03	7.07E-02	4.60E-01	1.05E+00
4300	486363.09	3856877.25	0.13048	0.0222	0.0095	0.02308	0.055	0.028	0.0246	0.0222	1.36139821	0.04100175	9.89E-07	1.22E-03	2.57E-02	3.98E-03	1.74E-01	1.51E-01	1.46E+00
4301	486863.09	3856877.25	0.1187	0.01603	0.01049	0.12017	0.158	0.212	0.1153	0.01603	1.23848841	0.029606219	1.092E-06	6.33E-03	7.39E-02	2.98E-02	8.17E-01	1.09E-01	2.09E+00
4302	487363.09	3856877.25	0.05506	0.01332	0.00976	0.09556	1.947	0.054	0.0325	0.01332	0.57448334	0.02460105	1.016E-06	5.03E-03	9.13E-01	7.56E-03	2.31E-01	9.06E-02	1.66E+00
4303	487863.09	3856877.25	0.0393	0.01158	0.00936	0.04402	1.604	0.032	0.0198	0.01158	0.41004713	0.021387399	9.744E-07	2.32E-03	7.52E-01	4.47E-03	1.41E-01	7.87E-02	1.25E+00
4304	488363.09	3856877.25	0.03139	0.01043	0.01055	0.03032	0.481	0.025	0.0147	0.01043	0.32751602	0.019263435	1.098E-06	1.60E-03	2.26E-01	3.46E-03	1.04E-01	7.09E-02	6.11E-01
4305	488863.09	3856877.25	0.02671	0.00942	0.01015	0.02433	0.273	0.021	0.012	0.00942	0.27868598	0.01739804	1.057E-06	1.28E-03	1.28E-01	2.95E-03	8.50E-02	6.41E-02	4.49E-01
4306	489363.09	3856877.25	0.02358	0.00862	0.0105	0.02085	0.181	0.019	0.0103	0.00862	0.24602828	0.015920499	1.093E-06	1.10E-03	8.50E-02	2.63E-03	7.28E-02	5.86E-02	3.65E-01
4307	489863.09	3856877.25	0.02136	0.00789	0.00976	0.01913	0.13	0.017	0.0091	0.00789	0.22286531	0.014572244	1.016E-06	1.01E-03	6.12E-02	2.40E-03	6.42E-02	5.37E-02	3.13E-01
4308	490363.09	3856877.25	0.01981	0.00719	0.00984	0.01855	0.098	0.016	0.0081	0.00719	0.20669297	0.013279396	1.024E-06	9.77E-04	4.62E-02	2.20E-03	5.74E-02	4.89E-02	2.78E-01
4309	490863.09	3856877.25	0.0185	0.00661	0.00928	0.02031	0.076	0.015	0.0073	0.00661	0.19302473	0.012208179	9.661E-07	1.07E-03	3.58E-02	2.04E-03	5.19E-02	4.49E-02	2.51E-01
4310	491363.09	3856877.25	0.01734	0.00612	0.00875	0.02842	0.061	0.014	0.0067	0.00612	0.18092156	0.011303185	9.109E-07	1.50E-03	2.86E-02	1.90E-03	4.73E-02	4.16E-02	2.30E-01
4311	491863.09	3856877.25	0.0164	0.00566	0.00834	0.15984	0.05	0.013	0.0061	0.00566	0.17111382	0.010453599	8.682E-07	8.42E-03	2.32E-02	1.77E-03	4.35E-02	3.85E-02	2.20E-01
4312	492363.09	3856877.25	0.01551	0.0048	0.00713	0.10158	0.038	0.011	0.0053	0.0048	0.16182776	0.008865243	7.423E-07	5.35E-03	1.77E-02	1.51E-03	3.76E-02	3.26E-02	2.00E-01
4313	492863.09	3856877.25	0.01399	0.0042	0.00608	0.02926	0.029	0.009	0.0046	0.0042	0.14596843	0.007757088	6.33E-07	1.54E-03	1.34E-02	1.32E-03	3.26E-02	2.86E-02	1.74E-01
4314	493363.09	3856877.25	0.01154	0.00365	0.0052	0.01669	0.021	0.008	0.0039	0.00365	0.1204057	0.006741279	5.414E-07	8.79E-04	9.82E-03	1.13E-03	2.76E-02	2.48E-02	1.42E-01
4315	493863.09	3856877.25	0.00864	0.00313	0.00446	0.01169	0.015	0.007	0.0032	0.00313	0.09014777	0.005780877	4.643E-07	6.16E-04	7.26E-03	9.65E-04	2.29E-02	2.13E-02	1.06E-01
4316	494363.09	3856877.25	0.00683	0.00276	0.00398	0.00907	0.012	0.006	0.0028	0.00276	0.07126264	0.005097515	4.143E-07	4.78E-04	5.66E-03	8.43E-04	1.97E-02	1.88E-02	8.43E-02
4317	494863.09	3856877.25	0.00609	0.00258	0.00374	0.00776	0.01	0.006	0.0026	0.00258	0.06354165	0.004765068	3.894E-07	4.09E-04	4.85E-03	7.84E-04	1.83E-02	1.75E-02	7.51E-02
4318	495363.09	3856877.25	0.00567	0.00247	0.00358	0.00697	0.009	0.005	0.0025	0.00247	0.05915947	0.004561906	3.727E-07	3.67E-04	4.42E-03	7.51E-04	1.74E-02	1.68E-02	6.99E-02
4319	495863.09	3856877.25	0.00549	0.00244	0.00347	0.00656	0.009	0.005	0.0024	0.00244	0.05728139	0.004506499	3.612E-07	3.46E-04	4.01E-03	7.43E-04	1.72E-02	1.66E-02	6.75E-02
4320	496363.09	3856877.25	0.00538	0.00243	0.00337	0.00624	0.008	0.005	0.0024	0.00243	0.05613368	0.004488029	3.508E-07	3.29E-04	3.77E-03	7.37E-04	1.71E-02	1.65E-02	6.60E-02
4321	496863.09	3856877.25	0.00537	0.00245	0.00334	0.00604	0.008	0.005	0.0024	0.00245	0.05602934	0.004524968	3.477E-07	3.18E-04	3.62E-03	7.46E-04	1.73E-02	1.67E-02	6.59E-02
4322	497363.09	3856877.25	0.00548	0.0025	0.00334	0.00596	0.008	0.005	0.0025	0.0025	0.05717706	0.004617314	3.477E-07	3.14E-04	3.54E-03	7.54E-04	1.77E-02	1.70E-02	6.71E-02
4323	497863.09	3856877.25	0.00587	0.00262	0.00344	0.00608	0.008	0.006	0.0026	0.00262	0.06124623	0.004838945	3.581E-07	3.20E-04	3.60E-03	8.51E-04	1.86E-02	1.78E-02	7.17E-02
4324	498363.09	3856877.25	0.00636	0.00275	0.00356	0.00629	0.008	0.006	0.0028	0.00275	0.06635877	0.005079046	3.706E-07	3.31E-04	3.72E-03	9.00E-04	1.98E-02	1.87E-02	7.75E-02
4325	471363.09	3857377.25	0.00147	0.00113	0.00062	0.00101	0.001	0.001	0.0012	0.00113	0.01533764	0.002087026	6.455E-08	5.32E-05	4.88E-04	1.56E-04	8.15E-03	7.68E-03	1.86E-02
4326	471863.09	3857377.25	0.00153	0.00114	0.00063	0.00104	0.001	0.001	0.0012	0.00114	0.01596367	0.002105495	6.559E-08	5.48E-05	5.06E-04	1.60E-04	8.29E-03	7.75E-03	1.93E-02
4327	472363.09	3857377.25	0.00161	0.00117	0.00065	0.00108	0.001	0.001	0.0012	0.00117	0.01679837	0.002160903	6.767E-08	5.69E-05	5.25E-04	1.66E-04	8.50E-03	7.96E-03	2.03E-02
4328	472863.09	3857377.25	0.00169	0.0012	0.00068	0.00112	0.001	0.001	0.0012	0.0012	0.01763307	0.002216311	7.079E-08	5.90E-05	5.44E-04	1.74E-04	8.71E-03	8.16E-03	2.12E-02
4329	473363.09	3857377.25	0.00179	0.00125	0.00073	0.00117	0.001	0.001	0.0013	0.00125	0.01867645	0.002308657	7.6E-08	6.16E-05	5.67E-04	1.84E-04	9.00E-03	8.50E-03	2.23E-02
4330	473863.09	3857377.25	0.0019	0.00131	0.00079	0.00124	0.001	0.001	0.0013	0.00131	0.01982416	0.002419473	8.224E-08	6.53E-05	5.91E-04	1.96E-04	9.42E-03	8.91E-03	2.36E-02
4331	474363.09	3857377.25	0.00199	0.00128	0.00078	0.00125	0.001	0.001	0.0013	0.00128	0.0207632	0.002364065	8.12E-08	6.58E-05	6.10E-04	1.96E-04	9.28E-03	8.70E-03	2.46E-02
4332	474863.09	3857377.25	0.00199	0.00116	0.00072	0.0012	0.001	0.001	0.0012	0.00116	0.0207632	0.002142434	7.496E-08	6.32E-05	6.24E-04	1.86E-04	8.50E-03	7.89E-03	2.44E-02
4333	475363.09	3857377.25	0.00181	0.00105	0.00072	0.00112	0.001	0.001	0.0011	0.00105	0.01888512	0.001939272	7.496E-08	5.90E-05	6.33E-04	1.76E-04	7.58E-03	7.14E-03	2.21E-02
4334	475863.09	3857377.25	0.0018	0.00105	0.00076	0.00113	0.001	0.001	0.0011	0.00105	0.01878078	0.001939272	7.912E-08	5.95E-05	6.56E-04	1.80E-04	7.51E-03	7.14E-03	2.20E-02
4335	476363.09	3857377.25	0.00212	0.00114	0.00086	0.00125	0.001	0.001	0.0012	0.00114	0.02211959	0.002105495	8.953E-08	6.58E-05	6.99E-04	2.00E-04	8.29E-03	7.75E-03	2.57E-02
4336	476863.09	3857377.25	0.00226	0.00119	0.00094	0.00131	0.002	0.002	0.0012	0.00119	0.02358032	0.002197842	9.786E-08	6.90E-05	7.32E-04	2.11E-04	8.57E-03	8.09E-03	2.73E-02
4337	477363.09	3857377.25	0.00222	0.00118	0.00092	0.00132	0.002	0.002	0.0012	0.00118	0.02316297	0.002179372	9.578E-08	6.95E-05	7.60E-04	2.15E-04	8.43E-03	8.02E-03	2.68E-02
4338	477863.09	3857377.25	0.00201	0.00114	0.0009	0.00128	0.002	0.002	0.0011	0.00114	0.02097188	0.002105495	9.37E-08	6.74E-05	7.78E-04	2.14E-04	8.01E-03	7.75E-03	2.44E-02
4339	478363.09	3857377.25	0.00191	0.00111	0.00091	0.00125	0.002	0.002	0.0011	0.00111	0.0199285	0.002050087	9.474E-08	6.58E-05	7.64E-04	2.15E-04	7.65E-03	7.55E-03	2.31E-02
4340	478863.09	3857377.25	0.0019	0.0011	0.00094	0.00128	0.002	0.002	0.0011	0.0011	0.01982416	0.002031618	9.786E-08	6.74E-05	7.78E-04	2.19E-04	7.58E-03	7.48E-03	2.30E-02
4341	479363.09	3857377.25	0.00235	0.00127	0.00106	0.00148	0.002	0.002	0.0012	0.00127	0.02451936	0.002345596	1.104E-07	7.80E-05	9.14E-04	2.52E-04	8.79E-03	8.64E-03	2.83E-02
4342	479863.09	3857377.25	0.00409	0.00162	0.00129	0.00203	0.002	0.002	0.0017	0.00162	0.04267412	0.00299202	1.343E-07	1.07E-04	1.07E-03	3.25E-04	1.19E-02	1.10E-02	4.81E-02
4343	480363.09	3857377.25	0.00392	0.0016	0.00136	0.00199	0.002	0.002	0.0016	0.0016	0.04090038	0.002955081	1.416E-07	1.05E-04	1.12E-03	3.28E-04	1.15E-02	1.09E-02	4.60E-02
4344	480863.09	3857377.25	0.00559	0.00243	0.00245	0.00301	0.003	0.004	0.0024	0.00243	0.05832477	0.004488029	2.551E-07	1.59E-04	1.48E-03	5.12E-04	1.69E-02	1.65E-02	6.53E-02
4345	481363.09	3857377.25	0.00629	0.00254	0.00265	0.00329	0.004	0.004	0.0025	0.00254	0.06562841	0.004691191	2.759E-07	1.73E-04	1.65E-03	5.53E-04	1.77E-02	1.73E-02	7.31E-02
4346	481863.09	3857377.25	0.00685	0.00291	0.00349	0.00363	0.004	0.005	0.0027	0.00291	0.07147132	0.005374554	3.633E-07	1.91E-04	1.93E-03	6.47E-04	1.91E-02	1.98E-02	7.90E-02

4347	482363.09	3857377.25	0.00725	0.00348	0.00376	0.00389	0.005	0.006	0.0029	0.00348	0.07564483	0.006427301	3.914E-07	2.05E-04	2.22E-03	7.95E-04	2.04E-02	2.37E-02	8.20E-02
4348	482863.09	3857377.25	0.00831	0.00387	0.00419	0.00418	0.005	0.006	0.003	0.00387	0.08670462	0.007147602	4.362E-07	2.20E-04	2.53E-03	9.07E-04	2.15E-02	2.63E-02	9.27E-02
4349	483363.09	3857377.25	0.00982	0.00432	0.00472	0.00455	0.006	0.007	0.0032	0.00432	0.10245961	0.007978719	4.914E-07	2.40E-04	2.98E-03	1.05E-03	2.30E-02	2.94E-02	1.08E-01
4350	483863.09	3857377.25	0.01186	0.005	0.00595	0.00502	0.008	0.009	0.0035	0.005	0.1237445	0.009234628	6.194E-07	2.64E-04	3.63E-03	1.26E-03	2.51E-02	3.40E-02	1.29E-01
4351	484363.09	3857377.25	0.01536	0.00606	0.00561	0.00562	0.01	0.012	0.0039	0.00606	0.1602627	0.01119237	5.84E-07	2.96E-04	4.58E-03	1.62E-03	2.78E-02	4.12E-02	1.65E-01
4352	484863.09	3857377.25	0.02082	0.008	0.00554	0.00646	0.013	0.017	0.0045	0.008	0.21723108	0.014775405	5.767E-07	3.40E-04	6.04E-03	2.40E-03	3.20E-02	5.44E-02	2.18E-01
4353	485363.09	3857377.25	0.03695	0.0119	0.00719	0.00768	0.018	0.045	0.0053	0.0119	0.38552777	0.021978415	7.485E-07	4.05E-04	8.37E-03	6.40E-03	3.74E-02	8.09E-02	3.79E-01
4354	485863.09	3857377.25	0.0966	0.02822	0.00871	0.00948	0.026	0.079	0.0066	0.02822	1.00790211	0.052120242	9.068E-07	4.99E-04	1.24E-02	1.11E-02	4.68E-02	1.92E-01	9.39E-01
4355	486363.09	3857377.25	0.11432	0.10234	0.0098	0.01317	0.046	0.036	0.0098	0.10234	1.1927885	0.189014373	1.02E-06	6.94E-04	2.17E-02	5.10E-03	6.95E-02	6.96E-01	7.83E-01
4356	486863.09	3857377.25	0.12338	0.02815	0.01084	0.02213	0.102	0.031	0.0226	0.02815	1.28731845	0.051990958	1.129E-06	1.17E-03	4.79E-02	4.37E-03	1.60E-01	1.91E-01	1.36E+00
4357	487363.09	3857377.25	0.11866	0.02002	0.0117	0.08671	0.285	0.092	0.137	0.02002	1.23807106	0.036975452	1.218E-06	4.57E-03	1.33E-01	1.29E-02	9.71E-01	1.36E-01	2.26E+00
4358	487863.09	3857377.25	0.05555	0.01628	0.01335	0.10832	2.14	0.067	0.0337	0.01628	0.57959588	0.03006795	1.39E-06	5.71E-03	1.00E+00	9.40E-03	2.39E-01	1.11E-01	1.76E+00
4359	488363.09	3857377.25	0.03891	0.01373	0.01613	0.04774	0.931	0.039	0.0202	0.01373	0.40597796	0.025358289	1.679E-06	2.51E-03	4.37E-01	5.42E-03	1.43E-01	9.34E-02	9.26E-01
4360	488863.09	3857377.25	0.03118	0.01198	0.01713	0.03363	0.346	0.03	0.0149	0.01198	0.32532493	0.02212617	1.783E-06	1.77E-03	1.62E-01	4.28E-03	1.06E-01	8.15E-02	5.40E-01
4361	489363.09	3857377.25	0.02681	0.01061	0.01803	0.02736	0.193	0.026	0.0121	0.01061	0.27972935	0.019595881	1.877E-06	1.44E-03	9.06E-02	3.66E-03	8.58E-02	7.21E-02	4.09E-01
4362	489863.09	3857377.25	0.02408	0.00942	0.01574	0.02488	0.128	0.023	0.0103	0.00942	0.25124516	0.01739804	1.639E-06	1.31E-03	5.99E-02	3.18E-03	7.30E-02	6.41E-02	3.42E-01
4363	490363.09	3857377.25	0.02215	0.00848	0.014	0.02486	0.091	0.02	0.0091	0.00848	0.23110799	0.01566193	1.457E-06	1.31E-03	4.29E-02	2.81E-03	6.42E-02	5.77E-02	3.00E-01
4364	490863.09	3857377.25	0.02049	0.00771	0.01232	0.02939	0.069	0.018	0.0081	0.00771	0.21378793	0.014239797	1.283E-06	1.55E-03	3.24E-02	2.53E-03	5.73E-02	5.24E-02	2.69E-01
4365	491363.09	3857377.25	0.01898	0.00706	0.01109	0.06981	0.054	0.016	0.0073	0.00706	0.19803294	0.013039295	1.155E-06	3.68E-03	2.54E-02	2.31E-03	5.19E-02	4.80E-02	2.46E-01
4366	491863.09	3857377.25	0.01786	0.00627	0.00981	0.09765	0.044	0.015	0.0065	0.00627	0.18634712	0.011580224	1.021E-06	5.14E-03	2.04E-02	2.05E-03	4.63E-02	4.26E-02	2.29E-01
4367	492363.09	3857377.25	0.01658	0.00499	0.00753	0.03393	0.031	0.012	0.0053	0.00499	0.17299189	0.009216159	7.839E-07	1.79E-03	1.48E-02	1.64E-03	3.76E-02	3.39E-02	2.04E-01
4368	492863.09	3857377.25	0.01364	0.00412	0.00628	0.02049	0.021	0.01	0.0043	0.00412	0.14231661	0.007609334	6.538E-07	1.08E-03	1.00E-02	1.35E-03	3.04E-02	2.80E-02	1.65E-01
4369	493363.09	3857377.25	0.01009	0.00352	0.00525	0.01443	0.015	0.008	0.0036	0.00352	0.10527673	0.006501178	5.466E-07	7.60E-04	7.26E-03	1.14E-03	2.52E-02	2.39E-02	1.22E-01
4370	493863.09	3857377.25	0.00862	0.00325	0.00488	0.01176	0.013	0.007	0.0033	0.00325	0.08993909	0.006002508	5.08E-07	6.19E-04	6.00E-03	1.05E-03	2.30E-02	2.21E-02	1.05E-01
4371	494363.09	3857377.25	0.00736	0.003	0.00451	0.00978	0.011	0.007	0.003	0.003	0.07679254	0.005540777	4.695E-07	5.15E-04	5.01E-03	9.66E-04	2.10E-02	2.04E-02	8.95E-02
4372	494863.09	3857377.25	0.00672	0.00287	0.00425	0.00863	0.009	0.007	0.0028	0.00287	0.07011493	0.005300677	4.425E-07	4.55E-04	4.43E-03	9.31E-04	2.01E-02	1.95E-02	8.18E-02
4373	495363.09	3857377.25	0.00623	0.00276	0.00396	0.00778	0.008	0.007	0.0027	0.00276	0.06500238	0.005097515	4.123E-07	4.10E-04	3.98E-03	9.16E-04	1.93E-02	1.88E-02	7.59E-02
4374	495863.09	3857377.25	0.00602	0.00272	0.00382	0.00728	0.008	0.007	0.0027	0.00272	0.06281129	0.005023638	3.977E-07	3.83E-04	3.70E-03	9.43E-04	1.90E-02	1.85E-02	7.34E-02
4375	496363.09	3857377.25	0.00588	0.00269	0.00369	0.0069	0.007	0.007	0.0027	0.00269	0.06135056	0.00496823	3.842E-07	3.63E-04	3.49E-03	1.00E-03	1.89E-02	1.83E-02	7.18E-02
4376	496863.09	3857377.25	0.0058	0.00268	0.00362	0.00661	0.007	0.007	0.0027	0.00268	0.06051586	0.004949761	3.769E-07	3.48E-04	3.33E-03	1.05E-03	1.88E-02	1.82E-02	7.08E-02
4377	497363.09	3857377.25	0.00593	0.00272	0.0036	0.00649	0.007	0.008	0.0027	0.00272	0.06187225	0.005023638	3.748E-07	3.42E-04	3.26E-03	1.12E-03	1.92E-02	1.85E-02	7.23E-02
4378	497863.09	3857377.25	0.00621	0.0028	0.00365	0.0065	0.007	0.009	0.0028	0.0028	0.06479371	0.005171392	3.8E-07	3.42E-04	3.30E-03	1.32E-03	1.99E-02	1.90E-02	7.58E-02
4379	498363.09	3857377.25	0.007	0.00304	0.00389	0.007	0.008	0.01	0.0031	0.00304	0.07303638	0.005614654	4.05E-07	3.69E-04	3.57E-03	1.43E-03	2.19E-02	2.07E-02	8.52E-02
4380	471363.09	3857877.25	0.00147	0.00109	0.0006	0.00099	0.001	0.001	0.0011	0.00109	0.01533764	0.002013149	6.246E-08	5.21E-05	4.78E-04	1.53E-04	7.86E-03	7.41E-03	1.85E-02
4381	471863.09	3857877.25	0.00153	0.00111	0.00063	0.00102	0.001	0.001	0.0011	0.00111	0.01596367	0.002050087	6.559E-08	5.37E-05	4.97E-04	1.59E-04	8.01E-03	7.55E-03	1.92E-02
4382	472363.09	3857877.25	0.0016	0.00113	0.00066	0.00106	0.001	0.001	0.0012	0.00113	0.01669403	0.002087026	6.871E-08	5.58E-05	5.16E-04	1.65E-04	8.15E-03	7.68E-03	2.00E-02
4383	472863.09	3857877.25	0.00168	0.00118	0.0007	0.00112	0.001	0.001	0.0012	0.00118	0.01752873	0.002179372	7.287E-08	5.90E-05	5.44E-04	1.74E-04	8.50E-03	8.02E-03	2.10E-02
4384	473363.09	3857877.25	0.00177	0.00121	0.00074	0.00116	0.001	0.001	0.0012	0.00121	0.01846777	0.00223478	7.704E-08	6.11E-05	5.67E-04	1.83E-04	8.71E-03	8.23E-03	2.20E-02
4385	473863.09	3857877.25	0.00187	0.00126	0.0008	0.00123	0.001	0.001	0.0013	0.00126	0.01951115	0.002327126	8.328E-08	6.48E-05	6.00E-04	1.94E-04	9.00E-03	8.57E-03	2.31E-02
4386	474363.09	3857877.25	0.00195	0.0012	0.00078	0.00124	0.001	0.001	0.0012	0.0012	0.02034585	0.002216311	8.12E-08	6.53E-05	6.14E-04	1.91E-04	8.79E-03	8.16E-03	2.41E-02
4387	474863.09	3857877.25	0.00191	0.00109	0.00076	0.00117	0.001	0.001	0.0011	0.00109	0.0199285	0.002013149	7.912E-08	6.16E-05	6.10E-04	1.79E-04	7.94E-03	7.41E-03	2.33E-02
4388	475363.09	3857877.25	0.00154	0.00093	0.0007	0.00102	0.001	0.001	0.0009	0.00093	0.016068	0.001717641	7.287E-08	5.37E-05	5.86E-04	1.60E-04	6.59E-03	6.32E-03	1.89E-02
4389	475863.09	3857877.25	0.00119	0.00079	0.0006	0.00088	0.001	0.001	0.0008	0.00079	0.01241619	0.001459071	6.246E-08	4.64E-05	5.11E-04	1.43E-04	5.46E-03	5.37E-03	1.47E-02
4390	476363.09	3857877.25	0.00174	0.00099	0.00075	0.00113	0.001	0.001	0.001	0.00099	0.01815476	0.001828456	7.808E-08	5.95E-05	6.38E-04	1.80E-04	7.01E-03	6.73E-03	2.11E-02
4391	476863.09	3857877.25	0.00202	0.00106	0.00084	0.00124	0.001	0.001	0.0011	0.00106	0.02107621	0.001957741	8.745E-08	6.53E-05	6.85E-04	1.96E-04	7.65E-03	7.21E-03	2.44E-02
4392	477363.09	3857877.25	0.00208	0.00109	0.00087	0.00128	0.002	0.001	0.0011	0.00109	0.02170224	0.002013149	9.057E-08	6.74E-05	7.03E-04	2.04E-04	7.79E-03	7.41E-03	2.51E-02
4393	477863.09	3857877.25	0.0021	0.00111	0.00092	0.00131	0.002	0.002	0.0011	0.00111	0.02191092	0.002050087	9.578E-08	6.90E-05	7.22E-04	2.11E-04	7.94E-03	7.55E-03	2.54E-02
4394	478363.09	3857877.25	0.00169	0.00101	0.00084	0.00118	0.001	0.001	0.001	0.00101	0.01763307	0.001865395	8.745E-08	6.22E-05	6.61E-04	1.98E-04	7.01E-03	6.87E-03	2.06E-02
4395	478863.09	3857877.25	0.00167	0.001	0.00082	0.00116	0.001	0.001	0.001	0.001	0.01742439	0.001846926	8.537E-08	6.11E-05	6.47E-04	1.97E-04	6.87E-03	6.80E-03	2.02E-02
4396	479363.09	3857877.25	0.00356	0.00149	0.0012	0.00185	0.002	0.002	0.0016	0.00149	0.03714422	0.002751919	1.249E-07	9.74E-05	1.01E-03	2.90E-04	1.10E-02	1.01E-02	4.21E-02
4397	479863.09	3857877.25	0.0043	0.00188	0.0017	0.00233	0.003	0.003	0.0019	0.00188	0.04486521	0.00347222	1.77E-07	1.23E-04	1.36E-03	3.71E-04	1.37E-02	1.28E-02	5.11E-02
4398	480363.09	3857877.25	0.00459	0.00214	0.00202	0.00256	0.003	0.003	0.0021	0.00214	0.047891	0.003952421	2.103E-07	1.35E-04	1.56E-03	4.29E-04	1.50E-02	1.46E-02	5.44E-02
4399	480863.09	3857877.25	0.00502	0.00226	0.00203	0.00279	0.004	0.003	0.0022	0.00226	0.05237752	0.004174052	2.113E-07	1.47E-04	1.75E-03	4.75E-04	1.57E-02	1.54E-02	5.93E-02
4400	481363.09	3857877.25	0.00549	0.00239	0.00239	0.00304	0.004	0.004	0.0023	0.00239	0.05728139	0.004414152	2.488E-07	1.60E-04	2.01E-03	5.16E-04	1.65E-02	1.63E-02	6.46E-02
4401	481863.09	3857877.25	0.00592	0.0026	0.00261	0.00331	0.005	0.004	0.0025	0.0026	0.06176791	0.004802007	2.717E-07	1.74E-04	2.34E-03	5.78E-04	1.76E-02	1.77E-02	6.96E-02
4402	482363.09	3857877.25	0.00619	0.00302	0.00303	0.00364	0.006	0.005	0.0027	0.00302	0.06458503	0.005577716	3.154E-07	1.92E-04	2.74E-03	6.91E-04	1.91E-02	2.05E-02	7.23E-02
4403	482863.09	3857877.25	0.00648	0.0034	0.00346	0.00391	0.006	0.006	0.0028	0.0034	0.06761082	0.006279547	3.602E-07	2.06E-04	3.03E-03	8.16E-04	1.98E-02	2.31E-02	7.47E-02
4404	483363.09	3857877.25	0.00706	0.00372	0.00395	0.00427	0.008	0.007	0.003	0.00372	0.07366241	0.006870564	4.112E-07	2.25E-04	3.55E-03	9.37E-04	2.10E-02	2.53E-02	8.10E-02

4405	483863.09	3857877.25	0.00774	0.00417	0.00394	0.00467	0.009	0.008	0.0032	0.00417	0.08075737	0.00770168	4.102E-07	2.46E-04	4.21E-03	1.10E-03	2.27E-02	2.84E-02	8.84E-02
4406	484363.09	3857877.25	0.00916	0.00475	0.004	0.00515	0.011	0.01	0.0035	0.00475	0.09557333	0.008772897	4.164E-07	2.71E-04	5.00E-03	1.34E-03	2.48E-02	3.23E-02	1.03E-01
4407	484863.09	3857877.25	0.01146	0.00578	0.00428	0.00575	0.013	0.013	0.0039	0.00578	0.119571	0.01067523	4.456E-07	3.03E-04	6.07E-03	1.77E-03	2.78E-02	3.93E-02	1.27E-01
4408	485363.09	3857877.25	0.01544	0.00737	0.00547	0.00663	0.016	0.019	0.0045	0.00737	0.1610974	0.013611842	5.695E-07	3.49E-04	7.60E-03	2.70E-03	3.19E-02	5.01E-02	1.67E-01
4409	485863.09	3857877.25	0.03677	0.01031	0.00769	0.00791	0.021	0.047	0.0053	0.01031	0.3836497	0.019041804	8.006E-07	4.17E-04	9.93E-03	6.59E-03	3.75E-02	7.01E-02	3.87E-01
4410	486363.09	3857877.25	0.09466	0.01891	0.01385	0.00985	0.029	0.267	0.0066	0.01891	0.9876606	0.034925364	1.442E-06	5.19E-04	1.35E-02	3.75E-02	4.67E-02	1.29E-01	9.92E-01
4411	486863.09	3857877.25	0.11148	0.15293	0.04575	0.01321	0.04	0.085	0.0095	0.15293	1.1631566	0.282450343	4.763E-06	6.96E-04	1.87E-02	1.19E-02	6.71E-02	1.04E+00	5.04E-01
4412	487363.09	3857877.25	0.11956	0.06248	0.10426	0.02155	0.055	0.059	0.0205	0.06248	1.24746145	0.115395916	1.085E-05	1.14E-03	2.56E-02	8.32E-03	1.45E-01	4.25E-01	1.12E+00
4413	487863.09	3857877.25	0.11894	0.03039	0.12239	0.06931	0.072	0.114	0.1631	0.03039	1.24099252	0.056128071	1.274E-05	3.65E-03	3.40E-02	1.61E-02	1.16E+00	2.07E-01	2.30E+00
4414	488363.09	3857877.25	0.05947	0.02151	0.0663	0.12782	0.107	0.111	0.0351	0.02151	0.62049626	0.039727371	6.902E-06	6.73E-03	5.04E-02	1.56E-02	2.49E-01	1.46E-01	8.36E-01
4415	488863.09	3857877.25	0.04219	0.01698	0.04089	0.05582	0.093	0.054	0.0209	0.01698	0.44020073	0.031360798	4.257E-06	2.94E-03	4.37E-02	7.65E-03	1.48E-01	1.15E-01	5.58E-01
4416	489363.09	3857877.25	0.04236	0.0139	0.02862	0.04251	0.079	0.038	0.0153	0.0139	0.44197447	0.025672267	2.98E-06	2.24E-03	3.70E-02	5.38E-03	1.09E-01	9.45E-02	5.26E-01
4417	489863.09	3857877.25	0.04222	0.01178	0.02034	0.03986	0.067	0.03	0.0123	0.01178	0.44051374	0.021756784	2.118E-06	2.10E-03	3.15E-02	4.21E-03	8.69E-02	8.01E-02	5.07E-01
4418	490363.09	3857877.25	0.02914	0.01038	0.0159	0.0432	0.056	0.025	0.0104	0.01038	0.30404004	0.019171088	1.655E-06	2.28E-03	2.64E-02	3.53E-03	7.40E-02	7.06E-02	3.59E-01
4419	490863.09	3857877.25	0.02318	0.00928	0.0133	0.05754	0.047	0.022	0.0092	0.00928	0.24185477	0.01713947	1.385E-06	3.03E-03	2.22E-02	3.06E-03	6.50E-02	6.31E-02	2.89E-01
4420	491363.09	3857877.25	0.02088	0.00798	0.0116	0.29281	0.04	0.018	0.0079	0.00798	0.2178571	0.014738467	1.208E-06	1.54E-02	1.87E-02	2.58E-03	5.62E-02	5.43E-02	2.71E-01
4421	491863.09	3857877.25	0.01932	0.00672	0.00956	0.05659	0.033	0.015	0.0068	0.00672	0.20158042	0.012411341	9.953E-07	2.98E-03	1.53E-02	2.16E-03	4.80E-02	4.57E-02	2.37E-01
4422	492363.09	3857877.25	0.01694	0.00525	0.00772	0.02796	0.022	0.012	0.0053	0.00525	0.17674805	0.00969636	8.037E-07	1.47E-03	1.05E-02	1.69E-03	3.78E-02	3.57E-02	2.02E-01
4423	492863.09	3857877.25	0.01281	0.0043	0.00643	0.01832	0.015	0.01	0.0043	0.0043	0.13365658	0.00794178	6.694E-07	9.65E-04	7.21E-03	1.39E-03	3.04E-02	2.92E-02	1.52E-01
4424	493363.09	3857877.25	0.01067	0.00387	0.00593	0.01438	0.013	0.009	0.0038	0.00387	0.11132832	0.007147602	6.173E-07	7.57E-04	5.90E-03	1.26E-03	2.71E-02	2.63E-02	1.27E-01
4425	493863.09	3857877.25	0.00952	0.00363	0.00549	0.01213	0.011	0.009	0.0036	0.00363	0.09932948	0.00670434	5.715E-07	6.39E-04	5.17E-03	1.21E-03	2.54E-02	2.47E-02	1.14E-01
4426	494363.09	3857877.25	0.00869	0.00346	0.00504	0.01059	0.01	0.008	0.0034	0.00346	0.09066945	0.006390363	5.247E-07	5.58E-04	4.60E-03	1.18E-03	2.42E-02	2.35E-02	1.04E-01
4427	494863.09	3857877.25	0.00757	0.00323	0.00465	0.00916	0.008	0.008	0.0032	0.00323	0.07898363	0.00596557	4.841E-07	4.82E-04	3.98E-03	1.13E-03	2.25E-02	2.20E-02	9.10E-02
4428	495363.09	3857877.25	0.00709	0.00313	0.00441	0.00836	0.008	0.008	0.0031	0.00313	0.07397542	0.005780877	4.591E-07	4.40E-04	3.64E-03	1.18E-03	2.18E-02	2.13E-02	8.55E-02
4429	495863.09	3857877.25	0.00668	0.00303	0.00418	0.00771	0.007	0.009	0.003	0.00303	0.06969758	0.005596185	4.352E-07	4.06E-04	3.38E-03	1.32E-03	2.11E-02	2.06E-02	8.09E-02
4430	496363.09	3857877.25	0.00659	0.00301	0.00402	0.00737	0.007	0.014	0.003	0.00301	0.06875854	0.005559246	4.185E-07	3.88E-04	3.24E-03	1.98E-03	2.10E-02	2.05E-02	8.05E-02
4431	496863.09	3857877.25	0.00651	0.003	0.00393	0.00706	0.007	0.073	0.003	0.003	0.06792384	0.005540777	4.091E-07	3.72E-04	3.13E-03	1.02E-02	2.10E-02	2.04E-02	8.78E-02
4432	497363.09	3857877.25	0.00634	0.00297	0.00378	0.00674	0.006	0.134	0.003	0.00297	0.0661501	0.005485369	3.935E-07	3.55E-04	3.00E-03	1.88E-02	2.09E-02	2.02E-02	9.45E-02
4433	497863.09	3857877.25	0.00685	0.00312	0.00387	0.00696	0.007	0.025	0.0031	0.00312	0.07147132	0.005762408	4.029E-07	3.67E-04	3.18E-03	3.53E-03	2.22E-02	2.12E-02	8.53E-02
4434	498363.09	3857877.25	0.00727	0.00326	0.00392	0.00721	0.007	0.016	0.0033	0.00326	0.0758535	0.006020978	4.081E-07	3.80E-04	3.35E-03	2.28E-03	2.35E-02	2.22E-02	8.92E-02
4435	471363.09	3858377.25	0.00146	0.00107	0.00062	0.00099	0.001	0.001	0.0011	0.00107	0.0152333	0.00197621	6.455E-08	5.21E-05	5.35E-04	1.53E-04	7.72E-03	7.28E-03	1.84E-02
4436	471863.09	3858377.25	0.00152	0.00109	0.00064	0.00102	0.001	0.001	0.0011	0.00109	0.01585933	0.002013149	6.663E-08	5.37E-05	5.58E-04	1.59E-04	7.79E-03	7.41E-03	1.90E-02
4437	472363.09	3858377.25	0.00158	0.0011	0.00066	0.00106	0.001	0.001	0.0011	0.0011	0.01648536	0.002031618	6.871E-08	5.58E-05	5.81E-04	1.65E-04	7.94E-03	7.48E-03	1.98E-02
4438	472863.09	3858377.25	0.00166	0.00114	0.00071	0.00111	0.001	0.001	0.0012	0.00114	0.01732006	0.002105495	7.392E-08	5.85E-05	6.14E-04	1.73E-04	8.15E-03	7.75E-03	2.07E-02
4439	473363.09	3858377.25	0.00175	0.0012	0.00078	0.00118	0.001	0.001	0.0012	0.0012	0.0182591	0.002216311	8.12E-08	6.22E-05	6.52E-04	1.86E-04	8.57E-03	8.16E-03	2.18E-02
4440	473863.09	3858377.25	0.00183	0.0012	0.0008	0.00121	0.001	0.001	0.0012	0.0012	0.0190938	0.002216311	8.328E-08	6.37E-05	6.80E-04	1.89E-04	8.57E-03	8.16E-03	2.27E-02
4441	474363.09	3858377.25	0.00189	0.00112	0.00077	0.00121	0.001	0.001	0.0012	0.00112	0.01971982	0.002068557	8.016E-08	6.37E-05	6.75E-04	1.84E-04	8.22E-03	7.62E-03	2.33E-02
4442	474863.09	3858377.25	0.00188	0.00105	0.00073	0.00118	0.001	0.001	0.0011	0.00105	0.01961549	0.001939272	7.6E-08	6.22E-05	6.33E-04	1.77E-04	7.72E-03	7.14E-03	2.30E-02
4443	475363.09	3858377.25	0.00168	0.00094	0.0007	0.00109	0.001	0.001	0.001	0.00094	0.01752873	0.00173611	7.287E-08	5.74E-05	5.53E-04	1.66E-04	6.80E-03	6.39E-03	2.05E-02
4444	475863.09	3858377.25	0.00148	0.00087	0.00067	0.00102	0.001	0.001	0.0009	0.00087	0.01544198	0.001606825	6.975E-08	5.37E-05	5.11E-04	1.60E-04	6.24E-03	5.92E-03	1.81E-02
4445	476363.09	3858377.25	0.00158	0.0009	0.00072	0.00108	0.001	0.001	0.0009	0.0009	0.01648536	0.001662233	7.496E-08	5.69E-05	5.35E-04	1.70E-04	6.45E-03	6.12E-03	1.92E-02
4446	476863.09	3858377.25	0.0017	0.00094	0.00077	0.00114	0.001	0.001	0.0009	0.00094	0.01773741	0.00173611	8.016E-08	6.00E-05	5.58E-04	1.80E-04	6.66E-03	6.39E-03	2.05E-02
4447	477363.09	3858377.25	0.00172	0.00095	0.00079	0.00116	0.001	0.001	0.001	0.00095	0.01794608	0.001754579	8.224E-08	6.11E-05	5.63E-04	1.86E-04	6.73E-03	6.46E-03	2.08E-02
4448	477863.09	3858377.25	0.00206	0.00104	0.00088	0.00131	0.001	0.001	0.0011	0.00104	0.02149356	0.001920803	9.161E-08	6.90E-05	6.33E-04	2.04E-04	7.51E-03	7.07E-03	2.48E-02
4449	478363.09	3858377.25	0.00221	0.00109	0.00091	0.00139	0.001	0.002	0.0011	0.00109	0.02305863	0.002013149	9.474E-08	7.32E-05	6.71E-04	2.17E-04	7.86E-03	7.41E-03	2.65E-02
4450	478863.09	3858377.25	0.00187	0.00105	0.00087	0.00128	0.001	0.001	0.001	0.00105	0.01951115	0.001939272	9.057E-08	6.74E-05	6.00E-04	2.08E-04	7.30E-03	7.14E-03	2.25E-02
4451	479363.09	3858377.25	0.00335	0.0014	0.00113	0.00184	0.002	0.002	0.0015	0.0014	0.03495313	0.002585696	1.176E-07	9.69E-05	1.08E-03	2.83E-04	1.05E-02	9.52E-03	4.00E-02
4452	479863.09	3858377.25	0.00386	0.00183	0.00153	0.00227	0.003	0.003	0.0019	0.00183	0.04027435	0.003379874	1.593E-07	1.20E-04	1.64E-03	3.66E-04	1.31E-02	1.24E-02	4.64E-02
4453	480363.09	3858377.25	0.00407	0.00207	0.00161	0.00248	0.004	0.003	0.002	0.00207	0.04246544	0.003823136	1.676E-07	1.31E-04	1.89E-03	4.19E-04	1.42E-02	1.41E-02	4.89E-02
4454	480863.09	3858377.25	0.00441	0.00218	0.00186	0.00267	0.005	0.003	0.0021	0.00218	0.04601292	0.004026298	1.936E-07	1.41E-04	2.12E-03	4.49E-04	1.50E-02	1.48E-02	5.29E-02
4455	481363.09	3858377.25	0.00474	0.00232	0.00215	0.00287	0.005	0.003	0.0022	0.00232	0.04945607	0.004284868	2.238E-07	1.51E-04	2.38E-03	4.88E-04	1.59E-02	1.58E-02	5.69E-02
4456	481863.09	3858377.25	0.0051	0.00242	0.00227	0.00307	0.006	0.004	0.0023	0.00242	0.05321222	0.00446956	2.363E-07	1.62E-04	2.66E-03	5.25E-04	1.66E-02	1.65E-02	6.12E-02
4457	482363.09	3858377.25	0.00545	0.00263	0.00237	0.0033	0.006	0.004	0.0025	0.00263	0.05686404	0.004857415	2.467E-07	1.74E-04	2.95E-03	5.95E-04	1.76E-02	1.79E-02	6.51E-02
4458	482863.09	3858377.25	0.00562	0.00298	0.00291	0.00363	0.007	0.005	0.0026	0.00298	0.05863778	0.005503839	3.029E-07	1.91E-04	3.24E-03	7.10E-04	1.87E-02	2.03E-02	6.67E-02
4459	483363.09	3858377.25	0.00579	0.0033	0.00362	0.00391	0.007	0.006	0.0028	0.0033	0.06041152	0.006094855	3.769E-07	2.06E-04	3.39E-03	8.43E-04	1.96E-02	2.24E-02	6.81E-02
4460	483863.09	3858377.25	0.00626	0.00359	0.00337	0.00424	0.008	0.007	0.0029	0.00359	0.0653154	0.006630463	3.508E-07	2.23E-04	3.72E-03	9.85E-04	2.07E-02	2.44E-02	7.32E-02
4461	484363.09	3858377.25	0.00714	0.00397	0.00385	0.00471	0.009	0.008	0.0032	0.00397	0.07449711	0.007332295	4.008E-07	2.48E-04	4.24E-03	1.19E-03	2.24E-02	2.70E-02	8.29E-02
4462	484863.09	3858377.25	0.00881	0.00457	0.00429	0.00527	0.01	0.011	0.0035	0.00457	0.09192151	0.00844045	4.466E-07	2.78E-04	4.88E-03	1.52E-03	2.47E-02	3.11E-02	1.01E-01

4463	485363.09	3858377.25	0.01132	0.00542	0.00515	0.00595	0.012	0.015	0.0039	0.00542	0.11811027	0.010010337	5.361E-07	3.13E-04	5.73E-03	2.12E-03	2.78E-02	3.69E-02	1.27E-01
4464	485863.09	3858377.25	0.01612	0.00663	0.00704	0.00692	0.014	0.026	0.0045	0.00663	0.16819236	0.012245117	7.329E-07	3.65E-04	6.79E-03	3.62E-03	3.19E-02	4.51E-02	1.78E-01
4465	486363.09	3858377.25	0.04187	0.00855	0.01053	0.00825	0.017	0.18	0.0053	0.00855	0.43686192	0.015791214	1.096E-06	4.35E-04	7.83E-03	2.53E-02	3.76E-02	5.81E-02	4.66E-01
4466	486863.09	3858377.25	0.0999	0.01233	0.01851	0.01025	0.018	0.14	0.0066	0.01233	1.04233355	0.022772594	1.927E-06	5.40E-04	8.55E-03	1.97E-02	4.70E-02	8.38E-02	1.06E+00
4467	487363.09	3858377.25	0.11385	0.0244	0.03768	0.01381	0.017	0.207	0.0095	0.0244	1.18788463	0.045064986	3.923E-06	7.27E-04	7.85E-03	2.91E-02	6.70E-02	1.66E-01	1.17E+00
4468	487863.09	3858377.25	0.12015	0.41487	0.0367	0.02206	0.012	0.129	0.0197	0.41487	1.25361738	0.766234054	3.821E-06	1.16E-03	5.78E-03	1.82E-02	1.39E-01	2.82E+00	-6.37E-01
4469	488363.09	3858377.25	0.11944	0.05693	0.03332	0.06153	0.02	0.085	0.2134	0.05693	1.2462094	0.105145479	3.469E-06	3.24E-03	9.56E-03	1.19E-02	1.51E+00	3.87E-01	2.50E+00
4470	488863.09	3858377.25	0.06187	0.03051	0.02526	0.16353	0.024	0.109	0.0379	0.03051	0.6455373	0.056349702	2.63E-06	8.61E-03	1.12E-02	1.53E-02	2.69E-01	2.07E-01	7.98E-01
4471	489363.09	3858377.25	0.04062	0.02115	0.02057	0.29704	0.024	0.053	0.0219	0.02115	0.42381971	0.039062478	2.141E-06	1.56E-02	1.13E-02	7.43E-03	1.55E-01	1.44E-01	5.09E-01
4472	489863.09	3858377.25	0.03159	0.01642	0.016	0.32079	0.025	0.038	0.0161	0.01642	0.32960277	0.03032652	1.666E-06	1.69E-02	1.15E-02	5.28E-03	1.14E-01	1.12E-01	3.96E-01
4473	490363.09	3858377.25	0.02657	0.01351	0.01328	0.26364	0.025	0.03	0.013	0.01351	0.27722525	0.024951966	1.383E-06	1.39E-02	1.16E-02	4.20E-03	9.19E-02	9.19E-02	3.32E-01
4474	490863.09	3858377.25	0.02325	0.01154	0.01321	0.17616	0.025	0.025	0.011	0.01154	0.24258514	0.021313522	1.375E-06	9.28E-03	1.17E-02	3.50E-03	7.78E-02	7.85E-02	2.88E-01
4475	491363.09	3858377.25	0.0213	0.00943	0.01189	0.06901	0.024	0.02	0.009	0.00943	0.22223929	0.017416509	1.238E-06	3.64E-03	1.13E-02	2.84E-03	6.39E-02	6.41E-02	2.57E-01
4476	491863.09	3858377.25	0.01993	0.00712	0.00986	0.03319	0.02	0.015	0.0069	0.00712	0.20794502	0.013150111	1.026E-06	1.75E-03	9.36E-03	2.15E-03	4.92E-02	4.84E-02	2.35E-01
4477	492363.09	3858377.25	0.01571	0.00551	0.00825	0.01981	0.013	0.012	0.0054	0.00551	0.16391452	0.01017656	8.589E-07	1.04E-03	6.15E-03	1.67E-03	3.81E-02	3.75E-02	1.84E-01
4478	492863.09	3858377.25	0.01531	0.0054	0.00797	0.01769	0.014	0.012	0.0053	0.0054	0.15974101	0.009973399	8.297E-07	9.32E-04	6.40E-03	1.67E-03	3.78E-02	3.67E-02	1.80E-01
4479	493363.09	3858377.25	0.01313	0.00483	0.00709	0.01444	0.012	0.011	0.0048	0.00483	0.13699539	0.008920651	7.381E-07	7.61E-04	5.49E-03	1.55E-03	3.38E-02	3.28E-02	1.55E-01
4480	493863.09	3858377.25	0.0117	0.00445	0.00647	0.01253	0.011	0.011	0.0044	0.00445	0.1220751	0.008218819	6.736E-07	6.60E-04	4.97E-03	1.51E-03	3.12E-02	3.03E-02	1.38E-01
4481	494363.09	3858377.25	0.01029	0.0041	0.00584	0.01094	0.009	0.011	0.0041	0.0041	0.10736349	0.007572395	6.08E-07	5.76E-04	4.40E-03	1.49E-03	2.87E-02	2.79E-02	1.22E-01
4482	494863.09	3858377.25	0.00913	0.00383	0.00529	0.00973	0.008	0.011	0.0038	0.00383	0.09526031	0.007073725	5.507E-07	5.13E-04	3.90E-03	1.54E-03	2.69E-02	2.60E-02	1.09E-01
4483	495363.09	3858377.25	0.00802	0.00357	0.00476	0.00863	0.007	0.012	0.0035	0.00357	0.08367883	0.006593525	4.955E-07	4.55E-04	3.46E-03	1.67E-03	2.49E-02	2.43E-02	9.65E-02
4484	495863.09	3858377.25	0.00765	0.00347	0.00449	0.0081	0.007	0.017	0.0034	0.00347	0.07981833	0.006408832	4.674E-07	4.27E-04	3.30E-03	2.42E-03	2.43E-02	2.36E-02	9.31E-02
4485	496363.09	3858377.25	0.00726	0.00337	0.00424	0.00759	0.007	0.079	0.0033	0.00337	0.07574916	0.00622414	4.414E-07	4.00E-04	3.14E-03	1.11E-02	2.37E-02	2.29E-02	9.74E-02
4486	496863.09	3858377.25	0.00729	0.00338	0.00416	0.00743	0.007	0.048	0.0034	0.00338	0.07606218	0.006242609	4.331E-07	3.91E-04	3.13E-03	6.79E-03	2.39E-02	2.30E-02	9.35E-02
4487	497363.09	3858377.25	0.0071	0.00335	0.00398	0.00716	0.006	0.025	0.0034	0.00335	0.07407976	0.006187201	4.143E-07	3.77E-04	3.04E-03	3.58E-03	2.37E-02	2.28E-02	8.82E-02
4488	497863.09	3858377.25	0.00735	0.00348	0.00407	0.00731	0.007	0.019	0.0035	0.00348	0.0766882	0.006427301	4.237E-07	3.85E-04	3.20E-03	2.64E-03	2.48E-02	2.37E-02	9.05E-02
4489	498363.09	3858377.25	0.00749	0.00368	0.00425	0.00764	0.007	0.016	0.0037	0.00368	0.07814893	0.006796686	4.425E-07	4.02E-04	3.43E-03	2.23E-03	2.63E-02	2.50E-02	9.23E-02
4490	471363.09	3858877.25	0.00144	0.00105	0.00061	0.00099	0.001	0.001	0.0011	0.00105	0.01502463	0.001939272	6.35E-08	5.21E-05	5.67E-04	1.53E-04	7.51E-03	7.14E-03	1.81E-02
4491	471863.09	3858877.25	0.00149	0.00106	0.00064	0.00102	0.001	0.001	0.0011	0.00106	0.01554632	0.001957741	6.663E-08	5.37E-05	5.81E-04	1.58E-04	7.58E-03	7.21E-03	1.87E-02
4492	472363.09	3858877.25	0.00157	0.0011	0.00069	0.00107	0.001	0.001	0.0011	0.0011	0.01638102	0.002031618	7.183E-08	5.64E-05	6.05E-04	1.66E-04	7.86E-03	7.48E-03	1.96E-02
4493	472863.09	3858877.25	0.00164	0.00112	0.00073	0.00111	0.001	0.001	0.0011	0.00112	0.01711138	0.002068557	7.6E-08	5.85E-05	6.28E-04	1.73E-04	8.08E-03	7.62E-03	2.05E-02
4494	473363.09	3858877.25	0.00171	0.00117	0.00079	0.00117	0.001	0.001	0.0012	0.00117	0.01784175	0.002160903	8.224E-08	6.16E-05	6.61E-04	1.83E-04	8.36E-03	7.96E-03	2.13E-02
4495	473863.09	3858877.25	0.0018	0.00117	0.0008	0.0012	0.001	0.001	0.0012	0.00117	0.01878078	0.002160903	8.328E-08	6.32E-05	6.80E-04	1.86E-04	8.43E-03	7.96E-03	2.23E-02
4496	474363.09	3858877.25	0.00186	0.00112	0.00075	0.00121	0.001	0.001	0.0012	0.00112	0.01940681	0.002068557	7.808E-08	6.37E-05	6.71E-04	1.84E-04	8.15E-03	7.62E-03	2.29E-02
4497	474863.09	3858877.25	0.00158	0.00088	0.00065	0.00104	0.001	0.001	0.0009	0.00088	0.01648536	0.001625295	6.767E-08	5.48E-05	4.88E-04	1.56E-04	6.45E-03	5.98E-03	1.93E-02
4498	475363.09	3858877.25	0.00141	0.00083	0.00064	0.00098	9E-04	0.001	0.0008	0.00083	0.01471161	0.001532948	6.663E-08	5.16E-05	4.41E-04	1.51E-04	5.95E-03	5.64E-03	1.72E-02
4499	475863.09	3858877.25	0.00153	0.00086	0.00068	0.00104	0.001	0.001	0.0009	0.00086	0.01596367	0.001588356	7.079E-08	5.48E-05	4.78E-04	1.60E-04	6.24E-03	5.85E-03	1.86E-02
4500	476363.09	3858877.25	0.00129	0.00078	0.00066	0.00096	9E-04	0.001	0.0008	0.00078	0.01345956	0.001440602	6.871E-08	5.06E-05	4.17E-04	1.51E-04	5.53E-03	5.30E-03	1.57E-02
4501	476863.09	3858877.25	0.00145	0.00084	0.00071	0.00104	1E-03	0.001	0.0008	0.00084	0.01512897	0.001551418	7.392E-08	5.48E-05	4.64E-04	1.65E-04	5.95E-03	5.71E-03	1.76E-02
4502	477363.09	3858877.25	0.00152	0.00087	0.00071	0.00109	0.001	0.001	0.0009	0.00087	0.01585933	0.001606825	7.392E-08	5.74E-05	4.88E-04	1.72E-04	6.16E-03	5.92E-03	1.84E-02
4503	477863.09	3858877.25	0.00173	0.00093	0.00075	0.00118	0.001	0.001	0.0009	0.00093	0.01805042	0.001717641	7.808E-08	6.22E-05	5.63E-04	1.84E-04	6.59E-03	6.32E-03	2.08E-02
4504	478363.09	3858877.25	0.00253	0.00112	0.00089	0.0015	0.002	0.002	0.0012	0.00112	0.02639744	0.002068557	9.265E-08	7.90E-05	8.86E-04	2.26E-04	8.36E-03	7.62E-03	3.04E-02
4505	478863.09	3858877.25	0.00242	0.00111	0.0009	0.00147	0.002	0.002	0.0012	0.00111	0.02524972	0.002050087	9.37E-08	7.74E-05	8.30E-04	2.25E-04	8.15E-03	7.55E-03	2.90E-02
4506	479363.09	3858877.25	0.00221	0.0011	0.0009	0.00142	0.002	0.002	0.0011	0.0011	0.02305863	0.002031618	9.37E-08	7.48E-05	7.74E-04	2.21E-04	7.86E-03	7.48E-03	2.65E-02
4507	479863.09	3858877.25	0.00345	0.00176	0.00139	0.00219	0.004	0.003	0.0017	0.00176	0.0359965	0.003250589	1.447E-07	1.15E-04	1.79E-03	3.62E-04	1.23E-02	1.20E-02	4.18E-02
4508	480363.09	3858877.25	0.00365	0.00191	0.00158	0.00239	0.004	0.003	0.0018	0.00191	0.03808326	0.003527628	1.645E-07	1.26E-04	1.94E-03	4.07E-04	1.30E-02	1.30E-02	4.41E-02
4509	480863.09	3858877.25	0.00388	0.00203	0.00198	0.00258	0.004	0.003	0.0019	0.00203	0.04048302	0.003749259	2.061E-07	1.36E-04	2.06E-03	4.43E-04	1.37E-02	1.38E-02	4.68E-02
4510	481363.09	3858877.25	0.00412	0.00215	0.00221	0.00275	0.005	0.003	0.0021	0.00215	0.04298713	0.00397089	2.301E-07	1.45E-04	2.19E-03	4.83E-04	1.45E-02	1.46E-02	4.97E-02
4511	481863.09	3858877.25	0.00436	0.00228	0.00218	0.00296	0.005	0.004	0.0022	0.00228	0.04549123	0.004210991	2.27E-07	1.56E-04	2.34E-03	5.23E-04	1.54E-02	1.55E-02	5.26E-02
4512	482363.09	3858877.25	0.00469	0.00243	0.00208	0.00317	0.005	0.004	0.0023	0.00243	0.04893438	0.004488029	2.165E-07	1.67E-04	2.51E-03	5.70E-04	1.63E-02	1.65E-02	5.64E-02
4513	482863.09	3858877.25	0.00498	0.0026	0.00285	0.00345	0.006	0.005	0.0025	0.0026	0.05196017	0.004802007	2.967E-07	1.82E-04	2.76E-03	6.36E-04	1.74E-02	1.77E-02	6.00E-02
4514	483363.09	3858877.25	0.0049	0.00304	0.00302	0.0037	0.006	0.006	0.0026	0.00304	0.05112547	0.005614654	3.144E-07	1.95E-04	2.80E-03	7.89E-04	1.86E-02	2.07E-02	5.85E-02
4515	483863.09	3858877.25	0.00529	0.00324	0.00282	0.00399	0.006	0.006	0.0028	0.00324	0.05519464	0.005984039	2.936E-07	2.10E-04	3.03E-03	9.07E-04	1.96E-02	2.20E-02	6.28E-02
4516	484363.09	3858877.25	0.00594	0.00349	0.00325	0.00438	0.007	0.008	0.0029	0.00349	0.06197659	0.006445771	3.383E-07	2.31E-04	3.41E-03	1.07E-03	2.08E-02	2.37E-02	7.02E-02
4517	484863.09	3858877.25	0.00711	0.00381	0.00352	0.00485	0.008	0.009	0.0031	0.00381	0.0741841	0.007036787	3.665E-07	2.55E-04	3.92E-03	1.31E-03	2.22E-02	2.59E-02	8.30E-02
4518	485363.09	3858877.25	0.00907	0.00431	0.00426	0.00542	0.009	0.012	0.0035	0.00431	0.09463429	0.00796025	4.435E-07	2.85E-04	4.36E-03	1.70E-03	2.44E-02	2.93E-02	1.04E-01
4519	485863.09	3858877.25	0.01251	0.00498	0.00493	0.00626	0.01	0.018	0.0039	0.00498	0.13052645	0.00919769	5.132E-07	3.30E-04	4.63E-03	2.49E-03	2.75E-02	3.39E-02	1.41E-01
4520	486363.09	3858877.25	0.0236	0.00584	0.0064	0.00738	0.01	0.041	0.0044	0.00584	0.24623695	0.010786046	6.663E-07	3.89E-04	4.82E-03	5.72E-03	3.14E-02	3.97E-02	2.60E-01

4521	486863.09	3858877.25	0.09045	0.00711	0.00954	0.00906	0.01	0.065	0.0053	0.00711	0.94373443	0.013131642	9.932E-07	4.77E-04	4.56E-03	9.20E-03	3.73E-02	4.83E-02	9.60E-01
4522	487363.09	3858877.25	0.10866	0.00933	0.00881	0.01172	0.008	0.051	0.0067	0.00933	1.13373337	0.017231817	9.172E-07	6.17E-04	3.84E-03	7.17E-03	4.76E-02	6.34E-02	1.15E+00
4523	487863.09	3858877.25	0.11658	0.01378	0.0104	0.01584	0.006	0.164	0.0094	0.01378	1.21636882	0.025450636	1.083E-06	8.34E-04	2.88E-03	2.31E-02	6.67E-02	9.37E-02	1.24E+00
4524	488363.09	3858877.25	0.11879	0.03097	0.0116	0.02547	0.008	0.088	0.0184	0.03097	1.23942745	0.057199288	1.208E-06	1.34E-03	3.61E-03	1.24E-02	1.30E-01	2.11E-01	1.23E+00
4525	488863.09	3858877.25	0.10397	0.21332	0.01524	0.0676	0.014	0.067	0.3109	0.21332	1.08479899	0.393986184	1.587E-06	3.56E-03	6.49E-03	9.45E-03	2.20E+00	1.45E+00	2.25E+00
4526	489363.09	3858877.25	0.04764	0.04905	0.01953	0.32502	0.012	0.126	0.0498	0.04905	0.49706477	0.090591704	2.033E-06	1.71E-02	5.58E-03	1.77E-02	3.53E-01	3.34E-01	6.47E-01
4527	489863.09	3858877.25	0.03451	0.02837	0.0202	0.09452	0.012	0.054	0.0271	0.02837	0.36006938	0.052397281	2.103E-06	4.98E-03	5.61E-03	7.63E-03	1.92E-01	1.93E-01	4.30E-01
4528	490363.09	3858877.25	0.02796	0.01972	0.02392	0.05903	0.013	0.037	0.0187	0.01972	0.29172819	0.036421374	2.49E-06	3.11E-03	5.92E-03	5.21E-03	1.32E-01	1.34E-01	3.41E-01
4529	490863.09	3858877.25	0.02453	0.01397	0.02333	0.04062	0.012	0.027	0.0133	0.01397	0.25594036	0.025801552	2.429E-06	2.14E-03	5.82E-03	3.75E-03	9.42E-02	9.50E-02	2.93E-01
4530	491363.09	3858877.25	0.02249	0.00996	0.01878	0.02701	0.011	0.019	0.0096	0.00996	0.23465547	0.01839538	1.955E-06	1.42E-03	5.15E-03	2.72E-03	6.79E-02	6.77E-02	2.63E-01
4531	491863.09	3858877.25	0.01904	0.00756	0.0136	0.01929	0.009	0.015	0.0073	0.00756	0.19865897	0.013962758	1.416E-06	1.02E-03	4.38E-03	2.09E-03	5.19E-02	5.14E-02	2.21E-01
4532	492363.09	3858877.25	0.01765	0.0074	0.01238	0.01915	0.011	0.015	0.0072	0.0074	0.18415603	0.01366725	1.289E-06	1.01E-03	5.24E-03	2.10E-03	5.08E-02	5.03E-02	2.07E-01
4533	492863.09	3858877.25	0.01603	0.00752	0.01229	0.01977	0.012	0.016	0.0073	0.00752	0.16725332	0.013888881	1.279E-06	1.04E-03	5.70E-03	2.20E-03	5.17E-02	5.11E-02	1.91E-01
4534	493363.09	3858877.25	0.0146	0.00663	0.01012	0.01685	0.011	0.015	0.0065	0.00663	0.15233303	0.012245117	1.054E-06	8.88E-04	5.31E-03	2.07E-03	4.59E-02	4.51E-02	1.74E-01
4535	493863.09	3858877.25	0.01294	0.00565	0.00809	0.01352	0.01	0.014	0.0056	0.00565	0.13501297	0.01043513	8.422E-07	7.12E-04	4.45E-03	1.99E-03	3.95E-02	3.84E-02	1.54E-01
4536	494363.09	3858877.25	0.01176	0.00514	0.00695	0.01206	0.009	0.016	0.0051	0.00514	0.12270113	0.009493198	7.235E-07	6.35E-04	4.14E-03	2.30E-03	3.61E-02	3.50E-02	1.40E-01
4537	494863.09	3858877.25	0.01054	0.00468	0.00616	0.01062	0.008	0.021	0.0047	0.00468	0.10997193	0.008643612	6.413E-07	5.59E-04	3.78E-03	3.01E-03	3.30E-02	3.18E-02	1.27E-01
4538	495363.09	3858877.25	0.00941	0.0043	0.00542	0.00941	0.007	0.029	0.0043	0.0043	0.09818177	0.00794178	5.643E-07	4.96E-04	3.47E-03	4.03E-03	3.03E-02	2.92E-02	1.15E-01
4539	495863.09	3858877.25	0.00867	0.00407	0.00494	0.00865	0.007	0.103	0.0041	0.00407	0.09046078	0.007516987	5.143E-07	4.56E-04	3.30E-03	1.45E-02	2.87E-02	2.77E-02	1.17E-01
4540	496363.09	3858877.25	0.00822	0.00395	0.00462	0.00818	0.007	0.053	0.0039	0.00395	0.08576558	0.007295356	4.81E-07	4.31E-04	3.21E-03	7.44E-03	2.79E-02	2.69E-02	1.05E-01
4541	496863.09	3858877.25	0.00782	0.00385	0.00436	0.00779	0.007	0.029	0.0039	0.00385	0.08159208	0.007110664	4.539E-07	4.10E-04	3.11E-03	4.01E-03	2.73E-02	2.62E-02	9.73E-02
4542	497363.09	3858877.25	0.00743	0.00376	0.00413	0.00742	0.006	0.02	0.0038	0.00376	0.07752291	0.006944441	4.3E-07	3.91E-04	2.99E-03	2.88E-03	2.66E-02	2.56E-02	9.18E-02
4543	497863.09	3858877.25	0.00745	0.00392	0.00421	0.00769	0.007	0.017	0.0039	0.00392	0.07773158	0.007239949	4.383E-07	4.05E-04	3.16E-03	2.38E-03	2.78E-02	2.67E-02	9.21E-02
4544	498363.09	3858877.25	0.00725	0.00412	0.0043	0.00796	0.007	0.015	0.0041	0.00412	0.07564483	0.007609334	4.477E-07	4.19E-04	3.27E-03	2.07E-03	2.92E-02	2.80E-02	9.02E-02
4545	471363.09	3859377.25	0.00142	0.00102	0.00065	0.00098	0.001	0.001	0.001	0.00102	0.01481595	0.001883864	6.767E-08	5.16E-05	5.30E-04	1.53E-04	7.30E-03	6.94E-03	1.78E-02
4546	471863.09	3859377.25	0.00147	0.00104	0.00068	0.00102	0.001	0.001	0.0011	0.00104	0.01533764	0.001920803	7.079E-08	5.37E-05	5.58E-04	1.59E-04	7.44E-03	7.07E-03	1.84E-02
4547	472363.09	3859377.25	0.00154	0.00107	0.00072	0.00106	0.001	0.001	0.0011	0.00107	0.016068	0.00197621	7.496E-08	5.58E-05	5.96E-04	1.66E-04	7.65E-03	7.28E-03	1.92E-02
4548	472863.09	3859377.25	0.00159	0.0011	0.00075	0.00111	0.001	0.001	0.0011	0.0011	0.01658969	0.002031618	7.808E-08	5.85E-05	6.38E-04	1.73E-04	7.86E-03	7.48E-03	1.99E-02
4549	473363.09	3859377.25	0.00165	0.00114	0.00078	0.00115	0.001	0.001	0.0011	0.00114	0.01721572	0.002105495	8.12E-08	6.06E-05	6.89E-04	1.81E-04	8.08E-03	7.75E-03	2.06E-02
4550	473863.09	3859377.25	0.00173	0.00116	0.00078	0.0012	0.002	0.001	0.0012	0.00116	0.01805042	0.002142434	8.12E-08	6.32E-05	7.41E-04	1.89E-04	8.22E-03	7.89E-03	2.15E-02
4551	474363.09	3859377.25	0.00179	0.00109	0.00074	0.0012	0.002	0.001	0.0011	0.00109	0.01867645	0.002013149	7.704E-08	6.32E-05	7.50E-04	1.84E-04	7.94E-03	7.41E-03	2.22E-02
4552	474863.09	3859377.25	0.00177	0.00098	0.00072	0.00114	0.001	0.001	0.001	0.00098	0.01846777	0.001809987	7.496E-08	6.00E-05	6.75E-04	1.72E-04	7.23E-03	6.66E-03	2.17E-02
4553	475363.09	3859377.25	0.00159	0.00087	0.0007	0.00104	0.001	0.001	0.0009	0.00087	0.01658969	0.001606825	7.287E-08	5.48E-05	5.58E-04	1.58E-04	6.31E-03	5.92E-03	1.94E-02
4554	475863.09	3859377.25	0.00132	0.00079	0.00063	0.00094	9E-04	0.001	0.0008	0.00079	0.01377258	0.001459071	6.559E-08	4.95E-05	4.41E-04	1.48E-04	5.60E-03	5.37E-03	1.61E-02
4555	476363.09	3859377.25	0.00128	0.00077	0.00061	0.00095	9E-04	0.001	0.0008	0.00077	0.01335522	0.001422133	6.35E-08	5.00E-05	4.41E-04	1.49E-04	5.53E-03	5.24E-03	1.57E-02
4556	476863.09	3859377.25	0.00119	0.00074	0.00058	0.00092	9E-04	0.001	0.0007	0.00074	0.01241619	0.001366725	6.038E-08	4.85E-05	4.22E-04	1.46E-04	5.24E-03	5.03E-03	1.46E-02
4557	477363.09	3859377.25	0.00128	0.00077	0.0006	0.00097	1E-03	0.001	0.0008	0.00077	0.01335522	0.001422133	6.246E-08	5.11E-05	4.60E-04	1.53E-04	5.46E-03	5.24E-03	1.57E-02
4558	477863.09	3859377.25	0.00175	0.0009	0.0007	0.00118	0.001	0.001	0.0009	0.0009	0.0182591	0.001662233	7.287E-08	6.22E-05	6.19E-04	1.79E-04	6.52E-03	6.12E-03	2.12E-02
4559	478363.09	3859377.25	0.00228	0.00103	0.00083	0.00141	0.002	0.001	0.0011	0.00103	0.02378899	0.001902333	8.641E-08	7.43E-05	8.68E-04	2.08E-04	7.58E-03	7.00E-03	2.74E-02
4560	478863.09	3859377.25	0.00274	0.00121	0.00093	0.00169	0.003	0.002	0.0013	0.00121	0.02858853	0.00223478	9.682E-08	8.90E-05	1.19E-03	2.45E-04	9.00E-03	8.23E-03	3.31E-02
4561	479363.09	3859377.25	0.00301	0.0014	0.00107	0.00192	0.003	0.002	0.0014	0.0014	0.03140565	0.002585696	1.114E-07	1.01E-04	1.39E-03	2.87E-04	1.02E-02	9.52E-03	3.65E-02
4562	479863.09	3859377.25	0.0032	0.00158	0.00123	0.00213	0.003	0.002	0.0016	0.00158	0.03338806	0.002918143	1.281E-07	1.12E-04	1.50E-03	3.35E-04	1.12E-02	1.07E-02	3.87E-02
4563	480363.09	3859377.25	0.00332	0.00176	0.00168	0.00233	0.003	0.003	0.0017	0.00176	0.03464011	0.003250589	1.749E-07	1.23E-04	1.60E-03	3.84E-04	1.20E-02	1.20E-02	4.01E-02
4564	480863.09	3859377.25	0.00346	0.00189	0.00192	0.0025	0.004	0.003	0.0018	0.00189	0.03610084	0.00349069	1.999E-07	1.32E-04	1.73E-03	4.23E-04	1.28E-02	1.29E-02	4.18E-02
4565	481363.09	3859377.25	0.00361	0.002	0.00185	0.00266	0.004	0.003	0.0019	0.002	0.03766591	0.003693851	1.926E-07	1.40E-04	1.85E-03	4.61E-04	1.34E-02	1.36E-02	4.36E-02
4566	481863.09	3859377.25	0.00379	0.00211	0.00181	0.00283	0.004	0.004	0.002	0.00211	0.03954399	0.003897013	1.884E-07	1.49E-04	2.00E-03	4.98E-04	1.40E-02	1.43E-02	4.58E-02
4567	482363.09	3859377.25	0.00405	0.00223	0.00197	0.00303	0.005	0.004	0.0021	0.00223	0.04225677	0.004118644	2.051E-07	1.60E-04	2.18E-03	5.44E-04	1.48E-02	1.52E-02	4.89E-02
4568	482863.09	3859377.25	0.00427	0.00237	0.0024	0.00329	0.005	0.004	0.0022	0.00237	0.04455219	0.004377214	2.499E-07	1.73E-04	2.36E-03	6.06E-04	1.56E-02	1.61E-02	5.15E-02
4569	483363.09	3859377.25	0.00438	0.00264	0.00241	0.00358	0.005	0.005	0.0024	0.00264	0.04569991	0.004875884	2.509E-07	1.89E-04	2.51E-03	7.03E-04	1.67E-02	1.80E-02	5.28E-02
4570	483863.09	3859377.25	0.00457	0.00285	0.00245	0.00381	0.006	0.006	0.0025	0.00285	0.04768233	0.005263738	2.551E-07	2.01E-04	2.63E-03	8.07E-04	1.77E-02	1.94E-02	5.49E-02
4571	484363.09	3859377.25	0.00507	0.00309	0.00283	0.00416	0.006	0.007	0.0027	0.00309	0.05289921	0.005707	2.946E-07	2.19E-04	2.91E-03	9.27E-04	1.91E-02	2.10E-02	6.08E-02
4572	484863.09	3859377.25	0.00585	0.00335	0.00269	0.00461	0.007	0.008	0.0029	0.00335	0.06103755	0.006187201	2.8E-07	2.43E-04	3.14E-03	1.09E-03	2.07E-02	2.28E-02	6.96E-02
4573	485363.09	3859377.25	0.00718	0.0037	0.00299	0.0051	0.007	0.01	0.0032	0.0037	0.07491446	0.006833625	3.113E-07	2.69E-04	3.16E-03	1.35E-03	2.25E-02	2.52E-02	8.39E-02
4574	485863.09	3859377.25	0.00928	0.00411	0.00373	0.0057	0.007	0.013	0.0035	0.00411	0.09682538	0.007590865	3.883E-07	3.00E-04	3.14E-03	1.78E-03	2.47E-02	2.79E-02	1.06E-01
4575	486363.09	3859377.25	0.01329	0.00458	0.00469	0.0065	0.007	0.02	0.0039	0.00458	0.13866479	0.00845892	4.883E-07	3.42E-04	3.15E-03	2.84E-03	2.73E-02	3.11E-02	1.50E-01
4576	486863.09	3859377.25	0.03489	0.00518	0.0048	0.00757	0.006	0.094	0.0043	0.00518	0.36403421	0.009567075	4.997E-07	3.99E-04	2.86E-03	1.32E-02	3.06E-02	3.52E-02	3.85E-01
4577	487363.09	3859377.25	0.09071	0.00603	0.00482	0.0092	0.005	0.112	0.0051	0.00603	0.94644721	0.011136962	5.018E-07	4.85E-04	2.13E-03	1.58E-02	3.59E-02	4.10E-02	9.71E-01
4578	487863.09	3859377.25	0.10507	0.00739	0.00564	0.012	0.004	0.073	0.0063	0.00739	1.09627614	0.013648781	5.872E-07	6.32E-04	1.92E-03	1.03E-02	4.48E-02	5.03E-02	1.12E+00

4579	488363.09	3859377.25	0.11073	0.0098	0.00765	0.0171	0.004	0.244	0.0085	0.0098	1.15533127	0.018099872	7.964E-07	9.01E-04	1.80E-03	3.43E-02	6.04E-02	6.66E-02	1.20E+00
4580	488863.09	3859377.25	0.0786	0.01531	0.01338	0.03162	0.007	0.053	0.0139	0.01531	0.82009426	0.028276432	1.393E-06	1.67E-03	3.47E-03	7.49E-03	9.82E-02	1.04E-01	8.55E-01
4581	489363.09	3859377.25	0.04407	0.04131	0.06061	0.1256	0.009	0.045	0.039	0.04131	0.45981621	0.0762965	6.31E-06	6.62E-03	4.27E-03	6.30E-03	2.76E-01	2.81E-01	5.49E-01
4582	489863.09	3859377.25	0.07528	0.13388	1.73507	0.39961	0.007	0.312	0.1361	0.13388	0.78545415	0.247266409	0.0001806	2.10E-02	3.41E-03	4.39E-02	9.64E-01	9.10E-01	1.16E+00
4583	490363.09	3859377.25	0.03506	0.04282	0.18765	0.12107	0.007	0.073	0.0422	0.04282	0.36580795	0.079085357	1.954E-05	6.38E-03	3.46E-03	1.02E-02	2.99E-01	2.91E-01	4.73E-01
4584	490863.09	3859377.25	0.02674	0.02346	0.06327	0.05575	0.008	0.038	0.023	0.02346	0.27899899	0.043328876	6.587E-06	2.94E-03	3.80E-03	5.29E-03	1.63E-01	1.60E-01	3.38E-01
4585	491363.09	3859377.25	0.02347	0.0139	0.02667	0.03109	0.008	0.023	0.0137	0.0139	0.24488056	0.025672267	2.777E-06	1.64E-03	3.58E-03	3.27E-03	9.70E-02	9.45E-02	2.82E-01
4586	491863.09	3859377.25	0.01918	0.0131	0.02148	0.02927	0.007	0.023	0.0128	0.0131	0.20011969	0.024194726	2.236E-06	1.54E-03	3.37E-03	3.23E-03	9.08E-02	8.91E-02	2.34E-01
4587	492363.09	3859377.25	0.01688	0.01116	0.01617	0.025	0.007	0.021	0.0109	0.01116	0.17612203	0.020611691	1.683E-06	1.32E-03	3.30E-03	2.92E-03	7.72E-02	7.59E-02	2.06E-01
4588	492863.09	3859377.25	0.01501	0.00998	0.01317	0.02207	0.008	0.02	0.0097	0.00998	0.15661088	0.018432318	1.371E-06	1.16E-03	3.61E-03	2.80E-03	6.88E-02	6.79E-02	1.84E-01
4589	493363.09	3859377.25	0.01376	0.00839	0.01039	0.01812	0.008	0.019	0.0082	0.00839	0.14356867	0.015495706	1.082E-06	9.54E-04	3.76E-03	2.63E-03	5.79E-02	5.71E-02	1.67E-01
4590	493863.09	3859377.25	0.0125	0.00759	0.00887	0.01601	0.008	0.021	0.0074	0.00759	0.13042212	0.014018166	9.234E-07	8.43E-04	3.80E-03	2.95E-03	5.24E-02	5.16E-02	1.53E-01
4591	494363.09	3859377.25	0.01149	0.00679	0.0076	0.01386	0.008	0.033	0.0066	0.00679	0.11988401	0.012540625	7.912E-07	7.30E-04	3.69E-03	4.68E-03	4.70E-02	4.62E-02	1.42E-01
4592	494863.09	3859377.25	0.01046	0.00581	0.00617	0.01141	0.007	0.352	0.0057	0.00581	0.10913723	0.010730638	6.423E-07	6.01E-04	3.35E-03	4.95E-02	4.06E-02	3.95E-02	1.74E-01
4593	495363.09	3859377.25	0.00964	0.00539	0.00555	0.01043	0.007	0.051	0.0053	0.00539	0.10058154	0.009954929	5.778E-07	5.49E-04	3.28E-03	7.12E-03	3.78E-02	3.67E-02	1.23E-01
4594	495863.09	3859377.25	0.00887	0.00495	0.00495	0.00937	0.007	0.034	0.0049	0.00495	0.09254753	0.009142282	5.153E-07	4.94E-04	3.11E-03	4.82E-03	3.49E-02	3.37E-02	1.11E-01
4595	496363.09	3859377.25	0.00831	0.00477	0.00464	0.00887	0.007	0.026	0.0047	0.00477	0.08670462	0.008809835	4.831E-07	4.67E-04	3.11E-03	3.62E-03	3.36E-02	3.24E-02	1.04E-01
4596	496863.09	3859377.25	0.00764	0.00439	0.00411	0.00786	0.006	0.02	0.0044	0.00439	0.079714	0.008108004	4.279E-07	4.14E-04	2.88E-03	2.75E-03	3.10E-02	2.99E-02	9.50E-02
4597	497363.09	3859377.25	0.0073	0.00439	0.00402	0.00775	0.006	0.016	0.0044	0.00439	0.07616652	0.008108004	4.185E-07	4.08E-04	2.98E-03	2.32E-03	3.10E-02	2.99E-02	9.11E-02
4598	497863.09	3859377.25	0.00701	0.00456	0.0041	0.00796	0.007	0.015	0.0045	0.00456	0.07314072	0.008421981	4.268E-07	4.19E-04	3.10E-03	2.08E-03	3.21E-02	3.10E-02	8.83E-02
4599	498363.09	3859377.25	0.00667	0.00472	0.00415	0.00797	0.007	0.014	0.0047	0.00472	0.06959324	0.008717489	4.32E-07	4.20E-04	3.09E-03	1.90E-03	3.30E-02	3.21E-02	8.46E-02
4600	471363.09	3859877.25	0.00139	0.001	0.00067	0.00099	0.001	0.001	0.001	0.001	0.01450294	0.001846926	6.975E-08	5.21E-05	6.05E-04	1.55E-04	7.09E-03	6.80E-03	1.74E-02
4601	471863.09	3859877.25	0.00144	0.00102	0.00069	0.00102	0.001	0.001	0.001	0.00102	0.01502463	0.001883864	7.183E-08	5.37E-05	6.52E-04	1.60E-04	7.23E-03	6.94E-03	1.81E-02
4602	472363.09	3859877.25	0.00149	0.00104	0.0007	0.00106	0.001	0.001	0.001	0.00104	0.01554632	0.001920803	7.287E-08	5.58E-05	6.99E-04	1.65E-04	7.37E-03	7.07E-03	1.87E-02
4603	472863.09	3859877.25	0.00154	0.00108	0.00073	0.00111	0.002	0.001	0.0011	0.00108	0.016068	0.00199468	7.6E-08	5.85E-05	7.50E-04	1.73E-04	7.58E-03	7.34E-03	1.93E-02
4604	473363.09	3859877.25	0.0016	0.00111	0.00076	0.00116	0.002	0.001	0.0011	0.00111	0.01669403	0.002050087	7.912E-08	6.11E-05	7.97E-04	1.81E-04	7.79E-03	7.55E-03	2.00E-02
4605	473863.09	3859877.25	0.00166	0.00113	0.0008	0.00121	0.002	0.001	0.0011	0.00113	0.01732006	0.002087026	8.328E-08	6.37E-05	8.44E-04	1.90E-04	7.94E-03	7.68E-03	2.08E-02
4606	474363.09	3859877.25	0.00176	0.00109	0.00078	0.00123	0.002	0.001	0.0011	0.00109	0.01836343	0.002013149	8.12E-08	6.48E-05	8.72E-04	1.87E-04	7.86E-03	7.41E-03	2.20E-02
4607	474863.09	3859877.25	0.00178	0.00102	0.00074	0.00121	0.002	0.001	0.0011	0.00102	0.01857211	0.001883864	7.704E-08	6.37E-05	8.35E-04	1.80E-04	7.44E-03	6.94E-03	2.20E-02
4608	475363.09	3859877.25	0.00165	0.00088	0.00066	0.00108	0.001	0.001	0.0009	0.00088	0.01721572	0.001625295	6.871E-08	5.69E-05	6.52E-04	1.60E-04	6.45E-03	5.98E-03	2.02E-02
4609	475863.09	3859877.25	0.00126	0.00076	0.00056	0.00091	1E-03	0.001	0.0008	0.00076	0.01314655	0.001403664	5.83E-08	4.79E-05	4.64E-04	1.42E-04	5.38E-03	5.17E-03	1.54E-02
4610	476363.09	3859877.25	0.00104	0.00068	0.0005	0.00082	9E-04	9E-04	0.0007	0.00068	0.01085112	0.001255909	5.205E-08	4.32E-05	4.27E-04	1.31E-04	4.75E-03	4.62E-03	1.28E-02
4611	476863.09	3859877.25	0.00111	0.00071	0.00054	0.00088	1E-03	1E-03	0.0007	0.00071	0.01158148	0.001311317	5.622E-08	4.64E-05	4.64E-04	1.39E-04	5.03E-03	4.83E-03	1.37E-02
4612	477363.09	3859877.25	0.00116	0.00073	0.00057	0.00091	0.001	0.001	0.0007	0.00073	0.01210317	0.001348256	5.934E-08	4.79E-05	4.97E-04	1.45E-04	5.17E-03	4.96E-03	1.43E-02
4613	477863.09	3859877.25	0.00159	0.00085	0.00065	0.00109	0.001	0.001	0.0009	0.00085	0.01658969	0.001569887	6.767E-08	5.74E-05	6.05E-04	1.69E-04	6.09E-03	5.78E-03	1.93E-02
4614	478363.09	3859877.25	0.00217	0.00099	0.00075	0.00135	0.002	0.001	0.001	0.00099	0.02264128	0.001828456	7.808E-08	7.11E-05	7.88E-04	2.01E-04	7.30E-03	6.73E-03	2.61E-02
4615	478863.09	3859877.25	0.00257	0.00116	0.00084	0.00161	0.002	0.002	0.0012	0.00116	0.02681479	0.002142434	8.745E-08	8.48E-05	1.01E-03	2.39E-04	8.64E-03	7.89E-03	3.10E-02
4616	479363.09	3859877.25	0.00282	0.00138	0.00099	0.00186	0.002	0.002	0.0014	0.00138	0.02942323	0.002548757	1.031E-07	9.80E-05	1.15E-03	2.88E-04	9.85E-03	9.38E-03	3.40E-02
4617	479863.09	3859877.25	0.00293	0.00155	0.00131	0.00208	0.003	0.002	0.0015	0.00155	0.03057094	0.002862735	1.364E-07	1.10E-04	1.28E-03	3.33E-04	1.08E-02	1.05E-02	3.54E-02
4618	480363.09	3859877.25	0.00301	0.00169	0.00161	0.00227	0.003	0.003	0.0016	0.00169	0.03140565	0.003121304	1.676E-07	1.20E-04	1.44E-03	3.73E-04	1.15E-02	1.15E-02	3.65E-02
4619	480863.09	3859877.25	0.0031	0.0018	0.00165	0.00244	0.003	0.003	0.0017	0.0018	0.03234468	0.003324466	1.718E-07	1.29E-04	1.58E-03	4.07E-04	1.21E-02	1.22E-02	3.77E-02
4620	481363.09	3859877.25	0.00321	0.00189	0.00158	0.00261	0.004	0.003	0.0018	0.00189	0.0334924	0.00349069	1.645E-07	1.37E-04	1.69E-03	4.36E-04	1.26E-02	1.29E-02	3.90E-02
4621	481863.09	3859877.25	0.00337	0.00198	0.00177	0.00278	0.004	0.003	0.0019	0.00198	0.0351618	0.003656913	1.843E-07	1.46E-04	1.81E-03	4.68E-04	1.32E-02	1.35E-02	4.10E-02
4622	482363.09	3859877.25	0.00355	0.00209	0.00209	0.00296	0.004	0.004	0.002	0.00209	0.03703988	0.003860075	2.176E-07	1.56E-04	1.94E-03	5.09E-04	1.38E-02	1.42E-02	4.31E-02
4623	482863.09	3859877.25	0.00372	0.00219	0.00233	0.00319	0.004	0.004	0.002	0.00219	0.03881362	0.004044767	2.426E-07	1.68E-04	2.08E-03	5.56E-04	1.45E-02	1.49E-02	4.52E-02
4624	483363.09	3859877.25	0.0039	0.00231	0.00221	0.00342	0.005	0.004	0.0021	0.00231	0.0406917	0.004266398	2.301E-07	1.80E-04	2.25E-03	6.18E-04	1.52E-02	1.57E-02	4.75E-02
4625	483863.09	3859877.25	0.00396	0.00251	0.00218	0.00363	0.005	0.005	0.0023	0.00251	0.04131773	0.004635783	2.27E-07	1.91E-04	2.31E-03	7.22E-04	1.60E-02	1.71E-02	4.81E-02
4626	484363.09	3859877.25	0.00429	0.00267	0.00237	0.00387	0.005	0.006	0.0024	0.00267	0.04476087	0.004931292	2.467E-07	2.04E-04	2.40E-03	8.12E-04	1.69E-02	1.82E-02	5.19E-02
4627	484863.09	3859877.25	0.0048	0.00284	0.00252	0.00418	0.005	0.007	0.0026	0.00284	0.05008209	0.005245269	2.623E-07	2.20E-04	2.33E-03	9.30E-04	1.81E-02	1.93E-02	5.76E-02
4628	485363.09	3859877.25	0.00561	0.00308	0.0029	0.00456	0.005	0.008	0.0028	0.00308	0.05853345	0.005688531	3.019E-07	2.40E-04	2.23E-03	1.10E-03	1.96E-02	2.09E-02	6.64E-02
4629	485863.09	3859877.25	0.00682	0.00341	0.00321	0.00504	0.005	0.009	0.003	0.00341	0.07115831	0.006298017	3.342E-07	2.65E-04	2.29E-03	1.33E-03	2.15E-02	2.32E-02	7.97E-02
4630	486363.09	3859877.25	0.0085	0.00381	0.00413	0.00571	0.005	0.012	0.0034	0.00381	0.08868704	0.007036787	4.3E-07	3.01E-04	2.28E-03	1.67E-03	2.40E-02	2.59E-02	9.81E-02
4631	486863.09	3859877.25	0.01132	0.00428	0.00384	0.00664	0.004	0.017	0.0038	0.00428	0.11811027	0.007904842	3.998E-07	3.50E-04	1.83E-03	2.33E-03	2.70E-02	2.91E-02	1.28E-01
4632	487363.09	3859877.25	0.02022	0.00478	0.00418	0.00788	0.003	0.032	0.0043	0.00478	0.21097081	0.008828305	4.352E-07	4.15E-04	1.50E-03	4.48E-03	3.03E-02	3.25E-02	2.24E-01
4633	487863.09	3859877.25	0.08511	0.00543	0.00452	0.00983	0.003	0.071	0.005	0.00543	0.8880181	0.010028806	4.706E-07	5.18E-04	1.43E-03	1.00E-02	3.51E-02	3.69E-02	9.08E-01
4634	488363.09	3859877.25	0.08888	0.00622	0.00632	0.01317	0.002	0.203	0.0058	0.00622	0.92735341	0.011487878	6.58E-07	6.94E-04	1.17E-03	2.86E-02	4.09E-02	4.23E-02	9.68E-01
4635	488863.09	3859877.25	0.04885	0.00772	0.00838	0.02402	0.004	0.047	0.0073	0.00772	0.50968963	0.014258266	8.724E-07	1.27E-03	1.73E-03	6.60E-03	5.15E-02	5.25E-02	5.33E-01
4636	489363.09	3859877.25	0.03856	0.01039	0.01416	0.10393	0.007	0.032	0.0101	0.01039	0.40232614	0.019189558	1.474E-06	5.47E-03	3.15E-03	4.51E-03	7.12E-02	7.07E-02	4.35E-01

4637	489863.09	3859877.25	0.02861	0.01636	0.01638	0.04128	0.006	0.029	0.016	0.01636	0.29851014	0.030215704	1.705E-06	2.17E-03	2.87E-03	4.12E-03	1.13E-01	1.11E-01	3.40E-01
4638	490363.09	3859877.25	0.02462	0.03678	0.0169	0.04774	0.005	0.036	0.0362	0.03678	0.2568794	0.067929926	1.759E-06	2.51E-03	2.28E-03	5.08E-03	2.56E-01	2.50E-01	3.41E-01
4639	490863.09	3859877.25	0.05763	0.27913	0.01885	0.2926	0.005	0.305	0.3076	0.27913	0.60129812	0.515532363	1.962E-06	1.54E-02	2.37E-03	4.30E-02	2.18E+00	1.90E+00	1.46E+00
4640	491363.09	3859877.25	0.03288	0.05403	0.01721	0.23577	0.005	0.115	0.0539	0.05403	0.34306233	0.099789394	1.792E-06	1.24E-02	2.47E-03	1.62E-02	3.82E-01	3.67E-01	4.88E-01
4641	491863.09	3859877.25	0.02009	0.02736	0.0144	0.08043	0.006	0.056	0.0272	0.02736	0.20961442	0.050531886	1.499E-06	4.24E-03	2.66E-03	7.90E-03	1.92E-01	1.86E-01	2.81E-01
4642	492363.09	3859877.25	0.01582	0.01857	0.01184	0.0424	0.006	0.041	0.0184	0.01857	0.16506223	0.03429741	1.233E-06	2.23E-03	2.58E-03	5.70E-03	1.30E-01	1.26E-01	2.14E-01
4643	492863.09	3859877.25	0.01349	0.01364	0.00955	0.02636	0.005	0.033	0.0135	0.01364	0.14075155	0.025192066	9.942E-07	1.39E-03	2.40E-03	4.61E-03	9.54E-02	9.27E-02	1.77E-01
4644	493363.09	3859877.25	0.01181	0.01124	0.00812	0.01977	0.005	0.031	0.0111	0.01124	0.12322282	0.020759445	8.453E-07	1.04E-03	2.37E-03	4.37E-03	7.84E-02	7.64E-02	1.54E-01
4645	493863.09	3859877.25	0.0106	0.00966	0.00711	0.01608	0.005	0.034	0.0095	0.00966	0.11059795	0.017841302	7.402E-07	8.47E-04	2.51E-03	4.75E-03	6.71E-02	6.57E-02	1.38E-01
4646	494363.09	3859877.25	0.00974	0.00833	0.00623	0.01342	0.006	0.083	0.0082	0.00833	0.10162491	0.015384891	6.486E-07	7.07E-04	2.65E-03	1.16E-02	5.77E-02	5.66E-02	1.33E-01
4647	494863.09	3859877.25	0.00895	0.00761	0.00572	0.01194	0.006	0.054	0.0074	0.00761	0.09338223	0.014055104	5.955E-07	6.29E-04	2.74E-03	7.63E-03	5.27E-02	5.17E-02	1.19E-01
4648	495363.09	3859877.25	0.00835	0.00687	0.0052	0.01061	0.006	0.033	0.0067	0.00687	0.08712197	0.012688379	5.414E-07	5.59E-04	2.73E-03	4.57E-03	4.77E-02	4.67E-02	1.09E-01
4649	495863.09	3859877.25	0.00783	0.00624	0.00472	0.00951	0.006	0.024	0.0061	0.00624	0.08169641	0.011524816	4.914E-07	5.01E-04	2.68E-03	3.34E-03	4.34E-02	4.24E-02	1.01E-01
4650	496363.09	3859877.25	0.00736	0.00552	0.00412	0.00828	0.005	0.018	0.0055	0.00552	0.07679254	0.01019503	4.289E-07	4.36E-04	2.56E-03	2.52E-03	3.86E-02	3.75E-02	9.36E-02
4651	496863.09	3859877.25	0.00654	0.00457	0.00327	0.00654	0.004	0.013	0.0046	0.00457	0.06823685	0.00844045	3.404E-07	3.44E-04	2.07E-03	1.83E-03	3.23E-02	3.11E-02	8.22E-02
4652	497363.09	3859877.25	0.00649	0.00485	0.00353	0.00713	0.005	0.013	0.0048	0.00485	0.06771516	0.00895759	3.675E-07	3.76E-04	2.45E-03	1.82E-03	3.42E-02	3.30E-02	8.25E-02
4653	497863.09	3859877.25	0.0062	0.00525	0.0038	0.00757	0.006	0.013	0.0052	0.00525	0.06468937	0.00969636	3.956E-07	3.99E-04	2.61E-03	1.76E-03	3.67E-02	3.57E-02	8.02E-02
4654	498363.09	3859877.25	0.0058	0.00546	0.00383	0.00748	0.006	0.012	0.0054	0.00546	0.06051586	0.010084214	3.987E-07	3.94E-04	2.63E-03	1.63E-03	3.80E-02	3.71E-02	7.62E-02
4655	471363.09	3860377.25	0.00134	0.00098	0.00066	0.00098	0.001	0.001	0.001	0.00098	0.01398125	0.001809987	6.871E-08	5.16E-05	6.85E-04	1.53E-04	6.87E-03	6.66E-03	1.69E-02
4656	471863.09	3860377.25	0.00139	0.001	0.00069	0.00101	0.002	0.001	0.001	0.001	0.01450294	0.001846926	7.183E-08	5.32E-05	7.17E-04	1.60E-04	7.01E-03	6.80E-03	1.75E-02
4657	472363.09	3860377.25	0.00144	0.00103	0.00072	0.00105	0.002	0.001	0.001	0.00103	0.01502463	0.001902333	7.496E-08	5.53E-05	7.46E-04	1.67E-04	7.23E-03	7.00E-03	1.81E-02
4658	472863.09	3860377.25	0.00148	0.00105	0.00077	0.0011	0.002	0.001	0.001	0.00105	0.01544198	0.001939272	8.016E-08	5.79E-05	7.74E-04	1.76E-04	7.37E-03	7.14E-03	1.86E-02
4659	473363.09	3860377.25	0.00154	0.00108	0.00082	0.00114	0.002	0.001	0.0011	0.00108	0.016068	0.00199468	8.537E-08	6.00E-05	8.07E-04	1.86E-04	7.58E-03	7.34E-03	1.94E-02
4660	473863.09	3860377.25	0.00161	0.0011	0.00085	0.00119	0.002	0.001	0.0011	0.0011	0.01679837	0.002031618	8.849E-08	6.27E-05	8.35E-04	1.93E-04	7.72E-03	7.48E-03	2.02E-02
4661	474363.09	3860377.25	0.00169	0.0011	0.00084	0.00122	0.002	0.001	0.0011	0.0011	0.01763307	0.002031618	8.745E-08	6.43E-05	8.58E-04	1.96E-04	7.79E-03	7.48E-03	2.11E-02
4662	474863.09	3860377.25	0.00178	0.00108	0.00078	0.00124	0.002	0.001	0.0011	0.00108	0.01857211	0.00199468	8.12E-08	6.53E-05	8.72E-04	1.96E-04	7.72E-03	7.34E-03	2.21E-02
4663	475363.09	3860377.25	0.00183	0.00102	0.0007	0.00123	0.002	0.001	0.0011	0.00102	0.0190938	0.001883864	7.287E-08	6.48E-05	8.44E-04	1.89E-04	7.44E-03	6.94E-03	2.26E-02
4664	475863.09	3860377.25	0.00184	0.00096	0.00066	0.0012	0.002	0.001	0.001	0.00096	0.01919814	0.001773049	6.871E-08	6.32E-05	7.92E-04	1.80E-04	7.01E-03	6.53E-03	2.25E-02
4665	476363.09	3860377.25	0.00178	0.00088	0.00065	0.00114	0.001	0.001	0.0009	0.00088	0.01857211	0.001625295	6.767E-08	6.00E-05	6.66E-04	1.69E-04	6.52E-03	5.98E-03	2.16E-02
4666	476863.09	3860377.25	0.00175	0.00086	0.00066	0.00113	0.001	0.001	0.0009	0.00086	0.0182591	0.001588356	6.871E-08	5.95E-05	6.42E-04	1.69E-04	6.31E-03	5.85E-03	2.12E-02
4667	477363.09	3860377.25	0.00137	0.00078	0.00056	0.00098	0.001	0.001	0.0008	0.00078	0.01429426	0.001440602	5.83E-08	5.16E-05	5.44E-04	1.53E-04	5.60E-03	5.30E-03	1.68E-02
4668	477863.09	3860377.25	0.00157	0.00083	0.0006	0.00109	0.001	0.001	0.0009	0.00083	0.01638102	0.001532948	6.246E-08	5.74E-05	5.96E-04	1.66E-04	6.02E-03	5.64E-03	1.91E-02
4669	478363.09	3860377.25	0.00215	0.00098	0.00069	0.00139	0.002	0.001	0.001	0.00098	0.0224326	0.001809987	7.183E-08	7.32E-05	7.55E-04	2.00E-04	7.23E-03	6.66E-03	2.58E-02
4670	478863.09	3860377.25	0.00242	0.00114	0.00084	0.00163	0.002	0.002	0.0012	0.00114	0.02524972	0.002105495	8.745E-08	8.59E-05	9.28E-04	2.36E-04	8.29E-03	7.75E-03	2.91E-02
4671	479363.09	3860377.25	0.00263	0.00132	0.00108	0.0019	0.002	0.002	0.0013	0.00132	0.02744081	0.002437942	1.124E-07	1.00E-04	1.13E-03	2.80E-04	9.42E-03	8.98E-03	3.18E-02
4672	479863.09	3860377.25	0.00268	0.00149	0.00144	0.00211	0.003	0.002	0.0015	0.00149	0.0279625	0.002751919	1.499E-07	1.11E-04	1.31E-03	3.22E-04	1.03E-02	1.01E-02	3.26E-02
4673	480363.09	3860377.25	0.00272	0.00161	0.00156	0.00226	0.003	0.003	0.0016	0.00161	0.02837985	0.00297355	1.624E-07	1.19E-04	1.40E-03	3.56E-04	1.10E-02	1.09E-02	3.33E-02
4674	480863.09	3860377.25	0.00277	0.00172	0.0016	0.00238	0.003	0.003	0.0016	0.00172	0.02890154	0.003176712	1.666E-07	1.25E-04	1.46E-03	3.87E-04	1.15E-02	1.17E-02	3.39E-02
4675	481363.09	3860377.25	0.00287	0.00179	0.00171	0.00251	0.003	0.003	0.0017	0.00179	0.02994492	0.003305997	1.78E-07	1.32E-04	1.53E-03	4.09E-04	1.20E-02	1.22E-02	3.51E-02
4676	481863.09	3860377.25	0.00297	0.00189	0.00197	0.00265	0.003	0.003	0.0018	0.00189	0.03098829	0.00349069	2.051E-07	1.40E-04	1.60E-03	4.43E-04	1.26E-02	1.29E-02	3.64E-02
4677	482363.09	3860377.25	0.00311	0.00198	0.00203	0.00281	0.004	0.003	0.0019	0.00198	0.03244902	0.003656913	2.113E-07	1.48E-04	1.72E-03	4.83E-04	1.32E-02	1.35E-02	3.82E-02
4678	482863.09	3860377.25	0.00325	0.00205	0.002	0.00298	0.004	0.004	0.0019	0.00205	0.03390975	0.003786198	2.082E-07	1.57E-04	1.86E-03	5.21E-04	1.37E-02	1.39E-02	4.00E-02
4679	483363.09	3860377.25	0.00334	0.00217	0.00197	0.00315	0.004	0.004	0.002	0.00217	0.03484879	0.004007829	2.051E-07	1.66E-04	1.97E-03	5.73E-04	1.43E-02	1.48E-02	4.11E-02
4680	483863.09	3860377.25	0.00351	0.00228	0.00203	0.00335	0.004	0.004	0.0021	0.00228	0.03662253	0.004210991	2.113E-07	1.76E-04	2.01E-03	6.23E-04	1.50E-02	1.55E-02	4.32E-02
4681	484363.09	3860377.25	0.00361	0.00242	0.00238	0.00357	0.004	0.005	0.0022	0.00242	0.03766591	0.00446956	2.478E-07	1.88E-04	1.82E-03	6.99E-04	1.57E-02	1.65E-02	4.41E-02
4682	484863.09	3860377.25	0.00391	0.00254	0.00242	0.00389	0.004	0.006	0.0023	0.00254	0.04079604	0.004691191	2.519E-07	2.05E-04	1.68E-03	7.82E-04	1.66E-02	1.73E-02	4.75E-02
4683	485363.09	3860377.25	0.00435	0.00268	0.00235	0.00425	0.004	0.006	0.0025	0.00268	0.0453869	0.004949761	2.446E-07	2.24E-04	1.71E-03	8.81E-04	1.76E-02	1.82E-02	5.25E-02
4684	485863.09	3860377.25	0.00507	0.0029	0.00299	0.00467	0.004	0.007	0.0027	0.0029	0.05289921	0.005356084	3.113E-07	2.46E-04	1.84E-03	1.02E-03	1.89E-02	1.97E-02	6.06E-02
4685	486363.09	3860377.25	0.00608	0.00316	0.003	0.00521	0.003	0.009	0.0029	0.00316	0.06343732	0.005836285	3.123E-07	2.74E-04	1.64E-03	1.24E-03	2.05E-02	2.15E-02	7.15E-02
4686	486863.09	3860377.25	0.0079	0.00344	0.00304	0.00592	0.003	0.012	0.0032	0.00344	0.08242678	0.006353424	3.165E-07	3.12E-04	1.21E-03	1.65E-03	2.25E-02	2.34E-02	9.10E-02
4687	487363.09	3860377.25	0.01381	0.00379	0.00337	0.00684	0.002	0.025	0.0035	0.00379	0.14409035	0.006999848	3.508E-07	3.60E-04	1.17E-03	3.54E-03	2.47E-02	2.58E-02	1.55E-01
4688	487863.09	3860377.25	0.075	0.00426	0.00332	0.00829	0.002	0.08	0.004	0.00426	0.7825327	0.007867903	3.456E-07	4.37E-04	1.09E-03	1.13E-02	2.81E-02	2.90E-02	8.02E-01
4689	488363.09	3860377.25	0.09417	0.00479	0.00396	0.0112	0.002	0.18	0.0045	0.00479	0.98254805	0.008846774	4.123E-07	5.90E-04	8.68E-04	2.54E-02	3.21E-02	3.26E-02	1.02E+00
4690	488863.09	3860377.25	0.09814	0.0055	0.00496	0.02075	0.002	0.046	0.0053	0.0055	1.02397012	0.010158091	5.164E-07	1.09E-03	1.01E-03	6.53E-03	3.74E-02	3.74E-02	1.04E+00
4691	489363.09	3860377.25	0.04575	0.00647	0.00635	0.09839	0.004	0.028	0.0063	0.00647	0.47734494	0.011949609	6.611E-07	5.18E-03	1.89E-03	3.90E-03	4.44E-02	4.40E-02	5.01E-01
4692	489863.09	3860377.25	0.02348	0.00777	0.00539	0.03137	0.005	0.021	0.0076	0.00777	0.2449849	0.014350612	5.611E-07	1.65E-03	2.51E-03	3.02E-03	5.38E-02	5.28E-02	2.68E-01
4693	490363.09	3860377.25	0.01677	0.00997	0.00587	0.02372	0.004	0.019	0.0098	0.00997	0.17497431	0.018413849	6.111E-07	1.25E-03	2.01E-03	2.71E-03	6.94E-02	6.78E-02	2.01E-01
4694	490863.09	3860377.25	0.01417	0.01508	0.00564	0.02223	0.004	0.019	0.0149	0.01508	0.14784651	0.027851639	5.872E-07	1.17E-03	1.65E-03	2.69E-03	1.05E-01	1.03E-01	1.84E-01

4695	491363.09	3860377.25	0.0161	0.04555	0.00547	0.02245	0.004	0.021	0.0445	0.04555	0.16798369	0.084127464	5.695E-07	1.18E-03	1.68E-03	3.00E-03	3.15E-01	3.10E-01	2.63E-01
4696	491863.09	3860377.25	0.0212	0.07813	0.00595	0.02138	0.004	0.029	0.0806	0.07813	0.22119591	0.144300303	6.194E-07	1.13E-03	1.71E-03	4.10E-03	5.71E-01	5.31E-01	4.12E-01
4697	492363.09	3860377.25	0.01221	0.03142	0.00642	0.01993	0.004	0.072	0.0318	0.03142	0.12739632	0.058030405	6.684E-07	1.05E-03	1.90E-03	1.02E-02	2.25E-01	2.14E-01	2.10E-01
4698	492863.09	3860377.25	0.00984	0.02111	0.00625	0.01762	0.004	0.312	0.0211	0.02111	0.10266829	0.038988601	6.507E-07	9.28E-04	1.98E-03	4.39E-02	1.50E-01	1.44E-01	1.95E-01
4699	493363.09	3860377.25	0.0088	0.01526	0.00598	0.01509	0.004	0.083	0.0152	0.01526	0.09181717	0.028184086	6.226E-07	7.95E-04	1.90E-03	1.17E-02	1.08E-01	1.04E-01	1.38E-01
4700	493863.09	3860377.25	0.00789	0.0131	0.00573	0.01324	0.004	0.073	0.013	0.0131	0.08232244	0.024194726	5.965E-07	6.97E-04	1.72E-03	1.03E-02	9.21E-02	8.91E-02	1.22E-01
4701	494363.09	3860377.25	0.00741	0.01096	0.00529	0.0117	0.004	0.06	0.0108	0.01096	0.07731423	0.020242305	5.507E-07	6.16E-04	1.71E-03	8.41E-03	7.67E-02	7.45E-02	1.11E-01
4702	494863.09	3860377.25	0.00686	0.0101	0.00502	0.01062	0.004	0.034	0.0099	0.0101	0.07157566	0.018653949	5.226E-07	5.59E-04	1.79E-03	4.76E-03	7.04E-02	6.87E-02	9.91E-02
4703	495363.09	3860377.25	0.00656	0.00892	0.00463	0.0097	0.004	0.023	0.0088	0.00892	0.06844553	0.016474577	4.82E-07	5.11E-04	1.94E-03	3.26E-03	6.21E-02	6.07E-02	9.20E-02
4704	495863.09	3860377.25	0.00641	0.00756	0.00409	0.0086	0.004	0.017	0.0074	0.00756	0.06688046	0.013962758	4.258E-07	4.53E-04	2.04E-03	2.41E-03	5.26E-02	5.14E-02	8.69E-02
4705	496363.09	3860377.25	0.00619	0.00659	0.00358	0.00754	0.004	0.013	0.0065	0.00659	0.06458503	0.01217124	3.727E-07	3.97E-04	2.04E-03	1.86E-03	4.60E-02	4.48E-02	8.22E-02
4706	496863.09	3860377.25	0.00592	0.00596	0.00325	0.00676	0.004	0.011	0.0059	0.00596	0.06176791	0.011007677	3.383E-07	3.56E-04	1.98E-03	1.55E-03	4.17E-02	4.05E-02	7.79E-02
4707	497363.09	3860377.25	0.00557	0.00531	0.00289	0.00597	0.004	0.009	0.0053	0.00531	0.05811609	0.009807175	3.009E-07	3.14E-04	1.86E-03	1.30E-03	3.73E-02	3.61E-02	7.26E-02
4708	497863.09	3860377.25	0.0054	0.00564	0.00312	0.00646	0.004	0.009	0.0056	0.00564	0.05634235	0.010416661	3.248E-07	3.40E-04	2.04E-03	1.34E-03	3.95E-02	3.84E-02	7.17E-02
4709	498363.09	3860377.25	0.00506	0.00601	0.00325	0.00663	0.004	0.009	0.0059	0.00601	0.05279487	0.011100023	3.383E-07	3.49E-04	2.10E-03	1.31E-03	4.19E-02	4.09E-02	6.87E-02
4710	471363.09	3860877.25	0.0013	0.00096	0.0007	0.00097	0.001	0.001	0.001	0.00096	0.0135639	0.001773049	7.287E-08	5.11E-05	6.71E-04	1.58E-04	6.73E-03	6.53E-03	1.64E-02
4711	471863.09	3860877.25	0.00134	0.00098	0.00073	0.001	0.001	0.001	0.001	0.00098	0.01398125	0.001809987	7.6E-08	5.27E-05	6.99E-04	1.66E-04	6.87E-03	6.66E-03	1.69E-02
4712	472363.09	3860877.25	0.00139	0.001	0.00076	0.00104	0.002	0.001	0.001	0.001	0.01450294	0.001846926	7.912E-08	5.48E-05	7.22E-04	1.73E-04	7.01E-03	6.80E-03	1.75E-02
4713	472863.09	3860877.25	0.00144	0.00103	0.00079	0.00109	0.002	0.001	0.001	0.00103	0.01502463	0.001902333	8.224E-08	5.74E-05	7.55E-04	1.81E-04	7.16E-03	7.00E-03	1.81E-02
4714	473363.09	3860877.25	0.0015	0.00105	0.00081	0.00114	0.002	0.001	0.001	0.00105	0.01565065	0.001939272	8.433E-08	6.00E-05	7.78E-04	1.89E-04	7.30E-03	7.14E-03	1.88E-02
4715	473863.09	3860877.25	0.00156	0.00107	0.00081	0.00119	0.002	0.001	0.0011	0.00107	0.01627668	0.00197621	8.433E-08	6.27E-05	7.92E-04	1.94E-04	7.44E-03	7.28E-03	1.95E-02
4716	474363.09	3860877.25	0.00163	0.00109	0.0008	0.00123	0.002	0.001	0.0011	0.00109	0.01700704	0.002013149	8.328E-08	6.48E-05	7.97E-04	2.00E-04	7.58E-03	7.41E-03	2.03E-02
4717	474863.09	3860877.25	0.0017	0.0011	0.00078	0.00129	0.002	0.001	0.0011	0.0011	0.01773741	0.002031618	8.12E-08	6.79E-05	7.92E-04	2.07E-04	7.72E-03	7.48E-03	2.11E-02
4718	475363.09	3860877.25	0.00179	0.0011	0.00077	0.00134	0.002	0.001	0.0011	0.0011	0.01867645	0.002031618	8.016E-08	7.06E-05	7.74E-04	2.08E-04	7.72E-03	7.48E-03	2.20E-02
4719	475863.09	3860877.25	0.00187	0.00107	0.00078	0.00136	0.002	0.001	0.0011	0.00107	0.01951115	0.00197621	8.12E-08	7.16E-05	7.41E-04	2.04E-04	7.65E-03	7.28E-03	2.29E-02
4720	476363.09	3860877.25	0.00191	0.00101	0.00076	0.00135	0.002	0.001	0.001	0.00101	0.0199285	0.001865395	7.912E-08	7.11E-05	7.13E-04	1.96E-04	7.37E-03	6.87E-03	2.33E-02
4721	476863.09	3860877.25	0.00196	0.001	0.00072	0.00136	0.002	0.001	0.001	0.001	0.02045019	0.001846926	7.496E-08	7.16E-05	7.17E-04	1.96E-04	7.30E-03	6.80E-03	2.38E-02
4722	477363.09	3860877.25	0.00202	0.00101	0.0007	0.0014	0.002	0.001	0.001	0.00101	0.02107621	0.001865395	7.287E-08	7.37E-05	7.55E-04	2.01E-04	7.37E-03	6.87E-03	2.45E-02
4723	477863.09	3860877.25	0.00202	0.00096	0.00065	0.00135	0.002	0.001	0.001	0.00096	0.02107621	0.001773049	6.767E-08	7.11E-05	7.60E-04	1.93E-04	7.09E-03	6.53E-03	2.44E-02
4724	478363.09	3860877.25	0.00169	0.00084	0.00062	0.00114	0.001	0.001	0.0009	0.00084	0.01763307	0.001551418	6.455E-08	6.00E-05	6.56E-04	1.73E-04	6.09E-03	5.71E-03	2.05E-02
4725	478863.09	3860877.25	0.00226	0.00108	0.00083	0.00153	0.002	0.002	0.0011	0.00108	0.02358032	0.00199468	8.641E-08	8.06E-05	9.66E-04	2.25E-04	7.86E-03	7.34E-03	2.74E-02
4726	479363.09	3860877.25	0.00243	0.00127	0.00118	0.00181	0.002	0.002	0.0013	0.00127	0.02535406	0.002345596	1.228E-07	9.53E-05	1.16E-03	2.72E-04	9.00E-03	8.64E-03	2.96E-02
4727	479863.09	3860877.25	0.00245	0.00142	0.00144	0.00201	0.003	0.002	0.0014	0.00142	0.02556273	0.002622634	1.499E-07	1.06E-04	1.21E-03	3.11E-04	9.78E-03	9.66E-03	2.99E-02
4728	480363.09	3860877.25	0.00245	0.00153	0.00155	0.00216	0.003	0.002	0.0015	0.00153	0.02556273	0.002825796	1.614E-07	1.14E-04	1.26E-03	3.45E-04	1.04E-02	1.04E-02	3.01E-02
4729	480863.09	3860877.25	0.0025	0.00161	0.00153	0.00226	0.003	0.003	0.0015	0.00161	0.02608442	0.00297355	1.593E-07	1.19E-04	1.30E-03	3.70E-04	1.08E-02	1.09E-02	3.07E-02
4730	481363.09	3860877.25	0.00256	0.00168	0.00172	0.00236	0.003	0.003	0.0016	0.00168	0.02671045	0.003102835	1.791E-07	1.24E-04	1.37E-03	3.94E-04	1.13E-02	1.14E-02	3.16E-02
4731	481863.09	3860877.25	0.00266	0.00176	0.00168	0.00245	0.003	0.003	0.0017	0.00176	0.02775383	0.003250589	1.749E-07	1.29E-04	1.47E-03	4.22E-04	1.18E-02	1.20E-02	3.28E-02
4732	482363.09	3860877.25	0.00275	0.00184	0.00175	0.00259	0.003	0.003	0.0017	0.00184	0.02869287	0.003398343	1.822E-07	1.36E-04	1.57E-03	4.53E-04	1.23E-02	1.25E-02	3.40E-02
4733	482863.09	3860877.25	0.00286	0.0019	0.00178	0.00277	0.004	0.003	0.0018	0.0019	0.02984058	0.003509159	1.853E-07	1.46E-04	1.65E-03	4.84E-04	1.27E-02	1.29E-02	3.54E-02
4734	483363.09	3860877.25	0.00296	0.00199	0.0017	0.00297	0.004	0.004	0.0019	0.00199	0.03088396	0.003675382	1.77E-07	1.56E-04	1.65E-03	5.21E-04	1.32E-02	1.35E-02	3.66E-02
4735	483863.09	3860877.25	0.00307	0.00209	0.00192	0.00319	0.003	0.004	0.002	0.00209	0.03203167	0.003860075	1.999E-07	1.68E-04	1.55E-03	5.63E-04	1.39E-02	1.42E-02	3.78E-02
4736	484363.09	3860877.25	0.00315	0.0022	0.00209	0.0034	0.003	0.004	0.0021	0.0022	0.03286637	0.004063236	2.176E-07	1.79E-04	1.37E-03	6.22E-04	1.46E-02	1.50E-02	3.87E-02
4737	484863.09	3860877.25	0.00328	0.0023	0.00193	0.0036	0.003	0.005	0.0022	0.0023	0.03422276	0.004247929	2.009E-07	1.90E-04	1.32E-03	6.75E-04	1.52E-02	1.56E-02	4.03E-02
4738	485363.09	3860877.25	0.00352	0.00241	0.00219	0.00391	0.003	0.005	0.0023	0.00241	0.03672687	0.004451091	2.28E-07	2.06E-04	1.48E-03	7.41E-04	1.61E-02	1.64E-02	4.33E-02
4739	485863.09	3860877.25	0.00393	0.00256	0.00259	0.00431	0.003	0.006	0.0024	0.00256	0.04100471	0.00472813	2.696E-07	2.27E-04	1.49E-03	8.37E-04	1.71E-02	1.74E-02	4.80E-02
4740	486363.09	3860877.25	0.00446	0.00275	0.00248	0.00474	0.002	0.007	0.0026	0.00275	0.04653461	0.005079046	2.582E-07	2.50E-04	1.13E-03	9.65E-04	1.83E-02	1.87E-02	5.35E-02
4741	486863.09	3860877.25	0.00522	0.00296	0.0025	0.00526	0.002	0.008	0.0028	0.00296	0.05446428	0.0054669	2.603E-07	2.77E-04	9.19E-04	1.16E-03	1.97E-02	2.01E-02	6.19E-02
4742	487363.09	3860877.25	0.00636	0.00319	0.00249	0.00595	0.002	0.011	0.003	0.00319	0.06635877	0.005891693	2.592E-07	3.13E-04	9.85E-04	1.57E-03	2.12E-02	2.17E-02	7.46E-02
4743	487863.09	3860877.25	0.00781	0.00346	0.00256	0.00718	0.002	0.018	0.0033	0.00346	0.08148774	0.006390363	2.665E-07	3.78E-04	8.68E-04	2.46E-03	2.30E-02	2.35E-02	9.11E-02
4744	488363.09	3860877.25	0.01005	0.00382	0.00294	0.00958	0.001	0.021	0.0036	0.00382	0.10485938	0.007055256	3.061E-07	5.05E-04	6.89E-04	3.00E-03	2.56E-02	2.60E-02	1.16E-01
4745	488863.09	3860877.25	0.01063	0.00415	0.00394	0.01883	0.002	0.018	0.004	0.00415	0.11091097	0.007664742	4.102E-07	9.92E-04	7.27E-04	2.60E-03	2.83E-02	2.82E-02	1.23E-01
4746	489363.09	3860877.25	0.01072	0.00464	0.00338	0.08873	0.002	0.015	0.0045	0.00464	0.11185001	0.008569735	3.519E-07	4.67E-03	1.06E-03	2.12E-03	3.22E-02	3.16E-02	1.29E-01
4747	489863.09	3860877.25	0.0097	0.00534	0.00311	0.02762	0.004	0.013	0.0052	0.00534	0.10120756	0.009862583	3.238E-07	1.45E-03	1.83E-03	1.80E-03	3.71E-02	3.63E-02	1.17E-01
4748	490363.09	3860877.25	0.00863	0.00644	0.00313	0.01875	0.004	0.012	0.0063	0.00644	0.09004343	0.011894201	3.259E-07	9.88E-04	1.89E-03	1.66E-03	4.47E-02	4.38E-02	1.07E-01
4749	490863.09	3860877.25	0.00787	0.00825	0.00325	0.01523	0.003	0.012	0.0081	0.00825	0.08211376	0.015237137	3.383E-07	8.02E-04	1.48E-03	1.62E-03	5.76E-02	5.61E-02	1.03E-01
4750	491363.09	3860877.25	0.00718	0.01188	0.00321	0.01333	0.003	0.012	0.0117	0.01188	0.07491446	0.021941477	3.342E-07	7.02E-04	1.26E-03	1.63E-03	8.32E-02	8.08E-02	1.03E-01
4751	491863.09	3860877.25	0.00682	0.02587	0.00314	0.01193	0.003	0.012	0.0255	0.02587	0.07115831	0.047779967	3.269E-07	6.28E-04	1.33E-03	1.67E-03	1.81E-01	1.76E-01	1.27E-01
4752	492363.09	3860877.25	0.00636	0.13855	0.0032	0.01081	0.003	0.012	0.1397	0.13855	0.06635877	0.255891552	3.331E-07	5.69E-04	1.29E-03	1.74E-03	9.90E-01	9.42E-01	3.74E-01

4753	492863.09	3860877.25	0.00603	0.04075	0.00335	0.00999	0.003	0.013	0.0409	0.04075	0.06291563	0.075262221	3.488E-07	5.26E-04	1.37E-03	1.83E-03	2.90E-01	2.77E-01	1.55E-01
4754	493363.09	3860877.25	0.00586	0.0257	0.00363	0.00961	0.003	0.014	0.0258	0.0257	0.06114189	0.04746599	3.779E-07	5.06E-04	1.52E-03	1.91E-03	1.83E-01	1.75E-01	1.20E-01
4755	493863.09	3860877.25	0.00559	0.0201	0.00365	0.00933	0.003	0.014	0.0201	0.0201	0.05832477	0.037123206	3.8E-07	4.91E-04	1.54E-03	1.94E-03	1.42E-01	1.37E-01	1.05E-01
4756	494363.09	3860877.25	0.00534	0.01692	0.0036	0.00887	0.003	0.013	0.0169	0.01692	0.05571633	0.031249982	3.748E-07	4.67E-04	1.42E-03	1.84E-03	1.19E-01	1.15E-01	9.51E-02
4757	494863.09	3860877.25	0.00517	0.0145	0.00359	0.00839	0.003	0.012	0.0144	0.0145	0.05394259	0.026780422	3.737E-07	4.42E-04	1.30E-03	1.76E-03	1.02E-01	9.86E-02	8.78E-02
4758	495363.09	3860877.25	0.00501	0.01267	0.00356	0.00791	0.003	0.012	0.0126	0.01267	0.05227318	0.023400548	3.706E-07	4.17E-04	1.28E-03	1.64E-03	8.91E-02	8.62E-02	8.20E-02
4759	495863.09	3860877.25	0.00484	0.01149	0.00349	0.00745	0.003	0.011	0.0114	0.01149	0.05049944	0.021221176	3.633E-07	3.92E-04	1.35E-03	1.52E-03	8.06E-02	7.81E-02	7.75E-02
4760	496363.09	3860877.25	0.0048	0.00983	0.00339	0.00706	0.003	0.01	0.0097	0.00983	0.05008209	0.018155279	3.529E-07	3.72E-04	1.47E-03	1.41E-03	6.89E-02	6.68E-02	7.35E-02
4761	496863.09	3860877.25	0.00483	0.00801	0.00311	0.00642	0.003	0.009	0.0079	0.00801	0.05039511	0.014793875	3.238E-07	3.38E-04	1.58E-03	1.25E-03	5.61E-02	5.45E-02	7.00E-02
4762	497363.09	3860877.25	0.00467	0.00752	0.00302	0.00613	0.003	0.008	0.0074	0.00752	0.0487257	0.013888881	3.144E-07	3.23E-04	1.63E-03	1.16E-03	5.26E-02	5.11E-02	6.72E-02
4763	497863.09	3860877.25	0.00455	0.00688	0.00285	0.00578	0.003	0.008	0.0068	0.00688	0.04747365	0.012706849	2.967E-07	3.04E-04	1.64E-03	1.07E-03	4.83E-02	4.68E-02	6.47E-02
4764	498363.09	3860877.25	0.00433	0.00695	0.00287	0.00576	0.004	0.007	0.0069	0.00695	0.04517822	0.012836133	2.988E-07	3.03E-04	1.66E-03	1.05E-03	4.87E-02	4.73E-02	6.24E-02
4765	471363.09	3861377.25	0.00127	0.00094	0.0007	0.00098	0.001	0.001	0.0009	0.00094	0.01325089	0.00173611	7.287E-08	5.16E-05	6.61E-04	1.62E-04	6.59E-03	6.39E-03	1.61E-02
4766	471863.09	3861377.25	0.00131	0.00096	0.00072	0.00103	0.001	0.001	0.001	0.00096	0.01366824	0.001773049	7.496E-08	5.43E-05	6.80E-04	1.67E-04	6.73E-03	6.53E-03	1.65E-02
4767	472363.09	3861377.25	0.00136	0.00098	0.00073	0.00107	0.001	0.001	0.001	0.00098	0.01418993	0.001809987	7.6E-08	5.64E-05	6.89E-04	1.73E-04	6.87E-03	6.66E-03	1.71E-02
4768	472863.09	3861377.25	0.0014	0.00101	0.00074	0.00112	0.002	0.001	0.001	0.00101	0.01460728	0.001865395	7.704E-08	5.90E-05	7.03E-04	1.80E-04	7.01E-03	6.87E-03	1.76E-02
4769	473363.09	3861377.25	0.00146	0.00103	0.00074	0.00116	0.002	0.001	0.001	0.00103	0.0152333	0.001902333	7.704E-08	6.11E-05	7.03E-04	1.87E-04	7.16E-03	7.00E-03	1.82E-02
4770	473863.09	3861377.25	0.00152	0.00104	0.00074	0.00121	0.001	0.001	0.001	0.00104	0.01585933	0.001920803	7.704E-08	6.37E-05	6.80E-04	1.93E-04	7.23E-03	7.07E-03	1.89E-02
4771	474363.09	3861377.25	0.00157	0.00107	0.00076	0.00127	0.001	0.001	0.001	0.00107	0.01638102	0.00197621	7.912E-08	6.69E-05	6.89E-04	2.01E-04	7.37E-03	7.28E-03	1.94E-02
4772	474863.09	3861377.25	0.00163	0.00108	0.00079	0.00132	0.001	0.001	0.0011	0.00108	0.01700704	0.00199468	8.224E-08	6.95E-05	6.66E-04	2.07E-04	7.51E-03	7.34E-03	2.01E-02
4773	475363.09	3861377.25	0.00168	0.00111	0.00086	0.00137	0.001	0.002	0.0011	0.00111	0.01752873	0.002050087	8.953E-08	7.22E-05	6.85E-04	2.15E-04	7.65E-03	7.55E-03	2.07E-02
4774	475863.09	3861377.25	0.00176	0.00112	0.00088	0.0014	0.002	0.002	0.0011	0.00112	0.01836343	0.002068557	9.161E-08	7.37E-05	7.08E-04	2.18E-04	7.72E-03	7.62E-03	2.15E-02
4775	476363.09	3861377.25	0.00184	0.00111	0.00086	0.00142	0.002	0.002	0.0011	0.00111	0.01919814	0.002050087	8.953E-08	7.48E-05	7.55E-04	2.18E-04	7.79E-03	7.55E-03	2.25E-02
4776	476863.09	3861377.25	0.00191	0.0011	0.00084	0.00144	0.002	0.002	0.0011	0.0011	0.0199285	0.002031618	8.745E-08	7.59E-05	8.25E-04	2.18E-04	7.79E-03	7.48E-03	2.34E-02
4777	477363.09	3861377.25	0.00197	0.0011	0.00082	0.00146	0.002	0.002	0.0011	0.0011	0.02055453	0.002031618	8.537E-08	7.69E-05	9.05E-04	2.21E-04	7.79E-03	7.48E-03	2.41E-02
4778	477863.09	3861377.25	0.00198	0.00102	0.00078	0.00138	0.002	0.001	0.001	0.00102	0.02065886	0.001883864	8.12E-08	7.27E-05	8.86E-04	2.04E-04	7.37E-03	6.94E-03	2.41E-02
4779	478363.09	3861377.25	0.00176	0.00085	0.00066	0.00116	0.001	0.001	0.0009	0.00085	0.01836343	0.001569887	6.871E-08	6.11E-05	6.80E-04	1.76E-04	6.24E-03	5.78E-03	2.13E-02
4780	478863.09	3861377.25	0.00195	0.00091	0.00072	0.0013	0.002	0.001	0.001	0.00091	0.02034585	0.001680702	7.496E-08	6.85E-05	7.50E-04	1.93E-04	6.73E-03	6.19E-03	2.36E-02
4781	479363.09	3861377.25	0.00223	0.00118	0.00106	0.00168	0.002	0.002	0.0012	0.00118	0.02326731	0.002179372	1.104E-07	8.85E-05	9.57E-04	2.56E-04	8.43E-03	8.02E-03	2.72E-02
4782	479863.09	3861377.25	0.00223	0.00133	0.00126	0.00185	0.002	0.002	0.0013	0.00133	0.02326731	0.002456411	1.312E-07	9.74E-05	1.03E-03	2.98E-04	9.28E-03	9.04E-03	2.74E-02
4783	480363.09	3861377.25	0.00222	0.00145	0.00131	0.00197	0.002	0.002	0.0014	0.00145	0.02316297	0.002678042	1.364E-07	1.04E-04	1.13E-03	3.35E-04	9.92E-03	9.86E-03	2.75E-02
4784	480863.09	3861377.25	0.00226	0.00152	0.00136	0.00207	0.003	0.003	0.0015	0.00152	0.02358032	0.002807327	1.416E-07	1.09E-04	1.21E-03	3.56E-04	1.03E-02	1.03E-02	2.81E-02
4785	481363.09	3861377.25	0.0023	0.00158	0.00148	0.00219	0.003	0.003	0.0015	0.00158	0.02399767	0.002918143	1.541E-07	1.15E-04	1.28E-03	3.76E-04	1.07E-02	1.07E-02	2.86E-02
4786	481863.09	3861377.25	0.00237	0.00165	0.00144	0.00232	0.003	0.003	0.0016	0.00165	0.02472803	0.003047427	1.499E-07	1.22E-04	1.35E-03	3.98E-04	1.11E-02	1.12E-02	2.96E-02
4787	482363.09	3861377.25	0.00245	0.00172	0.00151	0.00248	0.003	0.003	0.0016	0.00172	0.02556273	0.003176712	1.572E-07	1.31E-04	1.39E-03	4.28E-04	1.15E-02	1.17E-02	3.05E-02
4788	482863.09	3861377.25	0.00251	0.00177	0.00161	0.00265	0.003	0.003	0.0017	0.00177	0.02618876	0.003269058	1.676E-07	1.40E-04	1.37E-03	4.56E-04	1.18E-02	1.20E-02	3.12E-02
4789	483363.09	3861377.25	0.00258	0.00184	0.00165	0.00279	0.003	0.003	0.0017	0.00184	0.02691912	0.003398343	1.718E-07	1.47E-04	1.28E-03	4.80E-04	1.23E-02	1.25E-02	3.20E-02
4790	483863.09	3861377.25	0.00264	0.00191	0.00182	0.00294	0.002	0.004	0.0018	0.00191	0.02754515	0.003527628	1.895E-07	1.55E-04	1.14E-03	5.09E-04	1.28E-02	1.30E-02	3.27E-02
4791	484363.09	3861377.25	0.00272	0.00199	0.00182	0.00312	0.002	0.004	0.0019	0.00199	0.02837985	0.003675382	1.895E-07	1.64E-04	1.10E-03	5.46E-04	1.34E-02	1.35E-02	3.37E-02
4792	484863.09	3861377.25	0.00273	0.00207	0.00192	0.00333	0.003	0.004	0.002	0.00207	0.02848419	0.003823136	1.999E-07	1.75E-04	1.21E-03	5.85E-04	1.40E-02	1.41E-02	3.42E-02
4793	485363.09	3861377.25	0.00277	0.00214	0.00205	0.00358	0.003	0.004	0.002	0.00214	0.02890154	0.003952421	2.134E-07	1.89E-04	1.28E-03	6.20E-04	1.45E-02	1.46E-02	3.48E-02
4794	485863.09	3861377.25	0.00291	0.00224	0.00195	0.00387	0.002	0.005	0.0022	0.00224	0.03036227	0.004137114	2.03E-07	2.04E-04	1.10E-03	6.70E-04	1.52E-02	1.52E-02	3.65E-02
4795	486363.09	3861377.25	0.00311	0.00238	0.00184	0.00419	0.002	0.005	0.0023	0.00238	0.03244902	0.004395683	1.916E-07	2.21E-04	8.07E-04	7.23E-04	1.62E-02	1.62E-02	3.86E-02
4796	486863.09	3861377.25	0.00337	0.00256	0.00204	0.0046	0.002	0.006	0.0024	0.00256	0.0351618	0.00472813	2.124E-07	2.42E-04	7.55E-04	7.93E-04	1.72E-02	1.74E-02	4.15E-02
4797	487363.09	3861377.25	0.00349	0.00273	0.00226	0.00523	0.002	0.006	0.0026	0.00273	0.03641385	0.005042107	2.353E-07	2.75E-04	8.72E-04	8.60E-04	1.84E-02	1.86E-02	4.33E-02
4798	487863.09	3861377.25	0.0034	0.00293	0.00208	0.00635	0.002	0.006	0.0028	0.00293	0.03547482	0.005411492	2.165E-07	3.34E-04	7.22E-04	9.13E-04	1.97E-02	1.99E-02	4.26E-02
4799	488363.09	3861377.25	0.00362	0.00316	0.00232	0.00862	0.001	0.007	0.003	0.00316	0.03777024	0.005836285	2.415E-07	4.54E-04	5.39E-04	9.65E-04	2.13E-02	2.15E-02	4.53E-02
4800	488863.09	3861377.25	0.00398	0.00343	0.00268	0.01784	0.001	0.007	0.0033	0.00343	0.0415264	0.006334955	2.79E-07	9.40E-04	5.86E-04	9.83E-04	2.32E-02	2.33E-02	5.03E-02
4801	489363.09	3861377.25	0.00433	0.00371	0.00224	0.09236	0.001	0.007	0.0036	0.00371	0.04517822	0.006852094	2.332E-07	4.86E-03	6.19E-04	9.86E-04	2.56E-02	2.52E-02	5.89E-02
4802	489863.09	3861377.25	0.00449	0.0041	0.00222	0.02596	0.003	0.007	0.0041	0.0041	0.04684762	0.007572395	2.311E-07	1.37E-03	1.20E-03	9.96E-04	2.87E-02	2.79E-02	5.88E-02
4803	490363.09	3861377.25	0.00439	0.00468	0.00198	0.01681	0.003	0.007	0.0046	0.00468	0.04580425	0.008643612	2.061E-07	8.85E-04	1.60E-03	1.01E-03	3.28E-02	3.18E-02	5.89E-02
4804	490863.09	3861377.25	0.00431	0.00554	0.00243	0.01319	0.003	0.007	0.0054	0.00554	0.04496955	0.010231968	2.53E-07	6.95E-04	1.47E-03	1.01E-03	3.85E-02	3.77E-02	5.92E-02
4805	491363.09	3861377.25	0.00427	0.00688	0.00225	0.01101	0.002	0.007	0.0068	0.00688	0.04455219	0.012706849	2.342E-07	5.80E-04	1.13E-03	1.02E-03	4.82E-02	4.68E-02	6.14E-02
4806	491863.09	3861377.25	0.00427	0.00948	0.00222	0.0098	0.002	0.007	0.0095	0.00948	0.04455219	0.017508855	2.311E-07	5.16E-04	9.94E-04	1.04E-03	6.70E-02	6.45E-02	6.71E-02
4807	492363.09	3861377.25	0.00424	0.01668	0.00215	0.00894	0.002	0.007	0.0166	0.01668	0.04423918	0.03080672	2.238E-07	4.71E-04	1.07E-03	1.05E-03	1.18E-01	1.13E-01	8.18E-02
4808	492863.09	3861377.25	0.00413	0.05798	0.00225	0.0081	0.002	0.007	0.0575	0.05798	0.04309147	0.10708475	2.342E-07	4.27E-04	1.06E-03	1.02E-03	4.08E-01	3.94E-01	1.66E-01
4809	493363.09	3861377.25	0.00404	0.26003	0.0023	0.00765	0.002	0.007	0.2458	0.26003	0.04215243	0.480256083	2.394E-07	4.03E-04	1.07E-03	1.02E-03	1.74E+00	1.77E+00	4.98E-01
4810	493863.09	3861377.25	0.00391	0.07752	0.00233	0.00706	0.002	0.007	0.0764	0.07752	0.04079604	0.143173678	2.426E-07	3.72E-04	1.16E-03	9.89E-04	5.41E-01	5.27E-01	2.01E-01

4811	494363.09	3861377.25	0.00383	0.04481	0.00241	0.00664	0.003	0.007	0.0446	0.04481	0.03996134	0.082760739	2.509E-07	3.50E-04	1.24E-03	9.69E-04	3.16E-01	3.05E-01	1.37E-01
4812	494863.09	3861377.25	0.00377	0.03147	0.00247	0.00646	0.003	0.007	0.0314	0.03147	0.03933531	0.058122751	2.571E-07	3.40E-04	1.21E-03	9.62E-04	2.23E-01	2.14E-01	1.09E-01
4813	495363.09	3861377.25	0.0037	0.0246	0.00247	0.0062	0.002	0.007	0.0246	0.0246	0.03860495	0.045434372	2.571E-07	3.27E-04	1.11E-03	9.50E-04	1.74E-01	1.67E-01	9.34E-02
4814	495863.09	3861377.25	0.00362	0.02051	0.00243	0.00588	0.002	0.007	0.0205	0.02051	0.03777024	0.037880446	2.53E-07	3.10E-04	1.01E-03	9.23E-04	1.45E-01	1.39E-01	8.37E-02
4815	496363.09	3861377.25	0.00361	0.017	0.00247	0.00568	0.002	0.006	0.017	0.017	0.03766591	0.031397736	2.571E-07	2.99E-04	9.99E-04	9.12E-04	1.20E-01	1.16E-01	7.60E-02
4816	496863.09	3861377.25	0.00367	0.01331	0.00255	0.00555	0.002	0.006	0.0133	0.01331	0.03829193	0.024582581	2.655E-07	2.92E-04	1.07E-03	9.09E-04	9.41E-02	9.05E-02	6.87E-02
4817	497363.09	3861377.25	0.00364	0.01167	0.00254	0.00535	0.002	0.006	0.0116	0.01167	0.03797892	0.021553623	2.644E-07	2.82E-04	1.16E-03	8.83E-04	8.23E-02	7.94E-02	6.48E-02
4818	497863.09	3861377.25	0.0036	0.01038	0.00252	0.00515	0.003	0.006	0.0103	0.01038	0.03756157	0.019171088	2.623E-07	2.71E-04	1.24E-03	8.54E-04	7.31E-02	7.06E-02	6.16E-02
4819	498363.09	3861377.25	0.00356	0.00929	0.00248	0.00498	0.003	0.006	0.0092	0.00929	0.03714422	0.017157939	2.582E-07	2.62E-04	1.29E-03	8.24E-04	6.54E-02	6.32E-02	5.89E-02
4820	471363.09	3861877.25	0.00124	0.00092	0.00067	0.00101	0.001	0.001	0.0009	0.00092	0.01293787	0.001699172	6.975E-08	5.32E-05	6.14E-04	1.62E-04	6.45E-03	6.26E-03	1.57E-02
4821	471863.09	3861877.25	0.00128	0.00094	0.00068	0.00104	0.001	0.001	0.0009	0.00094	0.01335522	0.00173611	7.079E-08	5.48E-05	6.10E-04	1.67E-04	6.52E-03	6.39E-03	1.60E-02
4822	472363.09	3861877.25	0.00132	0.00096	0.00069	0.00108	0.001	0.001	0.0009	0.00096	0.01377258	0.001773049	7.183E-08	5.69E-05	6.05E-04	1.73E-04	6.66E-03	6.53E-03	1.65E-02
4823	472863.09	3861877.25	0.00136	0.00098	0.0007	0.00112	0.001	0.001	0.001	0.00098	0.01418993	0.001809987	7.287E-08	5.90E-05	6.00E-04	1.80E-04	6.80E-03	6.66E-03	1.70E-02
4824	473363.09	3861877.25	0.0014	0.001	0.00071	0.00115	0.001	0.001	0.001	0.001	0.01460728	0.001846926	7.392E-08	6.06E-05	5.96E-04	1.86E-04	6.94E-03	6.80E-03	1.74E-02
4825	473863.09	3861877.25	0.00145	0.00101	0.00073	0.00119	0.001	0.001	0.001	0.00101	0.01512897	0.001865395	7.6E-08	6.27E-05	6.05E-04	1.93E-04	7.01E-03	6.87E-03	1.80E-02
4826	474363.09	3861877.25	0.0015	0.00103	0.00078	0.00123	0.001	0.001	0.001	0.00103	0.01565065	0.001902333	8.12E-08	6.48E-05	6.28E-04	1.98E-04	7.16E-03	7.00E-03	1.86E-02
4827	474863.09	3861877.25	0.00154	0.00105	0.00083	0.00127	0.001	0.001	0.001	0.00105	0.016068	0.001939272	8.641E-08	6.69E-05	6.61E-04	2.04E-04	7.30E-03	7.14E-03	1.91E-02
4828	475363.09	3861877.25	0.00159	0.00107	0.00088	0.00131	0.002	0.001	0.0011	0.00107	0.01658969	0.00197621	9.161E-08	6.90E-05	7.13E-04	2.10E-04	7.44E-03	7.28E-03	1.97E-02
4829	475863.09	3861877.25	0.00163	0.0011	0.00091	0.00135	0.002	0.002	0.0011	0.0011	0.01700704	0.002031618	9.474E-08	7.11E-05	7.69E-04	2.15E-04	7.58E-03	7.48E-03	2.02E-02
4830	476363.09	3861877.25	0.00168	0.00112	0.00093	0.00139	0.002	0.002	0.0011	0.00112	0.01752873	0.002068557	9.682E-08	7.32E-05	8.25E-04	2.22E-04	7.72E-03	7.62E-03	2.08E-02
4831	476863.09	3861877.25	0.00174	0.00113	0.00093	0.00143	0.002	0.002	0.0011	0.00113	0.01815476	0.002087026	9.682E-08	7.53E-05	8.82E-04	2.25E-04	7.79E-03	7.68E-03	2.15E-02
4832	477363.09	3861877.25	0.0018	0.00112	0.00094	0.00145	0.002	0.002	0.0011	0.00112	0.01878078	0.002068557	9.786E-08	7.64E-05	9.00E-04	2.26E-04	7.79E-03	7.62E-03	2.22E-02
4833	477863.09	3861877.25	0.00184	0.001	0.00077	0.00133	0.002	0.001	0.001	0.001	0.01919814	0.001846926	8.016E-08	7.01E-05	8.07E-04	2.03E-04	7.23E-03	6.80E-03	2.26E-02
4834	478363.09	3861877.25	0.00152	0.00079	0.00057	0.00105	0.001	0.001	0.0008	0.00079	0.01585933	0.001459071	5.934E-08	5.53E-05	5.86E-04	1.60E-04	5.74E-03	5.37E-03	1.85E-02
4835	478863.09	3861877.25	0.00187	0.00093	0.00075	0.00128	0.002	0.001	0.001	0.00093	0.01951115	0.001717641	7.808E-08	6.74E-05	7.08E-04	1.96E-04	6.80E-03	6.32E-03	2.27E-02
4836	479363.09	3861877.25	0.00185	0.0009	0.0007	0.00127	0.002	0.001	0.0009	0.0009	0.01930247	0.001662233	7.287E-08	6.69E-05	7.32E-04	1.93E-04	6.66E-03	6.12E-03	2.25E-02
4837	479863.09	3861877.25	0.00204	0.00127	0.00105	0.00173	0.002	0.002	0.0013	0.00127	0.02128489	0.002345596	1.093E-07	9.11E-05	1.01E-03	2.80E-04	8.86E-03	8.64E-03	2.52E-02
4838	480363.09	3861877.25	0.00201	0.00139	0.00112	0.00188	0.002	0.002	0.0013	0.00139	0.02097188	0.002567227	1.166E-07	9.90E-05	1.09E-03	3.17E-04	9.49E-03	9.45E-03	2.51E-02
4839	480863.09	3861877.25	0.00203	0.00144	0.00129	0.00199	0.002	0.002	0.0014	0.00144	0.02118055	0.002659573	1.343E-07	1.05E-04	1.13E-03	3.35E-04	9.78E-03	9.79E-03	2.54E-02
4840	481363.09	3861877.25	0.00205	0.0015	0.00132	0.0021	0.003	0.003	0.0014	0.0015	0.02138923	0.002770389	1.374E-07	1.11E-04	1.17E-03	3.53E-04	1.01E-02	1.02E-02	2.57E-02
4841	481863.09	3861877.25	0.00209	0.00156	0.00132	0.0022	0.003	0.003	0.0015	0.00156	0.02180658	0.002881204	1.374E-07	1.16E-04	1.19E-03	3.77E-04	1.05E-02	1.06E-02	2.62E-02
4842	482363.09	3861877.25	0.00214	0.00161	0.00148	0.00231	0.002	0.003	0.0015	0.00161	0.02232827	0.00297355	1.541E-07	1.22E-04	1.16E-03	3.95E-04	1.08E-02	1.09E-02	2.69E-02
4843	482863.09	3861877.25	0.00219	0.00165	0.00163	0.00242	0.002	0.003	0.0016	0.00165	0.02284995	0.003047427	1.697E-07	1.27E-04	1.08E-03	4.09E-04	1.11E-02	1.12E-02	2.74E-02
4844	483363.09	3861877.25	0.00221	0.00171	0.00159	0.00254	0.002	0.003	0.0016	0.00171	0.02305863	0.003158243	1.655E-07	1.34E-04	9.61E-04	4.28E-04	1.15E-02	1.16E-02	2.77E-02
4845	483863.09	3861877.25	0.00221	0.00176	0.00167	0.0027	0.002	0.003	0.0017	0.00176	0.02305863	0.003250589	1.739E-07	1.42E-04	9.00E-04	4.47E-04	1.20E-02	1.20E-02	2.78E-02
4846	484363.09	3861877.25	0.0022	0.00183	0.00163	0.00287	0.002	0.003	0.0018	0.00183	0.02295429	0.003379874	1.697E-07	1.51E-04	9.80E-04	4.70E-04	1.24E-02	1.24E-02	2.79E-02
4847	484863.09	3861877.25	0.00224	0.00191	0.00176	0.00304	0.002	0.004	0.0018	0.00191	0.02337164	0.003527628	1.832E-07	1.60E-04	1.13E-03	4.97E-04	1.30E-02	1.30E-02	2.87E-02
4848	485363.09	3861877.25	0.00223	0.00197	0.00167	0.00323	0.002	0.004	0.0019	0.00197	0.02326731	0.003638444	1.739E-07	1.70E-04	1.06E-03	5.22E-04	1.34E-02	1.34E-02	2.87E-02
4849	485863.09	3861877.25	0.0022	0.00203	0.00152	0.00341	0.002	0.004	0.002	0.00203	0.02295429	0.003749259	1.582E-07	1.80E-04	8.02E-04	5.39E-04	1.39E-02	1.38E-02	2.83E-02
4850	486363.09	3861877.25	0.00227	0.00213	0.00155	0.00369	0.001	0.004	0.0021	0.00213	0.02368466	0.003933952	1.614E-07	1.94E-04	6.33E-04	5.66E-04	1.46E-02	1.45E-02	2.91E-02
4851	486863.09	3861877.25	0.00235	0.00226	0.00192	0.00408	0.001	0.004	0.0022	0.00226	0.02451936	0.004174052	1.999E-07	2.15E-04	6.42E-04	5.82E-04	1.54E-02	1.54E-02	3.02E-02
4852	487363.09	3861877.25	0.00232	0.00241	0.00187	0.00473	0.002	0.004	0.0023	0.00241	0.02420634	0.004451091	1.947E-07	2.49E-04	7.92E-04	6.06E-04	1.64E-02	1.64E-02	3.03E-02
4853	487863.09	3861877.25	0.00225	0.00255	0.00175	0.00575	0.001	0.004	0.0024	0.00255	0.02347598	0.00470966	1.822E-07	3.03E-04	6.14E-04	5.89E-04	1.73E-02	1.73E-02	2.96E-02
4854	488363.09	3861877.25	0.00229	0.00272	0.00203	0.00798	1E-03	0.004	0.0026	0.00272	0.02389333	0.005023638	2.113E-07	4.20E-04	4.50E-04	6.22E-04	1.84E-02	1.85E-02	3.03E-02
4855	488863.09	3861877.25	0.00262	0.00293	0.00184	0.01714	0.001	0.005	0.0028	0.00293	0.02733648	0.005411492	1.916E-07	9.03E-04	4.88E-04	6.70E-04	1.98E-02	1.99E-02	3.47E-02
4856	489363.09	3861877.25	0.00286	0.00314	0.00183	0.08904	1E-03	0.005	0.003	0.00314	0.02984058	0.005799347	1.905E-07	4.69E-03	4.60E-04	6.77E-04	2.15E-02	2.14E-02	4.16E-02
4857	489863.09	3861877.25	0.00299	0.00339	0.00171	0.0248	0.002	0.005	0.0033	0.00339	0.03119697	0.006261078	1.78E-07	1.31E-03	7.17E-04	6.85E-04	2.36E-02	2.31E-02	4.07E-02
4858	490363.09	3861877.25	0.0029	0.00372	0.00151	0.0156	0.003	0.005	0.0037	0.00372	0.03025793	0.006870564	1.572E-07	8.22E-04	1.22E-03	6.79E-04	2.63E-02	2.53E-02	4.08E-02
4859	490863.09	3861877.25	0.00279	0.00421	0.00173	0.01191	0.003	0.005	0.0042	0.00421	0.02911022	0.007775557	1.801E-07	6.27E-04	1.33E-03	6.91E-04	2.96E-02	2.86E-02	4.05E-02
4860	491363.09	3861877.25	0.00278	0.00489	0.00182	0.00996	0.003	0.005	0.0048	0.00489	0.02900588	0.009031467	1.895E-07	5.25E-04	1.17E-03	7.02E-04	3.40E-02	3.33E-02	4.12E-02
4861	491863.09	3861877.25	0.00283	0.00581	0.00175	0.00865	0.002	0.005	0.0058	0.00581	0.02952757	0.010730638	1.822E-07	4.56E-04	9.10E-04	7.06E-04	4.08E-02	3.95E-02	4.36E-02
4862	492363.09	3861877.25	0.0029	0.00719	0.00169	0.00778	0.002	0.005	0.0072	0.00719	0.03025793	0.013279396	1.759E-07	4.10E-04	8.11E-04	6.98E-04	5.09E-02	4.89E-02	4.75E-02
4863	492863.09	3861877.25	0.0029	0.00931	0.00163	0.00711	0.002	0.005	0.0093	0.00931	0.03025793	0.017194878	1.697E-07	3.75E-04	8.86E-04	6.96E-04	6.59E-02	6.33E-02	5.20E-02
4864	493363.09	3861877.25	0.00291	0.01257	0.00167	0.00641	0.002	0.005	0.0126	0.01257	0.03036227	0.023215856	1.739E-07	3.38E-04	8.82E-04	6.96E-04	8.92E-02	8.55E-02	5.92E-02
4865	493863.09	3861877.25	0.00291	0.01854	0.00177	0.00603	0.002	0.005	0.0187	0.01854	0.03036227	0.034242002	1.843E-07	3.18E-04	8.63E-04	6.74E-04	1.33E-01	1.26E-01	7.30E-02
4866	494363.09	3861877.25	0.00288	0.03327	0.00177	0.0057	0.002	0.005	0.0339	0.03327	0.03004926	0.061447217	1.843E-07	3.00E-04	9.24E-04	6.67E-04	2.40E-01	2.26E-01	1.08E-01
4867	494863.09	3861877.25	0.00283	0.13589	0.00177	0.00528	0.002	0.005	0.1423	0.13589	0.02952757	0.25097873	1.843E-07	2.78E-04	1.01E-03	6.49E-04	1.01E+00	9.24E-01	3.67E-01
4868	495363.09	3861877.25	0.00281	0.15933	0.00182	0.00494	0.002	0.005	0.1583	0.15933	0.02931889	0.294270667	1.895E-07	2.60E-04	1.04E-03	6.36E-04	1.12E+00	1.08E+00	3.64E-01

4869	495863.09	3861877.25	0.00279	0.06551	0.00185	0.00477	0.002	0.005	0.0657	0.06551	0.02911022	0.120992101	1.926E-07	2.51E-04	9.99E-04	6.34E-04	4.66E-01	4.45E-01	1.72E-01
4870	496363.09	3861877.25	0.00278	0.04116	0.00187	0.00462	0.002	0.005	0.0414	0.04116	0.02900588	0.076019461	1.947E-07	2.43E-04	9.10E-04	6.36E-04	2.93E-01	2.80E-01	1.20E-01
4871	496863.09	3861877.25	0.00298	0.02134	0.00202	0.00462	0.002	0.005	0.0214	0.02134	0.03109263	0.039413394	2.103E-07	2.43E-04	8.91E-04	6.63E-04	1.52E-01	1.45E-01	7.90E-02
4872	497363.09	3861877.25	0.00282	0.02241	0.00193	0.00434	0.002	0.005	0.0225	0.02241	0.02942323	0.041389604	2.009E-07	2.29E-04	8.25E-04	6.34E-04	1.59E-01	1.52E-01	7.95E-02
4873	497863.09	3861877.25	0.00278	0.01999	0.00189	0.00415	0.002	0.004	0.02	0.01999	0.02900588	0.036920044	1.968E-07	2.19E-04	8.44E-04	6.20E-04	1.42E-01	1.36E-01	7.37E-02
4874	498363.09	3861877.25	0.00276	0.0174	0.00189	0.00401	0.002	0.004	0.0174	0.0174	0.0287972	0.032136507	1.968E-07	2.11E-04	9.05E-04	6.11E-04	1.23E-01	1.18E-01	6.78E-02
4875	471363.09	3862377.25	0.0012	0.0009	0.00064	0.00099	0.001	0.001	0.0009	0.0009	0.01252052	0.001662233	6.663E-08	5.21E-05	5.21E-04	1.60E-04	6.24E-03	6.12E-03	1.50E-02
4876	471863.09	3862377.25	0.00123	0.00091	0.00065	0.00102	0.001	0.001	0.0009	0.00091	0.01283354	0.001680702	6.767E-08	5.37E-05	5.16E-04	1.65E-04	6.38E-03	6.19E-03	1.54E-02
4877	472363.09	3862377.25	0.00126	0.00093	0.00066	0.00105	0.001	0.001	0.0009	0.00093	0.01314655	0.001717641	6.871E-08	5.53E-05	5.21E-04	1.70E-04	6.45E-03	6.32E-03	1.57E-02
4878	472863.09	3862377.25	0.0013	0.00095	0.00067	0.00108	0.001	0.001	0.0009	0.00095	0.0135639	0.001754579	6.975E-08	5.69E-05	5.39E-04	1.74E-04	6.59E-03	6.46E-03	1.62E-02
4879	473363.09	3862377.25	0.00134	0.00097	0.0007	0.00112	0.001	0.001	0.001	0.00097	0.01398125	0.001791518	7.287E-08	5.90E-05	5.67E-04	1.80E-04	6.73E-03	6.60E-03	1.67E-02
4880	473863.09	3862377.25	0.00137	0.00098	0.00075	0.00116	0.001	0.001	0.001	0.00098	0.01429426	0.001809987	7.808E-08	6.11E-05	6.05E-04	1.84E-04	6.80E-03	6.66E-03	1.71E-02
4881	474363.09	3862377.25	0.00142	0.001	0.0008	0.0012	0.001	0.001	0.001	0.001	0.01481595	0.001846926	8.328E-08	6.32E-05	6.56E-04	1.90E-04	6.87E-03	6.80E-03	1.76E-02
4882	474863.09	3862377.25	0.00146	0.00102	0.00083	0.00123	0.002	0.001	0.001	0.00102	0.0152333	0.001883864	8.641E-08	6.48E-05	7.03E-04	1.94E-04	7.01E-03	6.94E-03	1.82E-02
4883	475363.09	3862377.25	0.00149	0.00104	0.00086	0.00127	0.002	0.001	0.001	0.00104	0.01554632	0.001920803	8.953E-08	6.69E-05	7.46E-04	2.01E-04	7.16E-03	7.07E-03	1.86E-02
4884	475863.09	3862377.25	0.00151	0.00107	0.00088	0.0013	0.002	0.001	0.001	0.00107	0.01575499	0.00197621	9.161E-08	6.85E-05	7.69E-04	2.10E-04	7.37E-03	7.28E-03	1.89E-02
4885	476363.09	3862377.25	0.00154	0.00109	0.00091	0.00132	0.002	0.002	0.0011	0.00109	0.016068	0.002013149	9.474E-08	6.95E-05	7.83E-04	2.18E-04	7.51E-03	7.41E-03	1.93E-02
4886	476863.09	3862377.25	0.00158	0.00111	0.00094	0.00135	0.002	0.002	0.0011	0.00111	0.01648536	0.002050087	9.786E-08	7.11E-05	7.92E-04	2.25E-04	7.65E-03	7.55E-03	1.97E-02
4887	477363.09	3862377.25	0.00164	0.00111	0.00093	0.00136	0.002	0.002	0.0011	0.00111	0.01711138	0.002050087	9.682E-08	7.16E-05	7.64E-04	2.28E-04	7.72E-03	7.55E-03	2.04E-02
4888	477863.09	3862377.25	0.00173	0.00103	0.00077	0.00131	0.001	0.001	0.001	0.00103	0.01805042	0.001902333	8.016E-08	6.90E-05	6.94E-04	2.10E-04	7.30E-03	7.00E-03	2.12E-02
4889	478363.09	3862377.25	0.00173	0.00093	0.00072	0.00125	0.001	0.001	0.001	0.00093	0.01805042	0.001717641	7.496E-08	6.58E-05	6.80E-04	1.93E-04	6.73E-03	6.32E-03	2.11E-02
4890	478863.09	3862377.25	0.00177	0.00095	0.00075	0.00133	0.002	0.001	0.001	0.00095	0.01846777	0.001754579	7.808E-08	7.01E-05	7.64E-04	2.03E-04	6.87E-03	6.46E-03	2.17E-02
4891	479363.09	3862377.25	0.00184	0.00102	0.00081	0.00147	0.002	0.002	0.001	0.00102	0.01919814	0.001883864	8.433E-08	7.74E-05	9.00E-04	2.21E-04	7.37E-03	6.94E-03	2.27E-02
4892	479863.09	3862377.25	0.00183	0.00123	0.00097	0.0017	0.002	0.002	0.0012	0.00123	0.0190938	0.002271719	1.01E-07	8.95E-05	1.00E-03	2.74E-04	8.50E-03	8.36E-03	2.29E-02
4893	480363.09	3862377.25	0.00179	0.00133	0.00113	0.00181	0.002	0.002	0.0013	0.00133	0.01867645	0.002456411	1.176E-07	9.53E-05	1.01E-03	3.01E-04	9.00E-03	9.04E-03	2.25E-02
4894	480863.09	3862377.25	0.00179	0.00137	0.00124	0.00188	0.002	0.002	0.0013	0.00137	0.01867645	0.002530288	1.291E-07	9.90E-05	1.02E-03	3.15E-04	9.28E-03	9.32E-03	2.26E-02
4895	481363.09	3862377.25	0.00179	0.00142	0.00126	0.00194	0.002	0.002	0.0014	0.00142	0.01867645	0.002622634	1.312E-07	1.02E-04	1.03E-03	3.29E-04	9.64E-03	9.66E-03	2.27E-02
4896	481863.09	3862377.25	0.00181	0.00148	0.00134	0.00199	0.002	0.002	0.0014	0.00148	0.01888512	0.00273345	1.395E-07	1.05E-04	9.99E-04	3.43E-04	9.99E-03	1.01E-02	2.30E-02
4897	482363.09	3862377.25	0.00185	0.00152	0.00153	0.00209	0.002	0.003	0.0015	0.00152	0.01930247	0.002807327	1.593E-07	1.10E-04	9.24E-04	3.56E-04	1.03E-02	1.03E-02	2.34E-02
4898	482863.09	3862377.25	0.00187	0.00155	0.00149	0.00221	0.002	0.003	0.0015	0.00155	0.01951115	0.002862735	1.551E-07	1.16E-04	8.25E-04	3.67E-04	1.06E-02	1.05E-02	2.37E-02
4899	483363.09	3862377.25	0.00189	0.0016	0.00137	0.00233	0.002	0.003	0.0015	0.0016	0.01971982	0.002955081	1.426E-07	1.23E-04	7.60E-04	3.80E-04	1.08E-02	1.09E-02	2.39E-02
4900	483863.09	3862377.25	0.00186	0.00165	0.00142	0.00246	0.002	0.003	0.0016	0.00165	0.01940681	0.003047427	1.478E-07	1.30E-04	8.02E-04	3.97E-04	1.13E-02	1.12E-02	2.38E-02
4901	484363.09	3862377.25	0.00186	0.00171	0.00148	0.00259	0.002	0.003	0.0017	0.00171	0.01940681	0.003158243	1.541E-07	1.36E-04	9.38E-04	4.11E-04	1.17E-02	1.16E-02	2.41E-02
4902	484863.09	3862377.25	0.00184	0.00177	0.0015	0.00272	0.002	0.003	0.0017	0.00177	0.01919814	0.003269058	1.562E-07	1.43E-04	9.75E-04	4.26E-04	1.21E-02	1.20E-02	2.41E-02
4903	485363.09	3862377.25	0.00179	0.00182	0.00137	0.00288	0.002	0.003	0.0018	0.00182	0.01867645	0.003361405	1.426E-07	1.52E-04	8.02E-04	4.35E-04	1.25E-02	1.24E-02	2.36E-02
4904	485863.09	3862377.25	0.00173	0.00188	0.00139	0.00305	0.001	0.003	0.0018	0.00188	0.01805042	0.00347222	1.447E-07	1.61E-04	6.10E-04	4.43E-04	1.30E-02	1.28E-02	2.29E-02
4905	486363.09	3862377.25	0.00173	0.00196	0.00143	0.00325	0.001	0.003	0.0019	0.00196	0.01805042	0.003619974	1.489E-07	1.71E-04	5.25E-04	4.52E-04	1.35E-02	1.33E-02	2.30E-02
4906	486863.09	3862377.25	0.00172	0.00206	0.00159	0.00361	0.001	0.003	0.002	0.00206	0.01794608	0.003804667	1.655E-07	1.90E-04	5.72E-04	4.57E-04	1.42E-02	1.40E-02	2.31E-02
4907	487363.09	3862377.25	0.0017	0.00218	0.00153	0.00423	0.002	0.003	0.0021	0.00218	0.01773741	0.004026298	1.593E-07	2.23E-04	7.17E-04	4.70E-04	1.50E-02	1.48E-02	2.33E-02
4908	487863.09	3862377.25	0.00169	0.00231	0.00169	0.00521	0.001	0.003	0.0022	0.00231	0.01763307	0.004266398	1.759E-07	2.74E-04	5.30E-04	4.56E-04	1.57E-02	1.57E-02	2.32E-02
4909	488363.09	3862377.25	0.00169	0.00244	0.0016	0.00736	8E-04	0.003	0.0023	0.00244	0.01763307	0.004506499	1.666E-07	3.88E-04	3.85E-04	4.74E-04	1.66E-02	1.66E-02	2.34E-02
4910	488863.09	3862377.25	0.0019	0.0026	0.00141	0.01638	9E-04	0.004	0.0025	0.0026	0.01982416	0.004802007	1.468E-07	8.63E-04	4.13E-04	5.09E-04	1.76E-02	1.77E-02	2.64E-02
4911	489363.09	3862377.25	0.00217	0.00277	0.00157	0.08829	9E-04	0.004	0.0027	0.00277	0.02264128	0.005115984	1.634E-07	4.65E-03	4.08E-04	5.35E-04	1.89E-02	1.88E-02	3.34E-02
4912	489863.09	3862377.25	0.00231	0.00295	0.00146	0.02414	1E-03	0.004	0.0029	0.00295	0.02410201	0.005448431	1.52E-07	1.27E-03	4.45E-04	5.40E-04	2.04E-02	2.01E-02	3.22E-02
4913	490363.09	3862377.25	0.0023	0.00315	0.00124	0.01493	0.002	0.004	0.0031	0.00315	0.02399767	0.005817816	1.291E-07	7.86E-04	8.63E-04	5.39E-04	2.22E-02	2.14E-02	3.28E-02
4914	490863.09	3862377.25	0.00216	0.00342	0.0013	0.01122	0.002	0.004	0.0034	0.00342	0.02253694	0.006316486	1.353E-07	5.91E-04	1.16E-03	5.37E-04	2.42E-02	2.33E-02	3.21E-02
4915	491363.09	3862377.25	0.00208	0.00378	0.00153	0.00919	0.002	0.004	0.0038	0.00378	0.02170224	0.006981379	1.593E-07	4.84E-04	1.13E-03	5.33E-04	2.66E-02	2.57E-02	3.18E-02
4916	491863.09	3862377.25	0.00208	0.0042	0.00148	0.00778	0.002	0.004	0.0041	0.0042	0.02170224	0.007757088	1.541E-07	4.10E-04	9.61E-04	5.21E-04	2.93E-02	2.86E-02	3.21E-02
4917	492363.09	3862377.25	0.00213	0.00471	0.00144	0.00682	0.002	0.004	0.0047	0.00471	0.02222393	0.00869902	1.499E-07	3.59E-04	7.46E-04	5.08E-04	3.30E-02	3.20E-02	3.35E-02
4918	492863.09	3862377.25	0.00218	0.00539	0.0014	0.00622	0.001	0.004	0.0054	0.00539	0.02274562	0.009954929	1.457E-07	3.28E-04	6.89E-04	5.22E-04	3.83E-02	3.67E-02	3.58E-02
4919	493363.09	3862377.25	0.00218	0.00627	0.00135	0.00567	0.002	0.004	0.0063	0.00627	0.02274562	0.011580224	1.405E-07	2.99E-04	7.60E-04	5.19E-04	4.44E-02	4.26E-02	3.77E-02
4920	493863.09	3862377.25	0.0022	0.00735	0.00132	0.00509	0.002	0.004	0.0073	0.00735	0.02295429	0.013574904	1.374E-07	2.68E-04	7.64E-04	5.11E-04	5.19E-02	5.00E-02	4.00E-02
4921	494363.09	3862377.25	0.00223	0.00892	0.00141	0.00476	0.002	0.004	0.0089	0.00892	0.02326731	0.016474577	1.468E-07	2.51E-04	7.32E-04	5.04E-04	6.31E-02	6.07E-02	4.36E-02
4922	494863.09	3862377.25	0.00225	0.01116	0.00147	0.00455	0.002	0.004	0.0112	0.01116	0.02347598	0.020611691	1.53E-07	2.40E-04	7.60E-04	4.94E-04	7.94E-02	7.59E-02	4.91E-02
4923	495363.09	3862377.25	0.00221	0.0145	0.00144	0.00427	0.002	0.003	0.0146	0.0145	0.02305863	0.026780422	1.499E-07	2.25E-04	8.25E-04	4.83E-04	1.03E-01	9.86E-02	5.62E-02
4924	495863.09	3862377.25	0.00218	0.02165	0.00143	0.00394	0.002	0.003	0.0218	0.02165	0.02274562	0.039985941	1.489E-07	2.08E-04	8.82E-04	4.75E-04	1.55E-01	1.47E-01	7.18E-02
4925	496363.09	3862377.25	0.00216	0.04291	0.00144	0.0037	0.002	0.003	0.0432	0.04291	0.02253694	0.079251581	1.499E-07	1.95E-04	8.86E-04	4.68E-04	3.06E-01	2.92E-01	1.18E-01
4926	496863.09	3862377.25	0.00218	0.37585	0.00149	0.00362	0.002	0.003	0.3664	0.37585	0.02274562	0.694167014	1.551E-07	1.91E-04	8.44E-04	4.71E-04	2.60E+00	2.56E+00	7.58E-01

4927	497363.09	3862377.25	0.00217	0.22287	0.00149	0.0035	0.002	0.003	0.2248	0.22287	0.02264128	0.411624325	1.551E-07	1.84E-04	7.60E-04	4.68E-04	1.59E+00	1.52E+00	5.13E-01
4928	497863.09	3862377.25	0.00217	0.58596	0.00149	0.00339	0.001	0.003	0.6297	0.58596	0.02264128	1.082224567	1.551E-07	1.79E-04	6.94E-04	4.66E-04	4.46E+00	3.98E+00	1.58E+00
4929	498363.09	3862377.25	0.00217	0.07701	0.00148	0.00325	0.001	0.003	0.0764	0.07701	0.02264128	0.142231746	1.541E-07	1.71E-04	6.66E-04	4.61E-04	5.41E-01	5.24E-01	1.84E-01
4930	471363.09	3862877.25	0.00115	0.00087	0.0006	0.00097	0.001	0.001	0.0009	0.00087	0.01199883	0.001606825	6.246E-08	5.11E-05	4.69E-04	1.55E-04	6.09E-03	5.92E-03	1.45E-02
4931	471863.09	3862877.25	0.00118	0.00089	0.00061	0.001	0.001	0.001	0.0009	0.00089	0.01231185	0.001643764	6.35E-08	5.27E-05	4.92E-04	1.59E-04	6.16E-03	6.05E-03	1.48E-02
4932	472363.09	3862877.25	0.00121	0.00091	0.00063	0.00104	0.001	0.001	0.0009	0.00091	0.01262486	0.001680702	6.559E-08	5.48E-05	5.25E-04	1.63E-04	6.31E-03	6.19E-03	1.52E-02
4933	472863.09	3862877.25	0.00124	0.00093	0.00066	0.00107	0.001	0.001	0.0009	0.00093	0.01293787	0.001717641	6.871E-08	5.64E-05	5.63E-04	1.69E-04	6.38E-03	6.32E-03	1.55E-02
4934	473363.09	3862877.25	0.00127	0.00094	0.00071	0.0011	0.001	0.001	0.0009	0.00094	0.01325089	0.00173611	7.392E-08	5.79E-05	6.05E-04	1.73E-04	6.52E-03	6.39E-03	1.59E-02
4935	473863.09	3862877.25	0.0013	0.00096	0.00076	0.00113	0.001	0.001	0.0009	0.00096	0.0135639	0.001773049	7.912E-08	5.95E-05	6.42E-04	1.79E-04	6.59E-03	6.53E-03	1.63E-02
4936	474363.09	3862877.25	0.00133	0.00097	0.00079	0.00115	0.001	0.001	0.001	0.00097	0.01387691	0.001791518	8.224E-08	6.06E-05	6.75E-04	1.86E-04	6.73E-03	6.60E-03	1.67E-02
4937	474863.09	3862877.25	0.00136	0.00099	0.0008	0.00117	0.001	0.001	0.001	0.00099	0.01418993	0.001828456	8.328E-08	6.16E-05	6.94E-04	1.91E-04	6.87E-03	6.73E-03	1.71E-02
4938	475363.09	3862877.25	0.00138	0.00102	0.00082	0.00119	0.001	0.001	0.001	0.00102	0.0143986	0.001883864	8.537E-08	6.27E-05	6.94E-04	2.00E-04	7.01E-03	6.94E-03	1.73E-02
4939	475863.09	3862877.25	0.0014	0.00104	0.00085	0.00121	0.001	0.001	0.001	0.00104	0.01460728	0.001920803	8.849E-08	6.37E-05	6.89E-04	2.07E-04	7.16E-03	7.07E-03	1.76E-02
4940	476363.09	3862877.25	0.00142	0.00106	0.00088	0.00124	0.001	0.002	0.001	0.00106	0.01481595	0.001957741	9.161E-08	6.53E-05	6.85E-04	2.12E-04	7.30E-03	7.21E-03	1.78E-02
4941	476863.09	3862877.25	0.00146	0.00107	0.00088	0.00128	0.001	0.002	0.0011	0.00107	0.0152333	0.00197621	9.161E-08	6.74E-05	6.94E-04	2.19E-04	7.44E-03	7.28E-03	1.84E-02
4942	477363.09	3862877.25	0.0015	0.00109	0.00086	0.00133	0.002	0.002	0.0011	0.00109	0.01565065	0.002013149	8.953E-08	7.01E-05	7.22E-04	2.25E-04	7.51E-03	7.41E-03	1.88E-02
4943	477863.09	3862877.25	0.00157	0.00106	0.00086	0.00137	0.002	0.002	0.0011	0.00106	0.01638102	0.001957741	8.953E-08	7.22E-05	7.27E-04	2.22E-04	7.44E-03	7.21E-03	1.96E-02
4944	478363.09	3862877.25	0.00161	0.00097	0.00077	0.00133	0.002	0.001	0.001	0.00097	0.01679837	0.001791518	8.016E-08	7.01E-05	7.78E-04	2.05E-04	6.94E-03	6.60E-03	2.00E-02
4945	478863.09	3862877.25	0.00164	0.00098	0.00077	0.00139	0.002	0.002	0.001	0.00098	0.01711138	0.001809987	8.016E-08	7.32E-05	8.58E-04	2.12E-04	7.01E-03	6.66E-03	2.04E-02
4946	479363.09	3862877.25	0.00167	0.00101	0.00082	0.00146	0.002	0.002	0.001	0.00101	0.01742439	0.001865395	8.537E-08	7.69E-05	8.86E-04	2.21E-04	7.23E-03	6.87E-03	2.08E-02
4947	479863.09	3862877.25	0.0016	0.00122	0.00103	0.00164	0.002	0.002	0.0012	0.00122	0.01669403	0.002253249	1.072E-07	8.64E-05	9.10E-04	2.70E-04	8.36E-03	8.30E-03	2.03E-02
4948	480363.09	3862877.25	0.00158	0.00127	0.00116	0.00168	0.002	0.002	0.0012	0.00127	0.01648536	0.002345596	1.208E-07	8.85E-05	9.05E-04	2.83E-04	8.64E-03	8.64E-03	2.01E-02
4949	480863.09	3862877.25	0.00158	0.0013	0.00122	0.00173	0.002	0.002	0.0013	0.0013	0.01648536	0.002401003	1.27E-07	9.11E-05	9.05E-04	2.90E-04	8.86E-03	8.84E-03	2.02E-02
4950	481363.09	3862877.25	0.00157	0.00135	0.00125	0.00177	0.002	0.002	0.0013	0.00135	0.01638102	0.00249335	1.301E-07	9.32E-05	8.72E-04	3.00E-04	9.21E-03	9.18E-03	2.02E-02
4951	481863.09	3862877.25	0.00162	0.00139	0.00128	0.00185	0.002	0.002	0.0013	0.00139	0.01690271	0.002567227	1.333E-07	9.74E-05	8.16E-04	3.11E-04	9.49E-03	9.45E-03	2.07E-02
4952	482363.09	3862877.25	0.00161	0.00143	0.00135	0.00195	0.002	0.002	0.0014	0.00143	0.01679837	0.002641104	1.405E-07	1.03E-04	7.13E-04	3.22E-04	9.71E-03	9.72E-03	2.06E-02
4953	482863.09	3862877.25	0.00163	0.00147	0.00123	0.00207	0.001	0.002	0.0014	0.00147	0.01700704	0.002714981	1.281E-07	1.09E-04	6.52E-04	3.29E-04	9.99E-03	1.00E-02	2.08E-02
4954	483363.09	3862877.25	0.00163	0.00151	0.00117	0.00216	0.001	0.002	0.0015	0.00151	0.01700704	0.002788858	1.218E-07	1.14E-04	6.71E-04	3.39E-04	1.03E-02	1.03E-02	2.09E-02
4955	483863.09	3862877.25	0.0016	0.00155	0.00131	0.00224	0.002	0.002	0.0015	0.00155	0.01669403	0.002862735	1.364E-07	1.18E-04	7.74E-04	3.47E-04	1.06E-02	1.05E-02	2.09E-02
4956	484363.09	3862877.25	0.00157	0.0016	0.00136	0.00233	0.002	0.003	0.0016	0.0016	0.01638102	0.002955081	1.416E-07	1.23E-04	8.72E-04	3.57E-04	1.10E-02	1.09E-02	2.08E-02
4957	484863.09	3862877.25	0.00152	0.00166	0.0013	0.00242	0.002	0.003	0.0016	0.00166	0.01585933	0.003065897	1.353E-07	1.27E-04	7.92E-04	3.66E-04	1.14E-02	1.13E-02	2.03E-02
4958	485363.09	3862877.25	0.00146	0.00171	0.00126	0.00252	0.001	0.003	0.0017	0.00171	0.0152333	0.003158243	1.312E-07	1.33E-04	6.05E-04	3.67E-04	1.18E-02	1.16E-02	1.97E-02
4959	485863.09	3862877.25	0.0014	0.00176	0.00127	0.00264	0.001	0.003	0.0017	0.00176	0.01460728	0.003250589	1.322E-07	1.39E-04	4.92E-04	3.71E-04	1.22E-02	1.20E-02	1.91E-02
4960	486363.09	3862877.25	0.00136	0.00182	0.00121	0.00285	1E-03	0.003	0.0018	0.00182	0.01418993	0.003361405	1.26E-07	1.50E-04	4.50E-04	3.81E-04	1.26E-02	1.24E-02	1.88E-02
4961	486863.09	3862877.25	0.00132	0.0019	0.00132	0.0032	0.001	0.003	0.0019	0.0019	0.01377258	0.003509159	1.374E-07	1.69E-04	5.30E-04	3.84E-04	1.32E-02	1.29E-02	1.86E-02
4962	487363.09	3862877.25	0.00132	0.002	0.00142	0.00368	0.001	0.003	0.0019	0.002	0.01377258	0.003693851	1.478E-07	1.94E-04	6.52E-04	3.84E-04	1.37E-02	1.36E-02	1.88E-02
4963	487863.09	3862877.25	0.00133	0.0021	0.00147	0.00455	1E-03	0.003	0.002	0.0021	0.01387691	0.003878544	1.53E-07	2.40E-04	4.64E-04	3.78E-04	1.44E-02	1.43E-02	1.89E-02
4964	488363.09	3862877.25	0.00135	0.00221	0.0013	0.00654	7E-04	0.003	0.0021	0.00221	0.01408559	0.004081706	1.353E-07	3.44E-04	3.38E-04	3.85E-04	1.51E-02	1.50E-02	1.93E-02
4965	488863.09	3862877.25	0.00146	0.00232	0.00114	0.01535	7E-04	0.003	0.0022	0.00232	0.0152333	0.004284868	1.187E-07	8.09E-04	3.42E-04	4.02E-04	1.59E-02	1.58E-02	2.12E-02
4966	489363.09	3862877.25	0.00169	0.00246	0.00131	0.08708	8E-04	0.003	0.0024	0.00246	0.01763307	0.004543437	1.364E-07	4.59E-03	3.80E-04	4.36E-04	1.68E-02	1.67E-02	2.76E-02
4967	489863.09	3862877.25	0.00188	0.0026	0.00129	0.023	7E-04	0.003	0.0025	0.0026	0.01961549	0.004802007	1.343E-07	1.21E-03	3.24E-04	4.50E-04	1.79E-02	1.77E-02	2.66E-02
4968	490363.09	3862877.25	0.00193	0.00274	0.00107	0.01364	0.001	0.003	0.0027	0.00274	0.02013717	0.005060576	1.114E-07	7.18E-04	5.53E-04	4.42E-04	1.91E-02	1.86E-02	2.74E-02
4969	490863.09	3862877.25	0.00183	0.0029	0.00107	0.00988	0.002	0.003	0.0029	0.0029	0.0190938	0.005356084	1.114E-07	5.20E-04	9.14E-04	4.32E-04	2.05E-02	1.97E-02	2.71E-02
4970	491363.09	3862877.25	0.00173	0.00309	0.00125	0.00788	0.002	0.003	0.0031	0.00309	0.01805042	0.005707	1.301E-07	4.15E-04	1.04E-03	4.29E-04	2.20E-02	2.10E-02	2.66E-02
4971	491863.09	3862877.25	0.00166	0.00333	0.00127	0.00652	0.002	0.003	0.0033	0.00333	0.01732006	0.006150262	1.322E-07	3.43E-04	9.57E-04	4.18E-04	2.35E-02	2.26E-02	2.61E-02
4972	492363.09	3862877.25	0.00168	0.00361	0.00126	0.00565	0.002	0.003	0.0036	0.00361	0.01752873	0.006667402	1.312E-07	2.98E-04	8.07E-04	4.15E-04	2.52E-02	2.45E-02	2.63E-02
4973	492863.09	3862877.25	0.00173	0.00393	0.00123	0.00502	0.001	0.003	0.0039	0.00393	0.01805042	0.007258418	1.281E-07	2.64E-04	6.28E-04	4.09E-04	2.75E-02	2.67E-02	2.74E-02
4974	493363.09	3862877.25	0.00175	0.00431	0.00121	0.00464	0.001	0.003	0.0043	0.00431	0.0182591	0.00796025	1.26E-07	2.44E-04	5.96E-04	4.07E-04	3.06E-02	2.93E-02	2.88E-02
4975	493863.09	3862877.25	0.00175	0.00469	0.00116	0.00432	0.001	0.003	0.0047	0.00469	0.0182591	0.008662081	1.208E-07	2.28E-04	6.66E-04	4.11E-04	3.32E-02	3.19E-02	2.96E-02
4976	494363.09	3862877.25	0.00177	0.00521	0.00111	0.00394	0.001	0.003	0.0052	0.00521	0.01846777	0.009622483	1.156E-07	2.08E-04	6.80E-04	4.05E-04	3.67E-02	3.54E-02	3.07E-02
4977	494863.09	3862877.25	0.00178	0.00596	0.00114	0.00367	0.001	0.003	0.0059	0.00596	0.01857211	0.011007677	1.187E-07	1.93E-04	6.38E-04	3.91E-04	4.19E-02	4.05E-02	3.22E-02
4978	495363.09	3862877.25	0.00181	0.00677	0.00122	0.00353	0.001	0.003	0.0068	0.00677	0.01888512	0.012503687	1.27E-07	1.86E-04	6.38E-04	3.88E-04	4.78E-02	4.60E-02	3.44E-02
4979	495863.09	3862877.25	0.00181	0.00764	0.00125	0.00341	0.001	0.003	0.0076	0.00764	0.01888512	0.014110512	1.301E-07	1.80E-04	6.89E-04	3.88E-04	5.41E-02	5.20E-02	3.64E-02
4980	496363.09	3862877.25	0.00179	0.00865	0.00122	0.00324	0.002	0.003	0.0087	0.00865	0.01867645	0.015975907	1.27E-07	1.71E-04	7.46E-04	3.83E-04	6.15E-02	5.88E-02	3.86E-02
4981	496863.09	3862877.25	0.00176	0.00997	0.0012	0.00302	0.002	0.003	0.01	0.00997	0.01836343	0.018413849	1.249E-07	1.59E-04	7.78E-04	3.74E-04	7.10E-02	6.78E-02	4.13E-02
4982	497363.09	3862877.25	0.00175	0.01086	0.0012	0.00286	0.002	0.003	0.0109	0.01086	0.0182591	0.020057613	1.249E-07	1.51E-04	7.69E-04	3.66E-04	7.73E-02	7.38E-02	4.31E-02
4983	497863.09	3862877.25	0.00175	0.01086	0.00121	0.00278	0.002	0.003	0.0109	0.01086	0.0182591	0.020057613	1.26E-07	1.46E-04	7.17E-04	3.64E-04	7.73E-02	7.38E-02	4.30E-02
4984	498363.09	3862877.25	0.00176	0.01044	0.00123	0.00273	0.001	0.003	0.0105	0.01044	0.01836343	0.019281904	1.281E-07	1.44E-04	6.52E-04	3.69E-04	7.42E-02	7.10E-02	4.20E-02

4985	471363.09	3863377.25	0.0011	0.00085	0.00057	0.00096	0.001	0.001	0.0008	0.00085	0.01147715	0.001569887	5.934E-08	5.06E-05	4.92E-04	1.51E-04	5.95E-03	5.78E-03	1.39E-02
4986	471863.09	3863377.25	0.00113	0.00087	0.0006	0.00099	0.001	0.001	0.0009	0.00087	0.01179016	0.001606825	6.246E-08	5.21E-05	5.30E-04	1.56E-04	6.02E-03	5.92E-03	1.42E-02
4987	472363.09	3863377.25	0.00115	0.00088	0.00063	0.00101	0.001	0.001	0.0009	0.00088	0.01199883	0.001625295	6.559E-08	5.32E-05	5.63E-04	1.60E-04	6.16E-03	5.98E-03	1.46E-02
4988	472863.09	3863377.25	0.00118	0.0009	0.00068	0.00103	0.001	0.001	0.0009	0.0009	0.01231185	0.001662233	7.079E-08	5.43E-05	5.91E-04	1.66E-04	6.24E-03	6.12E-03	1.49E-02
4989	473363.09	3863377.25	0.0012	0.00092	0.00072	0.00104	0.001	0.001	0.0009	0.00092	0.01252052	0.001699172	7.496E-08	5.48E-05	6.14E-04	1.72E-04	6.31E-03	6.26E-03	1.51E-02
4990	473863.09	3863377.25	0.00122	0.00093	0.00075	0.00105	0.001	0.001	0.0009	0.00093	0.0127292	0.001717641	7.808E-08	5.53E-05	6.24E-04	1.77E-04	6.45E-03	6.32E-03	1.54E-02
4991	474363.09	3863377.25	0.00125	0.00095	0.00075	0.00107	0.001	0.001	0.0009	0.00095	0.01304221	0.001754579	7.808E-08	5.64E-05	6.24E-04	1.81E-04	6.52E-03	6.46E-03	1.57E-02
4992	474863.09	3863377.25	0.00126	0.00097	0.00077	0.0011	0.001	0.001	0.0009	0.00097	0.01314655	0.001791518	8.016E-08	5.79E-05	6.14E-04	1.87E-04	6.66E-03	6.60E-03	1.59E-02
4993	475363.09	3863377.25	0.00128	0.00098	0.00079	0.00113	0.001	0.001	0.001	0.00098	0.01335522	0.001809987	8.224E-08	5.95E-05	6.05E-04	1.93E-04	6.80E-03	6.66E-03	1.62E-02
4994	475863.09	3863377.25	0.0013	0.001	0.0008	0.00117	0.001	0.001	0.001	0.001	0.0135639	0.001846926	8.328E-08	6.16E-05	6.10E-04	1.98E-04	6.94E-03	6.80E-03	1.64E-02
4995	476363.09	3863377.25	0.00131	0.00102	0.00081	0.00121	0.001	0.001	0.001	0.00102	0.01366824	0.001883864	8.433E-08	6.37E-05	6.24E-04	2.04E-04	7.01E-03	6.94E-03	1.65E-02
4996	476863.09	3863377.25	0.00133	0.00104	0.00081	0.00126	0.001	0.001	0.001	0.00104	0.01387691	0.001920803	8.433E-08	6.64E-05	6.56E-04	2.10E-04	7.16E-03	7.07E-03	1.68E-02
4997	477363.09	3863377.25	0.00135	0.00106	0.00084	0.00132	0.002	0.002	0.001	0.00106	0.01408559	0.001957741	8.745E-08	6.95E-05	7.03E-04	2.15E-04	7.30E-03	7.21E-03	1.71E-02
4998	477863.09	3863377.25	0.0014	0.00106	0.00087	0.00136	0.002	0.002	0.001	0.00106	0.01460728	0.001957741	9.057E-08	7.16E-05	7.60E-04	2.21E-04	7.30E-03	7.21E-03	1.77E-02
4999	478363.09	3863377.25	0.00146	0.00102	0.00082	0.00139	0.002	0.002	0.001	0.00102	0.0152333	0.001883864	8.537E-08	7.32E-05	8.11E-04	2.18E-04	7.16E-03	6.94E-03	1.84E-02
5000	478863.09	3863377.25	0.00147	0.00104	0.00086	0.00143	0.002	0.002	0.001	0.00104	0.01533764	0.001920803	8.953E-08	7.53E-05	8.11E-04	2.25E-04	7.30E-03	7.07E-03	1.86E-02
5001	479363.09	3863377.25	0.00145	0.00111	0.00096	0.00147	0.002	0.002	0.0011	0.00111	0.01512897	0.002050087	9.994E-08	7.74E-05	8.25E-04	2.41E-04	7.72E-03	7.55E-03	1.85E-02
5002	479863.09	3863377.25	0.00141	0.00118	0.00107	0.00152	0.002	0.002	0.0011	0.00118	0.01471161	0.002179372	1.114E-07	8.01E-05	8.07E-04	2.53E-04	8.08E-03	8.02E-03	1.81E-02
5003	480363.09	3863377.25	0.00141	0.00121	0.00114	0.00156	0.002	0.002	0.0012	0.00121	0.01471161	0.00223478	1.187E-07	8.22E-05	8.02E-04	2.62E-04	8.29E-03	8.23E-03	1.82E-02
5004	480863.09	3863377.25	0.0014	0.00124	0.00117	0.00162	0.002	0.002	0.0012	0.00124	0.01460728	0.002290188	1.218E-07	8.53E-05	7.74E-04	2.67E-04	8.50E-03	8.43E-03	1.81E-02
5005	481363.09	3863377.25	0.00139	0.00129	0.00112	0.00168	0.002	0.002	0.0012	0.00129	0.01450294	0.002382534	1.166E-07	8.85E-05	7.03E-04	2.74E-04	8.79E-03	8.77E-03	1.80E-02
5006	481863.09	3863377.25	0.0014	0.00133	0.00112	0.00176	0.001	0.002	0.0013	0.00133	0.01460728	0.002456411	1.166E-07	9.27E-05	6.24E-04	2.81E-04	9.07E-03	9.04E-03	1.81E-02
5007	482363.09	3863377.25	0.00141	0.00137	0.00115	0.00186	0.001	0.002	0.0013	0.00137	0.01471161	0.002530288	1.197E-07	9.80E-05	5.72E-04	2.87E-04	9.28E-03	9.32E-03	1.82E-02
5008	482863.09	3863377.25	0.00141	0.0014	0.00105	0.00192	0.001	0.002	0.0014	0.0014	0.01471161	0.002585696	1.093E-07	1.01E-04	5.67E-04	2.94E-04	9.57E-03	9.52E-03	1.83E-02
5009	483363.09	3863377.25	0.0014	0.00143	0.00109	0.00198	0.001	0.002	0.0014	0.00143	0.01460728	0.002641104	1.135E-07	1.04E-04	6.47E-04	3.02E-04	9.85E-03	9.72E-03	1.84E-02
5010	483863.09	3863377.25	0.00138	0.00147	0.00125	0.00205	0.002	0.002	0.0014	0.00147	0.0143986	0.002714981	1.301E-07	1.08E-04	7.46E-04	3.09E-04	1.01E-02	1.00E-02	1.84E-02
5011	484363.09	3863377.25	0.00132	0.00151	0.00122	0.00212	0.002	0.002	0.0015	0.00151	0.01377258	0.002788858	1.27E-07	1.12E-04	7.55E-04	3.15E-04	1.04E-02	1.03E-02	1.79E-02
5012	484863.09	3863377.25	0.00127	0.00156	0.0012	0.00218	0.001	0.002	0.0015	0.00156	0.01325089	0.002881204	1.249E-07	1.15E-04	6.19E-04	3.19E-04	1.08E-02	1.06E-02	1.73E-02
5013	485363.09	3863377.25	0.00121	0.00161	0.00116	0.00224	0.001	0.002	0.0016	0.00161	0.01262486	0.00297355	1.208E-07	1.18E-04	4.74E-04	3.19E-04	1.11E-02	1.09E-02	1.67E-02
5014	485863.09	3863377.25	0.00116	0.00165	0.00105	0.00235	9E-04	0.002	0.0016	0.00165	0.01210317	0.003047427	1.093E-07	1.24E-04	4.17E-04	3.26E-04	1.15E-02	1.12E-02	1.63E-02
5015	486363.09	3863377.25	0.00111	0.0017	0.00103	0.00255	8E-04	0.002	0.0017	0.0017	0.01158148	0.003139774	1.072E-07	1.34E-04	3.85E-04	3.31E-04	1.18E-02	1.16E-02	1.58E-02
5016	486863.09	3863377.25	0.00106	0.00175	0.00122	0.00279	0.001	0.002	0.0017	0.00175	0.0110598	0.00323212	1.27E-07	1.47E-04	5.11E-04	3.24E-04	1.22E-02	1.19E-02	1.56E-02
5017	487363.09	3863377.25	0.00105	0.00183	0.0013	0.00311	0.001	0.002	0.0018	0.00183	0.01095546	0.003379874	1.353E-07	1.64E-04	5.91E-04	3.24E-04	1.27E-02	1.24E-02	1.57E-02
5018	487863.09	3863377.25	0.00108	0.00191	0.00122	0.00369	9E-04	0.002	0.0019	0.00191	0.01126847	0.003527628	1.27E-07	1.94E-04	4.13E-04	3.25E-04	1.32E-02	1.30E-02	1.59E-02
5019	488363.09	3863377.25	0.00111	0.002	0.00111	0.00487	6E-04	0.002	0.0019	0.002	0.01158148	0.003693851	1.156E-07	2.57E-04	3.00E-04	3.26E-04	1.37E-02	1.36E-02	1.63E-02
5020	488863.09	3863377.25	0.00118	0.00208	0.00099	0.0111	6E-04	0.002	0.002	0.00208	0.01231185	0.003841605	1.031E-07	5.85E-04	2.86E-04	3.35E-04	1.42E-02	1.41E-02	1.75E-02
5021	489363.09	3863377.25	0.00134	0.00218	0.00112	0.07683	7E-04	0.003	0.0021	0.00218	0.01398125	0.004026298	1.166E-07	4.05E-03	3.42E-04	3.60E-04	1.49E-02	1.48E-02	2.28E-02
5022	489863.09	3863377.25	0.00154	0.00229	0.00111	0.01524	6E-04	0.003	0.0022	0.00229	0.016068	0.00422946	1.156E-07	8.03E-04	2.81E-04	3.74E-04	1.57E-02	1.56E-02	2.19E-02
5023	490363.09	3863377.25	0.00165	0.00239	0.00098	0.00864	8E-04	0.003	0.0023	0.00239	0.01721572	0.004414152	1.02E-07	4.55E-04	3.52E-04	3.76E-04	1.66E-02	1.63E-02	2.31E-02
5024	490863.09	3863377.25	0.00164	0.00249	0.00093	0.00644	0.001	0.003	0.0025	0.00249	0.01711138	0.004598845	9.682E-08	3.39E-04	6.61E-04	3.63E-04	1.75E-02	1.69E-02	2.36E-02
5025	491363.09	3863377.25	0.00151	0.0026	0.00098	0.00532	0.002	0.002	0.0026	0.0026	0.01575499	0.004802007	1.02E-07	2.80E-04	8.86E-04	3.50E-04	1.86E-02	1.77E-02	2.30E-02
5026	491863.09	3863377.25	0.00141	0.00274	0.00112	0.00463	0.002	0.002	0.0028	0.00274	0.01471161	0.005060576	1.166E-07	2.44E-04	8.96E-04	3.47E-04	1.95E-02	1.86E-02	2.21E-02
5027	492363.09	3863377.25	0.0014	0.00287	0.00109	0.00422	0.002	0.003	0.0029	0.00287	0.01460728	0.005300677	1.135E-07	2.22E-04	8.35E-04	3.57E-04	2.02E-02	1.95E-02	2.20E-02
5028	492863.09	3863377.25	0.00146	0.00281	0.00115	0.00391	0.002	0.003	0.0028	0.00281	0.0152333	0.005189861	1.197E-07	2.06E-04	7.08E-04	3.56E-04	1.96E-02	1.91E-02	2.21E-02
5029	493363.09	3863377.25	0.00153	0.00269	0.00114	0.00362	0.001	0.002	0.0026	0.00269	0.01596367	0.00496823	1.187E-07	1.91E-04	5.72E-04	3.45E-04	1.87E-02	1.83E-02	2.25E-02
5030	493863.09	3863377.25	0.00154	0.00284	0.00112	0.00345	0.001	0.002	0.0029	0.00284	0.016068	0.005245269	1.166E-07	1.82E-04	5.44E-04	3.40E-04	2.02E-02	1.93E-02	2.33E-02
5031	494363.09	3863377.25	0.00151	0.00317	0.00106	0.00331	0.001	0.002	0.0032	0.00317	0.01575499	0.005854754	1.104E-07	1.74E-04	6.00E-04	3.45E-04	2.25E-02	2.16E-02	2.37E-02
5032	494863.09	3863377.25	0.00153	0.00323	0.00101	0.00311	0.001	0.002	0.0032	0.00323	0.01596367	0.00596557	1.051E-07	1.64E-04	6.24E-04	3.38E-04	2.27E-02	2.20E-02	2.38E-02
5033	495363.09	3863377.25	0.00157	0.00318	0.00103	0.00295	0.001	0.002	0.0031	0.00318	0.01638102	0.005873224	1.072E-07	1.55E-04	6.00E-04	3.35E-04	2.22E-02	2.16E-02	2.39E-02
5034	495863.09	3863377.25	0.00161	0.00323	0.00113	0.00287	0.001	0.002	0.0032	0.00323	0.01679837	0.00596557	1.176E-07	1.51E-04	5.86E-04	3.38E-04	2.25E-02	2.20E-02	2.44E-02
5035	496363.09	3863377.25	0.00155	0.0045	0.0011	0.00276	0.001	0.002	0.0045	0.0045	0.01617234	0.008311166	1.145E-07	1.45E-04	5.96E-04	3.28E-04	3.17E-02	3.06E-02	2.66E-02
5036	496863.09	3863377.25	0.00151	0.00465	0.00108	0.00263	0.001	0.002	0.0046	0.00465	0.01575499	0.008588204	1.124E-07	1.39E-04	6.33E-04	3.18E-04	3.29E-02	3.16E-02	2.67E-02
5037	497363.09	3863377.25	0.00149	0.00457	0.00105	0.00251	0.001	0.002	0.0046	0.00457	0.01554632	0.00844045	1.093E-07	1.32E-04	6.75E-04	3.11E-04	3.25E-02	3.11E-02	2.65E-02
5038	497863.09	3863377.25	0.00147	0.00443	0.00103	0.00238	0.001	0.002	0.0045	0.00443	0.01533764	0.008181881	1.072E-07	1.25E-04	6.94E-04	3.04E-04	3.15E-02	3.01E-02	2.60E-02
5039	498363.09	3863377.25	0.00146	0.00439	0.00102	0.00228	0.001	0.002	0.0044	0.00439	0.0152333	0.008108004	1.062E-07	1.20E-04	6.75E-04	3.00E-04	3.12E-02	2.99E-02	2.58E-02
5040	471363.09	3863877.25	0.00105	0.00083	0.00058	0.00092	0.001	0.001	0.0008	0.00083	0.01095546	0.001532948	6.038E-08	4.85E-05	5.25E-04	1.49E-04	5.74E-03	5.64E-03	1.33E-02
5041	471863.09	3863877.25	0.00108	0.00084	0.00061	0.00093	0.001	0.001	0.0008	0.00084	0.01126847	0.001551418	6.35E-08	4.90E-05	5.53E-04	1.53E-04	5.88E-03	5.71E-03	1.37E-02
5042	472363.09	3863877.25	0.0011	0.00086	0.00066	0.00094	0.001	0.001	0.0008	0.00086	0.01147715	0.001588356	6.871E-08	4.95E-05	5.67E-04	1.59E-04	5.95E-03	5.85E-03	1.39E-02

5043	472863.09	3863877.25	0.00112	0.00088	0.00069	0.00096	0.001	0.001	0.0009	0.00088	0.01168582	0.001625295	7.183E-08	5.06E-05	5.72E-04	1.63E-04	6.02E-03	5.98E-03	1.41E-02
5044	473363.09	3863877.25	0.00113	0.00089	0.0007	0.00098	0.001	0.001	0.0009	0.00089	0.01179016	0.001643764	7.287E-08	5.16E-05	5.63E-04	1.67E-04	6.16E-03	6.05E-03	1.43E-02
5045	473863.09	3863877.25	0.00115	0.00091	0.0007	0.001	0.001	0.001	0.0009	0.00091	0.01199883	0.001680702	7.287E-08	5.27E-05	5.53E-04	1.72E-04	6.24E-03	6.19E-03	1.45E-02
5046	474363.09	3863877.25	0.00116	0.00092	0.00071	0.00104	0.001	0.001	0.0009	0.00092	0.01210317	0.001699172	7.392E-08	5.48E-05	5.44E-04	1.76E-04	6.38E-03	6.26E-03	1.47E-02
5047	474863.09	3863877.25	0.00116	0.00094	0.00074	0.00107	0.001	0.001	0.0009	0.00094	0.01210317	0.00173611	7.704E-08	5.64E-05	5.39E-04	1.80E-04	6.45E-03	6.39E-03	1.47E-02
5048	475363.09	3863877.25	0.00118	0.00095	0.00075	0.00111	0.001	0.001	0.0009	0.00095	0.01231185	0.001754579	7.808E-08	5.85E-05	5.53E-04	1.84E-04	6.59E-03	6.46E-03	1.50E-02
5049	475863.09	3863877.25	0.00118	0.00097	0.00076	0.00115	0.001	0.001	0.0009	0.00097	0.01231185	0.001791518	7.912E-08	6.06E-05	5.77E-04	1.89E-04	6.66E-03	6.60E-03	1.50E-02
5050	476363.09	3863877.25	0.00119	0.00099	0.00077	0.00119	0.001	0.001	0.001	0.00099	0.01241619	0.001828456	8.016E-08	6.27E-05	6.14E-04	1.93E-04	6.80E-03	6.73E-03	1.52E-02
5051	476863.09	3863877.25	0.0012	0.00101	0.00081	0.00123	0.001	0.001	0.001	0.00101	0.01252052	0.001865395	8.433E-08	6.48E-05	6.52E-04	2.00E-04	6.94E-03	6.87E-03	1.54E-02
5052	477363.09	3863877.25	0.00122	0.00103	0.00085	0.00127	0.001	0.001	0.001	0.00103	0.0127292	0.001902333	8.849E-08	6.69E-05	6.94E-04	2.05E-04	7.01E-03	7.00E-03	1.56E-02
5053	477863.09	3863877.25	0.00126	0.00103	0.00087	0.0013	0.002	0.002	0.001	0.00103	0.01314655	0.001902333	9.057E-08	6.85E-05	7.27E-04	2.11E-04	7.16E-03	7.00E-03	1.62E-02
5054	478363.09	3863877.25	0.00131	0.00101	0.00084	0.0013	0.002	0.002	0.001	0.00101	0.01366824	0.001865395	8.745E-08	6.85E-05	7.32E-04	2.11E-04	7.01E-03	6.87E-03	1.67E-02
5055	478863.09	3863877.25	0.0013	0.00107	0.0009	0.00134	0.002	0.002	0.001	0.00107	0.0135639	0.00197621	9.37E-08	7.06E-05	7.32E-04	2.22E-04	7.37E-03	7.28E-03	1.67E-02
5056	479363.09	3863877.25	0.00129	0.00111	0.00097	0.00139	0.002	0.002	0.0011	0.00111	0.01345956	0.002050087	1.01E-07	7.32E-05	7.27E-04	2.31E-04	7.58E-03	7.55E-03	1.66E-02
5057	479863.09	3863877.25	0.00128	0.00114	0.00103	0.00143	0.002	0.002	0.0011	0.00114	0.01335522	0.002105495	1.072E-07	7.53E-05	7.22E-04	2.36E-04	7.79E-03	7.75E-03	1.65E-02
5058	480363.09	3863877.25	0.00127	0.00117	0.00107	0.00149	0.001	0.002	0.0011	0.00117	0.01325089	0.002160903	1.114E-07	7.85E-05	6.89E-04	2.39E-04	8.01E-03	7.96E-03	1.65E-02
5059	480863.09	3863877.25	0.00124	0.00119	0.00103	0.00155	0.001	0.002	0.0012	0.00119	0.01293787	0.002197842	1.072E-07	8.16E-05	6.28E-04	2.42E-04	8.22E-03	8.09E-03	1.62E-02
5060	481363.09	3863877.25	0.00123	0.00123	0.00096	0.00161	0.001	0.002	0.0012	0.00123	0.01283354	0.002271719	9.994E-08	8.48E-05	5.53E-04	2.46E-04	8.43E-03	8.36E-03	1.61E-02
5061	481863.09	3863877.25	0.00123	0.00127	0.00099	0.00167	0.001	0.002	0.0012	0.00127	0.01283354	0.002345596	1.031E-07	8.80E-05	5.06E-04	2.52E-04	8.64E-03	8.64E-03	1.60E-02
5062	482363.09	3863877.25	0.00124	0.0013	0.00101	0.00172	0.001	0.002	0.0013	0.0013	0.01293787	0.002401003	1.051E-07	9.06E-05	4.97E-04	2.60E-04	8.86E-03	8.84E-03	1.62E-02
5063	482863.09	3863877.25	0.00123	0.00132	0.00095	0.00177	0.001	0.002	0.0013	0.00132	0.01283354	0.002437942	9.89E-08	9.32E-05	5.44E-04	2.67E-04	9.07E-03	8.98E-03	1.63E-02
5064	483363.09	3863877.25	0.00122	0.00135	0.00105	0.00182	0.001	0.002	0.0013	0.00135	0.0127292	0.00249335	1.093E-07	9.59E-05	6.33E-04	2.74E-04	9.28E-03	9.18E-03	1.63E-02
5065	483863.09	3863877.25	0.00118	0.00138	0.00119	0.00188	0.001	0.002	0.0013	0.00138	0.01231185	0.002548757	1.239E-07	9.90E-05	6.89E-04	2.79E-04	9.49E-03	9.38E-03	1.60E-02
5066	484363.09	3863877.25	0.00112	0.00141	0.00115	0.00192	0.001	0.002	0.0014	0.00141	0.01168582	0.002604165	1.197E-07	1.01E-04	6.19E-04	2.81E-04	9.78E-03	9.59E-03	1.55E-02
5067	484863.09	3863877.25	0.00106	0.00145	0.00106	0.00195	0.001	0.002	0.0014	0.00145	0.0110598	0.002678042	1.104E-07	1.03E-04	4.78E-04	2.81E-04	1.01E-02	9.86E-03	1.48E-02
5068	485363.09	3863877.25	0.00103	0.00149	0.001	0.00201	8E-04	0.002	0.0015	0.00149	0.01074678	0.002751919	1.041E-07	1.06E-04	3.94E-04	2.81E-04	1.03E-02	1.01E-02	1.45E-02
5069	485863.09	3863877.25	0.001	0.00152	0.00089	0.00213	8E-04	0.002	0.0015	0.00152	0.01043377	0.002807327	9.265E-08	1.12E-04	3.61E-04	2.90E-04	1.06E-02	1.03E-02	1.42E-02
5070	486363.09	3863877.25	0.00093	0.00156	0.00096	0.00229	7E-04	0.002	0.0015	0.00156	0.00970341	0.002881204	9.994E-08	1.21E-04	3.42E-04	2.86E-04	1.08E-02	1.06E-02	1.36E-02
5071	486863.09	3863877.25	0.00087	0.0016	0.00116	0.00244	0.001	0.002	0.0016	0.0016	0.00907738	0.002955081	1.208E-07	1.29E-04	4.92E-04	2.79E-04	1.12E-02	1.09E-02	1.32E-02
5072	487363.09	3863877.25	0.00086	0.00166	0.00112	0.00264	0.001	0.002	0.0016	0.00166	0.00897304	0.003065897	1.166E-07	1.39E-04	5.35E-04	2.83E-04	1.15E-02	1.13E-02	1.33E-02
5073	487863.09	3863877.25	0.0009	0.00173	0.00101	0.00292	8E-04	0.002	0.0017	0.00173	0.00939039	0.003195181	1.051E-07	1.54E-04	3.66E-04	2.87E-04	1.20E-02	1.18E-02	1.36E-02
5074	488363.09	3863877.25	0.00093	0.0018	0.00097	0.00328	6E-04	0.002	0.0018	0.0018	0.00970341	0.003324466	1.01E-07	1.73E-04	2.72E-04	2.84E-04	1.24E-02	1.22E-02	1.39E-02
5075	488863.09	3863877.25	0.00098	0.00188	0.00091	0.00415	5E-04	0.002	0.0018	0.00188	0.01022509	0.00347222	9.474E-08	2.19E-04	2.44E-04	2.84E-04	1.29E-02	1.28E-02	1.46E-02
5076	489363.09	3863877.25	0.00109	0.00195	0.00099	0.0034	7E-04	0.002	0.0019	0.00195	0.01137281	0.003601505	1.031E-07	1.79E-04	3.05E-04	2.98E-04	1.34E-02	1.33E-02	1.59E-02
5077	489863.09	3863877.25	0.00127	0.00203	0.00094	0.0034	6E-04	0.002	0.002	0.00203	0.01325089	0.003749259	9.786E-08	1.79E-04	2.67E-04	3.12E-04	1.39E-02	1.38E-02	1.78E-02
5078	490363.09	3863877.25	0.00141	0.0021	0.0009	0.00341	5E-04	0.002	0.002	0.0021	0.01471161	0.003878544	9.37E-08	1.80E-04	2.49E-04	3.22E-04	1.45E-02	1.43E-02	1.95E-02
5079	490863.09	3863877.25	0.00147	0.00216	0.00086	0.00338	1E-03	0.002	0.0021	0.00216	0.01533764	0.003989359	8.953E-08	1.78E-04	4.45E-04	3.15E-04	1.51E-02	1.47E-02	2.07E-02
5080	491363.09	3863877.25	0.0014	0.00222	0.00083	0.00327	0.002	0.002	0.0022	0.00222	0.01460728	0.004100175	8.641E-08	1.72E-04	7.13E-04	3.04E-04	1.57E-02	1.51E-02	2.05E-02
5081	491863.09	3863877.25	0.00132	0.00218	0.00099	0.00316	0.002	0.002	0.0022	0.00218	0.01377258	0.004026298	1.031E-07	1.66E-04	8.44E-04	3.09E-04	1.56E-02	1.48E-02	1.99E-02
5082	492363.09	3863877.25	0.0013	0.00194	0.001	0.00294	0.002	0.002	0.002	0.00194	0.0135639	0.003583036	1.041E-07	1.55E-04	8.44E-04	3.02E-04	1.40E-02	1.32E-02	1.92E-02
5083	492863.09	3863877.25	0.00131	0.00173	0.00093	0.00272	0.002	0.002	0.0018	0.00173	0.01366824	0.003195181	9.682E-08	1.43E-04	7.74E-04	2.94E-04	1.24E-02	1.18E-02	1.87E-02
5084	493363.09	3863877.25	0.00133	0.00181	0.00098	0.00265	0.001	0.002	0.0018	0.00181	0.01387691	0.003342935	1.02E-07	1.40E-04	6.33E-04	2.93E-04	1.25E-02	1.23E-02	1.84E-02
5085	493863.09	3863877.25	0.00135	0.00196	0.00098	0.00258	0.001	0.002	0.0019	0.00196	0.01408559	0.003619974	1.02E-07	1.36E-04	5.06E-04	2.86E-04	1.35E-02	1.33E-02	1.88E-02
5086	494363.09	3863877.25	0.00135	0.0021	0.00098	0.00257	0.001	0.002	0.0021	0.0021	0.01408559	0.003878544	1.02E-07	1.35E-04	4.83E-04	2.86E-04	1.50E-02	1.43E-02	1.95E-02
5087	494863.09	3863877.25	0.00134	0.00215	0.00095	0.00256	0.001	0.002	0.0022	0.00215	0.01398125	0.00397089	9.89E-08	1.35E-04	5.39E-04	2.90E-04	1.54E-02	1.46E-02	1.97E-02
5088	495363.09	3863877.25	0.00134	0.00223	0.00089	0.00247	0.001	0.002	0.0022	0.00223	0.01398125	0.004118644	9.265E-08	1.30E-04	5.67E-04	2.88E-04	1.57E-02	1.52E-02	1.97E-02
5089	495863.09	3863877.25	0.00136	0.00226	0.00087	0.00236	0.001	0.002	0.0022	0.00226	0.01418993	0.004174052	9.057E-08	1.24E-04	5.44E-04	2.84E-04	1.57E-02	1.54E-02	1.97E-02
5090	496363.09	3863877.25	0.00135	0.00256	0.00093	0.0023	0.001	0.002	0.0025	0.00256	0.01408559	0.00472813	9.682E-08	1.21E-04	5.11E-04	2.84E-04	1.78E-02	1.74E-02	2.01E-02
5091	496863.09	3863877.25	0.00134	0.00288	0.00097	0.00226	0.001	0.002	0.0028	0.00288	0.01398125	0.005319146	1.01E-07	1.19E-04	5.21E-04	2.80E-04	2.01E-02	1.96E-02	2.08E-02
5092	497363.09	3863877.25	0.00133	0.00296	0.00098	0.00222	0.001	0.002	0.0029	0.00296	0.01387691	0.0054669	1.02E-07	1.17E-04	5.53E-04	2.76E-04	2.08E-02	2.01E-02	2.09E-02
5093	497863.09	3863877.25	0.00131	0.00291	0.00097	0.00216	0.001	0.002	0.0029	0.00291	0.01366824	0.005374554	1.01E-07	1.14E-04	5.96E-04	2.70E-04	2.05E-02	1.98E-02	2.08E-02
5094	498363.09	3863877.25	0.00128	0.00282	0.00093	0.00206	0.001	0.002	0.0028	0.00282	0.01335522	0.00520833	9.682E-08	1.09E-04	6.19E-04	2.63E-04	2.00E-02	1.92E-02	2.04E-02
5095	471363.09	3864377.25	0.00101	0.00081	0.00059	0.00086	0.001	0.001	0.0008	0.00081	0.01053811	0.00149601	6.142E-08	4.53E-05	5.25E-04	1.46E-04	5.60E-03	5.51E-03	1.28E-02
5096	471863.09	3864377.25	0.00102	0.00082	0.00063	0.00088	0.001	0.001	0.0008	0.00082	0.01064244	0.001514479	6.559E-08	4.64E-05	5.25E-04	1.51E-04	5.67E-03	5.58E-03	1.30E-02
5097	472363.09	3864377.25	0.00104	0.00084	0.00064	0.00091	0.001	0.001	0.0008	0.00084	0.01085112	0.001551418	6.663E-08	4.79E-05	5.16E-04	1.53E-04	5.81E-03	5.71E-03	1.32E-02
5098	472863.09	3864377.25	0.00106	0.00085	0.00065	0.00093	0.001	0.001	0.0008	0.00085	0.0110598	0.001569887	6.767E-08	4.90E-05	5.06E-04	1.58E-04	5.88E-03	5.78E-03	1.34E-02
5099	473363.09	3864377.25	0.00106	0.00087	0.00065	0.00096	0.001	0.001	0.0008	0.00087	0.0110598	0.001606825	6.767E-08	5.06E-05	4.92E-04	1.60E-04	5.95E-03	5.92E-03	1.34E-02
5100	473863.09	3864377.25	0.00107	0.00088	0.00067	0.00099	0.001	0.001	0.0009	0.00088	0.01116413	0.001625295	6.975E-08	5.21E-05	4.88E-04	1.65E-04	6.09E-03	5.98E-03	1.36E-02

5101	474363.09	3864377.25	0.00108	0.00089	0.00069	0.00102	0.001	0.001	0.0009	0.00089	0.01126847	0.001643764	7.183E-08	5.37E-05	4.97E-04	1.67E-04	6.16E-03	6.05E-03	1.37E-02
5102	474863.09	3864377.25	0.00107	0.00091	0.00071	0.00106	0.001	0.001	0.0009	0.00091	0.01116413	0.001680702	7.392E-08	5.58E-05	5.16E-04	1.70E-04	6.24E-03	6.19E-03	1.36E-02
5103	475363.09	3864377.25	0.00108	0.00092	0.00073	0.00109	0.001	0.001	0.0009	0.00092	0.01126847	0.001699172	7.6E-08	5.74E-05	5.49E-04	1.74E-04	6.38E-03	6.26E-03	1.39E-02
5104	475863.09	3864377.25	0.00108	0.00094	0.00074	0.00112	0.001	0.001	0.0009	0.00094	0.01126847	0.00173611	7.704E-08	5.90E-05	5.81E-04	1.79E-04	6.45E-03	6.39E-03	1.39E-02
5105	476363.09	3864377.25	0.00109	0.00096	0.00076	0.00115	0.001	0.001	0.0009	0.00096	0.01137281	0.001773049	7.912E-08	6.06E-05	6.14E-04	1.84E-04	6.59E-03	6.53E-03	1.41E-02
5106	476863.09	3864377.25	0.00111	0.00097	0.0008	0.00117	0.001	0.001	0.0009	0.00097	0.01158148	0.001791518	8.328E-08	6.16E-05	6.42E-04	1.90E-04	6.66E-03	6.60E-03	1.43E-02
5107	477363.09	3864377.25	0.00112	0.001	0.00084	0.00119	0.001	0.001	0.001	0.001	0.01168582	0.001846926	8.745E-08	6.27E-05	6.47E-04	1.96E-04	6.80E-03	6.80E-03	1.44E-02
5108	477863.09	3864377.25	0.00114	0.00101	0.00084	0.00121	0.001	0.001	0.001	0.00101	0.0118945	0.001865395	8.745E-08	6.37E-05	6.47E-04	2.01E-04	6.94E-03	6.87E-03	1.47E-02
5109	478363.09	3864377.25	0.00115	0.00103	0.00085	0.00125	0.001	0.001	0.001	0.00103	0.01199883	0.001902333	8.849E-08	6.58E-05	6.47E-04	2.05E-04	7.09E-03	7.00E-03	1.49E-02
5110	478863.09	3864377.25	0.00116	0.00105	0.00089	0.00129	0.001	0.001	0.001	0.00105	0.01210317	0.001939272	9.265E-08	6.79E-05	6.56E-04	2.10E-04	7.16E-03	7.14E-03	1.50E-02
5111	479363.09	3864377.25	0.00116	0.00107	0.00093	0.00133	0.001	0.002	0.001	0.00107	0.01210317	0.00197621	9.682E-08	7.01E-05	6.52E-04	2.12E-04	7.30E-03	7.28E-03	1.50E-02
5112	479863.09	3864377.25	0.00115	0.00109	0.00096	0.00138	0.001	0.002	0.0011	0.00109	0.01199883	0.002013149	9.994E-08	7.27E-05	6.19E-04	2.15E-04	7.44E-03	7.41E-03	1.49E-02
5113	480363.09	3864377.25	0.00113	0.00111	0.00096	0.00144	0.001	0.002	0.0011	0.00111	0.01179016	0.002050087	9.994E-08	7.59E-05	5.63E-04	2.18E-04	7.58E-03	7.55E-03	1.47E-02
5114	480863.09	3864377.25	0.0011	0.00113	0.00089	0.00147	0.001	0.002	0.0011	0.00113	0.01147715	0.002087026	9.265E-08	7.74E-05	4.97E-04	2.19E-04	7.79E-03	7.68E-03	1.45E-02
5115	481363.09	3864377.25	0.00108	0.00116	0.00084	0.0015	1E-03	0.002	0.0011	0.00116	0.01126847	0.002142434	8.745E-08	7.90E-05	4.50E-04	2.25E-04	8.01E-03	7.89E-03	1.43E-02
5116	481863.09	3864377.25	0.00109	0.00119	0.00088	0.00153	9E-04	0.002	0.0012	0.00119	0.01137281	0.002197842	9.161E-08	8.06E-05	4.36E-04	2.32E-04	8.15E-03	8.09E-03	1.44E-02
5117	482363.09	3864377.25	0.00109	0.00122	0.0009	0.00157	1E-03	0.002	0.0012	0.00122	0.01137281	0.002253249	9.37E-08	8.27E-05	4.64E-04	2.39E-04	8.36E-03	8.30E-03	1.45E-02
5118	482863.09	3864377.25	0.00108	0.00124	0.00091	0.00162	0.001	0.002	0.0012	0.00124	0.01126847	0.002290188	9.474E-08	8.53E-05	5.39E-04	2.45E-04	8.50E-03	8.43E-03	1.45E-02
5119	483363.09	3864377.25	0.00106	0.00126	0.00105	0.00166	0.001	0.002	0.0012	0.00126	0.0110598	0.002327126	1.093E-07	8.74E-05	6.10E-04	2.49E-04	8.71E-03	8.57E-03	1.45E-02
5120	483863.09	3864377.25	0.00102	0.00129	0.00111	0.00168	0.001	0.002	0.0013	0.00129	0.01064244	0.002382534	1.156E-07	8.85E-05	5.96E-04	2.50E-04	8.93E-03	8.77E-03	1.41E-02
5121	484363.09	3864377.25	0.00096	0.00131	0.00102	0.0017	0.001	0.002	0.0013	0.00131	0.01001642	0.002419473	1.062E-07	8.95E-05	4.88E-04	2.49E-04	9.14E-03	8.91E-03	1.35E-02
5122	484863.09	3864377.25	0.00091	0.00135	0.0009	0.00173	8E-04	0.002	0.0013	0.00135	0.00949473	0.00249335	9.37E-08	9.11E-05	3.80E-04	2.48E-04	9.35E-03	9.18E-03	1.29E-02
5123	485363.09	3864377.25	0.00089	0.00139	0.00086	0.00179	7E-04	0.002	0.0014	0.00139	0.00928605	0.002567227	8.953E-08	9.43E-05	3.47E-04	2.50E-04	9.64E-03	9.45E-03	1.27E-02
5124	485863.09	3864377.25	0.00086	0.00142	0.00079	0.0019	7E-04	0.002	0.0014	0.00142	0.00897304	0.002622634	8.224E-08	1.00E-04	3.09E-04	2.57E-04	9.92E-03	9.66E-03	1.25E-02
5125	486363.09	3864377.25	0.0008	0.00145	0.00095	0.002	7E-04	0.002	0.0014	0.00145	0.00834702	0.002678042	9.89E-08	1.05E-04	3.14E-04	2.52E-04	1.01E-02	9.86E-03	1.20E-02
5126	486863.09	3864377.25	0.00074	0.00149	0.00106	0.0021	0.001	0.002	0.0015	0.00149	0.00772099	0.002751919	1.104E-07	1.11E-04	4.83E-04	2.50E-04	1.04E-02	1.01E-02	1.16E-02
5127	487363.09	3864377.25	0.00072	0.00153	0.00095	0.0022	0.001	0.002	0.0015	0.00153	0.00751231	0.002825796	9.89E-08	1.16E-04	4.88E-04	2.50E-04	1.07E-02	1.04E-02	1.15E-02
5128	487863.09	3864377.25	0.00076	0.00157	0.00087	0.00232	7E-04	0.002	0.0016	0.00157	0.00792966	0.002899673	9.057E-08	1.22E-04	3.28E-04	2.55E-04	1.10E-02	1.07E-02	1.18E-02
5129	488363.09	3864377.25	0.00079	0.00163	0.00084	0.00241	5E-04	0.002	0.0016	0.00163	0.00824268	0.003010489	8.745E-08	1.27E-04	2.49E-04	2.46E-04	1.13E-02	1.11E-02	1.21E-02
5130	488863.09	3864377.25	0.00083	0.00167	0.00085	0.00247	5E-04	0.002	0.0016	0.00167	0.00866003	0.003084366	8.849E-08	1.30E-04	2.11E-04	2.46E-04	1.15E-02	1.14E-02	1.25E-02
5131	489363.09	3864377.25	0.0009	0.00172	0.00091	0.00212	6E-04	0.002	0.0017	0.00172	0.00939039	0.003176712	9.474E-08	1.12E-04	2.67E-04	2.53E-04	1.18E-02	1.17E-02	1.33E-02
5132	489863.09	3864377.25	0.00104	0.00176	0.00081	0.00208	6E-04	0.002	0.0017	0.00176	0.01085112	0.003250589	8.433E-08	1.10E-04	2.67E-04	2.63E-04	1.21E-02	1.20E-02	1.49E-02
5133	490363.09	3864377.25	0.0012	0.00181	0.0008	0.00215	4E-04	0.002	0.0018	0.00181	0.01252052	0.003342935	8.328E-08	1.13E-04	2.02E-04	2.74E-04	1.25E-02	1.23E-02	1.66E-02
5134	490863.09	3864377.25	0.00132	0.00186	0.00081	0.00219	6E-04	0.002	0.0018	0.00186	0.01377258	0.003435282	8.433E-08	1.15E-04	2.95E-04	2.83E-04	1.28E-02	1.26E-02	1.81E-02
5135	491363.09	3864377.25	0.00139	0.00176	0.00078	0.00217	0.001	0.002	0.0017	0.00176	0.01450294	0.003250589	8.12E-08	1.14E-04	5.53E-04	2.87E-04	1.23E-02	1.20E-02	1.91E-02
5136	491863.09	3864377.25	0.0013	0.00102	0.00056	0.00139	0.001	0.001	0.0011	0.00102	0.0135639	0.001883864	5.83E-08	7.32E-05	5.91E-04	1.87E-04	7.72E-03	6.94E-03	1.71E-02
5137	492363.09	3864377.25	0.00127	0.00129	0.00082	0.00182	0.002	0.002	0.0014	0.00129	0.01325089	0.002382534	8.537E-08	9.59E-05	8.16E-04	2.35E-04	9.64E-03	8.77E-03	1.76E-02
5138	492863.09	3864377.25	0.00113	0.00106	0.00059	0.00151	0.001	0.001	0.0011	0.00106	0.01179016	0.001957741	6.142E-08	7.95E-05	6.24E-04	1.91E-04	8.01E-03	7.21E-03	1.54E-02
5139	493363.09	3864377.25	0.00118	0.00124	0.00077	0.0018	0.001	0.002	0.0013	0.00124	0.01231185	0.002290188	8.016E-08	9.48E-05	6.80E-04	2.21E-04	8.86E-03	8.43E-03	1.60E-02
5140	493863.09	3864377.25	0.00118	0.00145	0.00083	0.00196	0.001	0.002	0.0014	0.00145	0.01231185	0.002678042	8.641E-08	1.03E-04	5.35E-04	2.41E-04	9.92E-03	9.86E-03	1.59E-02
5141	494363.09	3864377.25	0.00118	0.0016	0.00086	0.00198	1E-03	0.002	0.0016	0.0016	0.01231185	0.002955081	8.953E-08	1.04E-04	4.45E-04	2.43E-04	1.10E-02	1.09E-02	1.62E-02
5142	494863.09	3864377.25	0.00118	0.00171	0.00088	0.00203	9E-04	0.002	0.0017	0.00171	0.01231185	0.003158243	9.161E-08	1.07E-04	4.31E-04	2.45E-04	1.21E-02	1.16E-02	1.67E-02
5143	495363.09	3864377.25	0.00118	0.00171	0.00086	0.00209	0.001	0.002	0.0017	0.00171	0.01231185	0.003158243	8.953E-08	1.10E-04	4.83E-04	2.50E-04	1.23E-02	1.16E-02	1.70E-02
5144	495863.09	3864377.25	0.00118	0.00173	0.0008	0.00205	0.001	0.002	0.0017	0.00173	0.01231185	0.003195181	8.328E-08	1.08E-04	5.16E-04	2.50E-04	1.23E-02	1.18E-02	1.69E-02
5145	496363.09	3864377.25	0.00118	0.00183	0.00077	0.00197	0.001	0.002	0.0018	0.00183	0.01231185	0.003379874	8.016E-08	1.04E-04	4.92E-04	2.48E-04	1.28E-02	1.24E-02	1.68E-02
5146	496863.09	3864377.25	0.00119	0.00188	0.0008	0.00191	1E-03	0.002	0.0018	0.00188	0.01241619	0.00347222	8.328E-08	1.01E-04	4.64E-04	2.45E-04	1.30E-02	1.28E-02	1.70E-02
5147	497363.09	3864377.25	0.00119	0.00205	0.00085	0.00189	1E-03	0.002	0.002	0.00205	0.01241619	0.003786198	8.849E-08	9.96E-05	4.60E-04	2.45E-04	1.42E-02	1.39E-02	1.73E-02
5148	497863.09	3864377.25	0.00121	0.00208	0.00091	0.00191	0.001	0.002	0.0021	0.00208	0.01262486	0.003841605	9.474E-08	1.01E-04	4.97E-04	2.46E-04	1.45E-02	1.41E-02	1.77E-02
5149	498363.09	3864377.25	0.00118	0.0022	0.00089	0.00187	0.001	0.002	0.0022	0.0022	0.01231185	0.004063236	9.265E-08	9.85E-05	5.25E-04	2.39E-04	1.54E-02	1.50E-02	1.77E-02
5150	471363.09	3864877.25	0.00096	0.00079	0.00059	0.00084	0.001	0.001	0.0008	0.00079	0.01001642	0.001459071	6.142E-08	4.42E-05	4.74E-04	1.42E-04	5.46E-03	5.37E-03	1.22E-02
5151	471863.09	3864877.25	0.00097	0.0008	0.0006	0.00087	1E-03	0.001	0.0008	0.0008	0.01012076	0.001477541	6.246E-08	4.58E-05	4.60E-04	1.46E-04	5.53E-03	5.44E-03	1.23E-02
5152	472363.09	3864877.25	0.00098	0.00081	0.0006	0.00089	1E-03	0.001	0.0008	0.00081	0.01022509	0.00149601	6.246E-08	4.69E-05	4.50E-04	1.48E-04	5.60E-03	5.51E-03	1.25E-02
5153	472863.09	3864877.25	0.00099	0.00082	0.00061	0.00092	1E-03	0.001	0.0008	0.00082	0.01032943	0.001514479	6.35E-08	4.85E-05	4.50E-04	1.51E-04	5.74E-03	5.58E-03	1.27E-02
5154	473363.09	3864877.25	0.00099	0.00084	0.00063	0.00095	1E-03	0.001	0.0008	0.00084	0.01032943	0.001551418	6.559E-08	5.00E-05	4.50E-04	1.53E-04	5.81E-03	5.71E-03	1.26E-02
5155	473863.09	3864877.25	0.00099	0.00085	0.00066	0.00097	0.001	0.001	0.0008	0.00085	0.01032943	0.001569887	6.871E-08	5.11E-05	4.69E-04	1.56E-04	5.88E-03	5.78E-03	1.27E-02
5156	474363.09	3864877.25	0.00099	0.00086	0.00068	0.001	0.001	0.001	0.0008	0.00086	0.01032943	0.001588356	7.079E-08	5.27E-05	4.92E-04	1.59E-04	5.95E-03	5.85E-03	1.27E-02
5157	474863.09	3864877.25	0.00099	0.00088	0.0007	0.00102	0.001	0.001	0.0009	0.00088	0.01032943	0.001625295	7.287E-08	5.37E-05	5.21E-04	1.62E-04	6.02E-03	5.98E-03	1.27E-02
5158	475363.09	3864877.25	0.00099	0.00089	0.00071	0.00104	0.001	0.001	0.0009	0.00089	0.01032943	0.001643764	7.392E-08	5.48E-05	5.49E-04	1.66E-04	6.16E-03	6.05E-03	1.29E-02

5159	475863.09	3864877.25	0.00099	0.00091	0.00072	0.00105	0.001	0.001	0.0009	0.00091	0.01032943	0.001680702	7.496E-08	5.53E-05	5.72E-04	1.72E-04	6.24E-03	6.19E-03	1.29E-02
5160	476363.09	3864877.25	0.00101	0.00092	0.00074	0.00107	0.001	0.001	0.0009	0.00092	0.01053811	0.001699172	7.704E-08	5.64E-05	5.91E-04	1.76E-04	6.38E-03	6.26E-03	1.32E-02
5161	476863.09	3864877.25	0.00103	0.00094	0.00077	0.0011	0.001	0.001	0.0009	0.00094	0.01074678	0.00173611	8.016E-08	5.79E-05	5.96E-04	1.81E-04	6.45E-03	6.39E-03	1.34E-02
5162	477363.09	3864877.25	0.00104	0.00095	0.00077	0.00112	0.001	0.001	0.0009	0.00095	0.01085112	0.001754579	8.016E-08	5.90E-05	5.86E-04	1.86E-04	6.52E-03	6.46E-03	1.35E-02
5163	477863.09	3864877.25	0.00105	0.00097	0.00077	0.00116	0.001	0.001	0.0009	0.00097	0.01095546	0.001791518	8.016E-08	6.11E-05	5.86E-04	1.89E-04	6.66E-03	6.60E-03	1.36E-02
5164	478363.09	3864877.25	0.00106	0.00098	0.00081	0.0012	0.001	0.001	0.001	0.00098	0.0110598	0.001809987	8.433E-08	6.32E-05	5.96E-04	1.91E-04	6.73E-03	6.66E-03	1.38E-02
5165	478863.09	3864877.25	0.00105	0.001	0.00085	0.00124	0.001	0.001	0.001	0.001	0.01095546	0.001846926	8.849E-08	6.53E-05	5.91E-04	1.93E-04	6.87E-03	6.80E-03	1.37E-02
5166	479363.09	3864877.25	0.00104	0.00102	0.00087	0.00127	0.001	0.001	0.001	0.00102	0.01085112	0.001883864	9.057E-08	6.69E-05	5.58E-04	1.96E-04	7.01E-03	6.94E-03	1.36E-02
5167	479863.09	3864877.25	0.00103	0.00103	0.00087	0.00131	0.001	0.001	0.001	0.00103	0.01074678	0.001902333	9.057E-08	6.90E-05	5.06E-04	1.98E-04	7.09E-03	7.00E-03	1.35E-02
5168	480363.09	3864877.25	0.00101	0.00105	0.00084	0.00134	1E-03	0.001	0.001	0.00105	0.01053811	0.001939272	8.745E-08	7.06E-05	4.50E-04	2.01E-04	7.23E-03	7.14E-03	1.33E-02
5169	480863.09	3864877.25	0.00098	0.00107	0.00077	0.00135	9E-04	0.001	0.0011	0.00107	0.01022509	0.00197621	8.016E-08	7.11E-05	4.08E-04	2.04E-04	7.44E-03	7.28E-03	1.30E-02
5170	481363.09	3864877.25	0.00096	0.0011	0.00075	0.00136	8E-04	0.001	0.0011	0.0011	0.01001642	0.002031618	7.808E-08	7.16E-05	3.94E-04	2.10E-04	7.58E-03	7.48E-03	1.28E-02
5171	481863.09	3864877.25	0.00096	0.00113	0.00081	0.0014	9E-04	0.002	0.0011	0.00113	0.01001642	0.002087026	8.433E-08	7.37E-05	4.08E-04	2.15E-04	7.79E-03	7.68E-03	1.29E-02
5172	482363.09	3864877.25	0.00096	0.00115	0.00085	0.00145	1E-03	0.002	0.0011	0.00115	0.01001642	0.002123965	8.849E-08	7.64E-05	4.60E-04	2.21E-04	7.94E-03	7.82E-03	1.30E-02
5173	482863.09	3864877.25	0.00095	0.00117	0.00092	0.00148	0.001	0.002	0.0011	0.00117	0.00991208	0.002160903	9.578E-08	7.80E-05	5.35E-04	2.24E-04	8.08E-03	7.96E-03	1.30E-02
5174	483363.09	3864877.25	0.00093	0.00119	0.00101	0.00149	0.001	0.002	0.0012	0.00119	0.00970341	0.002197842	1.051E-07	7.85E-05	5.58E-04	2.24E-04	8.22E-03	8.09E-03	1.29E-02
5175	483863.09	3864877.25	0.00088	0.00122	0.00099	0.0015	0.001	0.002	0.0012	0.00122	0.00918172	0.002253249	1.031E-07	7.90E-05	4.92E-04	2.22E-04	8.43E-03	8.30E-03	1.24E-02
5176	484363.09	3864877.25	0.00084	0.00124	0.00087	0.00153	8E-04	0.002	0.0012	0.00124	0.00876437	0.002290188	9.057E-08	8.06E-05	3.85E-04	2.22E-04	8.57E-03	8.43E-03	1.19E-02
5177	484863.09	3864877.25	0.0008	0.00126	0.0008	0.00156	7E-04	0.002	0.0012	0.00126	0.00834702	0.002327126	8.328E-08	8.22E-05	3.19E-04	2.24E-04	8.79E-03	8.57E-03	1.15E-02
5178	485363.09	3864877.25	0.00078	0.00129	0.00076	0.00163	7E-04	0.002	0.0013	0.00129	0.00813834	0.002382534	7.912E-08	8.59E-05	3.09E-04	2.29E-04	9.00E-03	8.77E-03	1.14E-02
5179	485863.09	3864877.25	0.00075	0.00132	0.00076	0.00169	6E-04	0.002	0.0013	0.00132	0.00782533	0.002437942	7.912E-08	8.90E-05	2.63E-04	2.32E-04	9.14E-03	8.98E-03	1.10E-02
5180	486363.09	3864877.25	0.0007	0.00133	0.00093	0.00175	7E-04	0.002	0.0013	0.00133	0.00730364	0.002456411	9.682E-08	9.22E-05	3.05E-04	2.26E-04	9.35E-03	9.04E-03	1.07E-02
5181	486863.09	3864877.25	0.00064	0.00135	0.00094	0.00182	0.001	0.002	0.0013	0.00135	0.00667761	0.00249335	9.786E-08	9.59E-05	4.69E-04	2.26E-04	9.49E-03	9.18E-03	1.03E-02
5182	487363.09	3864877.25	0.00063	0.00138	0.00081	0.0019	9E-04	0.002	0.0014	0.00138	0.00657327	0.002548757	8.433E-08	1.00E-04	4.41E-04	2.24E-04	9.71E-03	9.38E-03	1.02E-02
5183	487863.09	3864877.25	0.00065	0.00141	0.00077	0.00189	6E-04	0.002	0.0014	0.00141	0.00678195	0.002604165	8.016E-08	9.96E-05	3.00E-04	2.24E-04	9.92E-03	9.59E-03	1.03E-02
5184	488363.09	3864877.25	0.00068	0.00146	0.00072	0.00189	5E-04	0.002	0.0014	0.00146	0.00709496	0.002696511	7.496E-08	9.96E-05	2.30E-04	2.18E-04	1.01E-02	9.93E-03	1.05E-02
5185	488863.09	3864877.25	0.00071	0.0015	0.0008	0.00195	4E-04	0.002	0.0015	0.0015	0.00740798	0.002770389	8.328E-08	1.03E-04	1.88E-04	2.17E-04	1.03E-02	1.02E-02	1.08E-02
5186	489363.09	3864877.25	0.00077	0.00153	0.00085	0.00169	5E-04	0.002	0.0015	0.00153	0.008034	0.002825796	8.849E-08	8.90E-05	2.30E-04	2.17E-04	1.05E-02	1.04E-02	1.15E-02
5187	489863.09	3864877.25	0.00087	0.00156	0.00073	0.00157	6E-04	0.002	0.0015	0.00156	0.00907738	0.002881204	7.6E-08	8.27E-05	2.58E-04	2.25E-04	1.07E-02	1.06E-02	1.26E-02
5188	490363.09	3864877.25	0.00102	0.00159	0.00071	0.00169	4E-04	0.002	0.0015	0.00159	0.01064244	0.002936612	7.392E-08	8.90E-05	1.92E-04	2.38E-04	1.09E-02	1.08E-02	1.42E-02
5189	490863.09	3864877.25	0.00127	0.00138	0.00074	0.00158	5E-04	0.002	0.0013	0.00138	0.01325089	0.002548757	7.704E-08	8.32E-05	2.20E-04	2.52E-04	9.42E-03	9.38E-03	1.64E-02
5190	491363.09	3864877.25	0.00128	0.00156	0.00074	0.00171	8E-04	0.002	0.0015	0.00156	0.01335522	0.002881204	7.704E-08	9.01E-05	3.89E-04	2.67E-04	1.08E-02	1.06E-02	1.72E-02
5191	491863.09	3864877.25	0.0013	0.00134	0.00062	0.00157	0.001	0.002	0.0013	0.00134	0.0135639	0.00247488	6.455E-08	8.27E-05	6.24E-04	2.41E-04	9.49E-03	9.11E-03	1.74E-02
5192	492363.09	3864877.25	0.0009	0.00082	0.00049	0.00099	8E-04	0.001	0.0009	0.00082	0.00939039	0.001514479	5.101E-08	5.21E-05	3.52E-04	1.43E-04	6.16E-03	5.58E-03	1.20E-02
5193	492863.09	3864877.25	0.00096	0.00088	0.0005	0.00111	0.001	0.001	0.0009	0.00088	0.01001642	0.001625295	5.205E-08	5.85E-05	4.69E-04	1.55E-04	6.66E-03	5.98E-03	1.30E-02
5194	493363.09	3864877.25	0.00089	0.00086	0.0005	0.00109	1E-03	0.001	0.0009	0.00086	0.00928605	0.001588356	5.205E-08	5.74E-05	4.55E-04	1.46E-04	6.38E-03	5.85E-03	1.21E-02
5195	493863.09	3864877.25	0.00104	0.00113	0.00072	0.00156	0.001	0.001	0.0011	0.00113	0.01085112	0.002087026	7.496E-08	8.22E-05	5.96E-04	2.03E-04	8.08E-03	7.68E-03	1.42E-02
5196	494363.09	3864877.25	0.00103	0.00131	0.00075	0.00166	1E-03	0.002	0.0013	0.00131	0.01074678	0.002419473	7.808E-08	8.74E-05	4.64E-04	2.17E-04	9.00E-03	8.91E-03	1.40E-02
5197	494863.09	3864877.25	0.00104	0.00138	0.00079	0.00162	8E-04	0.002	0.0013	0.00138	0.01085112	0.002548757	8.224E-08	8.53E-05	3.94E-04	2.14E-04	9.35E-03	9.38E-03	1.41E-02
5198	495363.09	3864877.25	0.00104	0.00141	0.0008	0.00166	8E-04	0.002	0.0014	0.00141	0.01085112	0.002604165	8.328E-08	8.74E-05	3.85E-04	2.17E-04	9.92E-03	9.59E-03	1.45E-02
5199	495863.09	3864877.25	0.00103	0.0015	0.00079	0.00175	9E-04	0.002	0.0015	0.0015	0.01074678	0.002770389	8.224E-08	9.22E-05	4.31E-04	2.24E-04	1.07E-02	1.02E-02	1.48E-02
5200	496363.09	3864877.25	0.00105	0.00143	0.00073	0.00172	0.001	0.002	0.0014	0.00143	0.01095546	0.002641104	7.6E-08	9.06E-05	4.69E-04	2.22E-04	1.02E-02	9.72E-03	1.49E-02
5201	496863.09	3864877.25	0.00106	0.00146	0.00068	0.00166	1E-03	0.002	0.0014	0.00146	0.0110598	0.002696511	7.079E-08	8.74E-05	4.55E-04	2.18E-04	1.02E-02	9.93E-03	1.48E-02
5202	497363.09	3864877.25	0.00106	0.00151	0.0007	0.00162	9E-04	0.002	0.0015	0.00151	0.0110598	0.002788858	7.287E-08	8.53E-05	4.22E-04	2.17E-04	1.05E-02	1.03E-02	1.48E-02
5203	497863.09	3864877.25	0.00108	0.00157	0.00075	0.00161	9E-04	0.002	0.0015	0.00157	0.01126847	0.002899673	7.808E-08	8.48E-05	4.13E-04	2.17E-04	1.08E-02	1.07E-02	1.50E-02
5204	498363.09	3864877.25	0.00107	0.0017	0.00079	0.00162	9E-04	0.002	0.0017	0.0017	0.01116413	0.003139774	8.224E-08	8.53E-05	4.31E-04	2.17E-04	1.18E-02	1.16E-02	1.52E-02
5205	471363.09	3865377.25	0.00091	0.00076	0.00057	0.00084	9E-04	1E-03	0.0008	0.00076	0.00949473	0.001403664	5.934E-08	4.42E-05	4.13E-04	1.38E-04	5.31E-03	5.17E-03	1.16E-02
5206	471863.09	3865377.25	0.00091	0.00077	0.00057	0.00086	9E-04	1E-03	0.0008	0.00077	0.00949473	0.001422133	5.934E-08	4.53E-05	4.08E-04	1.39E-04	5.38E-03	5.24E-03	1.17E-02
5207	472363.09	3865377.25	0.00092	0.00079	0.00058	0.00088	9E-04	0.001	0.0008	0.00079	0.00959907	0.001459071	6.038E-08	4.64E-05	4.17E-04	1.41E-04	5.46E-03	5.37E-03	1.17E-02
5208	472863.09	3865377.25	0.00093	0.0008	0.0006	0.0009	9E-04	0.001	0.0008	0.0008	0.00970341	0.001477541	6.246E-08	4.74E-05	4.31E-04	1.43E-04	5.53E-03	5.44E-03	1.19E-02
5209	473363.09	3865377.25	0.00092	0.00081	0.00064	0.00092	1E-03	0.001	0.0008	0.00081	0.00959907	0.00149601	6.663E-08	4.85E-05	4.45E-04	1.45E-04	5.60E-03	5.51E-03	1.18E-02
5210	473863.09	3865377.25	0.00092	0.00082	0.00065	0.00094	0.001	0.001	0.0008	0.00082	0.00959907	0.001514479	6.767E-08	4.95E-05	4.69E-04	1.49E-04	5.67E-03	5.58E-03	1.19E-02
5211	474363.09	3865377.25	0.00092	0.00083	0.00066	0.00095	0.001	0.001	0.0008	0.00083	0.00959907	0.001532948	6.871E-08	5.00E-05	4.97E-04	1.52E-04	5.74E-03	5.64E-03	1.19E-02
5212	474863.09	3865377.25	0.00092	0.00085	0.00067	0.00096	0.001	0.001	0.0008	0.00085	0.00959907	0.001569887	6.975E-08	5.06E-05	5.21E-04	1.55E-04	5.81E-03	5.78E-03	1.19E-02
5213	475363.09	3865377.25	0.00092	0.00086	0.00067	0.00097	0.001	0.001	0.0008	0.00086	0.00959907	0.001588356	6.975E-08	5.11E-05	5.35E-04	1.59E-04	5.95E-03	5.85E-03	1.20E-02
5214	475863.09	3865377.25	0.00093	0.00088	0.00068	0.00099	0.001	0.001	0.0009	0.00088	0.00970341	0.001625295	7.079E-08	5.21E-05	5.44E-04	1.63E-04	6.02E-03	5.98E-03	1.21E-02
5215	476363.09	3865377.25	0.00096	0.00089	0.0007	0.00103	0.001	0.001	0.0009	0.00089	0.01001642	0.001643764	7.287E-08	5.43E-05	5.53E-04	1.66E-04	6.09E-03	6.05E-03	1.25E-02
5216	476863.09	3865377.25	0.00102	0.00086	0.00066	0.00104	0.001	0.001	0.0009	0.00086	0.01064244	0.001588356	6.871E-08	5.48E-05	5.44E-04	1.65E-04	6.02E-03	5.85E-03	1.32E-02

5217	477363.09	3865377.25	0.00099	0.00092	0.0007	0.0011	0.001	0.001	0.0009	0.00092	0.01032943	0.001699172	7.287E-08	5.79E-05	5.49E-04	1.73E-04	6.38E-03	6.26E-03	1.29E-02
5218	477863.09	3865377.25	0.00097	0.00093	0.00074	0.00112	0.001	0.001	0.0009	0.00093	0.01012076	0.001717641	7.704E-08	5.90E-05	5.49E-04	1.76E-04	6.45E-03	6.32E-03	1.27E-02
5219	478363.09	3865377.25	0.00097	0.00095	0.00079	0.00115	0.001	0.001	0.0009	0.00095	0.01012076	0.001754579	8.224E-08	6.06E-05	5.44E-04	1.79E-04	6.52E-03	6.46E-03	1.27E-02
5220	478863.09	3865377.25	0.00096	0.00096	0.00081	0.00118	0.001	0.001	0.0009	0.00096	0.01001642	0.001773049	8.433E-08	6.22E-05	5.06E-04	1.81E-04	6.66E-03	6.53E-03	1.27E-02
5221	479363.09	3865377.25	0.00094	0.00098	0.00079	0.0012	1E-03	0.001	0.001	0.00098	0.00980774	0.001809987	8.224E-08	6.32E-05	4.55E-04	1.84E-04	6.73E-03	6.66E-03	1.24E-02
5222	479863.09	3865377.25	0.00093	0.00099	0.00078	0.00122	9E-04	0.001	0.001	0.00099	0.00970341	0.001828456	8.12E-08	6.43E-05	4.08E-04	1.86E-04	6.87E-03	6.73E-03	1.23E-02
5223	480363.09	3865377.25	0.00089	0.001	0.00073	0.00123	8E-04	0.001	0.001	0.001	0.00928605	0.001846926	7.6E-08	6.48E-05	3.70E-04	1.87E-04	6.94E-03	6.80E-03	1.19E-02
5224	480863.09	3865377.25	0.00087	0.00102	0.00068	0.00124	8E-04	0.001	0.001	0.00102	0.00907738	0.001883864	7.079E-08	6.53E-05	3.56E-04	1.89E-04	7.09E-03	6.94E-03	1.17E-02
5225	481363.09	3865377.25	0.00086	0.00105	0.0007	0.00126	8E-04	0.001	0.001	0.00105	0.00897304	0.001939272	7.287E-08	6.64E-05	3.61E-04	1.94E-04	7.23E-03	7.14E-03	1.16E-02
5226	481863.09	3865377.25	0.00085	0.00107	0.00078	0.00131	9E-04	0.001	0.001	0.00107	0.0088687	0.00197621	8.12E-08	6.90E-05	3.99E-04	1.98E-04	7.37E-03	7.28E-03	1.16E-02
5227	482363.09	3865377.25	0.00085	0.00108	0.00085	0.00134	1E-03	0.001	0.0011	0.00108	0.0088687	0.00199468	8.849E-08	7.06E-05	4.60E-04	2.00E-04	7.44E-03	7.34E-03	1.17E-02
5228	482863.09	3865377.25	0.00084	0.0011	0.00089	0.00134	0.001	0.001	0.0011	0.0011	0.00876437	0.002031618	9.265E-08	7.06E-05	5.06E-04	2.01E-04	7.58E-03	7.48E-03	1.17E-02
5229	483363.09	3865377.25	0.00082	0.00112	0.00091	0.00134	0.001	0.001	0.0011	0.00112	0.00855569	0.002068557	9.474E-08	7.06E-05	4.88E-04	2.01E-04	7.72E-03	7.62E-03	1.15E-02
5230	483863.09	3865377.25	0.00078	0.00113	0.00087	0.00136	9E-04	0.001	0.0011	0.00113	0.00813834	0.002087026	9.057E-08	7.16E-05	3.99E-04	2.03E-04	7.86E-03	7.68E-03	1.11E-02
5231	484363.09	3865377.25	0.00075	0.00115	0.00076	0.00138	7E-04	0.001	0.0011	0.00115	0.00782533	0.002123965	7.912E-08	7.27E-05	3.09E-04	2.04E-04	8.01E-03	7.82E-03	1.07E-02
5232	484863.09	3865377.25	0.00072	0.00117	0.00072	0.00142	6E-04	0.001	0.0012	0.00117	0.00751231	0.002160903	7.496E-08	7.48E-05	2.86E-04	2.07E-04	8.15E-03	7.96E-03	1.04E-02
5233	485363.09	3865377.25	0.00069	0.00119	0.00071	0.00147	6E-04	0.001	0.0012	0.00119	0.0071993	0.002197842	7.392E-08	7.74E-05	2.77E-04	2.10E-04	8.29E-03	8.09E-03	1.02E-02
5234	485863.09	3865377.25	0.00066	0.00121	0.00076	0.00152	5E-04	0.001	0.0012	0.00121	0.00688629	0.00223478	7.912E-08	8.01E-05	2.30E-04	2.10E-04	8.43E-03	8.23E-03	9.84E-03
5235	486363.09	3865377.25	0.00062	0.00123	0.00086	0.00159	6E-04	0.001	0.0012	0.00123	0.00646894	0.002271719	8.953E-08	8.38E-05	3.00E-04	2.05E-04	8.57E-03	8.36E-03	9.54E-03
5236	486863.09	3865377.25	0.00057	0.00124	0.00083	0.00162	1E-03	0.001	0.0012	0.00124	0.00594725	0.002290188	8.641E-08	8.53E-05	4.55E-04	2.05E-04	8.71E-03	8.43E-03	9.27E-03
5237	487363.09	3865377.25	0.00056	0.00126	0.00072	0.00163	9E-04	0.001	0.0013	0.00126	0.00584291	0.002327126	7.496E-08	8.59E-05	4.03E-04	2.01E-04	8.86E-03	8.57E-03	9.15E-03
5238	487863.09	3865377.25	0.00057	0.00128	0.00069	0.00161	6E-04	0.001	0.0013	0.00128	0.00594725	0.002364065	7.183E-08	8.48E-05	2.72E-04	2.01E-04	9.00E-03	8.70E-03	9.16E-03
5239	488363.09	3865377.25	0.00058	0.00131	0.00063	0.00154	5E-04	0.001	0.0013	0.00131	0.00605159	0.002419473	6.559E-08	8.11E-05	2.16E-04	1.94E-04	9.14E-03	8.91E-03	9.19E-03
5240	488863.09	3865377.25	0.00061	0.00135	0.00075	0.00169	4E-04	0.001	0.0013	0.00135	0.0063646	0.00249335	7.808E-08	8.90E-05	1.69E-04	1.91E-04	9.35E-03	9.18E-03	9.48E-03
5241	489363.09	3865377.25	0.00066	0.00139	0.0008	0.00144	4E-04	0.001	0.0014	0.00139	0.00688629	0.002567227	8.328E-08	7.59E-05	1.97E-04	1.91E-04	9.57E-03	9.45E-03	1.00E-02
5242	489863.09	3865377.25	0.00075	0.00141	0.00069	0.00131	5E-04	0.001	0.0014	0.00141	0.00782533	0.002604165	7.183E-08	6.90E-05	2.44E-04	2.00E-04	9.71E-03	9.59E-03	1.11E-02
5243	490363.09	3865377.25	0.00093	0.00127	0.00059	0.00132	4E-04	0.001	0.0012	0.00127	0.00970341	0.002345596	6.142E-08	6.95E-05	2.06E-04	2.08E-04	8.71E-03	8.64E-03	1.26E-02
5244	490863.09	3865377.25	0.00109	0.00123	0.00063	0.00133	4E-04	0.002	0.0012	0.00123	0.01137281	0.002271719	6.559E-08	7.01E-05	1.74E-04	2.22E-04	8.36E-03	8.36E-03	1.41E-02
5245	491363.09	3865377.25	0.00121	0.00121	0.00068	0.00129	6E-04	0.002	0.0012	0.00121	0.01262486	0.00223478	7.079E-08	6.79E-05	2.72E-04	2.28E-04	8.22E-03	8.23E-03	1.54E-02
5246	491863.09	3865377.25	0.00123	0.00121	0.00056	0.00133	1E-03	0.002	0.0012	0.00121	0.01283354	0.00223478	5.83E-08	7.01E-05	4.64E-04	2.25E-04	8.43E-03	8.23E-03	1.60E-02
5247	492363.09	3865377.25	0.00119	0.00102	0.00055	0.00122	0.001	0.001	0.0011	0.00102	0.01241619	0.001883864	5.726E-08	6.43E-05	6.38E-04	1.86E-04	7.44E-03	6.94E-03	1.57E-02
5248	492863.09	3865377.25	0.00101	0.00086	0.00055	0.00107	0.001	0.001	0.0009	0.00086	0.01053811	0.001588356	5.726E-08	5.64E-05	5.67E-04	1.55E-04	6.52E-03	5.85E-03	1.36E-02
5249	493363.09	3865377.25	0.00082	0.00078	0.00045	0.00097	9E-04	9E-04	0.0008	0.00078	0.00855569	0.001440602	4.685E-08	5.11E-05	4.13E-04	1.32E-04	5.88E-03	5.30E-03	1.12E-02
5250	493863.09	3865377.25	0.00089	0.00088	0.00055	0.0012	0.001	0.001	0.0009	0.00088	0.00928605	0.001625295	5.726E-08	6.32E-05	5.49E-04	1.62E-04	6.59E-03	5.98E-03	1.23E-02
5251	494363.09	3865377.25	0.00092	0.00102	0.00066	0.00138	0.001	0.001	0.001	0.00102	0.00959907	0.001883864	6.871E-08	7.27E-05	5.21E-04	1.84E-04	7.23E-03	6.94E-03	1.26E-02
5252	494863.09	3865377.25	0.00092	0.00113	0.00068	0.00141	9E-04	0.001	0.0011	0.00113	0.00959907	0.002087026	7.079E-08	7.43E-05	4.03E-04	1.91E-04	7.72E-03	7.68E-03	1.24E-02
5253	495363.09	3865377.25	0.00093	0.00118	0.00071	0.00138	8E-04	0.001	0.0011	0.00118	0.00970341	0.002179372	7.392E-08	7.27E-05	3.52E-04	1.91E-04	8.01E-03	8.02E-03	1.25E-02
5254	495863.09	3865377.25	0.00092	0.00125	0.00074	0.00142	7E-04	0.001	0.0012	0.00125	0.00959907	0.002308657	7.704E-08	7.48E-05	3.47E-04	1.94E-04	8.79E-03	8.50E-03	1.28E-02
5255	496363.09	3865377.25	0.00094	0.00116	0.00071	0.00145	8E-04	0.001	0.0012	0.00116	0.00980774	0.002142434	7.392E-08	7.64E-05	3.94E-04	1.96E-04	8.43E-03	7.89E-03	1.32E-02
5256	496863.09	3865377.25	0.00095	0.00113	0.00066	0.00146	9E-04	0.001	0.0012	0.00113	0.00991208	0.002087026	6.871E-08	7.69E-05	4.31E-04	1.96E-04	8.22E-03	7.68E-03	1.32E-02
5257	497363.09	3865377.25	0.00095	0.00124	0.00062	0.00142	9E-04	0.001	0.0012	0.00124	0.00991208	0.002290188	6.455E-08	7.48E-05	4.22E-04	1.97E-04	8.71E-03	8.43E-03	1.32E-02
5258	497863.09	3865377.25	0.00096	0.00127	0.00062	0.00138	8E-04	0.001	0.0012	0.00127	0.01001642	0.002345596	6.455E-08	7.27E-05	3.89E-04	1.94E-04	8.79E-03	8.64E-03	1.32E-02
5259	498363.09	3865377.25	0.00098	0.00125	0.00063	0.00136	8E-04	0.001	0.0012	0.00125	0.01022509	0.002308657	6.559E-08	7.16E-05	3.80E-04	1.91E-04	8.57E-03	8.50E-03	1.33E-02
5260	471363.09	3865877.25	0.00086	0.00074	0.00055	0.00082	8E-04	9E-04	0.0007	0.00074	0.00897304	0.001366725	5.726E-08	4.32E-05	3.85E-04	1.31E-04	5.10E-03	5.03E-03	1.10E-02
5261	471863.09	3865877.25	0.00086	0.00075	0.00056	0.00084	8E-04	9E-04	0.0007	0.00075	0.00897304	0.001385194	5.83E-08	4.42E-05	3.94E-04	1.32E-04	5.17E-03	5.10E-03	1.10E-02
5262	472363.09	3865877.25	0.00087	0.00076	0.00059	0.00086	9E-04	1E-03	0.0008	0.00076	0.00907738	0.001403664	6.142E-08	4.53E-05	4.13E-04	1.34E-04	5.31E-03	5.17E-03	1.12E-02
5263	472863.09	3865877.25	0.00086	0.00078	0.00061	0.00087	9E-04	1E-03	0.0008	0.00078	0.00897304	0.001440602	6.35E-08	4.58E-05	4.31E-04	1.36E-04	5.38E-03	5.30E-03	1.11E-02
5264	473363.09	3865877.25	0.00086	0.00079	0.00062	0.00087	1E-03	1E-03	0.0008	0.00079	0.00897304	0.001459071	6.455E-08	4.58E-05	4.50E-04	1.39E-04	5.46E-03	5.37E-03	1.12E-02
5265	473863.09	3865877.25	0.00086	0.0008	0.00063	0.00088	0.001	0.001	0.0008	0.0008	0.00897304	0.001477541	6.559E-08	4.64E-05	4.74E-04	1.42E-04	5.53E-03	5.44E-03	1.12E-02
5266	474363.09	3865877.25	0.00086	0.00081	0.00062	0.00089	0.001	0.001	0.0008	0.00081	0.00897304	0.00149601	6.455E-08	4.69E-05	4.92E-04	1.45E-04	5.60E-03	5.51E-03	1.12E-02
5267	474863.09	3865877.25	0.00086	0.00082	0.00062	0.00091	0.001	0.001	0.0008	0.00082	0.00897304	0.001514479	6.455E-08	4.79E-05	5.02E-04	1.48E-04	5.67E-03	5.58E-03	1.13E-02
5268	475363.09	3865877.25	0.00086	0.00084	0.00062	0.00093	0.001	0.001	0.0008	0.00084	0.00897304	0.001551418	6.455E-08	4.90E-05	5.02E-04	1.51E-04	5.74E-03	5.71E-03	1.13E-02
5269	475863.09	3865877.25	0.00087	0.00085	0.00064	0.00095	0.001	0.001	0.0008	0.00085	0.00907738	0.001569887	6.663E-08	5.00E-05	4.92E-04	1.55E-04	5.88E-03	5.78E-03	1.14E-02
5270	476363.09	3865877.25	0.00092	0.00085	0.00063	0.00099	0.001	0.001	0.0008	0.00085	0.00959907	0.001569887	6.559E-08	5.21E-05	5.11E-04	1.58E-04	5.95E-03	5.78E-03	1.21E-02
5271	476863.09	3865877.25	0.00095	0.00084	0.00059	0.00101	0.001	0.001	0.0008	0.00084	0.00991208	0.001551418	6.142E-08	5.32E-05	5.06E-04	1.56E-04	5.88E-03	5.71E-03	1.23E-02
5272	477363.09	3865877.25	0.00092	0.00089	0.00067	0.00106	0.001	0.001	0.0009	0.00089	0.00959907	0.001643764	6.975E-08	5.58E-05	5.25E-04	1.63E-04	6.16E-03	6.05E-03	1.21E-02
5273	477863.09	3865877.25	0.0009	0.0009	0.00074	0.00108	0.001	0.001	0.0009	0.0009	0.00939039	0.001662233	7.704E-08	5.69E-05	5.02E-04	1.67E-04	6.24E-03	6.12E-03	1.19E-02
5274	478363.09	3865877.25	0.00089	0.00091	0.00076	0.0011	0.001	0.001	0.0009	0.00091	0.00928605	0.001680702	7.912E-08	5.79E-05	4.69E-04	1.69E-04	6.31E-03	6.19E-03	1.18E-02

5275	478863.09	3865877.25	0.00087	0.00092	0.00073	0.00111	9E-04	0.001	0.0009	0.00092	0.00907738	0.001699172	7.6E-08	5.85E-05	4.17E-04	1.72E-04	6.38E-03	6.26E-03	1.15E-02
5276	479363.09	3865877.25	0.00086	0.00093	0.00072	0.00112	8E-04	0.001	0.0009	0.00093	0.00897304	0.001717641	7.496E-08	5.90E-05	3.75E-04	1.73E-04	6.45E-03	6.32E-03	1.14E-02
5277	479863.09	3865877.25	0.00083	0.00094	0.0007	0.00113	7E-04	0.001	0.0009	0.00094	0.00866003	0.00173611	7.287E-08	5.95E-05	3.42E-04	1.73E-04	6.52E-03	6.39E-03	1.11E-02
5278	480363.09	3865877.25	0.0008	0.00095	0.00064	0.00114	7E-04	0.001	0.0009	0.00095	0.00834702	0.001754579	6.663E-08	6.00E-05	3.24E-04	1.73E-04	6.59E-03	6.46E-03	1.08E-02
5279	480863.09	3865877.25	0.00077	0.00097	0.00063	0.00116	7E-04	0.001	0.0009	0.00097	0.008034	0.001791518	6.559E-08	6.11E-05	3.28E-04	1.74E-04	6.66E-03	6.60E-03	1.05E-02
5280	481363.09	3865877.25	0.00076	0.00099	0.00069	0.00119	8E-04	0.001	0.001	0.00099	0.00792966	0.001828456	7.183E-08	6.27E-05	3.52E-04	1.77E-04	6.80E-03	6.73E-03	1.04E-02
5281	481863.09	3865877.25	0.00076	0.001	0.00078	0.00121	9E-04	0.001	0.001	0.001	0.00792966	0.001846926	8.12E-08	6.37E-05	3.99E-04	1.81E-04	6.87E-03	6.80E-03	1.05E-02
5282	482363.09	3865877.25	0.00076	0.00101	0.00083	0.00121	1E-03	0.001	0.001	0.00101	0.00792966	0.001865395	8.641E-08	6.37E-05	4.55E-04	1.83E-04	7.01E-03	6.87E-03	1.06E-02
5283	482863.09	3865877.25	0.00075	0.00102	0.00081	0.00121	1E-03	0.001	0.001	0.00102	0.00782533	0.001883864	8.433E-08	6.37E-05	4.64E-04	1.84E-04	7.09E-03	6.94E-03	1.06E-02
5284	483363.09	3865877.25	0.00073	0.00104	0.00082	0.00121	9E-04	0.001	0.001	0.00104	0.00761665	0.001920803	8.537E-08	6.37E-05	4.08E-04	1.86E-04	7.23E-03	7.07E-03	1.04E-02
5285	483863.09	3865877.25	0.0007	0.00106	0.00077	0.00123	7E-04	0.001	0.001	0.00106	0.00730364	0.001957741	8.016E-08	6.48E-05	3.24E-04	1.89E-04	7.37E-03	7.21E-03	1.00E-02
5286	484363.09	3865877.25	0.00068	0.00107	0.00069	0.00126	6E-04	0.001	0.0011	0.00107	0.00709496	0.00197621	7.183E-08	6.64E-05	2.63E-04	1.90E-04	7.44E-03	7.28E-03	9.75E-03
5287	484863.09	3865877.25	0.00064	0.00109	0.00067	0.0013	6E-04	0.001	0.0011	0.00109	0.00667761	0.002013149	6.975E-08	6.85E-05	2.63E-04	1.90E-04	7.58E-03	7.41E-03	9.38E-03
5288	485363.09	3865877.25	0.0006	0.0011	0.00068	0.00134	5E-04	0.001	0.0011	0.0011	0.00626026	0.002031618	7.079E-08	7.06E-05	2.39E-04	1.90E-04	7.65E-03	7.48E-03	8.96E-03
5289	485863.09	3865877.25	0.00058	0.00112	0.00072	0.0014	4E-04	0.001	0.0011	0.00112	0.00605159	0.002068557	7.496E-08	7.37E-05	2.02E-04	1.89E-04	7.79E-03	7.62E-03	8.76E-03
5290	486363.09	3865877.25	0.00055	0.00113	0.00079	0.00143	7E-04	0.001	0.0011	0.00113	0.00573857	0.002087026	8.224E-08	7.53E-05	3.05E-04	1.86E-04	7.86E-03	7.68E-03	8.57E-03
5291	486863.09	3865877.25	0.00052	0.00114	0.00074	0.00143	9E-04	0.001	0.0011	0.00114	0.00542556	0.002105495	7.704E-08	7.53E-05	4.36E-04	1.87E-04	8.01E-03	7.75E-03	8.48E-03
5292	487363.09	3865877.25	0.00051	0.00116	0.00065	0.00144	8E-04	0.001	0.0012	0.00116	0.00532122	0.002142434	6.767E-08	7.59E-05	3.66E-04	1.84E-04	8.15E-03	7.89E-03	8.35E-03
5293	487863.09	3865877.25	0.00051	0.00118	0.00062	0.00136	5E-04	0.001	0.0012	0.00118	0.00532122	0.002179372	6.455E-08	7.16E-05	2.49E-04	1.81E-04	8.29E-03	8.02E-03	8.27E-03
5294	488363.09	3865877.25	0.00051	0.00121	0.00057	0.00135	4E-04	0.001	0.0012	0.00121	0.00532122	0.00223478	5.934E-08	7.11E-05	2.02E-04	1.73E-04	8.43E-03	8.23E-03	8.21E-03
5295	488863.09	3865877.25	0.00053	0.00124	0.0007	0.0015	3E-04	0.001	0.0012	0.00124	0.0055299	0.002290188	7.287E-08	7.90E-05	1.59E-04	1.72E-04	8.64E-03	8.43E-03	8.44E-03
5296	489363.09	3865877.25	0.00058	0.00127	0.00075	0.00127	4E-04	0.001	0.0012	0.00127	0.00605159	0.002345596	7.808E-08	6.69E-05	1.74E-04	1.74E-04	8.71E-03	8.64E-03	8.89E-03
5297	489863.09	3865877.25	0.00065	0.00128	0.00066	0.00116	5E-04	0.001	0.0012	0.00128	0.00678195	0.002364065	6.871E-08	6.11E-05	2.25E-04	1.80E-04	8.79E-03	8.70E-03	9.69E-03
5298	490363.09	3865877.25	0.00076	0.00123	0.00059	0.00119	4E-04	0.001	0.0012	0.00123	0.00792966	0.002271719	6.142E-08	6.27E-05	2.06E-04	1.87E-04	8.50E-03	8.36E-03	1.08E-02
5299	490863.09	3865877.25	0.00092	0.00115	0.00055	0.0012	3E-04	0.001	0.0011	0.00115	0.00959907	0.002123965	5.726E-08	6.32E-05	1.50E-04	2.00E-04	7.86E-03	7.82E-03	1.22E-02
5300	491363.09	3865877.25	0.00107	0.00107	0.00063	0.00111	4E-04	0.001	0.001	0.00107	0.01116413	0.00197621	6.559E-08	5.85E-05	1.69E-04	2.00E-04	7.30E-03	7.28E-03	1.36E-02
5301	491863.09	3865877.25	0.00115	0.00107	0.00055	0.00113	7E-04	0.001	0.001	0.00107	0.01199883	0.00197621	5.726E-08	5.95E-05	3.14E-04	2.01E-04	7.37E-03	7.28E-03	1.46E-02
5302	492363.09	3865877.25	0.00114	0.00101	0.0005	0.00115	0.001	0.001	0.001	0.00101	0.0118945	0.001865395	5.205E-08	6.06E-05	5.11E-04	1.90E-04	7.16E-03	6.87E-03	1.48E-02
5303	492863.09	3865877.25	0.00104	0.00083	0.00052	0.00101	0.001	0.001	0.0009	0.00083	0.01085112	0.001532948	5.414E-08	5.32E-05	5.58E-04	1.51E-04	6.16E-03	5.64E-03	1.37E-02
5304	493363.09	3865877.25	0.0009	0.00079	0.0005	0.00102	0.001	0.001	0.0009	0.00079	0.00939039	0.001459071	5.205E-08	5.37E-05	5.25E-04	1.41E-04	6.02E-03	5.37E-03	1.22E-02
5305	493863.09	3865877.25	0.00083	0.00083	0.00049	0.00113	0.001	0.001	0.0009	0.00083	0.00866003	0.001532948	5.101E-08	5.95E-05	4.97E-04	1.53E-04	6.31E-03	5.64E-03	1.16E-02
5306	494363.09	3865877.25	0.00083	0.00089	0.00057	0.00124	0.001	0.001	0.0009	0.00089	0.00866003	0.001643764	5.934E-08	6.53E-05	5.35E-04	1.63E-04	6.59E-03	6.05E-03	1.16E-02
5307	494863.09	3865877.25	0.00082	0.00101	0.00063	0.00131	1E-03	0.001	0.001	0.00101	0.00855569	0.001865395	6.559E-08	6.90E-05	4.55E-04	1.74E-04	7.23E-03	6.87E-03	1.15E-02
5308	495363.09	3865877.25	0.00082	0.00105	0.00063	0.00126	8E-04	0.001	0.001	0.00105	0.00855569	0.001939272	6.559E-08	6.64E-05	3.70E-04	1.77E-04	7.23E-03	7.14E-03	1.12E-02
5309	495863.09	3865877.25	0.00084	0.00105	0.00066	0.0012	7E-04	0.001	0.001	0.00105	0.00876437	0.001939272	6.871E-08	6.32E-05	3.19E-04	1.73E-04	7.09E-03	7.14E-03	1.12E-02
5310	496363.09	3865877.25	0.00085	0.00101	0.00066	0.00118	6E-04	0.001	0.001	0.00101	0.0088687	0.001865395	6.871E-08	6.22E-05	2.95E-04	1.67E-04	7.09E-03	6.87E-03	1.15E-02
5311	496863.09	3865877.25	0.00086	0.00096	0.00064	0.00122	8E-04	0.001	0.001	0.00096	0.00897304	0.001773049	6.663E-08	6.43E-05	3.52E-04	1.69E-04	7.01E-03	6.53E-03	1.18E-02
5312	497363.09	3865877.25	0.00086	0.00098	0.00062	0.00127	8E-04	0.001	0.001	0.00098	0.00897304	0.001809987	6.455E-08	6.69E-05	3.94E-04	1.74E-04	7.23E-03	6.66E-03	1.20E-02
5313	497863.09	3865877.25	0.00087	0.00103	0.00057	0.00124	8E-04	0.001	0.001	0.00103	0.00907738	0.001902333	5.934E-08	6.53E-05	3.94E-04	1.76E-04	7.37E-03	7.00E-03	1.20E-02
5314	498363.09	3865877.25	0.00089	0.00097	0.00051	0.00114	8E-04	0.001	0.001	0.00097	0.00928605	0.001791518	5.309E-08	6.00E-05	3.66E-04	1.73E-04	6.73E-03	6.60E-03	1.18E-02
5315	471363.09	3866377.25	0.00081	0.00072	0.00055	0.0008	8E-04	9E-04	0.0007	0.00072	0.00845135	0.001329786	5.726E-08	4.21E-05	3.80E-04	1.25E-04	5.03E-03	4.90E-03	1.05E-02
5316	471863.09	3866377.25	0.00081	0.00073	0.00057	0.00081	9E-04	9E-04	0.0007	0.00073	0.00845135	0.001348256	5.934E-08	4.27E-05	3.99E-04	1.27E-04	5.10E-03	4.96E-03	1.05E-02
5317	472363.09	3866377.25	0.00081	0.00075	0.00059	0.00082	9E-04	9E-04	0.0007	0.00075	0.00845135	0.001385194	6.142E-08	4.32E-05	4.17E-04	1.28E-04	5.17E-03	5.10E-03	1.05E-02
5318	472863.09	3866377.25	0.0008	0.00076	0.00059	0.00082	9E-04	9E-04	0.0007	0.00076	0.00834702	0.001403664	6.142E-08	4.32E-05	4.31E-04	1.31E-04	5.24E-03	5.17E-03	1.04E-02
5319	473363.09	3866377.25	0.0008	0.00077	0.00059	0.00083	1E-03	1E-03	0.0008	0.00077	0.00834702	0.001422133	6.142E-08	4.37E-05	4.50E-04	1.34E-04	5.31E-03	5.24E-03	1.05E-02
5320	473863.09	3866377.25	0.0008	0.00078	0.00058	0.00084	1E-03	1E-03	0.0008	0.00078	0.00834702	0.001440602	6.038E-08	4.42E-05	4.64E-04	1.35E-04	5.38E-03	5.30E-03	1.05E-02
5321	474363.09	3866377.25	0.0008	0.00079	0.00057	0.00085	0.001	1E-03	0.0008	0.00079	0.00834702	0.001459071	5.934E-08	4.48E-05	4.69E-04	1.38E-04	5.46E-03	5.37E-03	1.05E-02
5322	474863.09	3866377.25	0.0008	0.0008	0.00057	0.00087	1E-03	0.001	0.0008	0.0008	0.00834702	0.001477541	5.934E-08	4.58E-05	4.64E-04	1.41E-04	5.53E-03	5.44E-03	1.06E-02
5323	475363.09	3866377.25	0.0008	0.00081	0.00058	0.0009	1E-03	0.001	0.0008	0.00081	0.00834702	0.00149601	6.038E-08	4.74E-05	4.55E-04	1.45E-04	5.60E-03	5.51E-03	1.06E-02
5324	475863.09	3866377.25	0.00081	0.00082	0.0006	0.00093	1E-03	0.001	0.0008	0.00082	0.00845135	0.001514479	6.246E-08	4.90E-05	4.50E-04	1.48E-04	5.67E-03	5.58E-03	1.07E-02
5325	476363.09	3866377.25	0.00085	0.00083	0.00061	0.00097	0.001	0.001	0.0008	0.00083	0.0088687	0.001532948	6.35E-08	5.11E-05	4.83E-04	1.51E-04	5.74E-03	5.64E-03	1.12E-02
5326	476863.09	3866377.25	0.00089	0.00079	0.00056	0.00098	0.001	0.001	0.0008	0.00079	0.00928605	0.001459071	5.83E-08	5.16E-05	4.88E-04	1.48E-04	5.53E-03	5.37E-03	1.16E-02
5327	477363.09	3866377.25	0.00087	0.00083	0.00065	0.00102	0.001	0.001	0.0008	0.00083	0.00907738	0.001532948	6.767E-08	5.37E-05	4.88E-04	1.56E-04	5.81E-03	5.64E-03	1.15E-02
5328	477863.09	3866377.25	0.00084	0.00086	0.00072	0.00103	9E-04	0.001	0.0008	0.00086	0.00876437	0.001588356	7.496E-08	5.43E-05	4.36E-04	1.60E-04	5.95E-03	5.85E-03	1.11E-02
5329	478363.09	3866377.25	0.00081	0.00086	0.00069	0.00104	8E-04	0.001	0.0008	0.00086	0.00845135	0.001588356	7.183E-08	5.48E-05	3.85E-04	1.59E-04	5.95E-03	5.85E-03	1.07E-02
5330	478863.09	3866377.25	0.0008	0.00087	0.00066	0.00104	7E-04	0.001	0.0009	0.00087	0.00834702	0.001606825	6.871E-08	5.48E-05	3.42E-04	1.60E-04	6.02E-03	5.92E-03	1.06E-02
5331	479363.09	3866377.25	0.00078	0.00088	0.00065	0.00105	7E-04	0.001	0.0009	0.00088	0.00813834	0.001625295	6.767E-08	5.53E-05	3.14E-04	1.60E-04	6.09E-03	5.98E-03	1.04E-02
5332	479863.09	3866377.25	0.00075	0.00089	0.00063	0.00107	6E-04	0.001	0.0009	0.00089	0.00782533	0.001643764	6.559E-08	5.64E-05	3.00E-04	1.60E-04	6.16E-03	6.05E-03	1.01E-02

5333	480363.09	3866377.25	0.00072	0.0009	0.0006	0.00109	6E-04	0.001	0.0009	0.0009	0.00751231	0.001662233	6.246E-08	5.74E-05	3.00E-04	1.60E-04	6.24E-03	6.12E-03	9.81E-03
5334	480863.09	3866377.25	0.00069	0.00091	0.00062	0.0011	7E-04	0.001	0.0009	0.00091	0.0071993	0.001680702	6.455E-08	5.79E-05	3.14E-04	1.62E-04	6.31E-03	6.19E-03	9.53E-03
5335	481363.09	3866377.25	0.00069	0.00093	0.0007	0.0011	8E-04	0.001	0.0009	0.00093	0.0071993	0.001717641	7.287E-08	5.79E-05	3.52E-04	1.65E-04	6.45E-03	6.32E-03	9.62E-03
5336	481863.09	3866377.25	0.00069	0.00094	0.00077	0.0011	9E-04	0.001	0.0009	0.00094	0.0071993	0.00173611	8.016E-08	5.79E-05	4.03E-04	1.67E-04	6.52E-03	6.39E-03	9.69E-03
5337	482363.09	3866377.25	0.00069	0.00095	0.00076	0.00109	9E-04	0.001	0.0009	0.00095	0.0071993	0.001754579	7.912E-08	5.74E-05	4.31E-04	1.70E-04	6.59E-03	6.46E-03	9.74E-03
5338	482863.09	3866377.25	0.00068	0.00096	0.00074	0.0011	9E-04	0.001	0.0009	0.00096	0.00709496	0.001773049	7.704E-08	5.79E-05	4.03E-04	1.72E-04	6.66E-03	6.53E-03	9.63E-03
5339	483363.09	3866377.25	0.00066	0.00098	0.00074	0.00111	7E-04	0.001	0.001	0.00098	0.00688629	0.001809987	7.704E-08	5.85E-05	3.38E-04	1.74E-04	6.80E-03	6.66E-03	9.40E-03
5340	483863.09	3866377.25	0.00064	0.00099	0.00069	0.00113	6E-04	0.001	0.001	0.00099	0.00667761	0.001828456	7.183E-08	5.95E-05	2.63E-04	1.76E-04	6.87E-03	6.73E-03	9.15E-03
5341	484363.09	3866377.25	0.00062	0.00099	0.00064	0.00117	5E-04	0.001	0.001	0.00099	0.00646894	0.001828456	6.663E-08	6.16E-05	2.34E-04	1.76E-04	6.94E-03	6.73E-03	8.98E-03
5342	484863.09	3866377.25	0.00058	0.001	0.00065	0.00121	5E-04	0.001	0.001	0.001	0.00605159	0.001846926	6.767E-08	6.37E-05	2.44E-04	1.74E-04	7.01E-03	6.80E-03	8.60E-03
5343	485363.09	3866377.25	0.00053	0.00102	0.00065	0.00125	4E-04	0.001	0.001	0.00102	0.0055299	0.001883864	6.767E-08	6.58E-05	2.06E-04	1.73E-04	7.09E-03	6.94E-03	8.01E-03
5344	485863.09	3866377.25	0.00052	0.00104	0.00067	0.00127	4E-04	0.001	0.001	0.00104	0.00542556	0.001920803	6.975E-08	6.69E-05	1.88E-04	1.72E-04	7.23E-03	7.07E-03	7.93E-03
5345	486363.09	3866377.25	0.0005	0.00105	0.00072	0.00128	7E-04	0.001	0.001	0.00105	0.00521688	0.001939272	7.496E-08	6.74E-05	3.09E-04	1.72E-04	7.37E-03	7.14E-03	7.93E-03
5346	486863.09	3866377.25	0.00048	0.00107	0.00066	0.0013	9E-04	0.001	0.0011	0.00107	0.00500821	0.00197621	6.871E-08	6.85E-05	4.17E-04	1.72E-04	7.51E-03	7.28E-03	7.88E-03
5347	487363.09	3866377.25	0.00049	0.00109	0.00063	0.00128	7E-04	0.001	0.0011	0.00109	0.00511255	0.002013149	6.559E-08	6.74E-05	3.47E-04	1.72E-04	7.65E-03	7.41E-03	7.95E-03
5348	487863.09	3866377.25	0.00048	0.00109	0.00058	0.00117	5E-04	0.001	0.0011	0.00109	0.00500821	0.002013149	6.038E-08	6.16E-05	2.39E-04	1.65E-04	7.65E-03	7.41E-03	7.73E-03
5349	488363.09	3866377.25	0.00046	0.00111	0.00054	0.00121	4E-04	0.001	0.0011	0.00111	0.00479953	0.002050087	5.622E-08	6.37E-05	1.92E-04	1.58E-04	7.72E-03	7.55E-03	7.44E-03
5350	488863.09	3866377.25	0.00048	0.00107	0.00065	0.00134	3E-04	0.001	0.0011	0.00107	0.00500821	0.00197621	6.767E-08	7.06E-05	1.50E-04	1.52E-04	7.51E-03	7.28E-03	7.59E-03
5351	489363.09	3866377.25	0.00053	0.00105	0.0007	0.00111	3E-04	0.001	0.001	0.00105	0.0055299	0.001939272	7.287E-08	5.85E-05	1.55E-04	1.52E-04	7.30E-03	7.14E-03	7.99E-03
5352	489863.09	3866377.25	0.0006	0.001	0.00059	0.00094	5E-04	0.001	0.001	0.001	0.00626026	0.001846926	6.142E-08	4.95E-05	2.11E-04	1.52E-04	6.94E-03	6.80E-03	8.66E-03
5353	490363.09	3866377.25	0.00065	0.00112	0.00056	0.00106	4E-04	0.001	0.0011	0.00112	0.00678195	0.002068557	5.83E-08	5.58E-05	2.06E-04	1.66E-04	7.72E-03	7.62E-03	9.39E-03
5354	490863.09	3866377.25	0.00075	0.00115	0.00054	0.00113	3E-04	0.001	0.0011	0.00115	0.00782533	0.002123965	5.622E-08	5.95E-05	1.45E-04	1.80E-04	7.86E-03	7.82E-03	1.04E-02
5355	491363.09	3866377.25	0.00089	0.0011	0.00059	0.00108	3E-04	0.001	0.0011	0.0011	0.00928605	0.002031618	6.142E-08	5.69E-05	1.45E-04	1.90E-04	7.51E-03	7.48E-03	1.17E-02
5356	491863.09	3866377.25	0.00104	0.00092	0.00053	0.00097	4E-04	0.001	0.0009	0.00092	0.01085112	0.001699172	5.518E-08	5.11E-05	2.06E-04	1.76E-04	6.38E-03	6.26E-03	1.31E-02
5357	492363.09	3866377.25	0.00107	0.00093	0.00048	0.00102	8E-04	0.001	0.0009	0.00093	0.01116413	0.001717641	4.997E-08	5.37E-05	3.75E-04	1.80E-04	6.52E-03	6.32E-03	1.37E-02
5358	492863.09	3866377.25	0.00104	0.00085	0.00048	0.00101	0.001	0.001	0.0009	0.00085	0.01085112	0.001569887	4.997E-08	5.32E-05	5.21E-04	1.59E-04	6.16E-03	5.78E-03	1.35E-02
5359	493363.09	3866377.25	0.00094	0.00084	0.00056	0.00105	0.001	0.001	0.0009	0.00084	0.00980774	0.001551418	5.83E-08	5.53E-05	5.96E-04	1.53E-04	6.16E-03	5.71E-03	1.26E-02
5360	493863.09	3866377.25	0.00084	0.00084	0.00053	0.00111	0.001	0.001	0.0009	0.00084	0.00876437	0.001551418	5.518E-08	5.85E-05	5.30E-04	1.55E-04	6.24E-03	5.71E-03	1.16E-02
5361	494363.09	3866377.25	0.00077	0.00089	0.00052	0.0012	0.001	0.001	0.0009	0.00089	0.008034	0.001643764	5.414E-08	6.32E-05	5.06E-04	1.56E-04	6.66E-03	6.05E-03	1.10E-02
5362	494863.09	3866377.25	0.00074	0.00088	0.00056	0.0012	0.001	0.001	0.0009	0.00088	0.00772099	0.001625295	5.83E-08	6.32E-05	4.83E-04	1.55E-04	6.52E-03	5.98E-03	1.06E-02
5363	495363.09	3866377.25	0.00075	0.00086	0.00056	0.00112	9E-04	0.001	0.0009	0.00086	0.00782533	0.001588356	5.83E-08	5.90E-05	4.03E-04	1.53E-04	6.16E-03	5.85E-03	1.03E-02
5364	495863.09	3866377.25	0.00076	0.00086	0.00055	0.00104	7E-04	0.001	0.0008	0.00086	0.00792966	0.001588356	5.726E-08	5.48E-05	3.05E-04	1.53E-04	5.88E-03	5.85E-03	1.01E-02
5365	496363.09	3866377.25	0.00077	0.00088	0.00058	0.001	5E-04	0.001	0.0008	0.00088	0.008034	0.001625295	6.038E-08	5.27E-05	2.44E-04	1.49E-04	5.81E-03	5.98E-03	9.93E-03
5366	496863.09	3866377.25	0.00078	0.00085	0.00058	0.00098	5E-04	0.001	0.0008	0.00085	0.00813834	0.001569887	6.038E-08	5.16E-05	2.39E-04	1.42E-04	5.88E-03	5.78E-03	1.02E-02
5367	497363.09	3866377.25	0.00078	0.00084	0.00058	0.00106	7E-04	0.001	0.0009	0.00084	0.00813834	0.001551418	6.038E-08	5.58E-05	3.09E-04	1.48E-04	6.16E-03	5.71E-03	1.07E-02
5368	497863.09	3866377.25	0.00079	0.00085	0.00056	0.00112	8E-04	0.001	0.0009	0.00085	0.00824268	0.001569887	5.83E-08	5.90E-05	3.85E-04	1.55E-04	6.31E-03	5.78E-03	1.09E-02
5369	498363.09	3866377.25	0.00079	0.00078	0.00048	0.00099	8E-04	0.001	0.0008	0.00078	0.00824268	0.001440602	4.997E-08	5.21E-05	3.94E-04	1.42E-04	5.67E-03	5.30E-03	1.06E-02
5370	474494.92	3848334.16	0.00726	0.30812	0.0005	0.00081	0.001	9E-04	0.3106	0.30812	0.07574916	0.569074738	5.205E-08	4.27E-05	4.83E-04	1.25E-04	2.20E+00	2.10E+00	7.51E-01
5371	475167.27	3848920.79	0.01754	0.36431	0.00054	0.00088	0.001	1E-03	0.3665	0.36431	0.18300831	0.672853492	5.622E-08	4.64E-05	5.30E-04	1.35E-04	2.60E+00	2.48E+00	9.76E-01
5372	475297.89	3848997.96	0.02024	0.28249	0.00055	0.00089	0.001	1E-03	0.2862	0.28249	0.21117949	0.521738033	5.726E-08	4.69E-05	5.35E-04	1.36E-04	2.03E+00	1.92E+00	8.40E-01
5373	475439.05	3849062	0.02405	0.32844	0.00055	0.0009	0.001	1E-03	0.3325	0.32844	0.25093215	0.606604268	5.726E-08	4.74E-05	5.39E-04	1.38E-04	2.36E+00	2.23E+00	9.81E-01
5374	475486.86	3849061.09	0.02112	0.24246	0.00055	0.00089	0.001	1E-03	0.2452	0.24246	0.22036121	0.447805598	5.726E-08	4.69E-05	5.35E-04	1.38E-04	1.74E+00	1.65E+00	7.57E-01
5375	475538.46	3849075.56	0.02181	0.24606	0.00056	0.00089	0.001	1E-03	0.2486	0.24606	0.22756051	0.454454531	5.83E-08	4.69E-05	5.35E-04	1.38E-04	1.76E+00	1.67E+00	7.71E-01
5376	475751.79	3849137.15	0.02163	0.36112	0.00058	0.0009	0.001	0.001	0.3675	0.36112	0.22568243	0.666961799	6.038E-08	4.74E-05	5.35E-04	1.41E-04	2.60E+00	2.46E+00	1.04E+00
5377	476303.62	3849223.38	0.02009	0.32934	0.00065	0.0009	0.001	0.001	0.3313	0.32934	0.20961442	0.608266501	6.767E-08	4.74E-05	5.16E-04	1.41E-04	2.35E+00	2.24E+00	9.27E-01
5378	476304.51	3849238.92	0.02372	0.45696	0.00065	0.00091	0.001	0.001	0.4601	0.45696	0.24748901	0.843971155	6.767E-08	4.79E-05	5.21E-04	1.42E-04	3.26E+00	3.11E+00	1.24E+00
5379	476365.04	3849247.98	0.02226	0.40746	0.00066	0.00091	0.001	0.001	0.412	0.40746	0.2322557	0.752548334	6.871E-08	4.79E-05	5.16E-04	1.41E-04	2.92E+00	2.77E+00	1.13E+00
5380	476444.86	3849267.13	0.0225	0.40856	0.00067	0.00091	0.001	0.001	0.4157	0.40856	0.23475981	0.754579953	6.975E-08	4.79E-05	5.16E-04	1.41E-04	2.95E+00	2.78E+00	1.16E+00
5381	476550.75	3849300.66	0.02309	0.48585	0.00068	0.00091	0.001	0.001	0.5003	0.48585	0.24091573	0.897328838	7.079E-08	4.79E-05	5.16E-04	1.42E-04	3.54E+00	3.30E+00	1.38E+00
5382	476656.71	3849346.88	0.02443	0.42001	0.00069	0.00092	0.001	0.001	0.4284	0.42001	0.25489698	0.775727252	7.183E-08	4.85E-05	5.16E-04	1.42E-04	3.04E+00	2.86E+00	1.21E+00
5383	476873.55	3849454.53	0.02719	0.4202	0.00071	0.00094	0.001	0.001	0.4255	0.4202	0.28369419	0.776078167	7.392E-08	4.95E-05	5.25E-04	1.45E-04	3.01E+00	2.86E+00	1.22E+00
5384	477700	3849859.7	0.03641	0.41473	0.00075	0.00103	0.001	0.001	0.4104	0.41473	0.37989354	0.765975484	7.808E-08	5.43E-05	5.58E-04	1.52E-04	2.91E+00	2.82E+00	1.23E+00
5385	477743.16	3849856.38	0.03296	0.29415	0.00074	0.00103	0.001	0.001	0.2915	0.29415	0.34389704	0.543273186	7.704E-08	5.43E-05	5.58E-04	1.52E-04	2.07E+00	2.00E+00	9.53E-01
5386	478477.35	3850216.33	0.04104	0.30774	0.00074	0.00112	0.001	0.001	0.299	0.30774	0.42820189	0.568372906	7.704E-08	5.90E-05	5.91E-04	1.62E-04	2.12E+00	2.09E+00	1.02E+00
5387	478485.8	3850201.6	0.03591	0.23671	0.00073	0.00113	0.001	0.001	0.2314	0.23671	0.37467665	0.437185776	7.6E-08	5.95E-05	5.91E-04	1.62E-04	1.64E+00	1.61E+00	8.42E-01
5388	479113.21	3850501.53	0.05314	0.21814	0.00076	0.00125	0.001	0.001	0.2116	0.21814	0.5544505	0.402888366	7.912E-08	6.58E-05	6.52E-04	1.86E-04	1.50E+00	1.48E+00	9.74E-01
5389	479108.11	3850382.28	0.02401	0.08742	0.00073	0.00123	0.001	0.001	0.0866	0.08742	0.2505148	0.161458242	7.6E-08	6.48E-05	6.47E-04	1.84E-04	6.14E-01	5.94E-01	4.32E-01
5390	479689.85	3850674.28	0.05509	0.09099	0.00076	0.00129	0.001	0.001	0.0895	0.09099	0.57479635	0.168051767	7.912E-08	6.79E-05	6.89E-04	1.96E-04	6.34E-01	6.19E-01	7.59E-01

5391	479952.42	3850774.28	0.03817	0.07879	0.00078	0.0013	0.002	0.001	0.0778	0.07879	0.39825697	0.145519274	8.12E-08	6.85E-05	7.08E-04	1.97E-04	5.51E-01	5.36E-01	5.60E-01
5392	479911.32	3850884.85	0.04653	0.20528	0.0008	0.00135	0.002	0.001	0.1976	0.20528	0.48548328	0.379136902	8.328E-08	7.11E-05	7.13E-04	2.05E-04	1.40E+00	1.40E+00	8.70E-01
5393	480500.92	3851178.12	0.04179	0.21064	0.00088	0.00143	0.002	0.002	0.2099	0.21064	0.43602722	0.389036424	9.161E-08	7.53E-05	7.55E-04	2.17E-04	1.49E+00	1.43E+00	8.81E-01
5394	480738.01	3851289.27	0.04231	0.1975	0.00094	0.00147	0.002	0.002	0.1995	0.1975	0.44145278	0.36476782	9.786E-08	7.74E-05	7.69E-04	2.25E-04	1.41E+00	1.34E+00	8.78E-01
5395	481055.42	3851443.58	0.04397	0.19087	0.00105	0.00154	0.002	0.002	0.1959	0.19087	0.45877283	0.352522703	1.093E-07	8.11E-05	7.88E-04	2.42E-04	1.39E+00	1.30E+00	9.03E-01
5396	481110.22	3851443.15	0.03498	0.14437	0.00107	0.00154	0.002	0.002	0.1477	0.14437	0.36497325	0.266640659	1.114E-07	8.11E-05	7.83E-04	2.43E-04	1.05E+00	9.82E-01	6.98E-01
5397	481111.1	3851417.45	0.02728	0.11734	0.00107	0.00153	0.002	0.002	0.1197	0.11734	0.28463323	0.216718258	1.114E-07	8.06E-05	7.78E-04	2.42E-04	8.48E-01	7.98E-01	5.53E-01
5398	482248.44	3852605.09	0.0313	0.22174	0.00174	0.00245	0.002	0.003	0.222	0.22174	0.32657698	0.409537299	1.811E-07	1.29E-04	1.02E-03	4.32E-04	1.57E+00	1.51E+00	8.03E-01
5399	482273.34	3852632.31	0.03147	0.22639	0.00178	0.0025	0.002	0.003	0.2265	0.22639	0.32835072	0.418125503	1.853E-07	1.32E-04	1.03E-03	4.42E-04	1.60E+00	1.54E+00	8.13E-01
5400	482665.46	3853038.72	0.03869	0.1792	0.00279	0.00344	0.002	0.004	0.1831	0.1792	0.40368253	0.33096908	2.905E-07	1.81E-04	1.14E-03	6.29E-04	1.30E+00	1.22E+00	8.15E-01
5401	483077.95	3853844.31	0.06657	0.05596	0.00581	0.02894	0.003	0.142	0.1144	0.05596	0.69457602	0.103353961	6.049E-07	1.52E-03	1.47E-03	1.99E-02	8.10E-01	3.81E-01	1.25E+00
5402	483121.38	3853909.38	0.07691	0.049	0.00618	0.08743	0.003	0.478	0.1057	0.049	0.80246119	0.090499358	6.434E-07	4.61E-03	1.51E-03	6.73E-02	7.49E-01	3.33E-01	1.38E+00
5403	483492.64	3853911.49	0.05269	0.02255	0.00488	0.06083	0.003	0.061	0.0363	0.02255	0.5497553	0.041648174	5.08E-07	3.20E-03	1.55E-03	8.63E-03	2.57E-01	1.53E-01	7.09E-01
5404	483498.29	3854204.73	0.08087	0.02359	0.00813	0.84871	0.004	0.348	0.1181	0.02359	0.84377892	0.043568977	8.464E-07	4.47E-02	1.73E-03	4.90E-02	8.37E-01	1.60E-01	1.66E+00
5405	484132.44	3854662.55	0.09868	0.0129	0.04832	0.87477	0.004	0.252	0.219	0.0129	1.02960435	0.023825341	5.03E-06	4.61E-02	2.09E-03	3.55E-02	1.55E+00	8.77E-02	2.60E+00
5406	484627.62	3854876.13	0.09824	0.01171	0.03815	1.14314	0.005	0.195	0.1932	0.01171	1.02501349	0.0216275	3.972E-06	6.02E-02	2.44E-03	2.74E-02	1.37E+00	7.96E-02	2.43E+00
5407	484756.14	3854949.04	0.09724	0.01176	0.03221	0.91786	0.006	0.217	0.1932	0.01176	1.01457972	0.021719846	3.353E-06	4.83E-02	2.59E-03	3.05E-02	1.37E+00	8.00E-02	2.41E+00
5408	486697.51	3856599.17	0.09145	0.01394	0.01337	0.52739	0.067	0.158	0.0692	0.01394	0.9541682	0.025746144	1.392E-06	2.78E-02	3.15E-02	2.22E-02	4.91E-01	9.48E-02	1.46E+00
5409	487105.31	3856962.27	0.08897	0.01562	0.01075	0.83309	0.706	0.168	0.0639	0.01562	0.92829245	0.028848979	1.119E-06	4.39E-02	3.31E-01	2.36E-02	4.53E-01	1.06E-01	1.70E+00
5410	487157.57	3856901.7	0.07098	0.01462	0.01051	0.23865	0.971	0.094	0.048	0.01462	0.74058894	0.027002053	1.094E-06	1.26E-02	4.55E-01	1.32E-02	3.40E-01	9.94E-02	1.49E+00
5411	487173.5	3856853.74	0.06508	0.01405	0.01058	0.16487	0.78	0.075	0.0421	0.01405	0.6790297	0.025949306	1.101E-06	8.68E-03	3.66E-01	1.06E-02	2.98E-01	9.55E-02	1.29E+00
5412	487564.41	3856860.83	0.04659	0.01241	0.00977	0.06222	1.484	0.04	0.0253	0.01241	0.48610931	0.022920348	1.017E-06	3.28E-03	6.96E-01	5.66E-03	1.79E-01	8.44E-02	1.31E+00
5413	487563.31	3856931.58	0.04886	0.01298	0.00945	0.07098	2.322	0.045	0.0273	0.01298	0.50979397	0.023973095	9.838E-07	3.74E-03	1.09E+00	6.26E-03	1.94E-01	8.83E-02	1.74E+00
5414	487782.7	3856926.85	0.04215	0.01216	0.00918	0.05106	2.032	0.036	0.022	0.01216	0.43978337	0.022458616	9.557E-07	2.69E-03	9.53E-01	5.01E-03	1.56E-01	8.27E-02	1.50E+00
5415	487782.39	3856757.07	0.03884	0.01107	0.00996	0.04175	0.778	0.03	0.0192	0.01107	0.4052476	0.020445467	1.037E-06	2.20E-03	3.65E-01	4.23E-03	1.36E-01	7.53E-02	8.58E-01
5416	487917.26	3856752.41	0.03627	0.01077	0.00981	0.037	0.86	0.028	0.0175	0.01077	0.37843281	0.019891389	1.021E-06	1.95E-03	4.03E-01	3.88E-03	1.24E-01	7.32E-02	8.58E-01
5417	487919.57	3856953.35	0.03953	0.01193	0.00923	0.04533	1.934	0.033	0.0202	0.01193	0.4124469	0.022033823	9.609E-07	2.39E-03	9.07E-01	4.63E-03	1.43E-01	8.11E-02	1.41E+00
5418	487932.76	3857000.32	0.0402	0.01216	0.00917	0.04725	2.108	0.034	0.0208	0.01216	0.41943752	0.022458616	9.547E-07	2.49E-03	9.89E-01	4.81E-03	1.47E-01	8.27E-02	1.50E+00
5419	487960.5	3857044.75	0.04054	0.01235	0.0092	0.04842	2.198	0.035	0.0211	0.01235	0.42298501	0.022809532	9.578E-07	2.55E-03	1.03E+00	4.93E-03	1.49E-01	8.40E-02	1.55E+00
5420	488016.54	3857089.54	0.04024	0.01247	0.00947	0.04815	2.169	0.035	0.0209	0.01247	0.41985488	0.023031163	9.859E-07	2.54E-03	1.02E+00	4.96E-03	1.48E-01	8.48E-02	1.53E+00
5421	488114.39	3857165.47	0.03968	0.0127	0.01124	0.04759	2.058	0.036	0.0206	0.0127	0.41401196	0.023455956	1.17E-06	2.51E-03	9.65E-01	5.02E-03	1.46E-01	8.64E-02	1.47E+00
5422	488171.49	3857234.24	0.03988	0.0131	0.01216	0.04875	1.963	0.037	0.0209	0.0131	0.41609872	0.024194726	1.266E-06	2.57E-03	9.20E-01	5.23E-03	1.48E-01	8.91E-02	1.43E+00
5423	488193.16	3857297.8	0.04081	0.01364	0.01302	0.05165	1.891	0.04	0.0216	0.01364	0.42580212	0.025192066	1.355E-06	2.72E-03	8.87E-01	5.57E-03	1.53E-01	9.27E-02	1.41E+00
5424	488189.27	3857649.94	0.05412	0.01837	0.03508	0.10115	1.156	0.074	0.0319	0.01837	0.56467559	0.033928025	3.652E-06	5.33E-03	5.42E-01	1.04E-02	2.26E-01	1.25E-01	1.26E+00
5425	488127.43	3857732.32	0.0649	0.02046	0.04988	0.16963	0.789	0.111	0.0399	0.02046	0.67715163	0.037788099	5.193E-06	8.94E-03	3.70E-01	1.56E-02	2.83E-01	1.39E-01	1.25E+00
5426	488149.93	3857752.94	0.06504	0.02064	0.05414	0.17008	0.528	0.115	0.0398	0.02064	0.67861235	0.038120546	5.636E-06	8.96E-03	2.48E-01	1.62E-02	2.82E-01	1.40E-01	1.13E+00
5427	488144.76	3857758.71	0.06619	0.02081	0.05553	0.17944	0.5	0.12	0.0406	0.02081	0.69061119	0.038434523	5.781E-06	9.45E-03	2.34E-01	1.69E-02	2.88E-01	1.42E-01	1.14E+00
5428	488335.58	3857932.55	0.06716	0.02335	0.07442	0.18023	0.076	0.14	0.0403	0.02335	0.70073194	0.043125714	7.748E-06	9.49E-03	3.57E-02	1.97E-02	2.85E-01	1.59E-01	9.35E-01
5429	488372.29	3857943.79	0.06492	0.02321	0.07168	0.16186	0.074	0.129	0.0387	0.02321	0.6773603	0.042867145	7.462E-06	8.53E-03	3.45E-02	1.81E-02	2.74E-01	1.58E-01	8.97E-01
5430	488828.64	3857936.4	0.04545	0.01822	0.04305	0.06249	0.075	0.06	0.0227	0.01822	0.47421481	0.033650986	4.482E-06	3.29E-03	3.52E-02	8.41E-03	1.61E-01	1.24E-01	5.92E-01
5431	488829.08	3857959.58	0.04681	0.0186	0.04295	0.0647	0.069	0.061	0.0232	0.0186	0.48840474	0.034352818	4.471E-06	3.41E-03	3.23E-02	8.61E-03	1.64E-01	1.26E-01	6.05E-01
5432	488351.61	3857964.55	0.06951	0.02414	0.07477	0.19786	0.066	0.146	0.0416	0.02414	0.7252513	0.044584786	7.784E-06	1.04E-02	3.08E-02	2.06E-02	2.95E-01	1.64E-01	9.62E-01
5433	488316.87	3857947.65	0.07127	0.02408	0.07754	0.21625	0.069	0.157	0.0428	0.02408	0.74361474	0.04447397	8.072E-06	1.14E-02	3.26E-02	2.21E-02	3.03E-01	1.64E-01	9.94E-01
5434	488129.1	3857775.77	0.07002	0.02135	0.05998	0.21479	0.409	0.138	0.0431	0.02135	0.73057252	0.039431863	6.244E-06	1.13E-02	1.92E-01	1.94E-02	3.05E-01	1.45E-01	1.15E+00
5435	488062.53	3857846.13	0.09956	0.02424	0.08383	0.93124	0.096	0.393	0.0587	0.02424	1.03878607	0.044769478	8.727E-06	4.91E-02	4.52E-02	5.52E-02	4.16E-01	1.65E-01	1.48E+00
5436	488330.41	3858091.34	0.10343	0.02923	0.07008	0.91007	0.041	0.348	0.0569	0.02923	1.07916476	0.053985637	7.296E-06	4.79E-02	1.91E-02	4.90E-02	4.03E-01	1.99E-01	1.45E+00
5437	488470.87	3858174.45	0.09687	0.03021	0.04941	0.44522	0.036	0.227	0.051	0.03021	1.01071923	0.055795625	5.144E-06	2.35E-02	1.66E-02	3.19E-02	3.61E-01	2.05E-01	1.29E+00
5438	488568.9	3858262.31	0.10807	0.03298	0.03811	0.44701	0.03	0.227	0.0521	0.03298	1.12757744	0.060911609	3.967E-06	2.35E-02	1.39E-02	3.19E-02	3.69E-01	2.24E-01	1.40E+00
5439	488964.27	3858025.71	0.06135	0.01855	0.03673	0.06333	0.054	0.057	0.022	0.01855	0.64011174	0.034260471	3.824E-06	3.34E-03	2.55E-02	8.05E-03	1.56E-01	1.26E-01	7.41E-01
5440	489147.25	3857956.64	0.05697	0.01603	0.03258	0.05169	0.067	0.047	0.0182	0.01603	0.59441184	0.029606219	3.392E-06	2.72E-03	3.13E-02	6.54E-03	1.29E-01	1.09E-01	6.85E-01
5441	489343.52	3857932.45	0.0606	0.01451	0.02887	0.04597	0.069	0.04	0.016	0.01451	0.63228642	0.026798892	3.006E-06	2.42E-03	3.22E-02	5.63E-03	1.13E-01	9.87E-02	7.14E-01
5442	489866.19	3857923.19	0.0582	0.01208	0.02015	0.0436	0.062	0.031	0.0125	0.01208	0.60724537	0.022310862	2.098E-06	2.30E-03	2.89E-02	4.31E-03	8.86E-02	8.21E-02	6.72E-01
5443	489955.65	3857902.27	0.05331	0.01159	0.0192	0.04214	0.063	0.029	0.012	0.01159	0.55622424	0.021405869	1.999E-06	2.22E-03	2.93E-02	4.10E-03	8.47E-02	7.88E-02	6.19E-01
5444	490079.44	3857847.9	0.03883	0.01101	0.01839	0.0389	0.065	0.027	0.0113	0.01101	0.40514326	0.020334652	1.915E-06	2.05E-03	3.05E-02	3.85E-03	7.99E-02	7.49E-02	4.67E-01
5445	490108.49	3857934.13	0.04566	0.01137	0.01778	0.04598	0.056	0.028	0.0115	0.01137	0.4764059	0.020999545	1.851E-06	2.42E-03	2.64E-02	3.94E-03	8.17E-02	7.73E-02	5.35E-01
5446	489884.48	3858014.17	0.04214	0.01266	0.01932	0.05406	0.051	0.032	0.013	0.01266	0.43967904	0.023382079	2.011E-06	2.85E-03	2.40E-02	4.46E-03	9.18E-02	8.61E-02	5.00E-01
5447	489326.56	3858025.86	0.05611	0.01565	0.02812	0.05345	0.054	0.043	0.0171	0.01565	0.58543879	0.028904387	2.927E-06	2.82E-03	2.51E-02	6.05E-03	1.21E-01	1.06E-01	6.63E-01
5448	489130.38	3858056.71	0.06359	0.01748	0.031	0.0601	0.05	0.051	0.0198	0.01748	0.66348339	0.032284261	3.227E-06	3.17E-03	2.34E-02	7.11E-03	1.40E-01	1.19E-01	7.51E-01

5449	488936.49	3858143.93	0.07127	0.02122	0.0331	0.07866	0.039	0.066	0.0254	0.02122	0.74361474	0.039191763	3.446E-06	4.14E-03	1.81E-02	9.26E-03	1.80E-01	1.44E-01	8.50E-01
5450	488638.08	3858327.45	0.10052	0.03473	0.03183	0.4593	0.027	0.23	0.0522	0.03473	1.04880249	0.064143729	3.314E-06	2.42E-02	1.25E-02	3.24E-02	3.70E-01	2.36E-01	1.32E+00
5451	488663.79	3858349.57	0.09722	0.03524	0.02994	0.45181	0.026	0.227	0.052	0.03524	1.01437105	0.065085661	3.117E-06	2.38E-02	1.21E-02	3.20E-02	3.68E-01	2.40E-01	1.28E+00
5452	488694.56	3858349.5	0.09007	0.03413	0.02933	0.33636	0.026	0.187	0.0486	0.03413	0.9397696	0.063035573	3.053E-06	1.77E-02	1.21E-02	2.63E-02	3.44E-01	2.32E-01	1.17E+00
5453	488694.35	3858336.75	0.08833	0.03335	0.03001	0.30146	0.026	0.174	0.0473	0.03335	0.92161484	0.061594971	3.124E-06	1.59E-02	1.23E-02	2.45E-02	3.35E-01	2.27E-01	1.14E+00
5454	488712.81	3858336.38	0.08393	0.03272	0.02964	0.26423	0.026	0.159	0.0455	0.03272	0.87570625	0.060431408	3.086E-06	1.39E-02	1.23E-02	2.23E-02	3.23E-01	2.22E-01	1.08E+00
5455	488713.23	3858367.46	0.08721	0.03463	0.02805	0.33979	0.025	0.188	0.0487	0.03463	0.90992902	0.063959036	2.92E-06	1.79E-02	1.17E-02	2.64E-02	3.45E-01	2.35E-01	1.14E+00
5456	488704.63	3858384.05	0.08968	0.0361	0.02734	0.43823	0.024	0.222	0.0516	0.0361	0.93570043	0.066674017	2.846E-06	2.31E-02	1.14E-02	3.13E-02	3.65E-01	2.45E-01	1.19E+00
5457	488604.15	3858488.29	0.10134	0.05322	0.02288	0.1193	0.02	0.106	0.0997	0.05322	1.05735818	0.098293384	2.382E-06	6.28E-03	9.59E-03	1.50E-02	7.06E-01	3.62E-01	1.53E+00
5458	488605.66	3858550.47	0.10952	0.06551	0.02014	0.08279	0.019	0.083	0.1398	0.06551	1.14270641	0.120992101	2.097E-06	4.36E-03	8.74E-03	1.17E-02	9.91E-01	4.45E-01	1.83E+00
5459	488692.68	3858548.71	0.09977	0.0553	0.02009	0.14501	0.019	0.117	0.0904	0.0553	1.04097716	0.10213499	2.091E-06	7.64E-03	9.04E-03	1.65E-02	6.40E-01	3.76E-01	1.44E+00
5460	488759.93	3858461.81	0.07481	0.03984	0.023	0.63112	0.022	0.279	0.0551	0.03984	0.78055028	0.073581519	2.394E-06	3.32E-02	1.02E-02	3.93E-02	3.90E-01	2.71E-01	1.06E+00
5461	488816.57	3858541.79	0.09125	0.04475	0.01985	0.83798	0.019	0.375	0.0595	0.04475	0.95208145	0.082649924	2.067E-06	4.41E-02	9.10E-03	5.28E-02	4.22E-01	3.04E-01	1.26E+00
5462	488944.63	3858656.77	0.07132	0.05038	0.01724	0.78792	0.017	0.369	0.0604	0.05038	0.74413642	0.093048115	1.795E-06	4.15E-02	7.82E-03	5.20E-02	4.28E-01	3.43E-01	1.02E+00
5463	489134.91	3858830.7	0.05701	0.0628	0.01729	1.07789	0.013	0.367	0.0704	0.0628	0.59482919	0.115986932	1.8E-06	5.68E-02	6.29E-03	5.16E-02	4.99E-01	4.27E-01	8.97E-01
5464	489193.99	3858886.05	0.0567	0.06843	0.01847	1.17278	0.013	0.375	0.075	0.06843	0.59159472	0.126385124	1.923E-06	6.18E-02	5.89E-03	5.27E-02	5.32E-01	4.65E-01	9.05E-01
5465	489295.2	3858954.34	0.05765	0.07214	0.0215	1.03373	0.011	0.362	0.0754	0.07214	0.6015068	0.133237218	2.238E-06	5.45E-02	5.38E-03	5.10E-02	5.34E-01	4.91E-01	8.89E-01
5466	489295.64	3858992.74	0.06371	0.08582	0.02351	0.64928	0.011	0.274	0.0899	0.08582	0.66473544	0.158503161	2.448E-06	3.42E-02	5.23E-03	3.85E-02	6.37E-01	5.84E-01	9.55E-01
5467	489183.74	3858911.72	0.05944	0.07804	0.019	0.78822	0.012	0.265	0.0869	0.07804	0.62018325	0.144134079	1.978E-06	4.15E-02	5.77E-03	3.73E-02	6.15E-01	5.31E-01	9.34E-01
5468	488873.37	3858625.59	0.09027	0.05155	0.01779	0.53577	0.017	0.275	0.0657	0.05155	0.94185635	0.095209018	1.852E-06	2.82E-02	8.10E-03	3.86E-02	4.66E-01	3.51E-01	1.23E+00
5469	488842.84	3858658.69	0.09325	0.0605	0.01722	0.20217	0.017	0.143	0.0814	0.0605	0.97294898	0.111739003	1.793E-06	1.06E-02	7.99E-03	2.01E-02	5.77E-01	4.11E-01	1.29E+00
5470	488856.39	3858670.93	0.08922	0.06144	0.01703	0.20419	0.017	0.143	0.0817	0.06144	0.93090089	0.113475113	1.773E-06	1.08E-02	7.88E-03	2.01E-02	5.79E-01	4.18E-01	1.24E+00
5471	488805.7	3858724.5	0.09669	0.08633	0.01594	0.09423	0.016	0.082	0.135	0.08633	1.00884115	0.159445093	1.659E-06	4.96E-03	7.50E-03	1.15E-02	9.56E-01	5.87E-01	1.56E+00
5472	488805.87	3858804.16	0.10029	0.14303	0.01498	0.06931	0.015	0.069	0.3037	0.14303	1.04640272	0.264165779	1.56E-06	3.65E-03	6.89E-03	9.74E-03	2.15E+00	9.73E-01	2.51E+00
5473	488995.78	3858936.96	0.09397	0.18472	0.01712	0.09205	0.013	0.072	0.3	0.18472	0.9804613	0.34116411	1.782E-06	4.85E-03	6.16E-03	1.01E-02	2.13E+00	1.26E+00	2.21E+00
5474	489130.76	3859017.38	0.08293	0.1969	0.02121	0.1467	0.012	0.075	0.2506	0.1969	0.86527249	0.363659665	2.208E-06	7.73E-03	5.61E-03	1.06E-02	1.78E+00	1.34E+00	1.69E+00
5475	489130.92	3859052.24	0.08232	0.30346	0.0225	0.13271	0.012	0.068	0.3945	0.30346	0.85890789	0.560468065	2.342E-06	6.99E-03	5.51E-03	9.50E-03	2.79E+00	2.06E+00	2.17E+00
5476	489200.33	3859090.6	0.07861	0.3029	0.02652	0.29451	0.011	0.068	0.358	0.3029	0.8201986	0.559433786	2.761E-06	1.55E-02	5.23E-03	9.57E-03	2.54E+00	2.06E+00	1.89E+00
5477	489296.07	3859143.7	0.07911	0.30209	0.03544	0.23252	0.01	0.069	0.3468	0.30209	0.82541549	0.557937776	3.69E-06	1.22E-02	4.86E-03	9.68E-03	2.46E+00	2.05E+00	1.81E+00
5478	489296.43	3858954.74	0.05764	0.07206	0.02153	1.02347	0.011	0.36	0.0753	0.07206	0.60140246	0.133089464	2.241E-06	5.39E-02	5.38E-03	5.07E-02	5.33E-01	4.90E-01	8.88E-01
5479	489410.33	3859033.19	0.06846	0.07713	0.02858	0.93442	0.01	0.372	0.078	0.07713	0.71429584	0.142453377	2.975E-06	4.92E-02	4.88E-03	5.24E-02	5.53E-01	5.24E-01	9.91E-01
5480	489371.37	3859089.8	0.07174	0.11829	0.03366	0.27732	0.01	0.142	0.1235	0.11829	0.74851861	0.218472838	3.504E-06	1.46E-02	4.79E-03	1.99E-02	8.75E-01	8.04E-01	1.08E+00
5481	489390.52	3859102.82	0.07297	0.12032	0.03621	0.26663	0.01	0.141	0.1255	0.12032	0.76135214	0.222222097	3.77E-06	1.40E-02	4.71E-03	1.98E-02	8.89E-01	8.18E-01	1.09E+00
5482	489382.3	3859114.53	0.07471	0.13543	0.03738	0.23137	0.01	0.116	0.1428	0.13543	0.7795069	0.250129144	3.891E-06	1.22E-02	4.71E-03	1.63E-02	1.01E+00	9.21E-01	1.15E+00
5483	489363.04	3859102.45	0.07261	0.13389	0.03477	0.24075	0.01	0.115	0.1414	0.13389	0.75759599	0.247284878	3.62E-06	1.27E-02	4.78E-03	1.62E-02	1.00E+00	9.10E-01	1.13E+00
5484	489337.52	3859140.71	0.07708	0.21825	0.03797	0.19821	0.01	0.078	0.2412	0.21825	0.80423494	0.403091528	3.953E-06	1.04E-02	4.75E-03	1.09E-02	1.71E+00	1.48E+00	1.46E+00
5485	489375.14	3859164.55	0.08259	0.22698	0.04452	0.17383	0.01	0.078	0.2484	0.22698	0.861725	0.419215189	4.635E-06	9.16E-03	4.61E-03	1.09E-02	1.76E+00	1.54E+00	1.52E+00
5486	489409.3	3859114.5	0.07345	0.12146	0.03891	0.26091	0.01	0.142	0.1265	0.12146	0.76636035	0.224327592	4.051E-06	1.37E-02	4.64E-03	2.00E-02	8.96E-01	8.26E-01	1.10E+00
5487	489434.87	3859131.81	0.07757	0.12425	0.04343	0.25143	0.01	0.142	0.1291	0.12425	0.80934748	0.229480515	4.521E-06	1.32E-02	4.55E-03	1.99E-02	9.15E-01	8.45E-01	1.15E+00
5488	489471.87	3859075.75	0.06301	0.08015	0.03553	0.96151	0.01	0.379	0.0808	0.08015	0.6574318	0.148031093	3.699E-06	5.06E-02	4.64E-03	5.33E-02	5.72E-01	5.45E-01	9.41E-01
5489	489602.62	3859164.69	0.07391	0.087	0.06882	0.63438	0.009	0.384	0.0873	0.087	0.77115989	0.160682533	7.165E-06	3.34E-02	4.19E-03	5.40E-02	6.18E-01	5.92E-01	1.05E+00
5490	489558.29	3859232.45	0.07984	0.16146	0.10019	0.18504	0.009	0.113	0.1655	0.16146	0.83303214	0.298204619	1.043E-05	9.75E-03	4.09E-03	1.60E-02	1.17E+00	1.10E+00	1.24E+00
5491	489620.11	3859273.56	0.08297	0.17265	0.17306	0.17755	0.008	0.113	0.1765	0.17265	0.86568984	0.318871717	1.802E-05	9.35E-03	3.89E-03	1.59E-02	1.25E+00	1.17E+00	1.29E+00
5492	489666.06	3859206.42	0.06526	0.09025	0.10612	0.65213	0.009	0.376	0.0903	0.09025	0.68090778	0.166685042	1.105E-05	3.44E-02	4.00E-03	5.30E-02	6.40E-01	6.14E-01	9.65E-01
5493	489787.9	3859285.65	0.07167	0.09652	0.23484	0.62495	0.008	0.364	0.097	0.09652	0.74778824	0.178265266	2.445E-05	3.29E-02	3.68E-03	5.12E-02	6.87E-01	6.56E-01	1.04E+00
5494	489752.17	3859343.13	0.07628	0.16788	0.58547	0.20563	0.008	0.14	0.1719	0.16788	0.79588792	0.310061882	6.095E-05	1.08E-02	3.58E-03	1.98E-02	1.22E+00	1.14E+00	1.22E+00
5495	489814.94	3859385.33	0.07948	0.18076	2.15263	0.19946	0.007	0.139	0.1854	0.18076	0.82927598	0.333850285	0.0002241	1.05E-02	3.43E-03	1.95E-02	1.31E+00	1.23E+00	1.28E+00
5496	489853.42	3859330.74	0.06324	0.1018	0.61517	0.60076	0.008	0.371	0.1026	0.1018	0.65983157	0.188017033	6.404E-05	3.16E-02	3.53E-03	5.21E-02	7.27E-01	6.92E-01	9.70E-01
5497	489969.5	3859401.91	0.07473	0.10678	1.08567	0.81035	0.007	0.402	0.1079	0.10678	0.77971558	0.197214723	0.000113	4.27E-02	3.30E-03	5.66E-02	7.64E-01	7.26E-01	1.12E+00
5498	490166.91	3859486.96	0.06584	0.09753	0.2574	0.81916	0.007	0.36	0.0978	0.09753	0.68695937	0.180130661	2.68E-05	4.31E-02	3.05E-03	5.06E-02	6.93E-01	6.63E-01	9.94E-01
5499	490128.86	3859571.46	0.06567	0.24422	0.12956	0.15135	0.006	0.101	0.2436	0.24422	0.68518563	0.451056188	1.349E-05	7.97E-03	2.86E-03	1.41E-02	1.73E+00	1.66E+00	1.23E+00
5500	490186.65	3859593.65	0.06824	0.24607	0.09998	0.16155	0.006	0.113	0.2471	0.24607	0.71200041	0.454473	1.041E-05	8.51E-03	2.80E-03	1.59E-02	1.75E+00	1.67E+00	1.27E+00
5501	490223.74	3859517.48	0.05789	0.10147	0.17738	0.88405	0.006	0.371	0.1015	0.10147	0.6040109	0.187407548	1.847E-05	4.66E-02	2.98E-03	5.21E-02	7.19E-01	6.90E-01	9.22E-01
5502	490846.34	3859817.22	0.06033	0.14763	0.02321	0.8978	0.005	0.291	0.1554	0.14763	0.6294693	0.272661637	2.416E-06	4.73E-02	2.47E-03	4.10E-02	1.10E+00	1.00E+00	1.09E+00
5503	490925.65	3859844.59	0.06001	0.13647	0.02073	0.90069	0.005	0.282	0.1435	0.13647	0.62613049	0.252049946	2.158E-06	4.74E-02	2.44E-03	3.97E-02	1.02E+00	9.28E-01	1.06E+00
5504	491159.29	3859896.28	0.05883	0.09573	0.0174	0.92754	0.005	0.284	0.0958	0.09573	0.61381865	0.176806195	1.811E-06	4.89E-02	2.36E-03	4.00E-02	6.79E-01	6.51E-01	9.10E-01
5505	491370.69	3859960.89	0.05184	0.07309	0.01411	0.92959	0.005	0.292	0.0726	0.07309	0.5408866	0.134991797	1.469E-06	4.90E-02	2.27E-03	4.11E-02	5.14E-01	4.97E-01	7.86E-01
5506	491330.28	3860063.17	0.05944	0.13634	0.01088	0.10208	0.004	0.085	0.1332	0.13634	0.62018325	0.251809846	1.133E-06	5.38E-03	2.06E-03	1.20E-02	9.43E-01	9.27E-01	9.08E-01

5507	491636.45	3860180.75	0.05227	0.07319	0.00861	0.06262	0.004	0.062	0.0746	0.07319	0.54537312	0.13517649	8.964E-07	3.30E-03	1.95E-03	8.75E-03	5.29E-01	4.98E-01	7.26E-01
5508	491617.94	3860203.93	0.05997	0.08451	0.00817	0.04972	0.004	0.05	0.0867	0.08451	0.62571314	0.156083689	8.505E-07	2.62E-03	1.91E-03	7.01E-03	6.14E-01	5.75E-01	8.33E-01
5509	491805.68	3860271.59	0.0437	0.06329	0.00729	0.03167	0.004	0.045	0.0653	0.06329	0.45595572	0.116891926	7.589E-07	1.67E-03	1.86E-03	6.28E-03	4.63E-01	4.30E-01	6.15E-01
5510	491654.23	3860414.02	0.03232	0.32702	0.00547	0.02076	0.004	0.023	0.3566	0.32702	0.33721942	0.603981633	5.695E-07	1.09E-03	1.68E-03	3.27E-03	2.53E+00	2.22E+00	1.25E+00
5511	491592.62	3860510.76	0.01131	0.0632	0.00463	0.01734	0.003	0.019	0.0595	0.0632	0.11800593	0.116725702	4.82E-07	9.13E-04	1.58E-03	2.61E-03	4.21E-01	4.30E-01	2.32E-01
5512	491475.41	3860368.93	0.02479	0.10634	0.00562	0.02298	0.004	0.023	0.0991	0.10634	0.25865314	0.196402076	5.851E-07	1.21E-03	1.69E-03	3.21E-03	7.02E-01	7.23E-01	4.41E-01
5513	491445.61	3860337.28	0.02635	0.11823	0.0059	0.02489	0.004	0.024	0.1117	0.11823	0.27492982	0.218362022	6.142E-07	1.31E-03	1.72E-03	3.40E-03	7.92E-01	8.04E-01	4.87E-01
5514	491399.05	3860300.37	0.02711	0.12035	0.00629	0.02754	0.004	0.026	0.1164	0.12035	0.28285948	0.222277505	6.548E-07	1.45E-03	1.76E-03	3.63E-03	8.25E-01	8.18E-01	5.18E-01
5515	491228.84	3860235.98	0.02418	0.05917	0.00692	0.03151	0.004	0.027	0.0598	0.05917	0.25228854	0.109282592	7.204E-07	1.66E-03	1.82E-03	3.85E-03	4.24E-01	4.02E-01	3.90E-01
5516	491228.47	3860174.57	0.03346	0.11266	0.00797	0.0398	0.004	0.033	0.1174	0.11266	0.34911392	0.208074646	8.297E-07	2.10E-03	1.89E-03	4.68E-03	8.32E-01	7.66E-01	6.31E-01
5517	491145.77	3860112.55	0.03156	0.11187	0.0092	0.04884	0.004	0.039	0.118	0.11187	0.32928976	0.206615575	9.578E-07	2.57E-03	1.98E-03	5.52E-03	8.36E-01	7.61E-01	6.21E-01
5518	490844.41	3859966.22	0.03085	0.10421	0.01364	0.0748	0.005	0.058	0.0973	0.10421	0.32188178	0.192468124	1.42E-06	3.94E-03	2.19E-03	8.16E-03	6.90E-01	7.09E-01	5.10E-01
5519	490845.55	3859928.15	0.0383	0.23038	0.01571	0.10612	0.005	0.085	0.2038	0.23038	0.39961336	0.425494736	1.636E-06	5.59E-03	2.26E-03	1.19E-02	1.44E+00	1.57E+00	7.22E-01
5520	490046.91	3859625.6	0.03919	0.1538	0.07277	0.07654	0.006	0.052	0.1546	0.1538	0.40889942	0.284057168	7.576E-06	4.03E-03	2.79E-03	7.38E-03	1.10E+00	1.05E+00	7.57E-01
5521	489970.48	3859589.4	0.0407	0.16116	0.10743	0.07771	0.006	0.053	0.1571	0.16116	0.42465441	0.297650541	1.118E-05	4.09E-03	2.92E-03	7.39E-03	1.11E+00	1.10E+00	7.54E-01
5522	489865.89	3859529.06	0.04728	0.17602	0.2724	0.08272	0.007	0.055	0.1688	0.17602	0.49330861	0.325095857	2.836E-05	4.36E-03	3.12E-03	7.73E-03	1.20E+00	1.20E+00	8.33E-01
5523	489826.89	3859531.74	0.04196	0.11358	0.28446	0.0763	0.007	0.051	0.1096	0.11358	0.43780096	0.209773818	2.961E-05	4.02E-03	3.17E-03	7.11E-03	7.77E-01	7.72E-01	6.66E-01
5524	489410.47	3859303.06	0.05181	0.11245	0.07788	0.11773	0.009	0.052	0.1029	0.11245	0.54057359	0.207686792	8.108E-06	6.20E-03	4.29E-03	7.37E-03	7.29E-01	7.65E-01	7.31E-01
5525	489407.15	3859286.09	0.05504	0.14552	0.07416	0.12191	0.009	0.054	0.1308	0.14552	0.57427466	0.268764624	7.721E-06	6.42E-03	4.32E-03	7.63E-03	9.27E-01	9.90E-01	7.98E-01
5526	488806.07	3858963.62	0.10479	0.12484	0.01486	0.04719	0.012	0.064	0.0578	0.12484	1.09335468	0.230570201	1.547E-06	2.49E-03	5.72E-03	8.97E-03	4.10E-01	8.49E-01	9.02E-01
5527	488817.64	3859546.3	0.09816	0.01093	0.01166	0.02596	0.005	0.054	0.0101	0.01093	1.02417879	0.020186898	1.214E-06	1.37E-03	2.55E-03	7.55E-03	7.14E-02	7.43E-02	1.05E+00
5528	489187.25	3859549.52	0.06566	0.01548	0.02291	0.24278	0.008	0.04	0.0147	0.01548	0.68508129	0.028590409	2.385E-06	1.28E-02	3.83E-03	5.60E-03	1.04E-01	1.05E-01	7.35E-01
5529	489187.66	3859523.74	0.05684	0.01644	0.02389	0.24486	0.008	0.04	0.0156	0.01644	0.59305545	0.030363458	2.487E-06	1.29E-02	3.92E-03	5.66E-03	1.10E-01	1.12E-01	6.44E-01
5530	489232.59	3859522.85	0.05366	0.01752	0.02717	0.433	0.009	0.04	0.0166	0.01752	0.55987606	0.032358138	2.829E-06	2.28E-02	3.99E-03	5.57E-03	1.18E-01	1.19E-01	6.23E-01
5531	489224.98	3859759.91	0.04907	0.01101	0.01422	0.48585	0.007	0.036	0.0106	0.01101	0.51198506	0.020334652	1.48E-06	2.56E-02	3.20E-03	5.05E-03	7.48E-02	7.49E-02	5.66E-01
5532	488401.39	3859763.34	0.08671	0.00681	0.0069	0.01422	0.003	0.312	0.0063	0.00681	0.90471213	0.012577564	7.183E-07	7.49E-04	1.28E-03	4.38E-02	4.44E-02	4.63E-02	9.61E-01
5533	488405.51	3859966.16	0.09427	0.00601	0.0061	0.01323	0.002	0.304	0.0056	0.00601	0.98359143	0.011100023	6.35E-07	6.97E-04	1.11E-03	4.27E-02	3.97E-02	4.09E-02	1.04E+00
5534	489202.85	3859956.57	0.06068	0.00853	0.0099	0.18746	0.005	0.034	0.0082	0.00853	0.63312112	0.015754276	1.031E-06	9.87E-03	2.54E-03	4.77E-03	5.80E-02	5.80E-02	6.66E-01
5535	489191.9	3860676.74	0.03182	0.00496	0.00458	0.30747	0.002	0.024	0.0048	0.00496	0.33200254	0.009160751	4.768E-07	1.62E-02	1.03E-03	3.38E-03	3.42E-02	3.37E-02	3.62E-01
5536	488392.82	3860687.88	0.05459	0.00413	0.00343	0.01039	0.002	0.261	0.0039	0.00413	0.56957946	0.007627803	3.571E-07	5.47E-04	7.46E-04	3.68E-02	2.76E-02	2.81E-02	6.15E-01
5537	488392.82	3860760.27	0.025	0.00401	0.00326	0.01015	0.002	0.057	0.0038	0.00401	0.26084423	0.007406172	3.394E-07	5.35E-04	7.27E-04	8.08E-03	2.69E-02	2.73E-02	2.77E-01
5538	487549.05	3860777.45	0.00847	0.0034	0.00251	0.00651	0.002	0.017	0.0032	0.0034	0.08837403	0.006279547	2.613E-07	3.43E-04	1.05E-03	2.35E-03	2.25E-02	2.31E-02	9.78E-02
5539	487554.62	3859571.83	0.05803	0.00574	0.0043	0.00944	0.004	0.119	0.005	0.00574	0.60547163	0.010601353	4.477E-07	4.97E-04	1.77E-03	1.67E-02	3.54E-02	3.90E-02	6.31E-01
5540	485949.46	3859558.54	0.00867	0.00395	0.00342	0.00552	0.006	0.012	0.0034	0.00395	0.09046078	0.007295356	3.56E-07	2.91E-04	2.77E-03	1.67E-03	2.42E-02	2.69E-02	9.99E-02
5541	485947.55	3857943.61	0.03069	0.01034	0.00773	0.00807	0.021	0.055	0.0054	0.01034	0.32021238	0.019097211	8.047E-07	4.25E-04	1.01E-02	7.68E-03	3.79E-02	7.03E-02	3.25E-01
5542	484738.38	3857940.21	0.0104	0.00531	0.00412	0.00553	0.012	0.011	0.0038	0.00531	0.1085112	0.009807175	4.289E-07	2.91E-04	5.68E-03	1.60E-03	2.66E-02	3.61E-02	1.16E-01
5543	484737.06	3857535.68	0.01467	0.00665	0.00537	0.00597	0.012	0.014	0.0042	0.00665	0.1530634	0.012282056	5.59E-07	3.14E-04	5.84E-03	1.92E-03	2.95E-02	4.52E-02	1.58E-01
5544	483730.2	3857530.13	0.00954	0.00454	0.00521	0.00478	0.008	0.008	0.0034	0.00454	0.09953816	0.008385043	5.424E-07	2.52E-04	3.64E-03	1.15E-03	2.37E-02	3.09E-02	1.06E-01
5545	483727.27	3857130.01	0.01906	0.00531	0.0058	0.00512	0.007	0.009	0.0037	0.00531	0.19886764	0.009807175	6.038E-07	2.70E-04	3.34E-03	1.28E-03	2.59E-02	3.61E-02	2.03E-01
5546	483124.42	3857123.45	0.01096	0.00442	0.00505	0.00453	0.006	0.007	0.0033	0.00442	0.11435411	0.008163411	5.257E-07	2.39E-04	2.70E-03	1.03E-03	2.32E-02	3.01E-02	1.20E-01
5547	483111.13	3855921.03	0.04969	0.00754	0.00914	0.00573	0.007	0.013	0.0043	0.00754	0.51845399	0.01392582	9.515E-07	3.02E-04	3.20E-03	1.78E-03	3.07E-02	5.13E-02	5.17E-01
5548	482701.73	3855918.24	0.01818	0.00605	0.00861	0.00515	0.006	0.009	0.004	0.00605	0.18968593	0.0111739	8.964E-07	2.71E-04	2.96E-03	1.30E-03	2.82E-02	4.11E-02	1.92E-01
5549	482668.02	3853521.78	0.02945	0.0509	0.00345	0.00584	0.003	0.01	0.0444	0.0509	0.3072745	0.094008517	3.592E-07	3.08E-04	1.29E-03	1.34E-03	3.15E-01	3.46E-01	3.73E-01
5550	482579.91	3853219.19	0.02346	0.06135	0.00274	0.00397	0.003	0.006	0.0616	0.06135	0.24477623	0.11330889	2.853E-07	2.09E-04	1.19E-03	7.75E-04	4.37E-01	4.17E-01	3.80E-01
5551	482434.06	3852961.94	0.02037	0.0865	0.00218	0.00315	0.002	0.004	0.0881	0.0865	0.21253588	0.159759071	2.27E-07	1.66E-04	1.11E-03	5.81E-04	6.24E-01	5.88E-01	4.10E-01
5552	482332.11	3852832.85	0.01802	0.11231	0.00196	0.00286	0.002	0.004	0.1145	0.11231	0.18801652	0.207428222	2.04E-07	1.51E-04	1.08E-03	5.12E-04	8.11E-01	7.64E-01	4.45E-01
5553	481334.99	3851818.96	0.01462	0.09264	0.00121	0.00174	0.002	0.002	0.0941	0.09264	0.15254171	0.171099194	1.26E-07	9.17E-05	8.53E-04	2.79E-04	6.67E-01	6.30E-01	3.62E-01
5554	481127.62	3851646.36	0.01626	0.07971	0.00111	0.00164	0.002	0.002	0.0799	0.07971	0.16965309	0.147218445	1.156E-07	8.64E-05	8.21E-04	2.59E-04	5.66E-01	5.42E-01	3.42E-01
5555	481025.04	3851591.73	0.01533	0.07281	0.00107	0.00161	0.002	0.002	0.0724	0.07281	0.15994968	0.134474658	1.114E-07	8.48E-05	8.16E-04	2.52E-04	5.13E-01	4.95E-01	3.14E-01
5556	480513.6	3851335.76	0.01602	0.07452	0.00092	0.00151	0.002	0.002	0.0758	0.07452	0.16714898	0.137632901	9.578E-08	7.95E-05	7.74E-04	2.29E-04	5.37E-01	5.07E-01	3.36E-01
5557	480523.56	3851317.66	0.02028	0.1008	0.00092	0.0015	0.002	0.002	0.1028	0.1008	0.21159684	0.186170108	9.578E-08	7.90E-05	7.69E-04	2.28E-04	7.28E-01	6.85E-01	4.42E-01
5558	476921.56	3849569.11	0.01412	0.08877	0.00072	0.00097	0.001	0.001	0.0892	0.08877	0.14732482	0.163951592	7.496E-08	5.11E-05	5.44E-04	1.49E-04	6.32E-01	6.04E-01	3.41E-01
5559	476521.19	3849373.96	0.01626	0.10687	0.00068	0.00093	0.001	0.001	0.1068	0.10687	0.16965309	0.197380947	7.079E-08	4.90E-05	5.30E-04	1.45E-04	7.57E-01	7.27E-01	3.98E-01
5560	476391.45	3849333.38	0.01624	0.1142	0.00067	0.00093	0.001	0.001	0.1146	0.1142	0.16944441	0.210918912	6.975E-08	4.90E-05	5.30E-04	1.45E-04	8.12E-01	7.77E-01	4.16E-01
5561	476219.41	3849304.29	0.01497	0.09959	0.00064	0.00093	0.001	0.001	0.1004	0.09959	0.15619353	0.183935328	6.663E-08	4.90E-05	5.35E-04	1.45E-04	7.12E-01	6.77E-01	3.75E-01
5562	475679.11	3849218.47	0.0147	0.08088	0.00058	0.00093	0.001	0.001	0.0811	0.08088	0.15337641	0.149379348	6.038E-08	4.90E-05	5.49E-04	1.43E-04	5.74E-01	5.50E-01	3.28E-01
5563	475677.71	3849233.88	0.01169	0.06475	0.00058	0.00093	0.001	0.001	0.065	0.06475	0.12197076	0.119588437	6.038E-08	4.90E-05	5.53E-04	1.43E-04	4.60E-01	4.40E-01	2.62E-01
5564	475492.74	3849204.66	0.00964	0.04516	0.00055	0.00091	0.001	1E-03	0.0455	0.04516	0.10058154	0.083407163	5.726E-08	4.79E-05	5.53E-04	1.38E-04	3.22E-01	3.07E-01	2.00E-01

5565	475497.64	3849158.75	0.02526	0.10633	0.00056	0.00091	0.001	1E-03	0.1069	0.10633	0.26355701	0.196383607	5.83E-08	4.79E-05	5.49E-04	1.39E-04	7.57E-01	7.23E-01	4.95E-01
5566	475391.35	3849141.94	0.01365	0.08113	0.00056	0.00092	0.001	1E-03	0.0815	0.08113	0.14242095	0.14984108	5.83E-08	4.85E-05	5.49E-04	1.39E-04	5.77E-01	5.52E-01	3.19E-01
5567	475277	3849095.47	0.01283	0.07832	0.00056	0.00092	0.001	1E-03	0.0786	0.07832	0.13386526	0.144651219	5.83E-08	4.85E-05	5.49E-04	1.39E-04	5.57E-01	5.33E-01	3.04E-01
5568	475183.93	3849025.66	0.01482	0.10212	0.00056	0.0009	0.001	1E-03	0.1029	0.10212	0.15462846	0.18860805	5.83E-08	4.74E-05	5.44E-04	1.38E-04	7.29E-01	6.94E-01	3.79E-01
5569	474453.23	3848378.77	0.00943	0.14587	0.00051	0.00082	0.001	9E-04	0.1469	0.14587	0.09839044	0.269411048	5.309E-08	4.32E-05	4.92E-04	1.25E-04	1.04E+00	9.92E-01	4.17E-01
5570	474569.63	3848399.34	0.00899	0.31391	0.00051	0.00082	0.001	9E-04	0.3164	0.31391	0.09379959	0.579768438	5.309E-08	4.32E-05	4.88E-04	1.27E-04	2.24E+00	2.13E+00	7.81E-01
5571	474644.33	3848464.52	0.00987	0.31841	0.00051	0.00083	0.001	9E-04	0.3209	0.31841	0.1029813	0.588079603	5.309E-08	4.37E-05	4.92E-04	1.27E-04	2.27E+00	2.17E+00	8.00E-01
5572	474719.04	3848529.7	0.01061	0.3249	0.00052	0.00083	0.001	9E-04	0.3273	0.3249	0.11070229	0.600066151	5.414E-08	4.37E-05	4.97E-04	1.28E-04	2.32E+00	2.21E+00	8.21E-01
5573	474793.74	3848594.88	0.01119	0.3307	0.00052	0.00084	0.001	9E-04	0.3331	0.3307	0.11675388	0.61077832	5.414E-08	4.42E-05	5.06E-04	1.29E-04	2.36E+00	2.25E+00	8.39E-01
5574	474868.45	3848660.07	0.01192	0.33254	0.00052	0.00085	0.001	9E-04	0.3348	0.33254	0.12437053	0.614176663	5.414E-08	4.48E-05	5.11E-04	1.29E-04	2.37E+00	2.26E+00	8.50E-01
5575	474943.15	3848725.25	0.01272	0.33857	0.00053	0.00085	0.001	9E-04	0.3408	0.33857	0.13271755	0.625313625	5.518E-08	4.48E-05	5.16E-04	1.31E-04	2.41E+00	2.30E+00	8.71E-01
5576	475017.86	3848790.43	0.01363	0.3498	0.00053	0.00086	0.001	9E-04	0.352	0.3498	0.14221228	0.6460546	5.518E-08	4.53E-05	5.21E-04	1.32E-04	2.49E+00	2.38E+00	9.05E-01
5577	475092.56	3848855.61	0.01462	0.35722	0.00054	0.00087	0.001	1E-03	0.3595	0.35722	0.15254171	0.659758789	5.622E-08	4.58E-05	5.25E-04	1.34E-04	2.55E+00	2.43E+00	9.31E-01
5578	475232.58	3848959.38	0.0186	0.30111	0.00055	0.00089	0.001	1E-03	0.3031	0.30111	0.19406811	0.556127789	5.726E-08	4.69E-05	5.35E-04	1.36E-04	2.15E+00	2.05E+00	8.51E-01
5579	475368.47	3849029.98	0.02082	0.31191	0.00055	0.0009	0.001	1E-03	0.3165	0.31191	0.21723108	0.576074586	5.726E-08	4.74E-05	5.39E-04	1.38E-04	2.24E+00	2.12E+00	9.15E-01
5580	475609.57	3849096.09	0.02204	0.25967	0.00056	0.0009	0.001	1E-03	0.2626	0.25967	0.22996027	0.479591189	5.83E-08	4.74E-05	5.35E-04	1.38E-04	1.86E+00	1.77E+00	8.05E-01
5581	475680.68	3849116.62	0.02105	0.29809	0.00057	0.0009	0.001	1E-03	0.3032	0.29809	0.21963084	0.550550074	5.934E-08	4.74E-05	5.35E-04	1.39E-04	2.15E+00	2.03E+00	8.92E-01
5582	475843.76	3849151.52	0.02038	0.36833	0.00059	0.00091	0.001	0.001	0.3736	0.36833	0.21264022	0.680278133	6.142E-08	4.79E-05	5.30E-04	1.41E-04	2.65E+00	2.50E+00	1.04E+00
5583	475935.73	3849165.89	0.01997	0.33898	0.00061	0.00091	0.001	0.001	0.3425	0.33898	0.20836237	0.626070864	6.35E-08	4.79E-05	5.30E-04	1.42E-04	2.43E+00	2.31E+00	9.57E-01
5584	476027.7	3849180.26	0.02027	0.33873	0.00062	0.00091	0.001	0.001	0.3416	0.33873	0.2114925	0.625609133	6.455E-08	4.79E-05	5.25E-04	1.42E-04	2.42E+00	2.30E+00	9.55E-01
5585	476119.68	3849194.64	0.02152	0.35443	0.00063	0.00091	0.001	0.001	0.3566	0.35443	0.22453471	0.654605866	6.559E-08	4.79E-05	5.21E-04	1.42E-04	2.53E+00	2.41E+00	9.96E-01
5586	476211.65	3849209.01	0.02209	0.35068	0.00064	0.0009	0.001	0.001	0.352	0.35068	0.23048196	0.647679895	6.663E-08	4.74E-05	5.21E-04	1.41E-04	2.49E+00	2.38E+00	9.88E-01
5587	476497.8	3849283.9	0.02318	0.45507	0.00067	0.00091	0.001	0.001	0.4656	0.45507	0.24185477	0.840480466	6.975E-08	4.79E-05	5.16E-04	1.41E-04	3.30E+00	3.09E+00	1.29E+00
5588	476603.73	3849323.77	0.02398	0.45322	0.00068	0.00092	0.001	0.001	0.4631	0.45322	0.25020179	0.837063653	7.079E-08	4.85E-05	5.16E-04	1.42E-04	3.28E+00	3.08E+00	1.29E+00
5589	476728.99	3849382.76	0.02537	0.4182	0.0007	0.00093	0.001	0.001	0.4255	0.4182	0.26470473	0.772384316	7.287E-08	4.90E-05	5.21E-04	1.43E-04	3.01E+00	2.84E+00	1.21E+00
5590	476801.27	3849418.65	0.02629	0.41796	0.0007	0.00093	0.001	0.001	0.4239	0.41796	0.27430379	0.771941054	7.287E-08	4.90E-05	5.25E-04	1.43E-04	3.00E+00	2.84E+00	1.21E+00
5591	476956.2	3849495.05	0.02784	0.41813	0.00072	0.00095	0.001	0.001	0.4222	0.41813	0.29047614	0.772255031	7.496E-08	5.00E-05	5.30E-04	1.45E-04	2.99E+00	2.84E+00	1.21E+00
5592	477038.84	3849535.56	0.02876	0.42383	0.00072	0.00095	0.001	0.001	0.427	0.42383	0.3000752	0.782782508	7.496E-08	5.00E-05	5.30E-04	1.45E-04	3.03E+00	2.88E+00	1.23E+00
5593	477121.48	3849576.08	0.02953	0.4221	0.00073	0.00096	0.001	0.001	0.424	0.4221	0.30810921	0.779587326	7.6E-08	5.06E-05	5.35E-04	1.46E-04	3.00E+00	2.87E+00	1.22E+00
5594	477204.13	3849616.6	0.03046	0.42468	0.00073	0.00097	0.001	0.001	0.4253	0.42468	0.31781261	0.784352394	7.6E-08	5.11E-05	5.35E-04	1.46E-04	3.01E+00	2.89E+00	1.23E+00
5595	477286.78	3849657.12	0.03158	0.39936	0.00073	0.00097	0.001	0.001	0.3983	0.39936	0.32949843	0.737588236	7.6E-08	5.11E-05	5.35E-04	1.46E-04	2.82E+00	2.72E+00	1.17E+00
5596	477369.42	3849697.63	0.03173	0.42449	0.00074	0.00099	0.001	0.001	0.4234	0.42449	0.3310635	0.784001479	7.704E-08	5.21E-05	5.44E-04	1.48E-04	3.00E+00	2.89E+00	1.23E+00
5597	477452.07	3849738.15	0.03237	0.4247	0.00074	0.00099	0.001	0.001	0.4212	0.4247	0.33774111	0.784389333	7.704E-08	5.21E-05	5.44E-04	1.49E-04	2.98E+00	2.89E+00	1.22E+00
5598	477534.71	3849778.67	0.0328	0.43738	0.00075	0.00101	0.001	0.001	0.4337	0.43738	0.34222763	0.807808351	7.808E-08	5.32E-05	5.49E-04	1.51E-04	3.07E+00	2.97E+00	1.25E+00
5599	477617.35	3849819.18	0.03356	0.43578	0.00075	0.00102	0.001	0.001	0.4311	0.43578	0.3501573	0.804853269	7.808E-08	5.37E-05	5.53E-04	1.51E-04	3.05E+00	2.96E+00	1.25E+00
5600	477824.74	3849896.37	0.03758	0.28637	0.00075	0.00104	0.001	0.001	0.2839	0.28637	0.39210105	0.528904105	7.808E-08	5.48E-05	5.63E-04	1.53E-04	2.01E+00	1.95E+00	9.86E-01
5601	477906.31	3849936.37	0.03871	0.29505	0.00074	0.00104	0.001	0.001	0.2906	0.29505	0.40389121	0.54493542	7.704E-08	5.48E-05	5.63E-04	1.52E-04	2.06E+00	2.01E+00	1.00E+00
5602	477987.89	3849976.36	0.0387	0.29547	0.00074	0.00105	0.001	0.001	0.2915	0.29547	0.40378687	0.545711128	7.704E-08	5.53E-05	5.67E-04	1.53E-04	2.07E+00	2.01E+00	1.01E+00
5603	478069.47	3850016.36	0.0388	0.29881	0.00074	0.00106	0.001	0.001	0.2935	0.29881	0.40483025	0.55187986	7.704E-08	5.58E-05	5.67E-04	1.55E-04	2.08E+00	2.03E+00	1.01E+00
5604	478151.04	3850056.35	0.0389	0.30028	0.00073	0.00107	0.001	0.001	0.2942	0.30028	0.40587362	0.554594841	7.6E-08	5.64E-05	5.72E-04	1.55E-04	2.08E+00	2.04E+00	1.00E+00
5605	478232.62	3850096.35	0.03878	0.30338	0.00073	0.00108	0.001	0.001	0.2968	0.30338	0.40462157	0.56032031	7.6E-08	5.69E-05	5.77E-04	1.56E-04	2.10E+00	2.06E+00	1.01E+00
5606	478314.2	3850136.34	0.0387	0.30448	0.00074	0.00109	0.001	0.001	0.2972	0.30448	0.40378687	0.562351929	7.704E-08	5.74E-05	5.81E-04	1.58E-04	2.11E+00	2.07E+00	1.00E+00
5607	478395.77	3850176.34	0.03882	0.30531	0.00074	0.00111	0.001	0.001	0.2973	0.30531	0.40503892	0.563884877	7.704E-08	5.85E-05	5.86E-04	1.60E-04	2.11E+00	2.08E+00	1.00E+00
5608	478575.43	3850244.45	0.04018	0.23338	0.00074	0.00114	0.001	0.001	0.2278	0.23338	0.41922885	0.431035513	7.704E-08	6.00E-05	6.00E-04	1.65E-04	1.61E+00	1.59E+00	8.78E-01
5609	478665.06	3850287.29	0.04109	0.23089	0.00074	0.00116	0.001	0.001	0.225	0.23089	0.42872358	0.426436668	7.704E-08	6.11E-05	6.10E-04	1.67E-04	1.59E+00	1.57E+00	8.80E-01
5610	478754.69	3850330.14	0.04158	0.22819	0.00074	0.00118	0.001	0.001	0.222	0.22819	0.43383613	0.421449969	7.704E-08	6.22E-05	6.14E-04	1.70E-04	1.57E+00	1.55E+00	8.78E-01
5611	478844.32	3850372.99	0.04218	0.22383	0.00074	0.0012	0.001	0.001	0.2176	0.22383	0.44009639	0.413397373	7.704E-08	6.32E-05	6.24E-04	1.74E-04	1.54E+00	1.52E+00	8.74E-01
5612	478933.95	3850415.84	0.04321	0.21848	0.00075	0.00121	0.001	0.001	0.2125	0.21848	0.45084317	0.403516321	7.808E-08	6.37E-05	6.38E-04	1.79E-04	1.51E+00	1.49E+00	8.75E-01
5613	479023.58	3850458.68	0.04606	0.22115	0.00075	0.00123	0.001	0.001	0.2143	0.22115	0.48057941	0.408447612	7.808E-08	6.48E-05	6.47E-04	1.81E-04	1.52E+00	1.50E+00	9.05E-01
5614	479110.66	3850441.9	0.03839	0.12539	0.00074	0.00124	0.001	0.001	0.1234	0.12539	0.4005524	0.23158601	7.704E-08	6.53E-05	6.52E-04	1.86E-04	8.74E-01	8.53E-01	6.55E-01
5615	479191.22	3850423.99	0.03724	0.08799	0.00074	0.00124	0.001	0.001	0.0872	0.08799	0.38855357	0.16251099	7.704E-08	6.53E-05	6.52E-04	1.87E-04	6.18E-01	5.98E-01	5.71E-01
5616	479274.32	3850465.71	0.04712	0.08895	0.00074	0.00125	0.001	0.001	0.088	0.08895	0.49163921	0.164284039	7.704E-08	6.58E-05	6.56E-04	1.90E-04	6.24E-01	6.05E-01	6.76E-01
5617	479357.43	3850507.42	0.0512	0.08982	0.00074	0.00126	0.001	0.001	0.0887	0.08982	0.53420899	0.165890864	7.704E-08	6.64E-05	6.66E-04	1.91E-04	6.29E-01	6.11E-01	7.19E-01
5618	479440.53	3850549.14	0.05317	0.08972	0.00075	0.00127	0.001	0.001	0.0885	0.08972	0.55476351	0.165706171	7.808E-08	6.69E-05	6.71E-04	1.93E-04	6.27E-01	6.10E-01	7.38E-01
5619	479523.64	3850590.85	0.05419	0.08985	0.00075	0.00128	0.001	0.001	0.0885	0.08985	0.56540596	0.165946272	7.808E-08	6.74E-05	6.75E-04	1.94E-04	6.27E-01	6.11E-01	7.49E-01
5620	479606.74	3850632.57	0.05481	0.09058	0.00076	0.00128	0.001	0.001	0.0892	0.09058	0.57187489	0.167294527	7.912E-08	6.74E-05	6.85E-04	1.96E-04	6.32E-01	6.16E-01	7.56E-01
5621	479777.37	3850707.61	0.05127	0.08622	0.00077	0.00129	0.001	0.001	0.0849	0.08622	0.53493935	0.159241931	8.016E-08	6.79E-05	6.99E-04	1.96E-04	6.01E-01	5.86E-01	7.10E-01
5622	479864.9	3850740.95	0.0458	0.08244	0.00077	0.0013	0.002	0.001	0.0812	0.08244	0.47786663	0.152260552	8.016E-08	6.85E-05	7.03E-04	1.97E-04	5.76E-01	5.61E-01	6.46E-01

5623	479931.87	3850829.56	0.04528	0.11438	0.00079	0.00133	0.002	0.001	0.112	0.11438	0.47244107	0.211251358	8.224E-08	7.01E-05	7.13E-04	2.01E-04	7.93E-01	7.78E-01	7.00E-01
5624	479995.55	3850926.75	0.0433	0.20578	0.00081	0.00137	0.002	0.001	0.1992	0.20578	0.45178221	0.380060365	8.433E-08	7.22E-05	7.17E-04	2.07E-04	1.41E+00	1.40E+00	8.45E-01
5625	480079.78	3850968.64	0.04229	0.20497	0.00082	0.00138	0.002	0.001	0.1996	0.20497	0.4412441	0.378564355	8.537E-08	7.27E-05	7.27E-04	2.10E-04	1.41E+00	1.39E+00	8.42E-01
5626	480164.01	3851010.54	0.04183	0.20492	0.00083	0.00139	0.002	0.002	0.2009	0.20492	0.43644457	0.378472009	8.641E-08	7.32E-05	7.32E-04	2.11E-04	1.42E+00	1.39E+00	8.46E-01
5627	480248.23	3851052.43	0.04154	0.20363	0.00085	0.0014	0.002	0.002	0.2009	0.20363	0.43341878	0.376089475	8.849E-08	7.37E-05	7.36E-04	2.12E-04	1.42E+00	1.38E+00	8.49E-01
5628	480332.46	3851094.33	0.04147	0.20539	0.00086	0.00141	0.002	0.002	0.2035	0.20539	0.43268841	0.379340064	8.953E-08	7.43E-05	7.46E-04	2.14E-04	1.44E+00	1.40E+00	8.59E-01
5629	480416.69	3851136.22	0.04158	0.20931	0.00087	0.00142	0.002	0.002	0.2078	0.20931	0.43383613	0.386580012	9.057E-08	7.48E-05	7.50E-04	2.15E-04	1.47E+00	1.42E+00	8.71E-01
5630	480579.95	3851215.17	0.04154	0.20622	0.0009	0.00144	0.002	0.002	0.2064	0.20622	0.43341878	0.380873012	9.37E-08	7.59E-05	7.60E-04	2.19E-04	1.46E+00	1.40E+00	8.76E-01
5631	480658.98	3851252.22	0.04174	0.20167	0.00092	0.00146	0.002	0.002	0.2028	0.20167	0.43550553	0.3724695	9.578E-08	7.69E-05	7.64E-04	2.22E-04	1.44E+00	1.37E+00	8.75E-01
5632	480817.36	3851327.85	0.04286	0.19615	0.00096	0.00149	0.002	0.002	0.199	0.19615	0.44719135	0.362274471	9.994E-08	7.85E-05	7.74E-04	2.29E-04	1.41E+00	1.33E+00	8.87E-01
5633	480896.71	3851366.42	0.04301	0.19462	0.00099	0.0015	0.002	0.002	0.1983	0.19462	0.44875642	0.359448674	1.031E-07	7.90E-05	7.78E-04	2.34E-04	1.40E+00	1.32E+00	8.91E-01
5634	480976.07	3851405	0.04301	0.193	0.00102	0.00152	0.002	0.002	0.1975	0.193	0.44875642	0.356456655	1.062E-07	8.01E-05	7.83E-04	2.38E-04	1.40E+00	1.31E+00	8.93E-01
5635	481178	3851487.31	0.03837	0.15531	0.0011	0.00156	0.002	0.002	0.1588	0.15531	0.40034373	0.286846026	1.145E-07	8.22E-05	7.88E-04	2.48E-04	1.13E+00	1.06E+00	7.57E-01
5636	481244.9	3851557.17	0.03691	0.19382	0.00113	0.00159	0.002	0.002	0.1956	0.19382	0.38511042	0.357971134	1.176E-07	8.38E-05	7.97E-04	2.55E-04	1.39E+00	1.32E+00	8.12E-01
5637	481311.81	3851627.03	0.03388	0.2224	0.00116	0.00163	0.002	0.002	0.2233	0.2224	0.3534961	0.41075627	1.208E-07	8.59E-05	8.11E-04	2.60E-04	1.58E+00	1.51E+00	8.36E-01
5638	481378.71	3851696.89	0.03154	0.21393	0.00118	0.00167	0.002	0.002	0.214	0.21393	0.32908108	0.395112809	1.228E-07	8.80E-05	8.25E-04	2.67E-04	1.52E+00	1.45E+00	7.87E-01
5639	481445.61	3851766.76	0.02967	0.21141	0.00121	0.00171	0.002	0.002	0.2116	0.21141	0.30956993	0.390458556	1.26E-07	9.01E-05	8.35E-04	2.73E-04	1.50E+00	1.44E+00	7.63E-01
5640	481512.51	3851836.62	0.02892	0.2112	0.00124	0.00175	0.002	0.002	0.2114	0.2112	0.30174461	0.390070702	1.291E-07	9.22E-05	8.49E-04	2.80E-04	1.50E+00	1.44E+00	7.54E-01
5641	481579.42	3851906.48	0.02888	0.20981	0.00126	0.00179	0.002	0.002	0.21	0.20981	0.30132726	0.387503475	1.312E-07	9.43E-05	8.63E-04	2.87E-04	1.49E+00	1.43E+00	7.51E-01
5642	481646.32	3851976.34	0.02901	0.21162	0.00129	0.00184	0.002	0.002	0.2117	0.21162	0.30268365	0.390846411	1.343E-07	9.69E-05	8.77E-04	2.95E-04	1.50E+00	1.44E+00	7.56E-01
5643	481713.22	3852046.2	0.02919	0.21015	0.00131	0.00189	0.002	0.002	0.2103	0.21015	0.30456172	0.38813143	1.364E-07	9.96E-05	8.91E-04	3.02E-04	1.49E+00	1.43E+00	7.55E-01
5644	481780.12	3852116.06	0.02939	0.21194	0.00134	0.00194	0.002	0.002	0.2121	0.21194	0.30664848	0.391437427	1.395E-07	1.02E-04	9.05E-04	3.11E-04	1.50E+00	1.44E+00	7.61E-01
5645	481847.03	3852185.92	0.02964	0.21488	0.00138	0.002	0.002	0.002	0.215	0.21488	0.30925692	0.396867388	1.437E-07	1.05E-04	9.19E-04	3.24E-04	1.52E+00	1.46E+00	7.69E-01
5646	481913.93	3852255.78	0.0299	0.21645	0.00142	0.00206	0.002	0.002	0.2166	0.21645	0.3119697	0.399767062	1.478E-07	1.09E-04	9.38E-04	3.36E-04	1.53E+00	1.47E+00	7.76E-01
5647	481980.83	3852325.65	0.03017	0.21905	0.00147	0.00213	0.002	0.003	0.2191	0.21905	0.31478682	0.404569069	1.53E-07	1.12E-04	9.52E-04	3.53E-04	1.55E+00	1.49E+00	7.84E-01
5648	482047.73	3852395.51	0.03044	0.21957	0.00152	0.0022	0.002	0.003	0.2199	0.21957	0.31760394	0.40552947	1.582E-07	1.16E-04	9.66E-04	3.69E-04	1.56E+00	1.49E+00	7.90E-01
5649	482114.64	3852465.37	0.03067	0.21974	0.00159	0.00227	0.002	0.003	0.22	0.21974	0.3200037	0.405843447	1.655E-07	1.20E-04	9.80E-04	3.88E-04	1.56E+00	1.49E+00	7.92E-01
5650	482181.54	3852535.23	0.03096	0.2228	0.00166	0.00236	0.002	0.003	0.223	0.2228	0.3230295	0.41149504	1.728E-07	1.24E-04	9.99E-04	4.08E-04	1.58E+00	1.52E+00	8.01E-01
5651	482338.69	3852700.04	0.03177	0.22785	0.00189	0.0026	0.002	0.003	0.2279	0.22785	0.33148085	0.420822014	1.968E-07	1.37E-04	1.04E-03	4.67E-04	1.61E+00	1.55E+00	8.19E-01
5652	482404.05	3852767.78	0.03227	0.22617	0.00202	0.00272	0.002	0.004	0.2264	0.22617	0.33669773	0.417719179	2.103E-07	1.43E-04	1.06E-03	4.95E-04	1.60E+00	1.54E+00	8.22E-01
5653	482469.4	3852835.52	0.03305	0.22759	0.00218	0.00286	0.002	0.004	0.2275	0.22759	0.34483607	0.420341814	2.27E-07	1.51E-04	1.08E-03	5.25E-04	1.61E+00	1.55E+00	8.32E-01
5654	482534.75	3852903.25	0.03503	0.22745	0.00236	0.00303	0.002	0.004	0.2273	0.22745	0.36549494	0.420083244	2.457E-07	1.60E-04	1.10E-03	5.56E-04	1.61E+00	1.55E+00	8.51E-01
5655	482600.11	3852970.99	0.03753	0.22195	0.00257	0.00321	0.002	0.004	0.2227	0.22195	0.39157936	0.409925153	2.676E-07	1.69E-04	1.13E-03	5.91E-04	1.58E+00	1.51E+00	8.72E-01
5656	482706.71	3853119.28	0.03942	0.1797	0.00298	0.00372	0.003	0.005	0.1823	0.1797	0.41129918	0.331892543	3.102E-07	1.96E-04	1.17E-03	6.84E-04	1.29E+00	1.22E+00	8.15E-01
5657	482747.96	3853199.84	0.04025	0.18237	0.0032	0.00406	0.003	0.005	0.1846	0.18237	0.41995921	0.336823835	3.331E-07	2.14E-04	1.20E-03	7.53E-04	1.31E+00	1.24E+00	8.27E-01
5658	482789.21	3853280.4	0.04197	0.17218	0.00346	0.00447	0.003	0.006	0.1767	0.17218	0.4379053	0.318003662	3.602E-07	2.35E-04	1.22E-03	8.40E-04	1.25E+00	1.17E+00	8.39E-01
5659	482830.46	3853360.96	0.04442	0.14521	0.00373	0.00499	0.003	0.007	0.1582	0.14521	0.46346803	0.268192077	3.883E-07	2.63E-04	1.25E-03	9.59E-04	1.12E+00	9.87E-01	8.67E-01
5660	482871.71	3853441.52	0.04706	0.1247	0.00403	0.00568	0.003	0.008	0.1428	0.1247	0.49101318	0.230311631	4.195E-07	2.99E-04	1.28E-03	1.14E-03	1.01E+00	8.48E-01	8.88E-01
5661	482912.95	3853522.07	0.05011	0.10879	0.00433	0.00666	0.003	0.01	0.1339	0.10879	0.52283618	0.200927044	4.508E-07	3.51E-04	1.31E-03	1.42E-03	9.49E-01	7.40E-01	9.36E-01
5662	482954.2	3853602.63	0.05342	0.08951	0.00465	0.00812	0.003	0.013	0.1278	0.08951	0.55737195	0.165318317	4.841E-07	4.28E-04	1.35E-03	1.89E-03	9.05E-01	6.09E-01	1.02E+00
5663	482995.45	3853683.19	0.05691	0.07488	0.005	0.01058	0.003	0.021	0.1226	0.07488	0.59378581	0.138297794	5.205E-07	5.57E-04	1.39E-03	2.90E-03	8.68E-01	5.09E-01	1.10E+00
5664	483036.7	3853763.75	0.06077	0.06427	0.00538	0.01545	0.003	0.04	0.1182	0.06427	0.63406016	0.118701913	5.601E-07	8.14E-04	1.43E-03	5.65E-03	8.37E-01	4.37E-01	1.16E+00
5665	483214.2	3853909.91	0.0708	0.03611	0.00572	0.12116	0.003	0.196	0.066	0.03611	0.73871086	0.066692486	5.955E-07	6.38E-03	1.52E-03	2.76E-02	4.68E-01	2.46E-01	1.06E+00
5666	483307.01	3853910.44	0.06679	0.03004	0.00521	0.10048	0.003	0.114	0.0512	0.03004	0.69687145	0.055481647	5.424E-07	5.29E-03	1.53E-03	1.60E-02	3.63E-01	2.04E-01	9.34E-01
5667	483399.83	3853910.96	0.06241	0.02556	0.00496	0.07614	0.003	0.079	0.042	0.02556	0.65117154	0.04720742	5.164E-07	4.01E-03	1.54E-03	1.12E-02	2.98E-01	1.74E-01	8.39E-01
5668	483494.52	3854009.24	0.07121	0.02293	0.0057	0.12495	0.003	0.086	0.0465	0.02293	0.74298871	0.042350006	5.934E-07	6.58E-03	1.60E-03	1.21E-02	3.29E-01	1.56E-01	9.79E-01
5669	483496.41	3854106.98	0.07511	0.02347	0.00677	0.25774	0.004	0.139	0.0682	0.02347	0.78368041	0.043347346	7.048E-07	1.36E-02	1.66E-03	1.95E-02	4.83E-01	1.60E-01	1.19E+00
5670	483577.56	3854261.96	0.0775	0.02106	0.009	0.76009	0.004	0.334	0.1261	0.02106	0.80861712	0.038896255	9.37E-07	4.00E-02	1.78E-03	4.69E-02	8.93E-01	1.43E-01	1.69E+00
5671	483656.83	3854319.19	0.0789	0.01897	0.01099	0.96169	0.004	0.322	0.1343	0.01897	0.8232244	0.03503618	1.144E-06	5.07E-02	1.80E-03	4.52E-02	9.52E-01	1.29E-01	1.78E+00
5672	483736.1	3854376.41	0.08108	0.01727	0.01536	0.9573	0.004	0.308	0.1427	0.01727	0.84597001	0.031896406	1.599E-06	5.04E-02	1.84E-03	4.33E-02	1.01E+00	1.17E-01	1.87E+00
5673	483815.36	3854433.64	0.0836	0.01593	0.02003	0.9691	0.004	0.296	0.1534	0.01593	0.87226311	0.029421526	2.085E-06	5.10E-02	1.89E-03	4.16E-02	1.09E+00	1.08E-01	1.97E+00
5674	483894.63	3854490.87	0.0866	0.01481	0.02629	0.98243	0.004	0.283	0.1654	0.01481	0.90356442	0.027352969	2.737E-06	5.17E-02	1.93E-03	3.99E-02	1.17E+00	1.01E-01	2.10E+00
5675	483973.9	3854548.09	0.09025	0.01395	0.03409	0.98591	0.004	0.269	0.1777	0.01395	0.94164768	0.025764613	3.549E-06	5.19E-02	1.97E-03	3.78E-02	1.26E+00	9.49E-02	2.22E+00
5676	484053.17	3854605.32	0.09382	0.01343	0.04221	1.00847	0.004	0.261	0.1966	0.01343	0.97889623	0.024804212	4.394E-06	5.31E-02	2.03E-03	3.67E-02	1.39E+00	9.13E-02	2.40E+00
5677	484214.97	3854698.15	0.09548	0.0126	0.04953	0.94975	0.005	0.22	0.2029	0.0126	0.99621629	0.023271263	5.156E-06	5.00E-02	2.13E-03	3.09E-02	1.44E+00	8.57E-02	2.45E+00
5678	484297.5	3854733.74	0.09495	0.01244	0.04977	0.99342	0.005	0.221	0.2064	0.01244	0.99068639	0.022975755	5.181E-06	5.23E-02	2.19E-03	3.11E-02	1.46E+00	8.46E-02	2.48E+00
5679	484380.03	3854769.34	0.09665	0.01212	0.04789	1.05288	0.005	0.213	0.2027	0.01212	1.0084238	0.022384739	4.986E-06	5.55E-02	2.24E-03	3.00E-02	1.44E+00	8.24E-02	2.47E+00
5680	484462.56	3854804.94	0.09763	0.01204	0.04567	1.11756	0.005	0.208	0.2016	0.01204	1.01864889	0.022236985	4.755E-06	5.89E-02	2.30E-03	2.93E-02	1.43E+00	8.19E-02	2.48E+00

5681	484545.09	3854840.53	0.09955	0.01173	0.04162	1.02194	0.005	0.197	0.1938	0.01173	1.03868173	0.021664438	4.333E-06	5.38E-02	2.36E-03	2.77E-02	1.37E+00	7.98E-02	2.44E+00
5682	484691.88	3854912.58	0.10009	0.01174	0.03516	0.91386	0.005	0.207	0.2037	0.01174	1.04431597	0.021682907	3.66E-06	4.81E-02	2.52E-03	2.91E-02	1.44E+00	7.98E-02	2.51E+00
5683	484830.81	3855012.51	0.09809	0.01191	0.02855	0.92674	0.006	0.22	0.1721	0.01191	1.02344843	0.021996885	2.972E-06	4.88E-02	2.72E-03	3.10E-02	1.22E+00	8.10E-02	2.27E+00
5684	484905.48	3855075.97	0.09739	0.01237	0.02544	0.94854	0.006	0.211	0.159	0.01237	1.01614479	0.022846471	2.648E-06	5.00E-02	2.87E-03	2.96E-02	1.13E+00	8.41E-02	2.16E+00
5685	484980.14	3855139.44	0.09702	0.01263	0.02274	0.96398	0.006	0.208	0.1506	0.01263	1.01228429	0.023326671	2.367E-06	5.08E-02	3.03E-03	2.93E-02	1.07E+00	8.59E-02	2.10E+00
5686	485054.81	3855202.91	0.09706	0.01273	0.02079	0.81555	0.007	0.202	0.1423	0.01273	1.01270165	0.023511364	2.164E-06	4.30E-02	3.19E-03	2.84E-02	1.01E+00	8.66E-02	2.03E+00
5687	485129.48	3855266.37	0.09785	0.01258	0.01932	0.71572	0.007	0.194	0.1319	0.01258	1.02094432	0.023234325	2.011E-06	3.77E-02	3.36E-03	2.73E-02	9.34E-01	8.55E-02	1.96E+00
5688	485204.15	3855329.84	0.0971	0.01288	0.01946	0.81507	0.008	0.199	0.1299	0.01288	1.013119	0.023788403	2.026E-06	4.29E-02	3.56E-03	2.79E-02	9.20E-01	8.76E-02	1.94E+00
5689	485278.82	3855393.31	0.09709	0.01294	0.02037	0.73281	0.008	0.194	0.1234	0.01294	1.01301466	0.023899218	2.121E-06	3.86E-02	3.78E-03	2.73E-02	8.75E-01	8.80E-02	1.89E+00
5690	485353.48	3855456.77	0.0967	0.01313	0.02104	0.7799	0.009	0.194	0.1188	0.01313	1.00894549	0.024250134	2.19E-06	4.11E-02	4.03E-03	2.72E-02	8.42E-01	8.93E-02	1.86E+00
5691	485428.15	3855520.24	0.0967	0.01318	0.02336	0.58737	0.009	0.189	0.113	0.01318	1.00894549	0.02434248	2.432E-06	3.09E-02	4.30E-03	2.66E-02	8.01E-01	8.96E-02	1.81E+00
5692	485502.82	3855583.71	0.09656	0.01326	0.02672	0.79237	0.01	0.187	0.1085	0.01326	1.00748476	0.024490234	2.782E-06	4.17E-02	4.60E-03	2.63E-02	7.69E-01	9.02E-02	1.78E+00
5693	485577.49	3855647.17	0.09589	0.01355	0.0312	0.55654	0.011	0.186	0.1058	0.01355	1.00049414	0.025025843	3.248E-06	2.93E-02	4.95E-03	2.62E-02	7.49E-01	9.21E-02	1.74E+00
5694	485652.16	3855710.64	0.09526	0.01384	0.03762	0.77733	0.011	0.184	0.1029	0.01384	0.99392086	0.025561451	3.916E-06	4.09E-02	5.38E-03	2.59E-02	7.29E-01	9.41E-02	1.73E+00
5695	485726.83	3855774.1	0.09504	0.01393	0.04281	0.54895	0.012	0.181	0.0987	0.01393	0.99162543	0.025727675	4.457E-06	2.89E-02	5.82E-03	2.54E-02	6.99E-01	9.47E-02	1.68E+00
5696	485801.49	3855837.57	0.09507	0.01389	0.04624	0.63975	0.013	0.177	0.0943	0.01389	0.99193844	0.025653798	4.814E-06	3.37E-02	6.33E-03	2.49E-02	6.68E-01	9.44E-02	1.66E+00
5697	485876.16	3855901.04	0.09484	0.01396	0.04768	0.5238	0.015	0.177	0.0915	0.01396	0.98953868	0.025783082	4.964E-06	2.76E-02	6.92E-03	2.49E-02	6.48E-01	9.49E-02	1.63E+00
5698	485950.83	3855964.5	0.09476	0.01394	0.04612	0.60728	0.016	0.175	0.0886	0.01394	0.98870398	0.025746144	4.801E-06	3.20E-02	7.59E-03	2.45E-02	6.28E-01	9.48E-02	1.61E+00
5699	486025.5	3856027.97	0.09495	0.0138	0.04187	0.50575	0.018	0.172	0.085	0.0138	0.99068639	0.025487574	4.359E-06	2.66E-02	8.33E-03	2.42E-02	6.02E-01	9.38E-02	1.58E+00
5700	486100.17	3856091.44	0.09399	0.01416	0.03779	0.57766	0.02	0.171	0.0847	0.01416	0.98066997	0.026152468	3.934E-06	3.04E-02	9.36E-03	2.41E-02	6.00E-01	9.63E-02	1.57E+00
5701	486174.83	3856154.9	0.09422	0.01395	0.03216	0.50297	0.022	0.167	0.0806	0.01395	0.98306974	0.025764613	3.348E-06	2.65E-02	1.04E-02	2.35E-02	5.71E-01	9.49E-02	1.55E+00
5702	486249.5	3856218.37	0.09514	0.01347	0.02665	0.53233	0.025	0.163	0.0756	0.01347	0.99266881	0.024878089	2.774E-06	2.80E-02	1.16E-02	2.29E-02	5.35E-01	9.16E-02	1.52E+00
5703	486324.17	3856281.84	0.09585	0.01314	0.02239	0.50912	0.028	0.163	0.0734	0.01314	1.00007678	0.024268603	2.331E-06	2.68E-02	1.31E-02	2.30E-02	5.20E-01	8.94E-02	1.52E+00
5704	486398.84	3856345.3	0.09507	0.01329	0.01977	0.52197	0.032	0.163	0.0741	0.01329	0.99193844	0.024545642	2.058E-06	2.75E-02	1.51E-02	2.30E-02	5.25E-01	9.04E-02	1.52E+00
5705	486473.51	3856408.77	0.09459	0.01332	0.01757	0.50517	0.038	0.163	0.0727	0.01332	0.98693024	0.02460105	1.829E-06	2.66E-02	1.76E-02	2.29E-02	5.15E-01	9.06E-02	1.50E+00
5706	486548.17	3856472.24	0.09363	0.0135	0.01594	0.51252	0.045	0.162	0.0721	0.0135	0.97691382	0.024933497	1.659E-06	2.70E-02	2.10E-02	2.27E-02	5.11E-01	9.18E-02	1.49E+00
5707	486622.84	3856535.7	0.09259	0.0137	0.01454	0.73905	0.054	0.159	0.071	0.0137	0.9660627	0.025302882	1.514E-06	3.89E-02	2.54E-02	2.24E-02	5.03E-01	9.32E-02	1.49E+00
5708	486765.48	3856659.69	0.09089	0.01425	0.01252	0.52398	0.085	0.159	0.068	0.01425	0.94832529	0.026318691	1.303E-06	2.76E-02	3.99E-02	2.24E-02	4.82E-01	9.69E-02	1.45E+00
5709	486833.44	3856720.2	0.09053	0.01447	0.01184	0.95145	0.11	0.162	0.0671	0.01447	0.94456913	0.026725014	1.233E-06	5.01E-02	5.16E-02	2.27E-02	4.75E-01	9.84E-02	1.47E+00
5710	486901.41	3856780.72	0.09005	0.01478	0.01143	0.92514	0.15	0.164	0.0661	0.01478	0.93956092	0.027297561	1.19E-06	4.87E-02	7.03E-02	2.30E-02	4.68E-01	1.01E-01	1.48E+00
5711	486969.38	3856841.24	0.08964	0.01505	0.01113	0.89424	0.219	0.165	0.0653	0.01505	0.93528308	0.027796231	1.159E-06	4.71E-02	1.03E-01	2.33E-02	4.62E-01	1.02E-01	1.50E+00
5712	487037.34	3856901.75	0.0893	0.01532	0.01094	0.8653	0.365	0.167	0.0646	0.01532	0.9317356	0.028294901	1.139E-06	4.56E-02	1.71E-01	2.35E-02	4.58E-01	1.04E-01	1.55E+00
5713	487271.23	3856855.51	0.05874	0.01356	0.01021	0.11549	1.325	0.06	0.0359	0.01356	0.61287961	0.025044312	1.063E-06	6.08E-03	6.21E-01	8.51E-03	2.54E-01	9.22E-02	1.44E+00
5714	487368.95	3856857.29	0.05385	0.01313	0.00986	0.08932	1.594	0.051	0.0314	0.01313	0.56185848	0.024250134	1.026E-06	4.70E-03	7.47E-01	7.21E-03	2.22E-01	8.93E-02	1.48E+00
5715	487466.68	3856859.06	0.04986	0.01278	0.00979	0.07316	1.66	0.045	0.028	0.01278	0.52022774	0.02360371	1.019E-06	3.85E-03	7.78E-01	6.31E-03	1.98E-01	8.69E-02	1.44E+00
5716	487636.44	3856930	0.04637	0.01266	0.00935	0.06265	2.158	0.041	0.0253	0.01266	0.48381388	0.023382079	9.734E-07	3.30E-03	1.01E+00	5.76E-03	1.79E-01	8.61E-02	1.62E+00
5717	487709.57	3856928.43	0.04413	0.01241	0.00924	0.05618	2.056	0.038	0.0235	0.01241	0.46044224	0.022920348	9.619E-07	2.96E-03	9.64E-01	5.35E-03	1.67E-01	8.44E-02	1.54E+00
5718	487782.55	3856841.96	0.04038	0.01158	0.00955	0.0459	1.217	0.033	0.0205	0.01158	0.4213156	0.021387399	9.942E-07	2.42E-03	5.71E-01	4.58E-03	1.45E-01	7.87E-02	1.09E+00
5719	487849.83	3856754.74	0.0375	0.0109	0.00985	0.03919	0.922	0.029	0.0183	0.0109	0.39126635	0.02013149	1.025E-06	2.06E-03	4.32E-01	4.04E-03	1.30E-01	7.41E-02	9.06E-01
5720	487918.03	3856819.39	0.03724	0.01113	0.0096	0.03939	1.344	0.029	0.0183	0.01113	0.38855357	0.020556283	9.994E-07	2.07E-03	6.30E-01	4.10E-03	1.30E-01	7.57E-02	1.10E+00
5721	487918.8	3856886.37	0.0383	0.01153	0.0094	0.04213	1.595	0.031	0.0192	0.01153	0.39961336	0.021295053	9.786E-07	2.22E-03	7.48E-01	4.35E-03	1.36E-01	7.84E-02	1.23E+00
5722	488065.46	3857127.5	0.03994	0.0126	0.01022	0.04785	2.128	0.035	0.0208	0.0126	0.41672474	0.023271263	1.064E-06	2.52E-03	9.98E-01	4.99E-03	1.47E-01	8.57E-02	1.51E+00
5723	488192.19	3857385.83	0.04321	0.01455	0.01538	0.05866	1.807	0.044	0.0235	0.01455	0.45084317	0.026872769	1.601E-06	3.09E-03	8.47E-01	6.25E-03	1.66E-01	9.89E-02	1.40E+00
5724	488191.21	3857473.87	0.04608	0.01563	0.01954	0.068	1.674	0.051	0.0257	0.01563	0.48078809	0.028867448	2.034E-06	3.58E-03	7.85E-01	7.15E-03	1.82E-01	1.06E-01	1.38E+00
5725	488190.24	3857561.9	0.0496	0.0169	0.02562	0.08112	1.5	0.06	0.0284	0.0169	0.51751496	0.031213044	2.667E-06	4.27E-03	7.03E-01	8.40E-03	2.01E-01	1.15E-01	1.35E+00
5726	488158.35	3857691.13	0.05872	0.01937	0.0416	0.12622	0.998	0.088	0.0355	0.01937	0.61267093	0.03577495	4.331E-06	6.65E-03	4.68E-01	1.24E-02	2.51E-01	1.32E-01	1.25E+00
5727	488208.37	3857816.66	0.06639	0.02168	0.06647	0.17892	0.179	0.138	0.0405	0.02168	0.69269794	0.040041349	6.92E-06	9.42E-03	8.38E-02	1.94E-02	2.87E-01	1.47E-01	9.85E-01
5728	488271.97	3857874.6	0.06675	0.02245	0.07301	0.17955	0.105	0.144	0.0403	0.02245	0.6964541	0.041463481	7.601E-06	9.46E-03	4.91E-02	2.03E-02	2.85E-01	1.53E-01	9.50E-01
5729	488463.56	3857942.31	0.05808	0.02202	0.06371	0.11776	0.076	0.102	0.0337	0.02202	0.60599332	0.040669303	6.633E-06	6.20E-03	3.58E-02	1.43E-02	2.39E-01	1.50E-01	7.92E-01
5730	488554.83	3857940.83	0.0533	0.02093	0.05712	0.09391	0.077	0.085	0.0299	0.02093	0.5561199	0.038656154	5.947E-06	4.95E-03	3.61E-02	1.20E-02	2.12E-01	1.42E-01	7.18E-01
5731	488646.1	3857939.36	0.04978	0.01995	0.05162	0.07916	0.076	0.074	0.027	0.01995	0.51939303	0.036846167	5.374E-06	4.17E-03	3.59E-02	1.04E-02	1.91E-01	1.36E-01	6.62E-01
5732	488737.37	3857937.88	0.0472	0.01905	0.04699	0.06935	0.076	0.066	0.0246	0.01905	0.49247391	0.035183934	4.892E-06	3.65E-03	3.55E-02	9.29E-03	1.75E-01	1.30E-01	6.21E-01
5733	488733.59	3857960.57	0.04848	0.0195	0.04717	0.07247	0.069	0.068	0.0253	0.0195	0.50582913	0.036015051	4.911E-06	3.82E-03	3.26E-02	9.59E-03	1.79E-01	1.33E-01	6.34E-01
5734	488638.09	3857961.57	0.05126	0.02049	0.05221	0.08398	0.07	0.077	0.0279	0.02049	0.53483501	0.037843507	5.435E-06	4.42E-03	3.28E-02	1.09E-02	1.98E-01	1.39E-01	6.79E-01
5735	488542.6	3857962.56	0.05523	0.0216	0.0583	0.10195	0.07	0.09	0.0313	0.0216	0.57625708	0.039893595	6.069E-06	5.37E-03	3.28E-02	1.27E-02	2.22E-01	1.47E-01	7.42E-01
5736	488447.1	3857963.56	0.06088	0.0228	0.06567	0.13313	0.069	0.111	0.0356	0.0228	0.63520787	0.042109905	6.837E-06	7.01E-03	3.24E-02	1.55E-02	2.52E-01	1.55E-01	8.29E-01
5737	488254.28	3857890.36	0.07074	0.02314	0.07718	0.2152	0.092	0.164	0.0428	0.02314	0.73808484	0.04273786	8.035E-06	1.13E-02	4.30E-02	2.30E-02	3.04E-01	1.57E-01	1.00E+00
5738	488191.69	3857833.06	0.07031	0.02228	0.07103	0.21423	0.146	0.161	0.043	0.02228	0.73359832	0.041149504	7.395E-06	1.13E-02	6.83E-02	2.27E-02	3.05E-01	1.52E-01	1.03E+00

5739	488129.5	3857907.43	0.10024	0.02559	0.09478	0.92366	0.068	0.397	0.0586	0.02559	1.04588103	0.047262828	9.867E-06	4.87E-02	3.20E-02	5.59E-02	4.15E-01	1.74E-01	1.47E+00
5740	488196.47	3857968.73	0.10106	0.02678	0.09493	0.92922	0.055	0.362	0.0583	0.02678	1.05443672	0.04946067	9.883E-06	4.89E-02	2.58E-02	5.09E-02	4.13E-01	1.82E-01	1.46E+00
5741	488263.44	3858030.04	0.10197	0.028	0.08497	0.92822	0.047	0.353	0.0576	0.028	1.06393145	0.051713919	8.846E-06	4.89E-02	2.18E-02	4.97E-02	4.08E-01	1.90E-01	1.45E+00
5742	488400.64	3858132.9	0.10005	0.02973	0.05861	0.6123	0.038	0.276	0.0537	0.02973	1.04389862	0.0549091	6.102E-06	3.23E-02	1.79E-02	3.89E-02	3.80E-01	2.02E-01	1.37E+00
5743	488519.89	3858218.38	0.10101	0.03184	0.04333	0.44543	0.032	0.227	0.052	0.03184	1.05391503	0.058806113	4.511E-06	2.35E-02	1.51E-02	3.19E-02	3.69E-01	2.17E-01	1.34E+00
5744	488647.97	3858214.99	0.08729	0.0284	0.03836	0.18051	0.033	0.125	0.0404	0.0284	0.91076372	0.052452689	3.994E-06	9.51E-03	1.55E-02	1.76E-02	2.86E-01	1.93E-01	1.10E+00
5745	488727.05	3858167.67	0.07683	0.02503	0.03847	0.11662	0.036	0.092	0.0332	0.02503	0.80162649	0.04622855	4.005E-06	6.14E-03	1.71E-02	1.30E-02	2.35E-01	1.70E-01	9.49E-01
5746	488806.12	3858120.35	0.07026	0.02239	0.03835	0.08877	0.041	0.075	0.0283	0.02239	0.73307663	0.041352666	3.992E-06	4.68E-03	1.92E-02	1.06E-02	2.01E-01	1.52E-01	8.57E-01
5747	488885.2	3858073.03	0.06548	0.02029	0.03782	0.07326	0.047	0.065	0.0248	0.02029	0.68320321	0.037474122	3.937E-06	3.86E-03	2.20E-02	9.12E-03	1.75E-01	1.38E-01	7.93E-01
5748	489055.76	3857991.17	0.0603	0.01718	0.03458	0.05686	0.061	0.051	0.0199	0.01718	0.62915629	0.031730183	3.6E-06	3.00E-03	2.84E-02	7.22E-03	1.41E-01	1.17E-01	7.24E-01
5749	489245.39	3857944.54	0.06111	0.01517	0.03052	0.04844	0.068	0.043	0.017	0.01517	0.63760764	0.028017862	3.177E-06	2.55E-03	3.19E-02	6.03E-03	1.20E-01	1.03E-01	7.23E-01
5750	489430.63	3857930.91	0.06262	0.01403	0.02726	0.04486	0.068	0.038	0.0152	0.01403	0.65336263	0.025912367	2.838E-06	2.36E-03	3.17E-02	5.35E-03	1.08E-01	9.54E-02	7.31E-01
5751	489517.74	3857929.36	0.06245	0.01359	0.02565	0.04424	0.067	0.036	0.0146	0.01359	0.65158889	0.02509972	2.67E-06	2.33E-03	3.12E-02	5.09E-03	1.03E-01	9.24E-02	7.26E-01
5752	489604.85	3857927.82	0.06154	0.01316	0.02406	0.04383	0.065	0.035	0.014	0.01316	0.64209416	0.024305542	2.505E-06	2.31E-03	3.07E-02	4.86E-03	9.91E-02	8.95E-02	7.14E-01
5753	489691.97	3857926.28	0.06032	0.01278	0.02268	0.04315	0.064	0.033	0.0135	0.01278	0.62936496	0.02360371	2.361E-06	2.27E-03	3.01E-02	4.66E-03	9.53E-02	8.69E-02	6.98E-01
5754	489779.08	3857924.73	0.05895	0.01242	0.02134	0.04296	0.063	0.032	0.013	0.01242	0.6150707	0.022938817	2.222E-06	2.26E-03	2.95E-02	4.48E-03	9.18E-02	8.45E-02	6.82E-01
5755	490017.55	3857875.08	0.04784	0.01124	0.01871	0.04029	0.064	0.028	0.0116	0.01124	0.49915152	0.020759445	1.948E-06	2.12E-03	3.01E-02	3.95E-03	8.19E-02	7.64E-02	5.62E-01
5756	490033.82	3857960.81	0.0471	0.01176	0.01828	0.04827	0.055	0.029	0.012	0.01176	0.49143053	0.021719846	1.903E-06	2.54E-03	2.57E-02	4.10E-03	8.47E-02	8.00E-02	5.50E-01
5757	489959.15	3857987.49	0.04689	0.01226	0.01888	0.05122	0.053	0.03	0.0125	0.01226	0.48923944	0.022643309	1.966E-06	2.70E-03	2.48E-02	4.29E-03	8.84E-02	8.34E-02	5.49E-01
5758	489791.49	3858016.12	0.04484	0.01305	0.02048	0.05333	0.052	0.033	0.0135	0.01305	0.46785021	0.02410238	2.132E-06	2.81E-03	2.43E-02	4.65E-03	9.54E-02	8.87E-02	5.30E-01
5759	489698.51	3858018.07	0.04673	0.01349	0.02188	0.05211	0.052	0.035	0.014	0.01349	0.48757004	0.024915027	2.278E-06	2.74E-03	2.45E-02	4.87E-03	9.95E-02	9.17E-02	5.52E-01
5760	489605.52	3858020.01	0.04864	0.01397	0.02335	0.05209	0.053	0.036	0.0147	0.01397	0.50749854	0.025801552	2.431E-06	2.74E-03	2.47E-02	5.12E-03	1.04E-01	9.50E-02	5.75E-01
5761	489512.53	3858021.96	0.05061	0.01449	0.02497	0.05237	0.053	0.038	0.0154	0.01449	0.52805306	0.026761953	2.6E-06	2.76E-03	2.49E-02	5.39E-03	1.09E-01	9.85E-02	5.98E-01
5762	489419.55	3858023.91	0.05282	0.01507	0.02663	0.05262	0.053	0.041	0.0162	0.01507	0.55111169	0.02783317	2.772E-06	2.77E-03	2.50E-02	5.70E-03	1.15E-01	1.02E-01	6.25E-01
5763	489228.47	3858041.29	0.05855	0.01643	0.0293	0.05627	0.052	0.046	0.0183	0.01643	0.61089719	0.030344989	3.05E-06	2.96E-03	2.44E-02	6.51E-03	1.29E-01	1.12E-01	6.93E-01
5764	489065.75	3858085.78	0.06292	0.0186	0.03184	0.06502	0.046	0.055	0.0214	0.0186	0.65649276	0.034352818	3.315E-06	3.42E-03	2.14E-02	7.71E-03	1.51E-01	1.26E-01	7.48E-01
5765	489001.12	3858114.86	0.06672	0.01981	0.03253	0.07083	0.042	0.06	0.0232	0.01981	0.69614109	0.036587598	3.387E-06	3.73E-03	1.97E-02	8.40E-03	1.64E-01	1.35E-01	7.94E-01
5766	488861.89	3858189.81	0.07531	0.02333	0.03284	0.09443	0.035	0.076	0.0289	0.02333	0.78576716	0.043088776	3.419E-06	4.97E-03	1.62E-02	1.07E-02	2.04E-01	1.59E-01	9.07E-01
5767	488787.29	3858235.69	0.0805	0.02625	0.0327	0.12339	0.031	0.093	0.0338	0.02625	0.83991843	0.048481799	3.404E-06	6.50E-03	1.46E-02	1.31E-02	2.39E-01	1.78E-01	9.84E-01
5768	488712.68	3858281.57	0.08786	0.02975	0.0323	0.18842	0.029	0.126	0.0407	0.02975	0.91671097	0.054946039	3.363E-06	9.92E-03	1.36E-02	1.77E-02	2.89E-01	2.02E-01	1.10E+00
5769	488654.39	3858436.17	0.09483	0.04294	0.0252	0.46978	0.022	0.318	0.0678	0.04294	0.98943434	0.079306988	2.623E-06	2.47E-02	1.03E-02	4.47E-02	4.80E-01	2.92E-01	1.34E+00
5770	488726.3	3858505.26	0.08592	0.04627	0.02151	0.43398	0.02	0.285	0.0684	0.04627	0.89646946	0.085457251	2.239E-06	2.29E-02	9.47E-03	4.01E-02	4.84E-01	3.15E-01	1.22E+00
5771	488880.6	3858599.28	0.09001	0.0474	0.01825	0.72688	0.018	0.372	0.0596	0.0474	0.93914357	0.087544277	1.9E-06	3.83E-02	8.43E-03	5.24E-02	4.22E-01	3.22E-01	1.23E+00
5772	489008.06	3858714.75	0.06237	0.05394	0.01675	0.99922	0.015	0.368	0.0628	0.05394	0.65075419	0.099623171	1.744E-06	5.26E-02	7.25E-03	5.17E-02	4.45E-01	3.67E-01	9.40E-01
5773	489071.48	3858772.72	0.05853	0.05798	0.01672	0.78348	0.014	0.367	0.0663	0.05798	0.61068852	0.10708475	1.741E-06	4.13E-02	6.75E-03	5.16E-02	4.70E-01	3.94E-01	8.93E-01
5774	489244.59	3858920.19	0.05621	0.07017	0.01972	1.23867	0.012	0.348	0.0751	0.07017	0.58648217	0.129598774	2.053E-06	6.52E-02	5.63E-03	4.90E-02	5.32E-01	4.77E-01	8.91E-01
5775	489239.69	3858952.23	0.0596	0.08171	0.02083	0.88362	0.012	0.296	0.0881	0.08171	0.62185265	0.150912297	2.169E-06	4.65E-02	5.49E-03	4.16E-02	6.24E-01	5.56E-01	9.35E-01
5776	489121.67	3858854.49	0.05943	0.07073	0.01753	0.59432	0.013	0.268	0.081	0.07073	0.62007891	0.130633053	1.825E-06	3.13E-02	6.16E-03	3.77E-02	5.74E-01	4.81E-01	9.19E-01
5777	489059.59	3858797.27	0.06038	0.06468	0.01679	0.53986	0.014	0.268	0.0758	0.06468	0.62999099	0.119459152	1.748E-06	2.84E-02	6.58E-03	3.77E-02	5.37E-01	4.40E-01	9.19E-01
5778	488997.52	3858740.04	0.06352	0.05953	0.01661	0.54701	0.015	0.27	0.0709	0.05953	0.66275302	0.109947485	1.729E-06	2.88E-02	7.05E-03	3.80E-02	5.02E-01	4.05E-01	9.44E-01
5779	488935.44	3858682.82	0.07131	0.05528	0.01696	0.51812	0.016	0.284	0.0674	0.05528	0.74403209	0.102098051	1.766E-06	2.73E-02	7.55E-03	4.00E-02	4.78E-01	3.76E-01	1.02E+00
5780	488869.17	3858848.43	0.09634	0.15488	0.01529	0.0755	0.014	0.07	0.3034	0.15488	1.00518933	0.286051848	1.592E-06	3.98E-03	6.68E-03	9.87E-03	2.15E+00	1.05E+00	2.41E+00
5781	488932.48	3858892.69	0.09595	0.16855	0.01598	0.08259	0.014	0.071	0.302	0.16855	1.00112016	0.311299322	1.664E-06	4.35E-03	6.41E-03	9.99E-03	2.14E+00	1.15E+00	2.33E+00
5782	489063.27	3858977.17	0.08929	0.19057	0.01881	0.10953	0.013	0.074	0.2732	0.19057	0.93163126	0.351968625	1.958E-06	5.77E-03	5.88E-03	1.04E-02	1.94E+00	1.30E+00	1.95E+00
5783	489248.2	3859117.15	0.07849	0.30295	0.03034	0.38068	0.011	0.068	0.3527	0.30295	0.81894655	0.559526132	3.159E-06	2.01E-02	5.05E-03	9.62E-03	2.50E+00	2.06E+00	1.85E+00
5784	489296.25	3859049.22	0.06847	0.11892	0.02721	0.3275	0.011	0.127	0.1258	0.11892	0.71440018	0.219636401	2.833E-06	1.73E-02	5.08E-03	1.79E-02	8.92E-01	8.09E-01	1.06E+00
5785	489353.38	3858993.96	0.06421	0.0745	0.02438	0.94685	0.011	0.367	0.0762	0.0745	0.66995232	0.137595963	2.538E-06	4.99E-02	5.12E-03	5.16E-02	5.40E-01	5.07E-01	9.47E-01
5786	489537.24	3859120.22	0.07393	0.08329	0.04749	0.76271	0.009	0.381	0.0838	0.08329	0.77136856	0.153830439	4.944E-06	4.02E-02	4.41E-03	5.36E-02	5.94E-01	5.66E-01	1.05E+00
5787	489726.98	3859246.04	0.07278	0.09327	0.16007	0.79914	0.008	0.37	0.0934	0.09327	0.75936973	0.172262757	1.666E-05	4.21E-02	3.84E-03	5.21E-02	6.62E-01	6.34E-01	1.06E+00
5788	489911.46	3859366.33	0.07106	0.10329	1.14434	0.79912	0.007	0.355	0.1043	0.10329	0.74142364	0.190768953	0.0001191	4.21E-02	3.42E-03	4.99E-02	7.39E-01	7.02E-01	1.06E+00
5789	490035.3	3859430.26	0.0734	0.10259	0.66974	0.9026	0.007	0.389	0.1034	0.10259	0.76583866	0.189476105	6.972E-05	4.75E-02	3.20E-03	5.47E-02	7.33E-01	6.98E-01	1.10E+00
5790	490101.11	3859458.61	0.07088	0.09934	0.40297	0.86992	0.007	0.376	0.1	0.09934	0.73954557	0.183473596	4.195E-05	4.58E-02	3.12E-03	5.29E-02	7.08E-01	6.75E-01	1.06E+00
5791	490312.68	3859560.3	0.06461	0.10743	0.11191	0.88583	0.006	0.311	0.1078	0.10743	0.67412583	0.198415225	1.165E-05	4.67E-02	2.88E-03	4.37E-02	7.63E-01	7.31E-01	9.99E-01
5792	490401.63	3859603.12	0.06662	0.11417	0.07704	0.8873	0.006	0.307	0.1153	0.11417	0.69509771	0.210863504	8.02E-06	4.67E-02	2.80E-03	4.32E-02	8.17E-01	7.76E-01	1.04E+00
5793	490490.57	3859645.94	0.06574	0.12114	0.05654	0.88717	0.006	0.303	0.1231	0.12114	0.68591599	0.223736576	5.886E-06	4.67E-02	2.72E-03	4.26E-02	8.72E-01	8.24E-01	1.05E+00
5794	490579.51	3859688.76	0.06421	0.12775	0.04351	0.88693	0.006	0.298	0.1308	0.12775	0.66995232	0.235944755	4.53E-06	4.67E-02	2.66E-03	4.19E-02	9.27E-01	8.69E-01	1.06E+00
5795	490668.45	3859731.58	0.06252	0.13142	0.0339	0.87876	0.006	0.288	0.1356	0.13142	0.65231925	0.242722972	3.529E-06	4.63E-02	2.60E-03	4.05E-02	9.61E-01	8.94E-01	1.05E+00
5796	490757.4	3859774.4	0.06083	0.14273	0.02793	0.89469	0.005	0.292	0.1485	0.14273	0.63468618	0.263611701	2.908E-06	4.71E-02	2.53E-03	4.11E-02	1.05E+00	9.71E-01	1.07E+00

5797	491003.53	3859861.82	0.05913	0.12396	0.01962	0.92598	0.005	0.276	0.1296	0.12396	0.61694878	0.228944906	2.043E-06	4.88E-02	2.41E-03	3.88E-02	9.18E-01	8.43E-01	1.01E+00
5798	491081.41	3859879.05	0.05928	0.10968	0.01849	0.98789	0.005	0.284	0.1124	0.10968	0.61851384	0.202570808	1.925E-06	5.20E-02	2.38E-03	3.99E-02	7.96E-01	7.46E-01	9.66E-01
5799	491229.76	3859917.82	0.05968	0.08875	0.01631	0.94964	0.005	0.298	0.0881	0.08875	0.62268735	0.163914653	1.698E-06	5.00E-02	2.33E-03	4.19E-02	6.24E-01	6.03E-01	9.01E-01
5800	491300.22	3859939.35	0.0578	0.08067	0.01515	0.93699	0.005	0.295	0.0802	0.08067	0.60307186	0.148991494	1.577E-06	4.94E-02	2.30E-03	4.15E-02	5.68E-01	5.49E-01	8.65E-01
5801	491350.48	3860012.03	0.0571	0.09641	0.01241	0.25885	0.005	0.266	0.0951	0.09641	0.59576823	0.178062104	1.292E-06	1.36E-02	2.16E-03	3.74E-02	6.74E-01	6.56E-01	8.45E-01
5802	491406.82	3860092.56	0.05635	0.11218	0.0102	0.09395	0.004	0.08	0.1114	0.11218	0.5879429	0.207188122	1.062E-06	4.95E-03	2.04E-03	1.12E-02	7.89E-01	7.63E-01	8.40E-01
5803	491483.36	3860121.96	0.05622	0.09538	0.00961	0.08541	0.004	0.075	0.0959	0.09538	0.58658651	0.176159771	1E-06	4.50E-03	2.00E-03	1.05E-02	6.79E-01	6.49E-01	8.11E-01
5804	491559.91	3860151.35	0.05569	0.0831	0.00906	0.07456	0.004	0.068	0.0842	0.0831	0.58105661	0.153479523	9.432E-07	3.93E-03	1.97E-03	9.56E-03	5.97E-01	5.65E-01	7.82E-01
5805	491711.81	3860237.76	0.05496	0.06016	0.00798	0.0379	0.004	0.045	0.0619	0.06016	0.57343996	0.111111048	8.308E-07	2.00E-03	1.95E-03	6.30E-03	4.38E-01	4.09E-01	7.24E-01
5806	491755.2	3860319.07	0.04562	0.08621	0.00652	0.02597	0.004	0.033	0.0897	0.08621	0.47598855	0.159223462	6.788E-07	1.37E-03	1.77E-03	4.58E-03	6.36E-01	5.86E-01	6.93E-01
5807	491704.71	3860366.54	0.04095	0.13848	0.00593	0.02282	0.004	0.027	0.1463	0.13848	0.42726285	0.255762267	6.173E-07	1.20E-03	1.72E-03	3.76E-03	1.04E+00	9.42E-01	7.85E-01
5808	491623.42	3860462.39	0.01812	0.15316	0.00498	0.01873	0.003	0.02	0.1348	0.15316	0.1890599	0.282875136	5.184E-07	9.87E-04	1.62E-03	2.88E-03	9.55E-01	1.04E+00	3.91E-01
5809	491534.02	3860439.84	0.01907	0.06317	0.00545	0.02056	0.004	0.021	0.0605	0.06317	0.19897198	0.116670295	5.674E-07	1.08E-03	1.71E-03	3.01E-03	4.29E-01	4.30E-01	3.20E-01
5810	491313.95	3860268.17	0.02515	0.0783	0.00656	0.02941	0.004	0.026	0.0781	0.0783	0.2624093	0.14461428	6.829E-07	1.55E-03	1.79E-03	3.72E-03	5.53E-01	5.32E-01	4.35E-01
5811	491187.12	3860143.56	0.03135	0.11141	0.00857	0.04415	0.004	0.036	0.1174	0.11141	0.32709867	0.205765989	8.922E-07	2.33E-03	1.94E-03	5.08E-03	8.32E-01	7.58E-01	6.17E-01
5812	491070.43	3860075.97	0.03057	0.09814	0.01007	0.05394	0.004	0.043	0.0997	0.09814	0.31896033	0.181257285	1.048E-06	2.84E-03	2.03E-03	5.99E-03	7.06E-01	6.67E-01	5.50E-01
5813	490995.09	3860039.38	0.03076	0.09061	0.01102	0.05941	0.004	0.046	0.0922	0.09061	0.32094274	0.167349935	1.147E-06	3.13E-03	2.08E-03	6.54E-03	6.53E-01	6.16E-01	5.37E-01
5814	490919.75	3860002.8	0.03087	0.09278	0.01216	0.06602	0.005	0.051	0.0904	0.09278	0.32209046	0.171357764	1.266E-06	3.48E-03	2.12E-03	7.23E-03	6.41E-01	6.31E-01	5.16E-01
5815	490756.81	3859894.53	0.03359	0.21967	0.01745	0.10676	0.005	0.084	0.1999	0.21967	0.35047031	0.405714162	1.817E-06	5.62E-03	2.30E-03	1.18E-02	1.42E+00	1.49E+00	6.98E-01
5816	490668.07	3859860.92	0.03345	0.20596	0.01939	0.10056	0.005	0.077	0.1903	0.20596	0.34900958	0.380392811	2.019E-06	5.30E-03	2.33E-03	1.09E-02	1.35E+00	1.40E+00	6.96E-01
5817	490579.34	3859827.3	0.03412	0.1998	0.02199	0.09561	0.005	0.072	0.1877	0.1998	0.35600021	0.369015749	2.289E-06	5.04E-03	2.38E-03	1.01E-02	1.33E+00	1.36E+00	7.14E-01
5818	490490.6	3859793.68	0.035	0.18497	0.02507	0.0902	0.005	0.067	0.1766	0.18497	0.36518192	0.341625842	2.61E-06	4.75E-03	2.41E-03	9.44E-03	1.25E+00	1.26E+00	7.17E-01
5819	490401.86	3859760.07	0.03604	0.17427	0.02911	0.08585	0.005	0.063	0.1687	0.17427	0.37603304	0.321863737	3.031E-06	4.52E-03	2.46E-03	8.87E-03	1.20E+00	1.19E+00	7.24E-01
5820	490313.12	3859726.45	0.03711	0.16961	0.03473	0.08269	0.005	0.06	0.1664	0.16961	0.38719718	0.313257063	3.616E-06	4.36E-03	2.52E-03	8.42E-03	1.18E+00	1.15E+00	7.41E-01
5821	490224.39	3859692.83	0.0382	0.16577	0.04267	0.08023	0.006	0.057	0.1644	0.16577	0.39856999	0.306164869	4.442E-06	4.23E-03	2.60E-03	8.04E-03	1.16E+00	1.13E+00	7.57E-01
5822	490135.65	3859659.22	0.039	0.16241	0.05451	0.07842	0.006	0.055	0.1626	0.16241	0.406917	0.299959198	5.675E-06	4.13E-03	2.69E-03	7.70E-03	1.15E+00	1.10E+00	7.69E-01
5823	489918.18	3859559.23	0.04324	0.1711	0.16191	0.08038	0.006	0.054	0.1648	0.1711	0.45115618	0.316008983	1.686E-05	4.23E-03	3.02E-03	7.57E-03	1.17E+00	1.16E+00	7.87E-01
5824	489743.61	3859486	0.04608	0.11321	0.67822	0.07916	0.007	0.051	0.1087	0.11321	0.48078809	0.209090455	7.061E-05	4.17E-03	3.35E-03	7.20E-03	7.70E-01	7.70E-01	7.05E-01
5825	489660.32	3859440.27	0.04777	0.11308	0.67675	0.08277	0.008	0.051	0.108	0.11308	0.49842116	0.208850355	7.045E-05	4.36E-03	3.55E-03	7.23E-03	7.65E-01	7.69E-01	7.19E-01
5826	489577.04	3859394.53	0.04917	0.11308	0.29262	0.08849	0.008	0.052	0.1073	0.11308	0.51302843	0.208850355	3.046E-05	4.66E-03	3.78E-03	7.25E-03	7.60E-01	7.69E-01	7.29E-01
5827	489493.75	3859348.8	0.05043	0.1125	0.13646	0.09839	0.009	0.052	0.1057	0.1125	0.52617498	0.207779138	1.421E-05	5.18E-03	4.02E-03	7.30E-03	7.49E-01	7.65E-01	7.35E-01
5828	489321.28	3859240.02	0.05557	0.14212	0.04841	0.17472	0.01	0.055	0.1215	0.14212	0.57980456	0.262485077	5.04E-06	9.20E-03	4.60E-03	7.69E-03	8.61E-01	9.66E-01	7.58E-01
5829	489235.41	3859193.96	0.0581	0.14049	0.03499	0.44632	0.01	0.055	0.1142	0.14049	0.60620199	0.259474588	3.643E-06	2.35E-02	4.90E-03	7.80E-03	8.09E-01	9.55E-01	7.55E-01
5830	489149.54	3859147.89	0.06118	0.13364	0.02693	0.13432	0.011	0.057	0.1029	0.13364	0.638338	0.246823147	2.804E-06	7.08E-03	5.15E-03	7.96E-03	7.29E-01	9.09E-01	7.26E-01
5831	489063.68	3859101.82	0.06608	0.13296	0.02197	0.07764	0.012	0.058	0.0909	0.13296	0.68946347	0.245567237	2.287E-06	4.09E-03	5.41E-03	8.17E-03	6.44E-01	9.04E-01	6.93E-01
5832	488977.81	3859055.75	0.07378	0.13187	0.01869	0.06185	0.012	0.06	0.0777	0.13187	0.7698035	0.243554088	1.946E-06	3.26E-03	5.61E-03	8.40E-03	5.51E-01	8.97E-01	6.84E-01
5833	488891.94	3859009.69	0.08583	0.12731	0.01638	0.0528	0.012	0.062	0.0663	0.12731	0.89553042	0.235132107	1.705E-06	2.78E-03	5.70E-03	8.70E-03	4.70E-01	8.66E-01	7.52E-01
5834	488808	3859060.73	0.09673	0.04441	0.01504	0.04007	0.011	0.064	0.0317	0.04441	1.0092585	0.082021969	1.566E-06	2.11E-03	5.05E-03	8.95E-03	2.25E-01	3.02E-01	1.03E+00
5835	488809.93	3859157.85	0.09405	0.02671	0.01466	0.03531	0.009	0.062	0.0219	0.02671	0.981296	0.049331385	1.526E-06	1.86E-03	4.43E-03	8.71E-03	1.55E-01	1.82E-01	1.02E+00
5836	488811.85	3859254.96	0.09222	0.01928	0.01388	0.03196	0.008	0.059	0.0168	0.01928	0.9622022	0.035608727	1.445E-06	1.68E-03	3.86E-03	8.31E-03	1.19E-01	1.31E-01	9.99E-01
5837	488813.78	3859352.07	0.09087	0.01523	0.01269	0.0295	0.007	0.057	0.0137	0.01523	0.94811661	0.028128678	1.321E-06	1.55E-03	3.35E-03	7.98E-03	9.67E-02	1.04E-01	9.82E-01
5838	488815.71	3859449.19	0.09075	0.01269	0.01183	0.02756	0.006	0.055	0.0116	0.01269	0.94686456	0.023437487	1.232E-06	1.45E-03	2.92E-03	7.76E-03	8.20E-02	8.63E-02	9.78E-01
5839	488910.04	3859547.1	0.08633	0.01174	0.01333	0.03089	0.006	0.048	0.0109	0.01174	0.9007473	0.021682907	1.388E-06	1.63E-03	2.91E-03	6.81E-03	7.73E-02	7.98E-02	9.31E-01
5840	489002.45	3859547.91	0.08027	0.01274	0.01554	0.04004	0.007	0.045	0.0119	0.01274	0.83751866	0.023529833	1.618E-06	2.11E-03	3.29E-03	6.27E-03	8.45E-02	8.66E-02	8.71E-01
5841	489094.85	3859548.71	0.07502	0.01397	0.0186	0.0639	0.008	0.042	0.0132	0.01397	0.78274137	0.025801552	1.936E-06	3.37E-03	3.62E-03	5.87E-03	9.34E-02	9.50E-02	8.20E-01
5842	489230.05	3859601.87	0.07082	0.01452	0.0228	0.44463	0.008	0.038	0.0138	0.01452	0.73891954	0.026817361	2.374E-06	2.34E-02	3.72E-03	5.38E-03	9.81E-02	9.87E-02	7.98E-01
5843	489227.52	3859680.89	0.06889	0.01249	0.01811	0.46348	0.007	0.037	0.012	0.01249	0.71878236	0.023068102	1.885E-06	2.44E-02	3.47E-03	5.21E-03	8.47E-02	8.49E-02	7.75E-01
5844	489133.47	3859760.29	0.05251	0.01028	0.01295	0.08809	0.006	0.038	0.0098	0.01028	0.54787722	0.018986396	1.348E-06	4.64E-03	2.94E-03	5.32E-03	6.94E-02	6.99E-02	5.79E-01
5845	489041.96	3859760.67	0.0551	0.00965	0.01196	0.04344	0.006	0.04	0.0091	0.00965	0.57490069	0.017822833	1.245E-06	2.29E-03	2.63E-03	5.68E-03	6.48E-02	6.56E-02	6.02E-01
5846	488950.45	3859761.05	0.05651	0.00909	0.01101	0.03092	0.005	0.044	0.0086	0.00909	0.5896123	0.016788554	1.146E-06	1.63E-03	2.30E-03	6.16E-03	6.07E-02	6.18E-02	6.15E-01
5847	488858.94	3859761.43	0.05762	0.00861	0.0101	0.02496	0.004	0.048	0.0081	0.00861	0.60119379	0.01590203	1.051E-06	1.31E-03	2.00E-03	6.82E-03	5.72E-02	5.85E-02	6.26E-01
5848	488767.43	3859761.82	0.05886	0.00816	0.00923	0.02136	0.004	0.055	0.0076	0.00816	0.61413166	0.015070913	9.609E-07	1.13E-03	1.76E-03	7.80E-03	5.39E-02	5.55E-02	6.38E-01
5849	488675.92	3859762.2	0.06075	0.00778	0.0085	0.01895	0.003	0.066	0.0072	0.00778	0.63385148	0.014369082	8.849E-07	9.98E-04	1.58E-03	9.30E-03	5.12E-02	5.29E-02	6.58E-01
5850	488584.41	3859762.58	0.06403	0.00742	0.00786	0.01706	0.003	0.085	0.0069	0.00742	0.66807425	0.013704188	8.183E-07	8.99E-04	1.45E-03	1.20E-02	4.87E-02	5.05E-02	6.94E-01
5851	488492.9	3859762.96	0.07096	0.0071	0.00734	0.01551	0.003	0.131	0.0066	0.0071	0.74038027	0.013113172	7.641E-07	8.17E-04	1.35E-03	1.84E-02	4.65E-02	4.83E-02	7.72E-01
5852	488402.76	3859830.95	0.08354	0.00651	0.00665	0.01389	0.003	0.308	0.006	0.00651	0.87163708	0.012023486	6.923E-07	7.32E-04	1.22E-03	4.34E-02	4.27E-02	4.43E-02	9.27E-01
5853	488404.14	3859898.55	0.0849	0.00623	0.00639	0.01353	0.002	0.306	0.0058	0.00623	0.88582701	0.011506347	6.652E-07	7.13E-04	1.16E-03	4.30E-02	4.11E-02	4.24E-02	9.41E-01
5854	488505.18	3859964.96	0.08604	0.00621	0.00634	0.01447	0.002	0.12	0.0058	0.00621	0.89772151	0.011469408	6.6E-07	7.62E-04	1.15E-03	1.69E-02	4.12E-02	4.22E-02	9.27E-01

5855	488604.84	3859963.76	0.08223	0.00644	0.00656	0.01598	0.003	0.078	0.0061	0.00644	0.85796885	0.011894201	6.829E-07	8.42E-04	1.22E-03	1.09E-02	4.29E-02	4.38E-02	8.82E-01
5856	488704.51	3859962.56	0.0802	0.0067	0.00679	0.01796	0.003	0.06	0.0063	0.0067	0.8367883	0.012374402	7.069E-07	9.46E-04	1.31E-03	8.45E-03	4.47E-02	4.56E-02	8.59E-01
5857	488804.18	3859961.37	0.07869	0.00699	0.00706	0.02085	0.003	0.05	0.0066	0.00699	0.8210333	0.01291001	7.35E-07	1.10E-03	1.44E-03	7.06E-03	4.68E-02	4.75E-02	8.43E-01
5858	488903.85	3859960.17	0.07721	0.00732	0.00744	0.0255	0.004	0.044	0.0069	0.00732	0.80559133	0.013519496	7.745E-07	1.34E-03	1.65E-03	6.18E-03	4.92E-02	4.98E-02	8.28E-01
5859	489003.52	3859958.97	0.0752	0.00768	0.00806	0.03467	0.004	0.04	0.0073	0.00768	0.78461945	0.014184389	8.391E-07	1.83E-03	1.91E-03	5.57E-03	5.17E-02	5.22E-02	8.08E-01
5860	489103.18	3859957.77	0.07096	0.00807	0.00891	0.0625	0.005	0.036	0.0077	0.00807	0.74038027	0.01490469	9.276E-07	3.29E-03	2.22E-03	5.12E-03	5.46E-02	5.49E-02	7.66E-01
5861	489201.48	3860046.59	0.07819	0.00781	0.00881	0.18602	0.005	0.033	0.0075	0.00781	0.81581642	0.01442449	9.172E-07	9.80E-03	2.27E-03	4.66E-03	5.31E-02	5.31E-02	8.47E-01
5862	489200.11	3860136.61	0.08025	0.00723	0.0081	0.18463	0.004	0.033	0.007	0.00723	0.83730998	0.013353273	8.433E-07	9.73E-03	2.03E-03	4.59E-03	4.92E-02	4.92E-02	8.67E-01
5863	489198.74	3860226.63	0.07989	0.00677	0.00758	0.25868	0.004	0.032	0.0065	0.00677	0.83355383	0.012503687	7.891E-07	1.36E-02	1.81E-03	4.54E-03	4.62E-02	4.60E-02	8.66E-01
5864	489197.38	3860316.66	0.07831	0.00637	0.00702	0.25068	0.003	0.032	0.0062	0.00637	0.81706847	0.011764917	7.308E-07	1.32E-02	1.61E-03	4.49E-03	4.36E-02	4.33E-02	8.48E-01
5865	489196.01	3860406.68	0.07562	0.006	0.00641	0.24277	0.003	0.031	0.0058	0.006	0.78900163	0.011081554	6.673E-07	1.28E-02	1.43E-03	4.43E-03	4.12E-02	4.08E-02	8.19E-01
5866	489194.64	3860496.7	0.07099	0.00562	0.00573	0.23856	0.003	0.03	0.0055	0.00562	0.74069328	0.010379722	5.965E-07	1.26E-02	1.28E-03	4.26E-03	3.86E-02	3.82E-02	7.70E-01
5867	489193.27	3860586.72	0.06181	0.00527	0.00512	0.23308	0.002	0.028	0.0051	0.00527	0.64491128	0.009733298	5.33E-07	1.23E-02	1.14E-03	3.89E-03	3.63E-02	3.58E-02	6.72E-01
5868	489092.02	3860678.13	0.03433	0.00482	0.00471	0.05359	0.002	0.027	0.0047	0.00482	0.3581913	0.008902182	4.903E-07	2.82E-03	9.14E-04	3.74E-03	3.31E-02	3.28E-02	3.75E-01
5869	488992.13	3860679.53	0.03553	0.00469	0.00463	0.02926	0.002	0.03	0.0045	0.00469	0.37071182	0.008662081	4.82E-07	1.54E-03	8.44E-04	4.21E-03	3.21E-02	3.19E-02	3.86E-01
5870	488892.24	3860680.92	0.03594	0.00458	0.00435	0.02092	0.002	0.035	0.0044	0.00458	0.37498967	0.00845892	4.529E-07	1.10E-03	8.11E-04	4.88E-03	3.12E-02	3.11E-02	3.90E-01
5871	488792.36	3860682.31	0.03622	0.00447	0.00401	0.01677	0.002	0.042	0.0043	0.00447	0.37791112	0.008255758	4.175E-07	8.83E-04	7.92E-04	5.87E-03	3.04E-02	3.04E-02	3.94E-01
5872	488692.48	3860683.7	0.03666	0.00437	0.00377	0.01427	0.002	0.053	0.0042	0.00437	0.38250198	0.008071065	3.925E-07	7.52E-04	7.78E-04	7.51E-03	2.96E-02	2.97E-02	4.00E-01
5873	488592.59	3860685.09	0.03774	0.00427	0.0036	0.01255	0.002	0.074	0.0041	0.00427	0.39377045	0.007886373	3.748E-07	6.61E-04	7.60E-04	1.05E-02	2.88E-02	2.90E-02	4.13E-01
5874	488492.71	3860686.49	0.04131	0.0042	0.00351	0.01131	0.002	0.126	0.004	0.0042	0.43101901	0.007757088	3.654E-07	5.96E-04	7.50E-04	1.78E-02	2.82E-02	2.86E-02	4.58E-01
5875	488299.07	3860762.18	0.02522	0.00394	0.00319	0.00948	0.002	0.06	0.0037	0.00394	0.26313966	0.007276887	3.321E-07	4.99E-04	7.32E-04	8.45E-03	2.64E-02	2.68E-02	2.80E-01
5876	488205.32	3860764.09	0.02425	0.00387	0.00308	0.00893	0.002	0.058	0.0036	0.00387	0.2530189	0.007147602	3.206E-07	4.70E-04	7.41E-04	8.21E-03	2.58E-02	2.63E-02	2.69E-01
5877	488111.56	3860766	0.022	0.00379	0.00295	0.00845	0.002	0.053	0.0036	0.00379	0.22954292	0.006999848	3.071E-07	4.45E-04	7.64E-04	7.41E-03	2.52E-02	2.58E-02	2.45E-01
5878	488017.81	3860767.91	0.01853	0.00371	0.00281	0.00802	0.002	0.046	0.0035	0.00371	0.19333774	0.006852094	2.925E-07	4.22E-04	8.07E-04	6.45E-03	2.47E-02	2.52E-02	2.07E-01
5879	487924.06	3860769.81	0.01431	0.00364	0.00267	0.00763	0.002	0.038	0.0034	0.00364	0.14930724	0.006722809	2.78E-07	4.02E-04	8.63E-04	5.33E-03	2.41E-02	2.48E-02	1.62E-01
5880	487830.31	3860771.72	0.01192	0.00357	0.00256	0.00728	0.002	0.029	0.0033	0.00357	0.12437053	0.006593525	2.665E-07	3.83E-04	9.28E-04	4.10E-03	2.37E-02	2.43E-02	1.36E-01
5881	487736.55	3860773.63	0.01027	0.0035	0.00249	0.00697	0.002	0.023	0.0033	0.0035	0.10715481	0.00646424	2.592E-07	3.67E-04	9.89E-04	3.27E-03	2.32E-02	2.38E-02	1.18E-01
5882	487642.8	3860775.54	0.00923	0.00345	0.00247	0.00672	0.002	0.019	0.0032	0.00345	0.09630369	0.006371894	2.571E-07	3.54E-04	1.03E-03	2.74E-03	2.28E-02	2.35E-02	1.06E-01
5883	487549.48	3860684.71	0.0104	0.00351	0.00263	0.00668	0.002	0.021	0.0033	0.00351	0.1085112	0.006482709	2.738E-07	3.52E-04	1.08E-03	3.01E-03	2.32E-02	2.39E-02	1.19E-01
5884	487549.91	3860591.97	0.01308	0.00361	0.00279	0.00684	0.002	0.029	0.0034	0.00361	0.1364737	0.006667402	2.905E-07	3.60E-04	1.11E-03	4.11E-03	2.38E-02	2.45E-02	1.48E-01
5885	487550.34	3860499.23	0.01679	0.00375	0.003	0.00702	0.002	0.042	0.0035	0.00375	0.17518299	0.006925971	3.123E-07	3.70E-04	1.14E-03	5.84E-03	2.46E-02	2.55E-02	1.89E-01
5886	487550.76	3860406.49	0.0224	0.0039	0.00322	0.00723	0.003	0.058	0.0036	0.0039	0.23371643	0.00720301	3.352E-07	3.81E-04	1.18E-03	8.19E-03	2.55E-02	2.65E-02	2.50E-01
5887	487551.19	3860313.75	0.03187	0.00407	0.00339	0.00742	0.003	0.08	0.0037	0.00407	0.33252423	0.007516987	3.529E-07	3.91E-04	1.22E-03	1.12E-02	2.65E-02	2.77E-02	3.52E-01
5888	487551.62	3860221.01	0.0358	0.00426	0.00351	0.00762	0.003	0.082	0.0039	0.00426	0.37352894	0.007867903	3.654E-07	4.01E-04	1.27E-03	1.15E-02	2.76E-02	2.90E-02	3.93E-01
5889	487552.05	3860128.27	0.03735	0.00447	0.00362	0.00786	0.003	0.08	0.0041	0.00447	0.38970128	0.008255758	3.769E-07	4.14E-04	1.32E-03	1.13E-02	2.89E-02	3.04E-02	4.10E-01
5890	487552.48	3860035.53	0.03852	0.00468	0.00375	0.0081	0.003	0.08	0.0043	0.00468	0.40190879	0.008643612	3.904E-07	4.27E-04	1.38E-03	1.12E-02	3.02E-02	3.18E-02	4.22E-01
5891	487552.91	3859942.79	0.03957	0.00486	0.0039	0.00831	0.003	0.079	0.0044	0.00486	0.41286425	0.008976059	4.06E-07	4.38E-04	1.43E-03	1.11E-02	3.12E-02	3.30E-02	4.33E-01
5892	487553.33	3859850.05	0.04071	0.00506	0.00413	0.00859	0.003	0.08	0.0045	0.00506	0.42475875	0.009345444	4.3E-07	4.52E-04	1.51E-03	1.12E-02	3.22E-02	3.44E-02	4.45E-01
5893	487553.76	3859757.31	0.04212	0.00524	0.00427	0.00885	0.003	0.08	0.0047	0.00524	0.43947036	0.009677891	4.445E-07	4.66E-04	1.58E-03	1.13E-02	3.31E-02	3.56E-02	4.60E-01
5894	487554.19	3859664.57	0.0449	0.00546	0.0043	0.00912	0.004	0.086	0.0048	0.00546	0.46847624	0.010084214	4.477E-07	4.80E-04	1.67E-03	1.22E-02	3.41E-02	3.71E-02	4.90E-01
5895	487460.2	3859571.05	0.04499	0.00556	0.00431	0.00899	0.004	0.091	0.0048	0.00556	0.46941528	0.010268907	4.487E-07	4.74E-04	1.79E-03	1.28E-02	3.42E-02	3.78E-02	4.91E-01
5896	487365.78	3859570.27	0.03792	0.00542	0.00445	0.00863	0.004	0.079	0.0047	0.00542	0.39564853	0.010010337	4.633E-07	4.55E-04	1.83E-03	1.11E-02	3.32E-02	3.69E-02	4.15E-01
5897	487271.36	3859569.48	0.03033	0.00529	0.00454	0.0083	0.004	0.069	0.0046	0.00529	0.31645622	0.009770237	4.726E-07	4.37E-04	1.89E-03	9.73E-03	3.24E-02	3.60E-02	3.35E-01
5898	487176.94	3859568.7	0.02462	0.00516	0.00447	0.008	0.004	0.059	0.0045	0.00516	0.2568794	0.009530136	4.654E-07	4.21E-04	1.98E-03	8.31E-03	3.15E-02	3.51E-02	2.74E-01
5899	487082.51	3859567.92	0.02093	0.00505	0.00425	0.00772	0.005	0.047	0.0043	0.00505	0.21837879	0.009326975	4.425E-07	4.07E-04	2.11E-03	6.62E-03	3.08E-02	3.43E-02	2.33E-01
5900	486988.09	3859567.14	0.01837	0.00493	0.0041	0.00746	0.005	0.038	0.0042	0.00493	0.19166834	0.009105344	4.268E-07	3.93E-04	2.25E-03	5.28E-03	3.00E-02	3.35E-02	2.05E-01
5901	486893.67	3859566.36	0.01641	0.00483	0.00416	0.00722	0.005	0.031	0.0042	0.00483	0.17121815	0.008920651	4.331E-07	3.80E-04	2.38E-03	4.33E-03	2.94E-02	3.28E-02	1.84E-01
5902	486799.25	3859565.58	0.01489	0.00472	0.00431	0.007	0.005	0.026	0.0041	0.00472	0.15535882	0.008717489	4.487E-07	3.69E-04	2.49E-03	3.64E-03	2.88E-02	3.21E-02	1.67E-01
5903	486704.83	3859564.79	0.01373	0.00463	0.00447	0.00679	0.006	0.023	0.004	0.00463	0.14325565	0.008551266	4.654E-07	3.58E-04	2.59E-03	3.18E-03	2.82E-02	3.15E-02	1.55E-01
5904	486610.41	3859564.01	0.01281	0.00453	0.00463	0.00659	0.006	0.02	0.0039	0.00453	0.13365658	0.008366573	4.82E-07	3.47E-04	2.67E-03	2.83E-03	2.76E-02	3.08E-02	1.45E-01
5905	486515.99	3859563.23	0.01202	0.00444	0.00471	0.0064	0.006	0.018	0.0038	0.00444	0.12541391	0.00820035	4.903E-07	3.37E-04	2.72E-03	2.56E-03	2.71E-02	3.02E-02	1.36E-01
5906	486421.57	3859562.45	0.01133	0.00435	0.00466	0.00623	0.006	0.017	0.0038	0.00435	0.11821461	0.008034127	4.851E-07	3.28E-04	2.76E-03	2.35E-03	2.66E-02	2.96E-02	1.29E-01
5907	486327.14	3859561.67	0.0107	0.00427	0.00445	0.00607	0.006	0.015	0.0037	0.00427	0.11164133	0.007886373	4.633E-07	3.20E-04	2.78E-03	2.17E-03	2.61E-02	2.90E-02	1.22E-01
5908	486232.72	3859560.89	0.01012	0.00419	0.0041	0.00592	0.006	0.014	0.0036	0.00419	0.10558974	0.007738619	4.268E-07	3.12E-04	2.78E-03	2.02E-03	2.56E-02	2.85E-02	1.16E-01
5909	486138.3	3859560.1	0.00959	0.00411	0.00378	0.00578	0.006	0.013	0.0036	0.00411	0.10005985	0.007590865	3.935E-07	3.04E-04	2.78E-03	1.89E-03	2.52E-02	2.79E-02	1.10E-01
5910	486043.88	3859559.32	0.00911	0.00403	0.00355	0.00565	0.006	0.013	0.0035	0.00403	0.09505164	0.00744311	3.696E-07	2.98E-04	2.78E-03	1.77E-03	2.47E-02	2.74E-02	1.05E-01
5911	485949.35	3859463.54	0.00922	0.00407	0.00358	0.00568	0.006	0.013	0.0035	0.00407	0.09619935	0.007516987	3.727E-07	2.99E-04	2.95E-03	1.78E-03	2.47E-02	2.77E-02	1.06E-01
5912	485949.24	3859368.55	0.00983	0.0042	0.00382	0.00584	0.007	0.014	0.0036	0.0042	0.10256395	0.007757088	3.977E-07	3.08E-04	3.17E-03	1.90E-03	2.52E-02	2.86E-02	1.12E-01

5913	485949.12	3859273.55	0.01047	0.00432	0.00409	0.00598	0.007	0.014	0.0036	0.00432	0.10924156	0.007978719	4.258E-07	3.15E-04	3.40E-03	2.04E-03	2.56E-02	2.94E-02	1.19E-01
5914	485949.01	3859178.56	0.01115	0.00447	0.00431	0.0061	0.008	0.016	0.0037	0.00447	0.11633653	0.008255758	4.487E-07	3.21E-04	3.67E-03	2.18E-03	2.60E-02	3.04E-02	1.26E-01
5915	485948.9	3859083.56	0.01188	0.00464	0.00449	0.00621	0.008	0.017	0.0038	0.00464	0.12395318	0.008569735	4.674E-07	3.27E-04	3.96E-03	2.34E-03	2.66E-02	3.16E-02	1.34E-01
5916	485948.79	3858988.56	0.0126	0.00483	0.00467	0.0063	0.009	0.018	0.0038	0.00483	0.13146549	0.008920651	4.862E-07	3.32E-04	4.27E-03	2.51E-03	2.72E-02	3.28E-02	1.42E-01
5917	485948.67	3858893.57	0.01331	0.00505	0.00498	0.00639	0.01	0.019	0.0039	0.00505	0.13887347	0.009326975	5.184E-07	3.37E-04	4.59E-03	2.68E-03	2.79E-02	3.43E-02	1.49E-01
5918	485948.56	3858798.57	0.01401	0.00532	0.00553	0.00652	0.011	0.02	0.0041	0.00532	0.14617711	0.009825645	5.757E-07	3.43E-04	4.96E-03	2.85E-03	2.88E-02	3.62E-02	1.57E-01
5919	485948.45	3858703.58	0.01468	0.00559	0.00613	0.00665	0.011	0.022	0.0042	0.00559	0.15316773	0.010324315	6.382E-07	3.50E-04	5.33E-03	3.05E-03	2.95E-02	3.80E-02	1.64E-01
5920	485948.34	3858608.58	0.01539	0.00592	0.00668	0.00679	0.012	0.023	0.0043	0.00592	0.16057571	0.0109338	6.954E-07	3.58E-04	5.76E-03	3.28E-03	3.05E-02	4.03E-02	1.71E-01
5921	485948.22	3858513.59	0.01615	0.00628	0.00699	0.00692	0.013	0.025	0.0044	0.00628	0.16850537	0.011598693	7.277E-07	3.65E-04	6.22E-03	3.57E-03	3.13E-02	4.27E-02	1.79E-01
5922	485948.11	3858418.59	0.01703	0.00669	0.00724	0.00704	0.014	0.028	0.0046	0.00669	0.17768709	0.012355933	7.537E-07	3.71E-04	6.71E-03	3.95E-03	3.22E-02	4.55E-02	1.88E-01
5923	485948	3858323.59	0.01812	0.00717	0.00756	0.00719	0.016	0.032	0.0047	0.00717	0.1890599	0.013242457	7.87E-07	3.79E-04	7.28E-03	4.44E-03	3.32E-02	4.88E-02	1.99E-01
5924	485947.89	3858228.6	0.01954	0.00772	0.00748	0.00735	0.017	0.036	0.0048	0.00772	0.20387585	0.014258266	7.787E-07	3.87E-04	7.88E-03	5.03E-03	3.42E-02	5.25E-02	2.13E-01
5925	485947.77	3858133.6	0.02156	0.00836	0.00717	0.00753	0.018	0.041	0.005	0.00836	0.22495207	0.015440299	7.464E-07	3.97E-04	8.53E-03	5.75E-03	3.52E-02	5.68E-02	2.33E-01
5926	485947.66	3858038.61	0.02429	0.00923	0.00726	0.00778	0.02	0.047	0.0052	0.00923	0.25343626	0.017047124	7.558E-07	4.10E-04	9.28E-03	6.62E-03	3.65E-02	6.28E-02	2.61E-01
5927	485854.54	3857943.35	0.02549	0.00949	0.00717	0.00771	0.02	0.041	0.0051	0.00949	0.26595678	0.017527325	7.464E-07	4.06E-04	9.45E-03	5.78E-03	3.64E-02	6.45E-02	2.71E-01
5928	485761.52	3857943.09	0.02185	0.00887	0.00669	0.00745	0.019	0.033	0.005	0.00887	0.22797786	0.016382231	6.965E-07	3.92E-04	8.98E-03	4.63E-03	3.53E-02	6.03E-02	2.33E-01
5929	485668.51	3857942.83	0.01937	0.00836	0.00633	0.00721	0.018	0.028	0.0048	0.00836	0.20210211	0.015440299	6.59E-07	3.80E-04	8.56E-03	3.88E-03	3.42E-02	5.68E-02	2.08E-01
5930	485575.5	3857942.56	0.01754	0.00789	0.00598	0.00698	0.017	0.024	0.0047	0.00789	0.18300831	0.014572244	6.226E-07	3.68E-04	8.15E-03	3.36E-03	3.32E-02	5.37E-02	1.89E-01
5931	485482.48	3857942.3	0.01613	0.00749	0.00563	0.00677	0.017	0.021	0.0046	0.00749	0.1682967	0.013833473	5.861E-07	3.57E-04	7.80E-03	2.97E-03	3.24E-02	5.09E-02	1.75E-01
5932	485389.47	3857942.04	0.01497	0.00713	0.00525	0.00657	0.016	0.019	0.0045	0.00713	0.15619353	0.01316858	5.466E-07	3.46E-04	7.47E-03	2.66E-03	3.15E-02	4.85E-02	1.63E-01
5933	485296.46	3857941.78	0.01401	0.0068	0.00487	0.00639	0.015	0.017	0.0043	0.0068	0.14617711	0.012559095	5.07E-07	3.37E-04	7.16E-03	2.42E-03	3.08E-02	4.62E-02	1.53E-01
5934	485203.45	3857941.52	0.01321	0.00651	0.00458	0.00623	0.015	0.016	0.0042	0.00651	0.13783009	0.012023486	4.768E-07	3.28E-04	6.89E-03	2.22E-03	3.00E-02	4.43E-02	1.45E-01
5935	485110.43	3857941.26	0.0125	0.00624	0.00438	0.00606	0.014	0.015	0.0041	0.00624	0.13042212	0.011524816	4.56E-07	3.19E-04	6.61E-03	2.06E-03	2.93E-02	4.24E-02	1.38E-01
5936	485017.42	3857940.99	0.01189	0.00597	0.00425	0.00591	0.014	0.014	0.004	0.00597	0.12405752	0.011026146	4.425E-07	3.11E-04	6.34E-03	1.92E-03	2.86E-02	4.06E-02	1.32E-01
5937	484924.41	3857940.73	0.01134	0.00573	0.00416	0.00577	0.013	0.013	0.0039	0.00573	0.11831894	0.010582884	4.331E-07	3.04E-04	6.10E-03	1.80E-03	2.78E-02	3.90E-02	1.26E-01
5938	484831.39	3857940.47	0.01084	0.00551	0.00412	0.00564	0.013	0.012	0.0038	0.00551	0.11310206	0.01017656	4.289E-07	2.97E-04	5.88E-03	1.69E-03	2.71E-02	3.75E-02	1.21E-01
5939	484738.12	3857859.3	0.01093	0.00552	0.00434	0.00559	0.012	0.012	0.0038	0.00552	0.1140411	0.01019503	4.518E-07	2.94E-04	5.78E-03	1.65E-03	2.71E-02	3.75E-02	1.21E-01
5940	484737.85	3857778.4	0.01158	0.00577	0.0046	0.00568	0.013	0.012	0.0039	0.00577	0.12082305	0.010656761	4.789E-07	2.99E-04	5.87E-03	1.71E-03	2.76E-02	3.92E-02	1.28E-01
5941	484737.59	3857697.49	0.01237	0.00603	0.00488	0.00577	0.013	0.013	0.004	0.00603	0.12906573	0.011136962	5.08E-07	3.04E-04	5.92E-03	1.77E-03	2.82E-02	4.10E-02	1.35E-01
5942	484737.32	3857616.59	0.01336	0.00633	0.00515	0.00586	0.013	0.013	0.0041	0.00633	0.13939516	0.01169104	5.361E-07	3.09E-04	5.90E-03	1.84E-03	2.88E-02	4.30E-02	1.45E-01
5943	484645.53	3857535.18	0.01399	0.00636	0.00551	0.00583	0.012	0.013	0.0041	0.00636	0.14596843	0.011746447	5.736E-07	3.07E-04	5.57E-03	1.80E-03	2.88E-02	4.32E-02	1.51E-01
5944	484553.99	3857534.67	0.01335	0.00607	0.00557	0.0057	0.011	0.012	0.004	0.00607	0.13929082	0.011210839	5.799E-07	3.00E-04	5.31E-03	1.69E-03	2.81E-02	4.13E-02	1.45E-01
5945	484462.46	3857534.17	0.01277	0.00583	0.00543	0.00558	0.011	0.011	0.0039	0.00583	0.13323923	0.010767577	5.653E-07	2.94E-04	5.08E-03	1.60E-03	2.74E-02	3.96E-02	1.39E-01
5946	484370.93	3857533.66	0.01224	0.0056	0.00511	0.00546	0.01	0.011	0.0038	0.0056	0.12770934	0.010342784	5.32E-07	2.88E-04	4.85E-03	1.52E-03	2.69E-02	3.81E-02	1.33E-01
5947	484279.4	3857533.16	0.01174	0.00539	0.00487	0.00535	0.01	0.01	0.0037	0.00539	0.12249245	0.009954929	5.07E-07	2.82E-04	4.65E-03	1.45E-03	2.63E-02	3.67E-02	1.28E-01
5948	484187.86	3857532.65	0.01126	0.00521	0.00486	0.00524	0.009	0.01	0.0036	0.00521	0.11748424	0.009622483	5.06E-07	2.76E-04	4.45E-03	1.38E-03	2.58E-02	3.54E-02	1.24E-01
5949	484096.33	3857532.15	0.0108	0.00505	0.00497	0.00514	0.009	0.009	0.0036	0.00505	0.11268471	0.009326975	5.174E-07	2.71E-04	4.27E-03	1.33E-03	2.54E-02	3.43E-02	1.19E-01
5950	484004.8	3857531.64	0.01038	0.00491	0.0051	0.00504	0.009	0.009	0.0035	0.00491	0.10830252	0.009068405	5.309E-07	2.65E-04	4.09E-03	1.27E-03	2.49E-02	3.34E-02	1.15E-01
5951	483913.27	3857531.14	0.01003	0.00477	0.00521	0.00494	0.008	0.009	0.0035	0.00477	0.10465071	0.008809835	5.424E-07	2.60E-04	3.92E-03	1.23E-03	2.45E-02	3.24E-02	1.11E-01
5952	483821.73	3857530.63	0.00975	0.00465	0.00527	0.00485	0.008	0.008	0.0034	0.00465	0.10172925	0.008588204	5.486E-07	2.55E-04	3.77E-03	1.18E-03	2.41E-02	3.16E-02	1.08E-01
5953	483729.61	3857450.11	0.01029	0.00467	0.0054	0.00482	0.007	0.008	0.0034	0.00467	0.10736349	0.008625143	5.622E-07	2.54E-04	3.51E-03	1.17E-03	2.41E-02	3.18E-02	1.13E-01
5954	483729.03	3857370.08	0.01133	0.00482	0.00558	0.00489	0.007	0.008	0.0035	0.00482	0.11821461	0.008902182	5.809E-07	2.58E-04	3.43E-03	1.19E-03	2.45E-02	3.28E-02	1.24E-01
5955	483728.44	3857290.06	0.01285	0.00497	0.00568	0.00496	0.007	0.009	0.0035	0.00497	0.13407394	0.009179221	5.913E-07	2.61E-04	3.37E-03	1.22E-03	2.49E-02	3.38E-02	1.39E-01
5956	483727.86	3857210.03	0.01517	0.00514	0.00573	0.00504	0.007	0.009	0.0036	0.00514	0.15828028	0.009493198	5.965E-07	2.65E-04	3.34E-03	1.25E-03	2.54E-02	3.50E-02	1.63E-01
5957	483641.15	3857129.07	0.0165	0.00516	0.00558	0.00503	0.007	0.009	0.0036	0.00516	0.17215719	0.009530136	5.809E-07	2.65E-04	3.24E-03	1.24E-03	2.54E-02	3.51E-02	1.77E-01
5958	483555.03	3857128.14	0.01494	0.00502	0.00551	0.00494	0.007	0.008	0.0035	0.00502	0.15588051	0.009271567	5.736E-07	2.60E-04	3.13E-03	1.19E-03	2.50E-02	3.41E-02	1.61E-01
5959	483468.91	3857127.2	0.0138	0.00487	0.00547	0.00484	0.006	0.008	0.0035	0.00487	0.14398602	0.008994528	5.695E-07	2.55E-04	3.03E-03	1.16E-03	2.46E-02	3.31E-02	1.49E-01
5960	483382.78	3857126.26	0.01292	0.00474	0.00545	0.00476	0.006	0.008	0.0034	0.00474	0.1348043	0.008754428	5.674E-07	2.51E-04	2.94E-03	1.12E-03	2.42E-02	3.22E-02	1.40E-01
5961	483296.66	3857125.32	0.01216	0.00462	0.00534	0.00468	0.006	0.008	0.0034	0.00462	0.12687463	0.008532797	5.559E-07	2.47E-04	2.86E-03	1.09E-03	2.39E-02	3.14E-02	1.32E-01
5962	483210.54	3857124.39	0.01151	0.00451	0.00519	0.00459	0.006	0.008	0.0033	0.00451	0.12009268	0.008329635	5.403E-07	2.42E-04	2.77E-03	1.06E-03	2.35E-02	3.07E-02	1.25E-01
5963	483123.4	3857030.96	0.01184	0.00455	0.00514	0.00459	0.006	0.007	0.0033	0.00455	0.12353583	0.008403512	5.351E-07	2.42E-04	2.73E-03	1.05E-03	2.37E-02	3.09E-02	1.29E-01
5964	483122.38	3856938.46	0.01288	0.0047	0.00542	0.00468	0.006	0.008	0.0034	0.0047	0.13438695	0.008680551	5.643E-07	2.47E-04	2.80E-03	1.07E-03	2.42E-02	3.20E-02	1.39E-01
5965	483121.35	3856845.97	0.01403	0.00485	0.00584	0.00478	0.006	0.008	0.0035	0.00485	0.14638578	0.00895759	6.08E-07	2.52E-04	2.88E-03	1.10E-03	2.47E-02	3.30E-02	1.51E-01
5966	483120.33	3856753.47	0.01523	0.00501	0.0063	0.00487	0.006	0.008	0.0035	0.00501	0.15890631	0.009253098	6.559E-07	2.57E-04	2.96E-03	1.14E-03	2.51E-02	3.41E-02	1.64E-01
5967	483119.31	3856660.98	0.01647	0.00518	0.00666	0.00495	0.006	0.008	0.0036	0.00518	0.17184418	0.009567075	6.933E-07	2.61E-04	3.03E-03	1.18E-03	2.55E-02	3.52E-02	1.76E-01
5968	483118.29	3856568.49	0.01773	0.00537	0.00693	0.00504	0.007	0.009	0.0037	0.00537	0.18499073	0.009917991	7.215E-07	2.65E-04	3.11E-03	1.22E-03	2.60E-02	3.65E-02	1.89E-01
5969	483117.26	3856475.99	0.0191	0.00558	0.00727	0.00513	0.007	0.009	0.0037	0.00558	0.19928499	0.010305845	7.569E-07	2.70E-04	3.18E-03	1.26E-03	2.65E-02	3.79E-02	2.03E-01
5970	483116.24	3856383.5	0.02078	0.00581	0.00763	0.00521	0.007	0.009	0.0038	0.00581	0.21681373	0.010730638	7.943E-07	2.74E-04	3.24E-03	1.31E-03	2.70E-02	3.95E-02	2.20E-01

5971	483115.22	3856291.01	0.02329	0.00607	0.00774	0.0053	0.007	0.01	0.0039	0.00607	0.24300249	0.011210839	8.058E-07	2.79E-04	3.29E-03	1.38E-03	2.76E-02	4.13E-02	2.45E-01
5972	483114.2	3856198.51	0.02778	0.00635	0.0076	0.00538	0.007	0.01	0.004	0.00635	0.28985011	0.011727978	7.912E-07	2.83E-04	3.32E-03	1.46E-03	2.82E-02	4.32E-02	2.92E-01
5973	483113.17	3856106.02	0.03725	0.00669	0.00772	0.00549	0.007	0.011	0.0041	0.00669	0.38865791	0.012355933	8.037E-07	2.89E-04	3.32E-03	1.55E-03	2.90E-02	4.55E-02	3.90E-01
5974	483112.15	3856013.52	0.04191	0.00708	0.00826	0.0056	0.007	0.012	0.0042	0.00708	0.43727927	0.013076234	8.599E-07	2.95E-04	3.28E-03	1.65E-03	2.98E-02	4.81E-02	4.37E-01
5975	483029.25	3855920.47	0.03393	0.00717	0.00872	0.00561	0.007	0.012	0.0043	0.00717	0.35401779	0.013242457	9.078E-07	2.96E-04	3.16E-03	1.65E-03	3.02E-02	4.88E-02	3.54E-01
5976	482947.37	3855919.91	0.02702	0.00684	0.00868	0.00548	0.007	0.011	0.0042	0.00684	0.28192045	0.012632972	9.036E-07	2.89E-04	3.10E-03	1.53E-03	2.96E-02	4.65E-02	2.83E-01
5977	482865.49	3855919.36	0.02269	0.00655	0.00874	0.00536	0.007	0.01	0.0041	0.00655	0.23674222	0.012097363	9.099E-07	2.82E-04	3.06E-03	1.44E-03	2.91E-02	4.45E-02	2.38E-01
5978	482783.61	3855918.8	0.02001	0.00629	0.0088	0.00525	0.006	0.01	0.0041	0.00629	0.20877972	0.011617162	9.161E-07	2.77E-04	3.01E-03	1.36E-03	2.87E-02	4.28E-02	2.11E-01
5979	482700.33	3855818.39	0.02097	0.00635	0.00943	0.00526	0.006	0.01	0.0041	0.00635	0.21879614	0.011727978	9.817E-07	2.77E-04	2.89E-03	1.36E-03	2.90E-02	4.32E-02	2.21E-01
5980	482698.92	3855718.54	0.03315	0.00672	0.01006	0.00539	0.006	0.01	0.0042	0.00672	0.34587945	0.012411341	1.047E-06	2.84E-04	2.79E-03	1.43E-03	3.00E-02	4.57E-02	3.47E-01
5981	482697.52	3855618.68	0.03822	0.00714	0.01044	0.00553	0.006	0.011	0.0044	0.00714	0.39877866	0.013187049	1.087E-06	2.91E-04	2.67E-03	1.51E-03	3.11E-02	4.86E-02	3.99E-01
5982	482696.11	3855518.83	0.03987	0.00764	0.01118	0.0057	0.005	0.011	0.0046	0.00764	0.41599438	0.014110512	1.164E-06	3.00E-04	2.56E-03	1.60E-03	3.24E-02	5.20E-02	4.15E-01
5983	482694.71	3855418.98	0.04062	0.00821	0.01227	0.00589	0.005	0.012	0.0048	0.00821	0.42381971	0.01516326	1.277E-06	3.10E-04	2.47E-03	1.71E-03	3.38E-02	5.58E-02	4.21E-01
5984	482693.3	3855319.13	0.04101	0.00888	0.01376	0.0061	0.005	0.013	0.005	0.00888	0.42788888	0.0164007	1.433E-06	3.21E-04	2.40E-03	1.85E-03	3.54E-02	6.04E-02	4.24E-01
5985	482691.9	3855219.27	0.04122	0.0097	0.01715	0.00635	0.005	0.014	0.0053	0.0097	0.43007997	0.017915179	1.785E-06	3.34E-04	2.33E-03	2.03E-03	3.72E-02	6.60E-02	4.24E-01
5986	482690.49	3855119.42	0.04122	0.01066	0.02139	0.00661	0.005	0.016	0.0055	0.01066	0.43007997	0.019688228	2.227E-06	3.48E-04	2.25E-03	2.29E-03	3.92E-02	7.25E-02	4.21E-01
5987	482689.09	3855019.57	0.0412	0.01192	0.02487	0.00691	0.005	0.02	0.0059	0.01192	0.42987129	0.022015354	2.589E-06	3.64E-04	2.17E-03	2.74E-03	4.16E-02	8.11E-02	4.18E-01
5988	482687.68	3854919.71	0.04101	0.01343	0.0273	0.0072	0.004	0.027	0.0063	0.01343	0.42788888	0.024804212	2.842E-06	3.79E-04	2.08E-03	3.80E-03	4.43E-02	9.13E-02	4.12E-01
5989	482686.28	3854819.86	0.04085	0.01538	0.02987	0.00754	0.004	0.065	0.0067	0.01538	0.42621947	0.028405717	3.11E-06	3.97E-04	1.99E-03	9.14E-03	4.77E-02	1.05E-01	4.09E-01
5990	482684.88	3854720.01	0.04052	0.01768	0.02927	0.0079	0.004	0.196	0.0073	0.01768	0.42277633	0.032653646	3.047E-06	4.16E-04	1.91E-03	2.76E-02	5.16E-02	1.20E-01	4.17E-01
5991	482683.47	3854620.16	0.04023	0.0206	0.02381	0.00836	0.004	0.195	0.008	0.0206	0.41975054	0.038046669	2.479E-06	4.40E-04	1.85E-03	2.74E-02	5.68E-02	1.40E-01	4.04E-01
5992	482682.07	3854520.31	0.03983	0.02384	0.01811	0.00887	0.004	0.197	0.0089	0.02384	0.41557703	0.044030708	1.885E-06	4.67E-04	1.80E-03	2.77E-02	6.29E-02	1.62E-01	3.90E-01
5993	482680.66	3854420.45	0.03931	0.02732	0.01375	0.00945	0.004	0.203	0.01	0.02732	0.41015147	0.050458009	1.431E-06	4.98E-04	1.76E-03	2.86E-02	7.09E-02	1.86E-01	3.77E-01
5994	482679.26	3854320.6	0.03871	0.0304	0.01035	0.01001	0.004	0.208	0.0114	0.0304	0.40389121	0.05614654	1.077E-06	5.27E-04	1.73E-03	2.93E-02	8.08E-02	2.07E-01	3.66E-01
5995	482677.85	3854220.75	0.03817	0.03271	0.008	0.01059	0.004	0.223	0.0134	0.03271	0.39825697	0.060412939	8.328E-07	5.58E-04	1.69E-03	3.14E-02	9.49E-02	2.22E-01	3.65E-01
5996	482676.45	3854120.9	0.03727	0.03374	0.00674	0.0109	0.004	0.217	0.0156	0.03374	0.38886658	0.062315272	7.017E-07	5.74E-04	1.65E-03	3.05E-02	1.11E-01	2.29E-01	3.65E-01
5997	482675.04	3854021.04	0.0363	0.03504	0.00581	0.01086	0.003	0.256	0.0183	0.03504	0.37874582	0.064716276	6.049E-07	5.72E-04	1.59E-03	3.61E-02	1.30E-01	2.38E-01	3.73E-01
5998	482673.64	3853921.19	0.03516	0.03637	0.00509	0.01046	0.003	0.087	0.0212	0.03637	0.36685133	0.067172687	5.299E-07	5.51E-04	1.52E-03	1.23E-02	1.50E-01	2.47E-01	3.51E-01
5999	482672.23	3853821.34	0.03391	0.03867	0.00451	0.00963	0.003	0.033	0.0245	0.03867	0.35380912	0.071420616	4.695E-07	5.07E-04	1.46E-03	4.65E-03	1.74E-01	2.63E-01	3.43E-01
6000	482670.83	3853721.48	0.03251	0.04131	0.00405	0.0083	0.003	0.019	0.0289	0.04131	0.33920184	0.0762965	4.216E-07	4.37E-04	1.40E-03	2.68E-03	2.05E-01	2.81E-01	3.44E-01
6001	482669.42	3853621.63	0.03096	0.04459	0.00371	0.00692	0.003	0.013	0.0351	0.04459	0.3230295	0.082354416	3.862E-07	3.65E-04	1.34E-03	1.80E-03	2.49E-01	3.03E-01	3.54E-01
6002	482645.99	3853446.13	0.02736	0.05077	0.00323	0.00517	0.003	0.008	0.0467	0.05077	0.28546793	0.093768416	3.363E-07	2.72E-04	1.27E-03	1.13E-03	3.31E-01	3.45E-01	3.68E-01
6003	482623.96	3853370.48	0.02569	0.05137	0.00305	0.00466	0.003	0.007	0.0494	0.05137	0.26804353	0.094876572	3.175E-07	2.45E-04	1.24E-03	9.73E-04	3.50E-01	3.49E-01	3.66E-01
6004	482601.94	3853294.84	0.02417	0.0538	0.00288	0.00428	0.003	0.006	0.0536	0.0538	0.2521842	0.099364601	2.998E-07	2.25E-04	1.21E-03	8.61E-04	3.80E-01	3.66E-01	3.68E-01
6005	482531.29	3853133.44	0.02192	0.06185	0.00251	0.00365	0.002	0.005	0.062	0.06185	0.22870822	0.114232353	2.613E-07	1.92E-04	1.16E-03	6.98E-04	4.39E-01	4.21E-01	3.63E-01
6006	482482.68	3853047.69	0.02075	0.06649	0.00232	0.00338	0.002	0.005	0.067	0.06649	0.21650071	0.122802088	2.415E-07	1.78E-04	1.14E-03	6.33E-04	4.75E-01	4.52E-01	3.64E-01
6007	482383.08	3852897.4	0.01865	0.09825	0.00206	0.00299	0.002	0.004	0.1001	0.09825	0.1945898	0.181460447	2.145E-07	1.57E-04	1.09E-03	5.44E-04	7.09E-01	6.68E-01	4.19E-01
6008	482265.64	3852765.26	0.01731	0.11089	0.00186	0.00273	0.002	0.003	0.113	0.11089	0.18060855	0.204805588	1.936E-07	1.44E-04	1.06E-03	4.80E-04	8.01E-01	7.54E-01	4.34E-01
6009	482199.16	3852697.66	0.01686	0.10982	0.00178	0.00261	0.002	0.003	0.1119	0.10982	0.17591335	0.202829377	1.853E-07	1.37E-04	1.04E-03	4.52E-04	7.93E-01	7.47E-01	4.26E-01
6010	482132.69	3852630.07	0.01651	0.10779	0.00171	0.00251	0.002	0.003	0.1098	0.10779	0.17226153	0.199080118	1.78E-07	1.32E-04	1.02E-03	4.26E-04	7.78E-01	7.33E-01	4.18E-01
6011	482066.21	3852562.48	0.01621	0.1068	0.00165	0.00241	0.002	0.003	0.1087	0.1068	0.1691314	0.197251662	1.718E-07	1.27E-04	1.01E-03	4.05E-04	7.70E-01	7.26E-01	4.12E-01
6012	481999.74	3852494.89	0.01595	0.10489	0.0016	0.00233	0.002	0.003	0.1068	0.10489	0.16641862	0.193724034	1.666E-07	1.23E-04	9.89E-04	3.87E-04	7.56E-01	7.13E-01	4.05E-01
6013	481933.26	3852427.29	0.01571	0.10188	0.00156	0.00225	0.002	0.003	0.1037	0.10188	0.16391452	0.188164787	1.624E-07	1.19E-04	9.75E-04	3.71E-04	7.35E-01	6.93E-01	3.96E-01
6014	481866.79	3852359.7	0.01544	0.10126	0.00152	0.00217	0.002	0.003	0.1031	0.10126	0.1610974	0.187019694	1.582E-07	1.14E-04	9.57E-04	3.57E-04	7.30E-01	6.89E-01	3.91E-01
6015	481800.31	3852292.11	0.01523	0.09863	0.00147	0.00211	0.002	0.002	0.1003	0.09863	0.15890631	0.182162279	1.53E-07	1.11E-04	9.43E-04	3.43E-04	7.11E-01	6.71E-01	3.82E-01
6016	481733.84	3852224.52	0.01505	0.09683	0.00143	0.00204	0.002	0.002	0.0985	0.09683	0.15702823	0.178837813	1.489E-07	1.07E-04	9.28E-04	3.32E-04	6.98E-01	6.58E-01	3.76E-01
6017	481667.36	3852156.92	0.01489	0.09677	0.00139	0.00198	0.002	0.002	0.0984	0.09677	0.15535882	0.178726997	1.447E-07	1.04E-04	9.19E-04	3.21E-04	6.97E-01	6.58E-01	3.74E-01
6018	481600.89	3852089.33	0.01473	0.09479	0.00135	0.00193	0.002	0.002	0.0964	0.09479	0.15368942	0.175070084	1.405E-07	1.02E-04	9.05E-04	3.11E-04	6.83E-01	6.45E-01	3.68E-01
6019	481534.41	3852021.74	0.01461	0.09414	0.00132	0.00188	0.002	0.002	0.0957	0.09414	0.15243737	0.173869583	1.374E-07	9.90E-05	8.91E-04	3.02E-04	6.78E-01	6.40E-01	3.66E-01
6020	481467.94	3851954.15	0.0145	0.09347	0.00129	0.00183	0.002	0.002	0.095	0.09347	0.15128965	0.172632143	1.343E-07	9.64E-05	8.77E-04	2.94E-04	6.73E-01	6.36E-01	3.63E-01
6021	481401.46	3851886.55	0.01446	0.0932	0.00125	0.00178	0.002	0.002	0.0947	0.0932	0.1508723	0.172133473	1.301E-07	9.38E-05	8.63E-04	2.86E-04	6.71E-01	6.34E-01	3.61E-01
6022	481265.87	3851761.43	0.01432	0.08187	0.00118	0.0017	0.002	0.002	0.083	0.08187	0.14941158	0.151207805	1.228E-07	8.95E-05	8.39E-04	2.72E-04	5.88E-01	5.57E-01	3.33E-01
6023	481196.74	3851703.89	0.015	0.07659	0.00114	0.00167	0.002	0.002	0.0773	0.07659	0.15650654	0.141456037	1.187E-07	8.80E-05	8.30E-04	2.64E-04	5.48E-01	5.21E-01	3.26E-01
6024	481076.33	3851619.04	0.0153	0.07445	0.00109	0.00162	0.002	0.002	0.0744	0.07445	0.15963667	0.137503616	1.135E-07	8.53E-05	8.16E-04	2.55E-04	5.27E-01	5.06E-01	3.19E-01
6025	480939.8	3851549.07	0.01537	0.07221	0.00103	0.00159	0.002	0.002	0.0717	0.07221	0.16036703	0.133366503	1.072E-07	8.38E-05	8.07E-04	2.46E-04	5.08E-01	4.91E-01	3.12E-01
6026	480854.56	3851506.41	0.01554	0.07254	0.001	0.00157	0.002	0.002	0.0723	0.07254	0.16214077	0.133975988	1.041E-07	8.27E-05	8.02E-04	2.42E-04	5.12E-01	4.93E-01	3.16E-01
6027	480769.32	3851463.75	0.01592	0.07338	0.00097	0.00155	0.002	0.002	0.0735	0.07338	0.16610561	0.135527406	1.01E-07	8.16E-05	7.92E-04	2.38E-04	5.21E-01	4.99E-01	3.25E-01
6028	480684.08	3851421.08	0.01626	0.07428	0.00095	0.00154	0.002	0.002	0.0748	0.07428	0.16965309	0.137189639	9.89E-08	8.11E-05	7.88E-04	2.34E-04	5.30E-01	5.05E-01	3.33E-01

6029	480598.84	3851378.42	0.01632	0.07432	0.00093	0.00152	0.002	0.002	0.0752	0.07432	0.17027911	0.137263516	9.682E-08	8.01E-05	7.78E-04	2.32E-04	5.33E-01	5.05E-01	3.36E-01
6030	480435.71	3851275.01	0.0165	0.10054	0.0009	0.00149	0.002	0.002	0.1032	0.10054	0.17215719	0.185689907	9.37E-08	7.85E-05	7.64E-04	2.26E-04	7.31E-01	6.84E-01	4.07E-01
6031	480347.85	3851232.36	0.01595	0.09912	0.00089	0.00147	0.002	0.002	0.1025	0.09912	0.16641862	0.183067273	9.265E-08	7.74E-05	7.55E-04	2.24E-04	7.26E-01	6.74E-01	4.03E-01
6032	480260	3851189.72	0.01584	0.0977	0.00088	0.00146	0.002	0.002	0.1017	0.0977	0.16527091	0.180444638	9.161E-08	7.69E-05	7.50E-04	2.22E-04	7.20E-01	6.64E-01	4.03E-01
6033	480172.15	3851147.07	0.01585	0.09648	0.00087	0.00145	0.002	0.002	0.1011	0.09648	0.16537524	0.178191389	9.057E-08	7.64E-05	7.41E-04	2.21E-04	7.16E-01	6.56E-01	4.05E-01
6034	480084.29	3851104.42	0.01596	0.09531	0.00086	0.00143	0.002	0.002	0.1004	0.09531	0.16652296	0.176030486	8.953E-08	7.53E-05	7.36E-04	2.19E-04	7.12E-01	6.48E-01	4.07E-01
6035	479996.44	3851061.77	0.01611	0.09444	0.00084	0.00142	0.002	0.002	0.1	0.09444	0.16808802	0.17442366	8.745E-08	7.48E-05	7.27E-04	2.18E-04	7.08E-01	6.42E-01	4.10E-01
6036	479908.58	3851019.13	0.0163	0.09596	0.00083	0.0014	0.002	0.002	0.1022	0.09596	0.17007044	0.177230988	8.641E-08	7.37E-05	7.22E-04	2.15E-04	7.24E-01	6.53E-01	4.20E-01
6037	479820.73	3850976.48	0.01653	0.09492	0.00082	0.00139	0.002	0.002	0.1016	0.09492	0.17247021	0.175310185	8.537E-08	7.32E-05	7.13E-04	2.12E-04	7.20E-01	6.45E-01	4.23E-01
6038	479732.88	3850933.83	0.0171	0.09403	0.00082	0.00137	0.002	0.001	0.1011	0.09403	0.17841745	0.173666421	8.537E-08	7.22E-05	7.08E-04	2.10E-04	7.16E-01	6.39E-01	4.30E-01
6039	479645.02	3850891.18	0.01771	0.09374	0.00081	0.00136	0.001	0.001	0.1009	0.09374	0.18478205	0.173130813	8.433E-08	7.16E-05	6.99E-04	2.07E-04	7.15E-01	6.37E-01	4.36E-01
6040	479557.17	3850848.54	0.01813	0.09304	0.0008	0.00134	0.001	0.001	0.0999	0.09304	0.18916424	0.171837965	8.328E-08	7.06E-05	6.94E-04	2.04E-04	7.08E-01	6.33E-01	4.37E-01
6041	479469.32	3850805.89	0.01844	0.09401	0.0008	0.00132	0.001	0.001	0.1007	0.09401	0.19239871	0.173629482	8.328E-08	6.95E-05	6.85E-04	2.00E-04	7.14E-01	6.39E-01	4.41E-01
6042	479381.46	3850763.24	0.01853	0.09319	0.00079	0.0013	0.001	0.001	0.0996	0.09319	0.19333774	0.172115003	8.224E-08	6.85E-05	6.80E-04	1.97E-04	7.06E-01	6.34E-01	4.38E-01
6043	479293.61	3850720.59	0.01847	0.0916	0.00079	0.00129	0.001	0.001	0.0978	0.0916	0.19271172	0.169178392	8.224E-08	6.79E-05	6.71E-04	1.93E-04	6.93E-01	6.23E-01	4.33E-01
6044	479205.76	3850677.95	0.01837	0.09046	0.00079	0.00127	0.001	0.001	0.0964	0.09046	0.19166834	0.167072896	8.224E-08	6.69E-05	6.66E-04	1.90E-04	6.83E-01	6.15E-01	4.28E-01
6045	479117.9	3850635.3	0.01826	0.08757	0.0008	0.00126	0.001	0.001	0.093	0.08757	0.19052063	0.161735281	8.328E-08	6.64E-05	6.61E-04	1.87E-04	6.59E-01	5.95E-01	4.17E-01
6046	479030.05	3850592.65	0.01802	0.08509	0.0008	0.00124	0.001	0.001	0.09	0.08509	0.18801652	0.157154905	8.328E-08	6.53E-05	6.52E-04	1.84E-04	6.38E-01	5.79E-01	4.05E-01
6047	478942.19	3850550	0.01752	0.08657	0.00079	0.00122	0.001	0.001	0.0914	0.08657	0.18279964	0.159888355	8.224E-08	6.43E-05	6.47E-04	1.80E-04	6.48E-01	5.89E-01	4.03E-01
6048	478854.34	3850507.36	0.01708	0.09248	0.00078	0.0012	0.001	0.001	0.0975	0.09248	0.17820878	0.170803686	8.12E-08	6.32E-05	6.42E-04	1.74E-04	6.91E-01	6.29E-01	4.12E-01
6049	478766.49	3850464.71	0.01669	0.09287	0.00078	0.00118	0.001	0.001	0.0976	0.09287	0.17413961	0.171523987	8.12E-08	6.22E-05	6.24E-04	1.72E-04	6.92E-01	6.32E-01	4.07E-01
6050	478678.63	3850422.06	0.0164	0.09273	0.00077	0.00117	0.001	0.001	0.0973	0.09273	0.17111382	0.171265418	8.016E-08	6.16E-05	6.14E-04	1.69E-04	6.89E-01	6.31E-01	4.02E-01
6051	478590.78	3850379.41	0.01621	0.09292	0.00077	0.00115	0.001	0.001	0.0973	0.09292	0.1691314	0.171616333	8.016E-08	6.06E-05	6.10E-04	1.66E-04	6.89E-01	6.32E-01	3.99E-01
6052	478502.93	3850336.77	0.01602	0.0927	0.00077	0.00113	0.001	0.001	0.0968	0.0927	0.16714898	0.17121001	8.016E-08	5.95E-05	6.00E-04	1.65E-04	6.86E-01	6.30E-01	3.95E-01
6053	478415.07	3850294.12	0.01582	0.09184	0.00077	0.00112	0.001	0.001	0.0956	0.09184	0.16506223	0.169621654	8.016E-08	5.90E-05	5.96E-04	1.62E-04	6.78E-01	6.24E-01	3.89E-01
6054	478327.22	3850251.47	0.01554	0.09238	0.00077	0.0011	0.001	0.001	0.096	0.09238	0.16214077	0.170618994	8.016E-08	5.79E-05	5.91E-04	1.60E-04	6.80E-01	6.28E-01	3.86E-01
6055	478239.36	3850208.82	0.01536	0.09248	0.00077	0.00109	0.001	0.001	0.0959	0.09248	0.1602627	0.170803686	8.016E-08	5.74E-05	5.86E-04	1.59E-04	6.80E-01	6.29E-01	3.83E-01
6056	478151.51	3850166.18	0.01527	0.09233	0.00077	0.00107	0.001	0.001	0.0956	0.09233	0.15932366	0.170526647	8.016E-08	5.64E-05	5.81E-04	1.58E-04	6.77E-01	6.28E-01	3.80E-01
6057	478063.66	3850123.53	0.01524	0.09194	0.00077	0.00106	0.001	0.001	0.0949	0.09194	0.15901064	0.169806346	8.016E-08	5.58E-05	5.77E-04	1.56E-04	6.73E-01	6.25E-01	3.77E-01
6058	477975.8	3850080.88	0.01499	0.08972	0.00077	0.00106	0.001	0.001	0.0925	0.08972	0.1564022	0.165706171	8.016E-08	5.58E-05	5.77E-04	1.56E-04	6.55E-01	6.10E-01	3.68E-01
6059	477887.95	3850038.23	0.01492	0.08929	0.00077	0.00105	0.001	0.001	0.0919	0.08929	0.15567184	0.164911993	8.016E-08	5.53E-05	5.77E-04	1.56E-04	6.51E-01	6.07E-01	3.65E-01
6060	477800.1	3849995.59	0.01483	0.08798	0.00078	0.00105	0.001	0.001	0.0903	0.08798	0.1547328	0.162492521	8.12E-08	5.53E-05	5.72E-04	1.56E-04	6.40E-01	5.98E-01	3.60E-01
6061	477712.24	3849952.94	0.01477	0.08831	0.00077	0.00104	0.001	0.001	0.0905	0.08831	0.15410677	0.163102006	8.016E-08	5.48E-05	5.72E-04	1.55E-04	6.41E-01	6.00E-01	3.58E-01
6062	477624.39	3849910.29	0.01451	0.08823	0.00077	0.00103	0.001	0.001	0.0902	0.08823	0.15139399	0.162954252	8.016E-08	5.43E-05	5.67E-04	1.55E-04	6.39E-01	6.00E-01	3.54E-01
6063	477536.54	3849867.64	0.01414	0.08703	0.00077	0.00102	0.001	0.001	0.0888	0.08703	0.1475335	0.160737941	8.016E-08	5.37E-05	5.72E-04	1.55E-04	6.29E-01	5.92E-01	3.46E-01
6064	477448.68	3849825	0.01396	0.08668	0.00076	0.00102	0.001	0.001	0.0882	0.08668	0.14565542	0.160091517	7.912E-08	5.37E-05	5.63E-04	1.53E-04	6.25E-01	5.89E-01	3.42E-01
6065	477360.83	3849782.35	0.01383	0.08589	0.00076	0.00101	0.001	0.001	0.0873	0.08589	0.14429903	0.158632446	7.912E-08	5.32E-05	5.58E-04	1.53E-04	6.18E-01	5.84E-01	3.38E-01
6066	477272.97	3849739.7	0.01384	0.08462	0.00075	0.001	0.001	0.001	0.0858	0.08462	0.14440337	0.15628685	7.808E-08	5.27E-05	5.58E-04	1.52E-04	6.08E-01	5.75E-01	3.34E-01
6067	477185.12	3849697.05	0.01386	0.08428	0.00075	0.00099	0.001	0.001	0.0853	0.08428	0.14461204	0.155658896	7.808E-08	5.21E-05	5.53E-04	1.52E-04	6.04E-01	5.73E-01	3.32E-01
6068	477097.27	3849654.41	0.01392	0.0853	0.00074	0.00099	0.001	0.001	0.0861	0.0853	0.14523807	0.15754276	7.704E-08	5.21E-05	5.49E-04	1.51E-04	6.10E-01	5.80E-01	3.33E-01
6069	477009.41	3849611.76	0.01402	0.08803	0.00073	0.00098	0.001	0.001	0.0887	0.08803	0.14628145	0.162584867	7.6E-08	5.16E-05	5.44E-04	1.51E-04	6.28E-01	5.99E-01	3.39E-01
6070	476841.49	3849530.08	0.01427	0.08874	0.00072	0.00096	0.001	0.001	0.0891	0.08874	0.14888989	0.163896184	7.496E-08	5.06E-05	5.39E-04	1.49E-04	6.31E-01	6.03E-01	3.41E-01
6071	476761.41	3849491.05	0.01441	0.08868	0.00071	0.00096	0.001	0.001	0.0889	0.08868	0.15035062	0.163785369	7.392E-08	5.06E-05	5.39E-04	1.48E-04	6.30E-01	6.03E-01	3.41E-01
6072	476681.34	3849452.02	0.01466	0.09093	0.0007	0.00095	0.001	0.001	0.091	0.09093	0.15295906	0.167940951	7.287E-08	5.00E-05	5.35E-04	1.48E-04	6.45E-01	6.18E-01	3.48E-01
6073	476601.26	3849412.99	0.01511	0.09548	0.00069	0.00094	0.001	0.001	0.0954	0.09548	0.15765425	0.176344463	7.183E-08	4.95E-05	5.35E-04	1.46E-04	6.76E-01	6.49E-01	3.62E-01
6074	476456.32	3849353.67	0.01566	0.10991	0.00067	0.00093	0.001	0.001	0.11	0.10991	0.16339283	0.202995601	6.975E-08	4.90E-05	5.30E-04	1.45E-04	7.79E-01	7.47E-01	3.99E-01
6075	476305.43	3849318.83	0.0152	0.10504	0.00065	0.00093	0.001	0.001	0.1057	0.10504	0.15859329	0.194001073	6.767E-08	4.90E-05	5.35E-04	1.45E-04	7.49E-01	7.14E-01	3.88E-01
6076	476129.36	3849289.99	0.01477	0.09533	0.00063	0.00093	0.001	0.001	0.0961	0.09533	0.15410677	0.176067424	6.559E-08	4.90E-05	5.39E-04	1.45E-04	6.81E-01	6.48E-01	3.64E-01
6077	476039.31	3849275.68	0.01453	0.09195	0.00062	0.00093	0.001	0.001	0.0926	0.09195	0.15160267	0.169824816	6.455E-08	4.90E-05	5.39E-04	1.45E-04	6.56E-01	6.25E-01	3.53E-01
6078	475949.26	3849261.38	0.0145	0.09319	0.00061	0.00093	0.001	0.001	0.0937	0.09319	0.15128965	0.172115003	6.35E-08	4.90E-05	5.44E-04	1.45E-04	6.64E-01	6.34E-01	3.54E-01
6079	475859.21	3849247.08	0.01431	0.0883	0.0006	0.00093	0.001	0.001	0.0886	0.0883	0.14930724	0.163083537	6.246E-08	4.90E-05	5.44E-04	1.45E-04	6.28E-01	6.00E-01	3.41E-01
6080	475769.16	3849232.77	0.01426	0.08463	0.00059	0.00093	0.001	0.001	0.0849	0.08463	0.14878555	0.15630532	6.142E-08	4.90E-05	5.49E-04	1.43E-04	6.01E-01	5.75E-01	3.32E-01
6081	475585.22	3849219.27	0.01115	0.04929	0.00056	0.00091	0.001	1E-03	0.0496	0.04929	0.11633653	0.091034966	5.83E-08	4.79E-05	5.53E-04	1.39E-04	3.51E-01	3.35E-01	2.24E-01
6082	475444.49	3849150.34	0.01732	0.09725	0.00056	0.00092	0.001	1E-03	0.0977	0.09725	0.18071288	0.179613522	5.83E-08	4.85E-05	5.49E-04	1.39E-04	6.92E-01	6.61E-01	3.92E-01
6083	475334.17	3849118.71	0.01377	0.08094	0.00057	0.00092	0.001	1E-03	0.0813	0.08094	0.143673	0.149490164	5.934E-08	4.85E-05	5.49E-04	1.39E-04	5.76E-01	5.50E-01	3.19E-01
6084	475230.46	3849060.57	0.01482	0.0952	0.00056	0.00091	0.001	1E-03	0.0956	0.0952	0.15462846	0.175827324	5.83E-08	4.79E-05	5.44E-04	1.38E-04	6.77E-01	6.47E-01	3.61E-01
6085	475110.86	3848960.97	0.01454	0.10983	0.00055	0.00089	0.001	1E-03	0.1109	0.10983	0.15170701	0.202847847	5.726E-08	4.69E-05	5.39E-04	1.36E-04	7.86E-01	7.47E-01	3.94E-01
6086	475037.79	3848896.28	0.01404	0.11515	0.00054	0.00088	0.001	1E-03	0.1162	0.11515	0.14649012	0.212673491	5.622E-08	4.64E-05	5.30E-04	1.35E-04	8.24E-01	7.83E-01	4.00E-01

6087	474964.72	3848831.59	0.0139	0.1199	0.00054	0.00087	0.001	1E-03	0.121	0.1199	0.14502939	0.221446388	5.622E-08	4.58E-05	5.25E-04	1.34E-04	8.57E-01	8.15E-01	4.09E-01
6088	474891.65	3848766.9	0.01328	0.12278	0.00053	0.00086	0.001	9E-04	0.1239	0.12278	0.13856046	0.226765534	5.518E-08	4.53E-05	5.21E-04	1.32E-04	8.78E-01	8.35E-01	4.09E-01
6089	474818.58	3848702.22	0.01279	0.12768	0.00053	0.00086	0.001	9E-04	0.1288	0.12768	0.13344791	0.23581547	5.518E-08	4.53E-05	5.16E-04	1.31E-04	9.12E-01	8.68E-01	4.14E-01
6090	474745.51	3848637.53	0.0112	0.12333	0.00053	0.00085	0.001	9E-04	0.1244	0.12333	0.11685822	0.227781343	5.518E-08	4.48E-05	5.11E-04	1.31E-04	8.81E-01	8.39E-01	3.88E-01
6091	474672.44	3848572.84	0.0106	0.12633	0.00052	0.00085	0.001	9E-04	0.1273	0.12633	0.11059795	0.23332212	5.414E-08	4.48E-05	5.06E-04	1.29E-04	9.02E-01	8.59E-01	3.88E-01
6092	474599.37	3848508.15	0.01042	0.13421	0.00052	0.00084	0.001	9E-04	0.1352	0.13421	0.10871988	0.247875894	5.414E-08	4.42E-05	5.02E-04	1.28E-04	9.58E-01	9.13E-01	4.03E-01
6093	474526.3	3848443.46	0.01	0.13821	0.00051	0.00083	0.001	9E-04	0.1392	0.13821	0.10433769	0.255263597	5.309E-08	4.37E-05	4.97E-04	1.27E-04	9.86E-01	9.40E-01	4.07E-01

NOx
Period
Concentration [ug/m^3] at 1 g/s

	X	Y	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex Ma
1	485973.61	3854936.51	0.0319	0.00722	0.0142	0.02894	0.006	0.02	0.0168	0.00722
2	486023.61	3854936.51	0.03121	0.0071	0.01388	0.02767	0.006	0.02	0.0162	0.0071
3	486073.61	3854936.51	0.03042	0.007	0.01364	0.02662	0.006	0.019	0.0156	0.007
4	486123.61	3854936.51	0.02968	0.00685	0.01331	0.02531	0.006	0.018	0.0149	0.00685
5	486173.61	3854936.51	0.02916	0.00679	0.01318	0.02459	0.006	0.018	0.0145	0.00679
6	486223.61	3854936.51	0.02855	0.00668	0.01297	0.02362	0.006	0.017	0.014	0.00668
7	486273.61	3854936.51	0.028	0.00659	0.01281	0.02281	0.006	0.017	0.0136	0.00659
8	486323.61	3854936.51	0.02748	0.0065	0.01266	0.02207	0.006	0.016	0.0132	0.0065
9	485973.61	3854986.51	0.03336	0.0074	0.01419	0.03053	0.006	0.021	0.0175	0.0074
10	486023.61	3854986.51	0.03262	0.00729	0.01394	0.02923	0.006	0.021	0.0169	0.00729
11	486073.61	3854986.51	0.0319	0.00716	0.01367	0.02793	0.006	0.02	0.0162	0.00716
12	486123.61	3854986.51	0.03122	0.00704	0.01344	0.02674	0.006	0.019	0.0156	0.00704
13	486173.61	3854986.51	0.03045	0.00695	0.0133	0.02581	0.006	0.019	0.0151	0.00695
14	486223.61	3854986.51	0.02979	0.00683	0.0131	0.02476	0.006	0.018	0.0145	0.00683
15	486273.61	3854986.51	0.02913	0.0067	0.01291	0.02373	0.006	0.017	0.014	0.0067
16	486323.61	3854986.51	0.02867	0.00666	0.01285	0.02316	0.006	0.017	0.0137	0.00666
17	485973.61	3855036.51	0.03489	0.0076	0.01427	0.03231	0.006	0.022	0.0183	0.0076
18	486023.61	3855036.51	0.03407	0.00747	0.01402	0.03082	0.006	0.021	0.0175	0.00747
19	486073.61	3855036.51	0.03327	0.00732	0.01376	0.02932	0.006	0.021	0.0168	0.00732
20	486123.61	3855036.51	0.03253	0.0072	0.01357	0.02805	0.006	0.02	0.0161	0.0072
21	486173.61	3855036.51	0.03187	0.00711	0.01346	0.02706	0.006	0.019	0.0156	0.00711
22	486223.61	3855036.51	0.03102	0.00697	0.01326	0.02585	0.006	0.019	0.015	0.00697
23	486273.61	3855036.51	0.03043	0.0069	0.01317	0.02505	0.006	0.018	0.0146	0.0069
24	486323.61	3855036.51	0.0298	0.00679	0.013	0.0241	0.006	0.018	0.0141	0.00679
25	485973.61	3855086.51	0.03642	0.00779	0.01439	0.03415	0.007	0.023	0.019	0.00779
26	486023.61	3855086.51	0.03558	0.00767	0.01422	0.03261	0.007	0.022	0.0183	0.00767
27	486073.61	3855086.51	0.03471	0.00751	0.01398	0.03095	0.007	0.021	0.0174	0.00751
28	486123.61	3855086.51	0.03393	0.0074	0.01384	0.02967	0.007	0.021	0.0168	0.0074
29	486173.61	3855086.51	0.03316	0.00726	0.01365	0.0283	0.007	0.02	0.0161	0.00726
30	486223.61	3855086.51	0.03246	0.00715	0.01352	0.02721	0.007	0.019	0.0156	0.00715
31	485973.61	3855136.51	0.03787	0.00802	0.01467	0.0363	0.007	0.024	0.0199	0.00802
32	486023.61	3855136.51	0.03702	0.00787	0.01449	0.03448	0.007	0.023	0.019	0.00787
33	486073.61	3855136.51	0.0362	0.00772	0.01431	0.03279	0.007	0.023	0.0182	0.00772
34	486123.61	3855136.51	0.03536	0.00759	0.01415	0.03129	0.007	0.022	0.0175	0.00759
35	486173.61	3855136.51	0.03454	0.00745	0.01396	0.02986	0.007	0.021	0.0168	0.00745
36	486223.61	3855136.51	0.03376	0.00732	0.01379	0.02858	0.007	0.02	0.0162	0.00732
37	485973.61	3855186.51	0.03934	0.00825	0.01508	0.03866	0.007	0.026	0.0208	0.00825
38	486023.61	3855186.51	0.03843	0.0081	0.01491	0.03667	0.007	0.025	0.0199	0.0081
39	486073.61	3855186.51	0.0376	0.00792	0.01469	0.03468	0.007	0.024	0.019	0.00792
40	486123.61	3855186.51	0.03678	0.00775	0.01446	0.03289	0.007	0.023	0.0181	0.00775
41	486173.61	3855186.51	0.03594	0.00762	0.01426	0.03138	0.007	0.022	0.0174	0.00762
42	486223.61	3855186.51	0.0351	0.00749	0.01407	0.02999	0.007	0.021	0.0167	0.00749
43	486273.61	3855186.51	0.0343	0.00736	0.01386	0.02866	0.007	0.02	0.0161	0.00736
44	486323.61	3855186.51	0.03363	0.00732	0.01381	0.02791	0.007	0.02	0.0157	0.00732
45	485973.61	3855236.51	0.04084	0.00849	0.0156	0.04123	0.008	0.027	0.0218	0.00849
46	486023.61	3855236.51	0.03992	0.00829	0.01536	0.03882	0.008	0.026	0.0207	0.00829
47	486073.61	3855236.51	0.03904	0.0081	0.0151	0.0366	0.008	0.025	0.0197	0.0081
48	486123.61	3855236.51	0.03816	0.00795	0.01487	0.03475	0.008	0.024	0.0188	0.00795
49	486173.61	3855236.51	0.03732	0.00781	0.01465	0.03309	0.008	0.023	0.0181	0.00781
50	486223.61	3855236.51	0.03649	0.00766	0.01444	0.03151	0.008	0.022	0.0173	0.00766
51	486273.61	3855236.51	0.03559	0.00748	0.01417	0.02984	0.008	0.021	0.0165	0.00748
52	486323.61	3855236.51	0.03491	0.00749	0.01421	0.02924	0.008	0.021	0.0162	0.00749
53	485973.61	3855286.51	0.0424	0.00873	0.01625	0.04406	0.008	0.028	0.0228	0.00873
54	486023.61	3855286.51	0.04144	0.00851	0.01594	0.04129	0.008	0.027	0.0216	0.00851

Rates (g/s): 6.97E+00 1.85E+00 1.04E-04 3.52E-02 3.13E-01 9.40E-02 7.09E+00 6.80E+00

Mitigated
Concentration [ug/m^3]

	Equipmen	Rail Haulin	Rail Idling	Off-Site	Solar	33kV	S Main	Remove E›	Total
1	2.22E-01	1.33E-02	1.48E-06	1.02E-03	1.81E-03	1.91E-03	1.19E-01	4.91E-02	3.11E-01
2	2.18E-01	1.31E-02	1.44E-06	9.74E-04	1.80E-03	1.84E-03	1.14E-01	4.83E-02	3.01E-01
3	2.12E-01	1.29E-02	1.42E-06	9.37E-04	1.80E-03	1.79E-03	1.11E-01	4.76E-02	2.93E-01
4	2.07E-01	1.27E-02	1.39E-06	8.91E-04	1.78E-03	1.71E-03	1.06E-01	4.66E-02	2.83E-01
5	2.03E-01	1.25E-02	1.37E-06	8.65E-04	1.80E-03	1.67E-03	1.03E-01	4.62E-02	2.77E-01
6	1.99E-01	1.23E-02	1.35E-06	8.31E-04	1.80E-03	1.62E-03	9.94E-02	4.54E-02	2.70E-01
7	1.95E-01	1.22E-02	1.33E-06	8.03E-04	1.80E-03	1.57E-03	9.63E-02	4.48E-02	2.63E-01
8	1.92E-01	1.20E-02	1.32E-06	7.77E-04	1.81E-03	1.53E-03	9.35E-02	4.42E-02	2.57E-01
9	2.33E-01	1.37E-02	1.48E-06	1.07E-03	1.90E-03	2.00E-03	1.24E-01	5.03E-02	3.25E-01
10	2.27E-01	1.35E-02	1.45E-06	1.03E-03	1.89E-03	1.93E-03	1.19E-01	4.96E-02	3.16E-01
11	2.22E-01	1.32E-02	1.42E-06	9.83E-04	1.88E-03	1.86E-03	1.15E-01	4.87E-02	3.06E-01
12	2.18E-01	1.30E-02	1.40E-06	9.41E-04	1.87E-03	1.79E-03	1.10E-01	4.79E-02	2.98E-01
13	2.12E-01	1.28E-02	1.38E-06	9.08E-04	1.88E-03	1.74E-03	1.07E-01	4.73E-02	2.89E-01
14	2.08E-01	1.26E-02	1.36E-06	8.71E-04	1.88E-03	1.68E-03	1.03E-01	4.64E-02	2.81E-01
15	2.03E-01	1.24E-02	1.34E-06	8.35E-04	1.87E-03	1.63E-03	9.91E-02	4.56E-02	2.73E-01
16	2.00E-01	1.23E-02	1.34E-06	8.15E-04	1.90E-03	1.60E-03	9.71E-02	4.53E-02	2.68E-01
17	2.43E-01	1.40E-02	1.49E-06	1.14E-03	2.00E-03	2.09E-03	1.29E-01	5.17E-02	3.40E-01
18	2.38E-01	1.38E-02	1.46E-06	1.08E-03	1.99E-03	2.01E-03	1.24E-01	5.08E-02	3.30E-01
19	2.32E-01	1.35E-02	1.43E-06	1.03E-03	1.97E-03	1.93E-03	1.19E-01	4.98E-02	3.19E-01
20	2.27E-01	1.33E-02	1.41E-06	9.87E-04	1.96E-03	1.86E-03	1.14E-01	4.90E-02	3.10E-01
21	2.22E-01	1.31E-02	1.40E-06	9.52E-04	1.97E-03	1.81E-03	1.11E-01	4.83E-02	3.02E-01
22	2.16E-01	1.29E-02	1.38E-06	9.10E-04	1.96E-03	1.74E-03	1.06E-01	4.74E-02	2.93E-01
23	2.12E-01	1.27E-02	1.37E-06	8.82E-04	1.98E-03	1.70E-03	1.03E-01	4.69E-02	2.86E-01
24	2.08E-01	1.25E-02	1.35E-06	8.48E-04	1.98E-03	1.65E-03	9.99E-02	4.62E-02	2.79E-01
25	2.54E-01	1.44E-02	1.50E-06	1.20E-03	2.11E-03	2.19E-03	1.35E-01	5.30E-02	3.56E-01
26	2.48E-01	1.42E-02	1.48E-06	1.15E-03	2.09E-03	2.11E-03	1.29E-01	5.22E-02	3.45E-01
27	2.42E-01	1.39E-02	1.46E-06	1.09E-03	2.07E-03	2.02E-03	1.24E-01	5.11E-02	3.34E-01
28	2.37E-01	1.37E-02	1.44E-06	1.04E-03	2.06E-03	1.95E-03	1.19E-01	5.03E-02	3.24E-01
29	2.31E-01	1.34E-02	1.42E-06	9.96E-04	2.06E-03	1.88E-03	1.14E-01	4.94E-02	3.14E-01
30	2.26E-01	1.32E-02	1.41E-06	9.58E-04	2.06E-03	1.82E-03	1.10E-01	4.86E-02	3.06E-01
31	2.64E-01	1.48E-02	1.53E-06	1.28E-03	2.22E-03	2.30E-03	1.41E-01	5.45E-02	3.71E-01
32	2.58E-01	1.45E-02	1.51E-06	1.21E-03	2.20E-03	2.20E-03	1.35E-01	5.35E-02	3.60E-01
33	2.52E-01	1.43E-02	1.49E-06	1.15E-03	2.18E-03	2.11E-03	1.29E-01	5.25E-02	3.49E-01
34	2.47E-01	1.40E-02	1.47E-06	1.10E-03	2.17E-03	2.04E-03	1.24E-01	5.16E-02	3.38E-01
35	2.41E-01	1.38E-02	1.45E-06	1.05E-03	2.17E-03	1.96E-03	1.19E-01	5.07E-02	3.28E-01
36	2.35E-01	1.35E-02	1.44E-06	1.01E-03	2.17E-03	1.89E-03	1.14E-01	4.98E-02	3.19E-01
37	2.74E-01	1.52E-02	1.57E-06	1.36E-03	2.34E-03	2.41E-03	1.48E-01	5.61E-02	3.87E-01
38	2.68E-01	1.50E-02	1.55E-06	1.29E-03	2.32E-03	2.32E-03	1.41E-01	5.51E-02	3.75E-01
39	2.62E-01	1.46E-02	1.53E-06	1.22E-03	2.30E-03	2.21E-03	1.34E-01	5.39E-02	3.63E-01
40	2.56E-01	1.43E-02	1.51E-06	1.16E-03	2.28E-03	2.12E-03	1.28E-01	5.27E-02	3.52E-01
41	2.51E-01	1.41E-02	1.48E-06	1.10E-03	2.27E-03	2.04E-03	1.23E-01	5.18E-02	3.41E-01
42	2.45E-01	1.38E-02	1.46E-06	1.06E-03	2.27E-03	1.97E-03	1.18E-01	5.09E-02	3.31E-01
43	2.39E-01	1.36E-02	1.44E-06	1.01E-03	2.27E-03	1.89E-03	1.14E-01	5.00E-02	3.22E-01
44	2.34E-01	1.35E-02	1.44E-06	9.82E-04	2.31E-03	1.86E-03	1.11E-01	4.98E-02	3.15E-01
45	2.85E-01	1.57E-02	1.62E-06	1.45E-03	2.47E-03	2.54E-03	1.54E-01	5.77E-02	4.04E-01
46	2.78E-01	1.53E-02	1.60E-06	1.37E-03	2.45E-03	2.42E-03	1.47E-01	5.64E-02	3.90E-01
47	2.72E-01	1.50E-02	1.57E-06	1.29E-03	2.42E-03	2.31E-03	1.40E-01	5.51E-02	3.78E-01
48	2.66E-01	1.47E-02	1.55E-06	1.22E-03	2.40E-03	2.21E-03	1.33E-01	5.41E-02	3.66E-01
49	2.60E-01	1.44E-02	1.53E-06	1.16E-03	2.39E-03	2.13E-03	1.28E-01	5.31E-02	3.55E-01
50	2.54E-01	1.41E-02	1.50E-06	1.11E-03	2.38E-03	2.04E-03	1.23E-01	5.21E-02	3.45E-01
51	2.48E-01	1.38E-02	1.48E-06	1.05E-03	2.37E-03	1.95E-03	1.17E-01	5.09E-02	3.33E-01
52	2.43E-01	1.38E-02	1.48E-06	1.03E-03	2.42E-03	1.93E-03	1.15E-01	5.09E-02	3.27E-01
53	2.96E-01	1.61E-02	1.69E-06	1.55E-03	2.59E-03	2.67E-03	1.62E-01	5.94E-02	4.21E-01
54	2.89E-01	1.57E-02	1.66E-06	1.45E-03	2.58E-03	2.54E-03	1.53E-01	5.79E-02	4.06E-01

55	486073.61	3855286.51	0.04049	0.00833	0.01566	0.03891	0.008	0.026	0.0206	0.00833	2.82E-01	1.54E-02	1.63E-06	1.37E-03	2.56E-03	2.42E-03	1.46E-01	5.66E-02	3.93E-01
56	486123.61	3855286.51	0.03959	0.00814	0.01538	0.03671	0.008	0.025	0.0196	0.00814	2.76E-01	1.50E-02	1.60E-06	1.29E-03	2.53E-03	2.31E-03	1.39E-01	5.54E-02	3.80E-01
57	486173.61	3855286.51	0.03871	0.00797	0.01514	0.03477	0.008	0.024	0.0187	0.00797	2.70E-01	1.47E-02	1.58E-06	1.22E-03	2.51E-03	2.21E-03	1.32E-01	5.42E-02	3.69E-01
58	486223.61	3855286.51	0.03784	0.00784	0.01497	0.03316	0.008	0.023	0.0179	0.00784	2.64E-01	1.45E-02	1.56E-06	1.17E-03	2.51E-03	2.13E-03	1.27E-01	5.33E-02	3.58E-01
59	486123.61	3855336.51	0.04107	0.00834	0.01609	0.03887	0.009	0.026	0.0203	0.00834	2.86E-01	1.54E-02	1.68E-06	1.37E-03	2.67E-03	2.41E-03	1.44E-01	5.67E-02	3.96E-01
60	486173.61	3855336.51	0.04011	0.00818	0.0159	0.03683	0.008	0.025	0.0194	0.00818	2.80E-01	1.51E-02	1.66E-06	1.30E-03	2.66E-03	2.31E-03	1.38E-01	5.56E-02	3.83E-01
61	486223.61	3855336.51	0.0392	0.00803	0.01573	0.03493	0.008	0.024	0.0186	0.00803	2.73E-01	1.48E-02	1.64E-06	1.23E-03	2.64E-03	2.22E-03	1.32E-01	5.46E-02	3.71E-01
62	486123.61	3855386.51	0.04258	0.00856	0.01709	0.04137	0.009	0.027	0.0212	0.00856	2.97E-01	1.58E-02	1.78E-06	1.46E-03	2.82E-03	2.53E-03	1.50E-01	5.82E-02	4.12E-01
63	486173.61	3855386.51	0.04157	0.00839	0.01692	0.03906	0.009	0.026	0.0202	0.00839	2.90E-01	1.55E-02	1.76E-06	1.37E-03	2.80E-03	2.42E-03	1.43E-01	5.71E-02	3.98E-01
64	486223.61	3855386.51	0.04059	0.00824	0.01678	0.03702	0.009	0.025	0.0194	0.00824	2.83E-01	1.52E-02	1.75E-06	1.30E-03	2.79E-03	2.32E-03	1.37E-01	5.60E-02	3.86E-01
65	486533.18	3855443.15	0.03673	0.00768	0.01684	0.02977	0.01	0.021	0.016	0.00768	2.56E-01	1.42E-02	1.75E-06	1.05E-03	3.05E-03	1.96E-03	1.13E-01	5.22E-02	3.37E-01
66	486583.18	3855443.15	0.03599	0.00756	0.01654	0.02857	0.01	0.02	0.0155	0.00756	2.51E-01	1.40E-02	1.72E-06	1.01E-03	3.07E-03	1.89E-03	1.10E-01	5.14E-02	3.29E-01
67	486633.18	3855443.15	0.03525	0.00745	0.01623	0.02747	0.01	0.02	0.015	0.00745	2.46E-01	1.38E-02	1.69E-06	9.67E-04	3.08E-03	1.84E-03	1.06E-01	5.07E-02	3.21E-01
68	486683.18	3855443.15	0.03454	0.00736	0.01598	0.02656	0.01	0.019	0.0145	0.00736	2.41E-01	1.36E-02	1.66E-06	9.35E-04	3.11E-03	1.79E-03	1.03E-01	5.00E-02	3.13E-01
69	486533.18	3855493.15	0.03791	0.00785	0.01772	0.03117	0.01	0.022	0.0165	0.00785	2.64E-01	1.45E-02	1.84E-06	1.10E-03	3.23E-03	2.03E-03	1.17E-01	5.34E-02	3.49E-01
70	486583.18	3855493.15	0.03712	0.00773	0.0174	0.02992	0.01	0.021	0.016	0.00773	2.59E-01	1.43E-02	1.81E-06	1.05E-03	3.25E-03	1.96E-03	1.13E-01	5.26E-02	3.40E-01
71	486633.18	3855493.15	0.03638	0.00761	0.01707	0.02873	0.01	0.02	0.0154	0.00761	2.54E-01	1.41E-02	1.78E-06	1.01E-03	3.26E-03	1.90E-03	1.09E-01	5.17E-02	3.31E-01
72	486683.18	3855493.15	0.03565	0.0075	0.01673	0.02765	0.01	0.02	0.0149	0.0075	2.49E-01	1.39E-02	1.74E-06	9.73E-04	3.28E-03	1.85E-03	1.06E-01	5.10E-02	3.23E-01
73	486533.18	3855543.15	0.0391	0.00804	0.01871	0.03279	0.011	0.022	0.0171	0.00804	2.73E-01	1.48E-02	1.95E-06	1.15E-03	3.42E-03	2.11E-03	1.21E-01	5.47E-02	3.61E-01
74	486583.18	3855543.15	0.0383	0.00789	0.01827	0.03125	0.011	0.022	0.0164	0.00789	2.67E-01	1.46E-02	1.90E-06	1.10E-03	3.43E-03	2.03E-03	1.16E-01	5.37E-02	3.51E-01
75	486633.18	3855543.15	0.03751	0.00777	0.01792	0.03001	0.011	0.021	0.0159	0.00777	2.62E-01	1.44E-02	1.87E-06	1.06E-03	3.46E-03	1.97E-03	1.13E-01	5.28E-02	3.42E-01
76	486683.18	3855543.15	0.03677	0.00762	0.01748	0.02869	0.011	0.02	0.0153	0.00762	2.56E-01	1.41E-02	1.82E-06	1.01E-03	3.46E-03	1.90E-03	1.08E-01	5.18E-02	3.33E-01
77	486533.18	3855593.15	0.04035	0.00822	0.01971	0.03449	0.012	0.023	0.0177	0.00822	2.81E-01	1.52E-02	2.05E-06	1.21E-03	3.63E-03	2.19E-03	1.25E-01	5.59E-02	3.73E-01
78	486583.18	3855593.15	0.0395	0.00807	0.01926	0.03287	0.012	0.022	0.017	0.00807	2.75E-01	1.49E-02	2.01E-06	1.16E-03	3.64E-03	2.11E-03	1.20E-01	5.49E-02	3.63E-01
79	486633.18	3855593.15	0.03867	0.00793	0.01883	0.03143	0.012	0.022	0.0164	0.00793	2.70E-01	1.46E-02	1.96E-06	1.11E-03	3.66E-03	2.04E-03	1.16E-01	5.39E-02	3.53E-01
80	486683.18	3855593.15	0.03787	0.00782	0.01845	0.03019	0.012	0.021	0.0159	0.00782	2.64E-01	1.44E-02	1.92E-06	1.06E-03	3.69E-03	1.98E-03	1.12E-01	5.32E-02	3.44E-01
81	486533.18	3855643.15	0.04163	0.00841	0.02076	0.03646	0.012	0.024	0.0183	0.00841	2.90E-01	1.55E-02	2.16E-06	1.28E-03	3.85E-03	2.29E-03	1.30E-01	5.72E-02	3.86E-01
82	486583.18	3855643.15	0.04072	0.00826	0.02027	0.03469	0.012	0.023	0.0176	0.00826	2.84E-01	1.53E-02	2.11E-06	1.22E-03	3.88E-03	2.20E-03	1.25E-01	5.62E-02	3.75E-01
83	486633.18	3855643.15	0.03985	0.00812	0.01977	0.03308	0.012	0.023	0.0169	0.00812	2.78E-01	1.50E-02	2.06E-06	1.16E-03	3.90E-03	2.12E-03	1.20E-01	5.52E-02	3.65E-01
84	486683.18	3855643.15	0.03901	0.00798	0.01931	0.03167	0.013	0.022	0.0164	0.00798	2.72E-01	1.47E-02	2.01E-06	1.11E-03	3.93E-03	2.05E-03	1.16E-01	5.43E-02	3.55E-01
85	486533.18	3855693.15	0.04292	0.00864	0.02187	0.03885	0.013	0.026	0.0191	0.00864	2.99E-01	1.60E-02	2.28E-06	1.37E-03	4.11E-03	2.40E-03	1.35E-01	5.88E-02	4.00E-01
86	486583.18	3855693.15	0.04202	0.00844	0.0212	0.03665	0.013	0.024	0.0182	0.00844	2.93E-01	1.56E-02	2.21E-06	1.29E-03	4.12E-03	2.29E-03	1.29E-01	5.74E-02	3.88E-01
87	486633.18	3855693.15	0.04114	0.00826	0.02053	0.03464	0.013	0.023	0.0174	0.00826	2.87E-01	1.53E-02	2.14E-06	1.22E-03	4.13E-03	2.19E-03	1.23E-01	5.62E-02	3.77E-01
88	486683.18	3855693.15	0.0402	0.00816	0.02013	0.0333	0.013	0.023	0.0169	0.00816	2.80E-01	1.51E-02	2.10E-06	1.17E-03	4.18E-03	2.13E-03	1.20E-01	5.55E-02	3.67E-01
89	486733.18	3855693.15	0.03927	0.00809	0.01982	0.03225	0.014	0.022	0.0165	0.00809	2.74E-01	1.49E-02	2.06E-06	1.14E-03	4.25E-03	2.08E-03	1.17E-01	5.50E-02	3.58E-01
90	486783.18	3855693.15	0.03837	0.00805	0.01956	0.03136	0.014	0.022	0.0162	0.00805	2.68E-01	1.49E-02	2.04E-06	1.10E-03	4.35E-03	2.04E-03	1.14E-01	5.47E-02	3.50E-01
91	486533.18	3855743.15	0.04431	0.00885	0.02289	0.04144	0.014	0.027	0.0199	0.00885	3.09E-01	1.63E-02	2.38E-06	1.46E-03	4.38E-03	2.52E-03	1.41E-01	6.02E-02	4.15E-01
92	486583.18	3855743.15	0.0434	0.00862	0.02205	0.03876	0.014	0.025	0.0189	0.00862	3.03E-01	1.59E-02	2.30E-06	1.36E-03	4.39E-03	2.39E-03	1.34E-01	5.86E-02	4.02E-01
93	486633.18	3855743.15	0.04243	0.00845	0.0214	0.03669	0.014	0.024	0.0181	0.00845	2.96E-01	1.56E-02	2.23E-06	1.29E-03	4.41E-03	2.29E-03	1.28E-01	5.75E-02	3.90E-01
94	486683.18	3855743.15	0.04139	0.00836	0.02101	0.0353	0.014	0.024	0.0176	0.00836	2.89E-01	1.54E-02	2.19E-06	1.24E-03	4.47E-03	2.23E-03	1.24E-01	5.68E-02	3.80E-01
95	486733.18	3855743.15	0.04045	0.00826	0.02054	0.03388	0.014	0.023	0.017	0.00826	2.82E-01	1.53E-02	2.14E-06	1.19E-03	4.53E-03	2.16E-03	1.21E-01	5.62E-02	3.70E-01
96	486783.18	3855743.15	0.03945	0.00823	0.02032	0.033	0.015	0.023	0.0167	0.00823	2.75E-01	1.52E-02	2.12E-06	1.16E-03	4.65E-03	2.12E-03	1.18E-01	5.60E-02	3.61E-01
97	486533.18	3855793.15	0.04576	0.00907	0.02389	0.04449	0.015	0.028	0.0209	0.00907	3.19E-01	1.68E-02	2.49E-06	1.57E-03	4.68E-03	2.65E-03	1.48E-01	6.17E-02	4.31E-01
98	486583.18	3855793.15	0.04488	0.00878	0.0228	0.04107	0.015	0.027	0.0196	0.00878	3.13E-01	1.62E-02	2.37E-06	1.45E-03	4.67E-03	2.49E-03	1.39E-01	5.97E-02	4.17E-01
99	486633.18	3855793.15	0.04371	0.00868	0.02234	0.03925	0.015	0.026	0.0189	0.00868	3.05E-01	1.60E-02	2.33E-06	1.38E-03	4.73E-03	2.41E-03	1.34E-01	5.90E-02	4.04E-01
100	486683.18	3855793.15	0.04259	0.00859	0.0219	0.03766	0.015	0.025	0.0184	0.00859	2.97E-01	1.59E-02	2.28E-06	1.33E-03	4.81E-03	2.34E-03	1.30E-01	5.84E-02	3.93E-01
101	486733.18	3855793.15	0.04157	0.00849	0.02142	0.03611	0.016	0.024	0.0178	0.00849	2.90E-01	1.57E-02	2.23E-06	1.27E-03	4.88E-03	2.27E-03	1.26E-01	5.77E-02	3.82E-01
102	486783.18	3855793.15	0.04059	0.0084	0.02098	0.03477	0.016	0.023	0.0173	0.0084	2.83E-01	1.55E-02	2.18E-06	1.22E-03	4.97E-03	2.21E-03	1.22E-01	5.71E-02	3.72E-01
103	486533.18	3855843.15	0.04739	0.00926	0.02462	0.0477	0.016	0.03	0.0218	0.00926	3.30E-01	1.71E-02	2.56E-06	1.68E-03	4.99E-03	2.79E-03	1.54E-01	6.30E-02	4.48E-01
104	486583.18	3855843.15	0.04634	0.00901	0.02363	0.0442	0.016	0.028	0.0205	0.00901	3.23E-01	1.66E-02	2.46E-06	1.56E-03	5.01E-03	2.63E-03	1.45E-01	6.13E-02	4.33E-01
105	486633.18	3855843.15	0.04507	0.0089	0.0231	0.04209	0.016	0.027	0.0198	0.0089	3.14E-01	1.64E-02	2.40E-06	1.48E-03	5.09E-03	2.54E-03	1.40E-01	6.05E-02	4.20E-01
106	486683.18	3855843.15	0.04387	0.00881	0.0226	0.04022	0.016	0.026	0.0192	0.00881	3.06E-01	1.63E-02	2.35E-06	1.42E-03	5.16E-03	2.46E-03	1.36E-01	5.99E-02	4.07E-01
107	486733.18	3855843.15	0.04276	0.00871	0.02209	0.03852	0.017	0.025	0.0186	0.00871	2.98E-01	1.61E-02	2.30E-06	1.36E-03	5.25E-03	2.38E-03	1.32E-01	5.92E-02	3.96E-01
108	486783.18	3855843.15	0.04172	0.00861	0.02157	0.03694	0.017	0.025	0.018	0.00861	2.91E-01	1.59E-02	2.25E-06	1.30E-03	5.34E-03	2.31E-03	1.28E-01	5.85E-02	3.85E-01
109	486533.18	3855893.15	0.04928	0.0094	0.02491	0.05099	0.017	0.031	0.0226	0.0094	3.44E-01	1.74E-02	2.59E-06	1.79E-03	5.32E-03	2.92E-03	1.60E-01	6.39E-02	4.67E-01
110	486583.18	3855893.15	0.04783	0.00927	0.02426	0.04803	0.017	0.03	0.0217	0.00927	3.33E-01	1.71E-02	2.53E-06	1.69E-03	5.39E-03	2.79E-03	1.54E-01	6.30E-02	4.51E-01
111	486633.18	3855893.15	0.0465	0.00914	0.02361	0.04539	0.017	0.029	0.0208	0.00914	3.24E-01	1.69E-02	2.46E-06	1.60E-03	5.47E-03	2.68E-03	1.47E-01	6.22E-02	4.36E-01
112	486683.18	3855893.15	0.04522	0.00903	0.02303	0.04316	0.018	0.028	0.0201	0.00903	3.15E-01	1.67E-02	2.40E-06	1.52E-03	5.56E-03	2.59E-03	1.42E-01	6.14E-02	4.22E-01

113	486733.18	3855893.15	0.04402	0.00893	0.02247	0.04118	0.018	0.027	0.0194	0.00893	3.07E-01	1.65E-02	2.34E-06	1.45E-03	5.65E-03	2.51E-03	1.37E-01	6.07E-02	4.10E-01
114	486783.18	3855893.15	0.04287	0.00885	0.02195	0.03947	0.018	0.026	0.0188	0.00885	2.99E-01	1.63E-02	2.29E-06	1.39E-03	5.76E-03	2.43E-03	1.33E-01	6.02E-02	3.98E-01
115	486533.18	3855943.15	0.05112	0.00964	0.0251	0.05573	0.018	0.033	0.0239	0.00964	3.56E-01	1.78E-02	2.61E-06	1.96E-03	5.71E-03	3.11E-03	1.69E-01	6.56E-02	4.89E-01
116	486583.18	3855943.15	0.04942	0.00954	0.02453	0.05257	0.019	0.032	0.023	0.00954	3.45E-01	1.76E-02	2.55E-06	1.85E-03	5.82E-03	2.98E-03	1.63E-01	6.49E-02	4.71E-01
117	486633.18	3855943.15	0.04801	0.00938	0.02379	0.04927	0.019	0.03	0.022	0.00938	3.35E-01	1.73E-02	2.48E-06	1.73E-03	5.90E-03	2.85E-03	1.56E-01	6.38E-02	4.54E-01
118	486683.18	3855943.15	0.0466	0.00929	0.02321	0.04674	0.019	0.029	0.0212	0.00929	3.25E-01	1.72E-02	2.42E-06	1.65E-03	6.01E-03	2.75E-03	1.50E-01	6.32E-02	4.39E-01
119	486733.18	3855943.15	0.04535	0.00916	0.02256	0.04428	0.019	0.028	0.0204	0.00916	3.16E-01	1.69E-02	2.35E-06	1.56E-03	6.10E-03	2.64E-03	1.44E-01	6.23E-02	4.25E-01
120	486783.18	3855943.15	0.0441	0.00908	0.02203	0.0423	0.02	0.027	0.0197	0.00908	3.07E-01	1.68E-02	2.29E-06	1.49E-03	6.22E-03	2.56E-03	1.40E-01	6.17E-02	4.12E-01
121	486533.18	3855993.15	0.053	0.00993	0.02502	0.06193	0.02	0.036	0.0256	0.00993	3.70E-01	1.83E-02	2.60E-06	2.18E-03	6.16E-03	3.35E-03	1.81E-01	6.75E-02	5.13E-01
122	486583.18	3855993.15	0.05123	0.00979	0.02432	0.05768	0.02	0.034	0.0244	0.00979	3.57E-01	1.81E-02	2.53E-06	2.03E-03	6.27E-03	3.19E-03	1.73E-01	6.66E-02	4.93E-01
123	486633.18	3855993.15	0.04963	0.00965	0.02364	0.05395	0.02	0.032	0.0233	0.00965	3.46E-01	1.78E-02	2.46E-06	1.90E-03	6.38E-03	3.04E-03	1.65E-01	6.56E-02	4.74E-01
124	486683.18	3855993.15	0.04809	0.00954	0.02304	0.05087	0.021	0.031	0.0224	0.00954	3.35E-01	1.76E-02	2.40E-06	1.79E-03	6.50E-03	2.92E-03	1.58E-01	6.49E-02	4.58E-01
125	486733.18	3855993.15	0.04672	0.00941	0.0224	0.04799	0.021	0.03	0.0215	0.00941	3.26E-01	1.74E-02	2.33E-06	1.69E-03	6.62E-03	2.80E-03	1.52E-01	6.40E-02	4.42E-01
126	486783.18	3855993.15	0.04542	0.0093	0.02181	0.04553	0.022	0.029	0.0207	0.0093	3.17E-01	1.72E-02	2.27E-06	1.60E-03	6.74E-03	2.70E-03	1.47E-01	6.32E-02	4.28E-01
127	486533.18	3856043.15	0.0551	0.01022	0.02454	0.06957	0.021	0.039	0.0274	0.01022	3.84E-01	1.89E-02	2.55E-06	2.45E-03	6.65E-03	3.63E-03	1.94E-01	6.95E-02	5.40E-01
128	486583.18	3856043.15	0.0531	0.01009	0.02389	0.06441	0.022	0.037	0.0261	0.01009	3.70E-01	1.86E-02	2.49E-06	2.27E-03	6.79E-03	3.44E-03	1.85E-01	6.86E-02	5.18E-01
129	486633.18	3856043.15	0.05137	0.00992	0.02318	0.05965	0.022	0.035	0.0248	0.00992	3.58E-01	1.83E-02	2.41E-06	2.10E-03	6.91E-03	3.26E-03	1.76E-01	6.75E-02	4.97E-01
130	486683.18	3856043.15	0.04968	0.00981	0.02262	0.05595	0.023	0.033	0.0237	0.00981	3.46E-01	1.81E-02	2.35E-06	1.97E-03	7.06E-03	3.12E-03	1.68E-01	6.67E-02	4.78E-01
131	486733.18	3856043.15	0.04822	0.00966	0.02197	0.05235	0.023	0.032	0.0227	0.00966	3.36E-01	1.78E-02	2.29E-06	1.84E-03	7.19E-03	2.98E-03	1.61E-01	6.57E-02	4.61E-01
132	486783.18	3856043.15	0.04675	0.00957	0.02145	0.04953	0.023	0.031	0.0219	0.00957	3.26E-01	1.77E-02	2.23E-06	1.74E-03	7.34E-03	2.88E-03	1.55E-01	6.51E-02	4.46E-01
133	486533.18	3856093.15	0.05736	0.01056	0.02384	0.08004	0.023	0.042	0.0297	0.01056	4.00E-01	1.95E-02	2.48E-06	2.82E-03	7.19E-03	3.99E-03	2.10E-01	7.18E-02	5.72E-01
134	486583.18	3856093.15	0.0552	0.01039	0.02316	0.0729	0.023	0.04	0.028	0.01039	3.85E-01	1.92E-02	2.41E-06	2.57E-03	7.35E-03	3.75E-03	1.99E-01	7.07E-02	5.46E-01
135	486633.18	3856093.15	0.05325	0.01022	0.02252	0.06693	0.024	0.038	0.0266	0.01022	3.71E-01	1.89E-02	2.34E-06	2.36E-03	7.50E-03	3.54E-03	1.88E-01	6.95E-02	5.22E-01
136	486683.18	3856093.15	0.05143	0.01009	0.02196	0.06206	0.024	0.036	0.0253	0.01009	3.59E-01	1.86E-02	2.29E-06	2.18E-03	7.67E-03	3.36E-03	1.79E-01	6.86E-02	5.01E-01
137	486733.18	3856093.15	0.0498	0.00994	0.02138	0.05773	0.025	0.034	0.0242	0.00994	3.47E-01	1.84E-02	2.23E-06	2.03E-03	7.83E-03	3.20E-03	1.71E-01	6.76E-02	4.82E-01
138	486783.18	3856093.15	0.04824	0.00982	0.02086	0.05411	0.026	0.033	0.0232	0.00982	3.36E-01	1.81E-02	2.17E-06	1.90E-03	8.01E-03	3.07E-03	1.64E-01	6.68E-02	4.65E-01
139	486533.18	3856143.15	0.05996	0.01088	0.02286	0.09366	0.025	0.047	0.0323	0.01088	4.18E-01	2.01E-02	2.38E-06	3.30E-03	7.78E-03	4.43E-03	2.29E-01	7.40E-02	6.08E-01
140	486583.18	3856143.15	0.05758	0.01068	0.02219	0.08363	0.025	0.044	0.0302	0.01068	4.01E-01	1.97E-02	2.31E-06	2.94E-03	7.96E-03	4.11E-03	2.14E-01	7.26E-02	5.78E-01
141	486633.18	3856143.15	0.05534	0.01053	0.02166	0.07589	0.026	0.041	0.0286	0.01053	3.86E-01	1.94E-02	2.25E-06	2.67E-03	8.16E-03	3.86E-03	2.03E-01	7.16E-02	5.51E-01
142	486683.18	3856143.15	0.05335	0.01037	0.02113	0.06939	0.027	0.039	0.0271	0.01037	3.72E-01	1.92E-02	2.20E-06	2.44E-03	8.35E-03	3.64E-03	1.92E-01	7.05E-02	5.27E-01
143	486733.18	3856143.15	0.05153	0.01022	0.02062	0.06395	0.027	0.037	0.0258	0.01022	3.59E-01	1.89E-02	2.15E-06	2.25E-03	8.55E-03	3.45E-03	1.83E-01	6.95E-02	5.06E-01
144	486783.18	3856143.15	0.04977	0.01013	0.0202	0.05953	0.028	0.035	0.0248	0.01013	3.47E-01	1.87E-02	2.10E-06	2.10E-03	8.78E-03	3.30E-03	1.75E-01	6.89E-02	4.86E-01
145	486533.18	3856193.15	0.06287	0.01124	0.02179	0.11249	0.027	0.053	0.0356	0.01124	4.38E-01	2.08E-02	2.27E-06	3.96E-03	8.44E-03	5.00E-03	2.52E-01	7.64E-02	6.52E-01
146	486583.18	3856193.15	0.06019	0.01101	0.02115	0.09785	0.028	0.049	0.033	0.01101	4.20E-01	2.03E-02	2.20E-06	3.44E-03	8.66E-03	4.57E-03	2.34E-01	7.49E-02	6.16E-01
147	486633.18	3856193.15	0.05768	0.01085	0.02067	0.08708	0.028	0.045	0.031	0.01085	4.02E-01	2.00E-02	2.15E-06	3.06E-03	8.89E-03	4.25E-03	2.20E-01	7.38E-02	5.84E-01
148	486683.18	3856193.15	0.05537	0.01071	0.02027	0.07867	0.029	0.042	0.0294	0.01071	3.86E-01	1.98E-02	2.11E-06	2.77E-03	9.14E-03	3.99E-03	2.08E-01	7.28E-02	5.57E-01
149	486733.18	3856193.15	0.05339	0.01054	0.01979	0.07151	0.03	0.04	0.0278	0.01054	3.72E-01	1.95E-02	2.06E-06	2.52E-03	9.36E-03	3.74E-03	1.97E-01	7.17E-02	5.32E-01
150	486783.18	3856193.15	0.05146	0.01043	0.01942	0.06586	0.031	0.038	0.0265	0.01043	3.59E-01	1.93E-02	2.02E-06	2.32E-03	9.63E-03	3.55E-03	1.88E-01	7.09E-02	5.10E-01
151	486533.18	3856243.15	0.06629	0.01161	0.0206	0.13915	0.029	0.061	0.0395	0.01161	4.62E-01	2.14E-02	2.14E-06	4.90E-03	9.17E-03	5.72E-03	2.80E-01	7.89E-02	7.05E-01
152	486583.18	3856243.15	0.0631	0.01139	0.02009	0.11752	0.03	0.055	0.0365	0.01139	4.40E-01	2.10E-02	2.09E-06	4.14E-03	9.45E-03	5.17E-03	2.59E-01	7.75E-02	6.61E-01
153	486633.18	3856243.15	0.06028	0.0112	0.01965	0.10185	0.031	0.05	0.034	0.0112	4.20E-01	2.07E-02	2.05E-06	3.58E-03	9.73E-03	4.73E-03	2.41E-01	7.62E-02	6.23E-01
154	486683.18	3856243.15	0.05774	0.01103	0.01927	0.09008	0.032	0.047	0.0318	0.01103	4.03E-01	2.04E-02	2.01E-06	3.17E-03	1.00E-02	4.37E-03	2.25E-01	7.50E-02	5.91E-01
155	486733.18	3856243.15	0.05542	0.01089	0.01893	0.0809	0.033	0.043	0.03	0.01089	3.86E-01	2.01E-02	1.97E-06	2.85E-03	1.03E-02	4.08E-03	2.12E-01	7.41E-02	5.62E-01
156	486783.18	3856243.15	0.05337	0.01073	0.01855	0.0734	0.034	0.041	0.0283	0.01073	3.72E-01	1.98E-02	1.93E-06	2.58E-03	1.06E-02	3.83E-03	2.01E-01	7.30E-02	5.37E-01
157	486533.18	3856293.15	0.07027	0.012	0.01944	0.18069	0.032	0.071	0.0444	0.012	4.90E-01	2.22E-02	2.02E-06	6.36E-03	1.00E-02	6.68E-03	3.14E-01	8.16E-02	7.68E-01
158	486583.18	3856293.15	0.06653	0.01177	0.01899	0.14547	0.033	0.063	0.0405	0.01177	4.64E-01	2.17E-02	1.98E-06	5.12E-03	1.03E-02	5.90E-03	2.87E-01	8.00E-02	7.14E-01
159	486633.18	3856293.15	0.06325	0.01156	0.01861	0.12197	0.034	0.057	0.0373	0.01156	4.41E-01	2.14E-02	1.94E-06	4.29E-03	1.07E-02	5.31E-03	2.64E-01	7.86E-02	6.68E-01
160	486683.18	3856293.15	0.06036	0.01138	0.01829	0.10518	0.035	0.052	0.0347	0.01138	4.21E-01	2.10E-02	1.90E-06	3.70E-03	1.10E-02	4.85E-03	2.46E-01	7.74E-02	6.30E-01
161	486733.18	3856293.15	0.05772	0.01124	0.01803	0.09272	0.036	0.048	0.0325	0.01124	4.02E-01	2.08E-02	1.88E-06	3.26E-03	1.14E-02	4.49E-03	2.30E-01	7.64E-02	5.96E-01
162	486783.18	3856293.15	0.05544	0.01107	0.0177	0.08281	0.037	0.044	0.0305	0.01107	3.87E-01	2.04E-02	1.84E-06	2.91E-03	1.17E-02	4.17E-03	2.16E-01	7.53E-02	5.67E-01
163	486783.18	3856343.15	0.0577	0.01145	0.01694	0.09484	0.042	0.049	0.0331	0.01145	4.02E-01	2.11E-02	1.76E-06	3.34E-03	1.30E-02	4.59E-03	2.34E-01	7.79E-02	6.01E-01
164	486833.18	3856343.15	0.05537	0.01129	0.01667	0.08447	0.043	0.045	0.031	0.01129	3.86E-01	2.09E-02	1.74E-06	2.97E-03	1.35E-02	4.26E-03	2.20E-01	7.68E-02	5.71E-01
165	486883.18	3856343.15	0.05327	0.01114	0.01638	0.07619	0.044	0.042	0.0292	0.01114	3.71E-01	2.06E-02	1.71E-06	2.68E-03	1.39E-02	3.99E-03	2.07E-01	7.58E-02	5.44E-01
166	486783.18	3856393.15	0.06038	0.0118	0.01619	0.11041	0.046	0.054	0.0359	0.0118	4.21E-01	2.18E-02	1.69E-06	3.89E-03	1.45E-02	5.08E-03	2.54E-01	8.02E-02	6.40E-01
167	486833.18	3856393.15	0.05773	0.01163	0.01598	0.09641	0.048	0.05	0.0334	0.01163	4.02E-01	2.15E-02	1.66E-06	3.39E-03	1.51E-02	4.67E-03	2.37E-01	7.91E-02	6.05E-01
168	486883.18	3856393.15	0.05543	0.01145	0.0157	0.0856	0.05	0.046	0.0313	0.01145	3.86E-01	2.11E-02	1.63E-06	3.01E-03	1.56E-02	4.32E-03	2.22E-01	7.79E-02	5.74E-01
169	487208.74	3856886.11	0.06492	0.01418	0.01031	0.16507	1.248	0.076	0.042	0.01418	4.53E-01	2.62E-02	1.07E-06	5.81E-03	3.91E-01	7.13E-03	2.98E-01	9.64E-02	1.08E+00
170	487258.74	3856886.11	0.06137	0.01392	0.01012	0.13483	1.654	0.067	0.0385	0.01392	4.28E-01	2.57E-02	1.05E-06	4.75E-03	5.18E-01	6.30E-03	2.73E-01	9.47E-02	1.16E+00

171	487308.74	3856886.11	0.05832	0.01367	0.00992	0.11412	1.878	0.06	0.0356	0.01367	4.07E-01	2.52E-02	1.03E-06	4.02E-03	5.88E-01	5.67E-03	2.52E-01	9.30E-02	1.19E+00
172	487358.74	3856886.11	0.05569	0.01342	0.00974	0.09908	2.021	0.055	0.0332	0.01342	3.88E-01	2.48E-02	1.01E-06	3.49E-03	6.33E-01	5.18E-03	2.35E-01	9.13E-02	1.20E+00
173	487208.74	3856936.11	0.06945	0.0147	0.0102	0.21925	1.483	0.09	0.0465	0.0147	4.84E-01	2.71E-02	1.06E-06	7.72E-03	4.65E-01	8.48E-03	3.30E-01	1.00E-01	1.22E+00
174	487258.74	3856936.11	0.06504	0.01442	0.00998	0.16873	1.806	0.078	0.0423	0.01442	4.53E-01	2.66E-02	1.04E-06	5.94E-03	5.66E-01	7.30E-03	2.99E-01	9.81E-02	1.26E+00
175	487308.74	3856936.11	0.0614	0.01416	0.00976	0.13727	2.019	0.068	0.0387	0.01416	4.28E-01	2.62E-02	1.02E-06	4.83E-03	6.33E-01	6.44E-03	2.74E-01	9.63E-02	1.28E+00
176	487358.74	3856936.11	0.05831	0.0139	0.00956	0.11588	2.174	0.062	0.0358	0.0139	4.07E-01	2.57E-02	9.95E-07	4.08E-03	6.81E-01	5.78E-03	2.54E-01	9.45E-02	1.28E+00
177	487208.74	3856986.11	0.07548	0.01527	0.0102	0.32419	1.331	0.112	0.0522	0.01527	5.26E-01	2.82E-02	1.06E-06	1.14E-02	4.17E-01	1.06E-02	3.70E-01	1.04E-01	1.26E+00
178	487258.74	3856986.11	0.06968	0.01499	0.00996	0.22507	1.678	0.093	0.0468	0.01499	4.86E-01	2.77E-02	1.04E-06	7.92E-03	5.26E-01	8.71E-03	3.32E-01	1.02E-01	1.29E+00
179	487308.74	3856986.11	0.06518	0.01468	0.00969	0.17237	1.937	0.079	0.0425	0.01468	4.54E-01	2.71E-02	1.01E-06	6.07E-03	6.07E-01	7.47E-03	3.01E-01	9.98E-02	1.30E+00
180	487358.74	3856986.11	0.06144	0.01442	0.00947	0.1396	2.111	0.07	0.0389	0.01442	4.28E-01	2.66E-02	9.86E-07	4.91E-03	6.61E-01	6.57E-03	2.76E-01	9.81E-02	1.31E+00
181	487208.74	3857036.11	0.08425	0.01587	0.01028	0.58391	0.902	0.15	0.0597	0.01587	5.87E-01	2.93E-02	1.07E-06	2.06E-02	2.83E-01	1.41E-02	4.23E-01	1.08E-01	1.25E+00
182	487258.74	3857036.11	0.07601	0.01555	0.01	0.33633	1.333	0.116	0.0526	0.01555	5.30E-01	2.87E-02	1.04E-06	1.18E-02	4.18E-01	1.09E-02	3.73E-01	1.06E-01	1.27E+00
183	487308.74	3857036.11	0.06998	0.01527	0.00972	0.23093	1.686	0.095	0.0471	0.01527	4.88E-01	2.82E-02	1.01E-06	8.13E-03	5.28E-01	8.95E-03	3.34E-01	1.04E-01	1.29E+00
184	487358.74	3857036.11	0.06532	0.01498	0.00948	0.17556	1.935	0.081	0.0427	0.01498	4.55E-01	2.77E-02	9.87E-07	6.18E-03	6.06E-01	7.64E-03	3.02E-01	1.02E-01	1.30E+00
185	487427.14	3856878.23	0.05217	0.01309	0.00969	0.08259	2.009	0.049	0.03	0.01309	3.64E-01	2.42E-02	1.01E-06	2.91E-03	6.29E-01	4.59E-03	2.13E-01	8.90E-02	1.15E+00
186	487477.14	3856878.23	0.05016	0.01289	0.00969	0.07466	1.993	0.046	0.0283	0.01289	3.50E-01	2.38E-02	1.01E-06	2.63E-03	6.25E-01	4.29E-03	2.00E-01	8.77E-02	1.12E+00
187	487527.14	3856878.23	0.04835	0.01269	0.00969	0.06821	1.861	0.043	0.0268	0.01269	3.37E-01	2.34E-02	1.01E-06	2.40E-03	5.83E-01	4.04E-03	1.90E-01	8.63E-02	1.05E+00
188	487427.14	3856928.23	0.05432	0.01353	0.00949	0.0937	2.283	0.054	0.0321	0.01353	3.79E-01	2.50E-02	9.88E-07	3.30E-03	7.15E-01	5.03E-03	2.27E-01	9.20E-02	1.26E+00
189	487477.14	3856928.23	0.05211	0.01329	0.00947	0.08352	2.328	0.05	0.0301	0.01329	3.63E-01	2.45E-02	9.86E-07	2.94E-03	7.29E-01	4.66E-03	2.13E-01	9.04E-02	1.25E+00
190	487527.14	3856928.23	0.05009	0.01309	0.00948	0.07541	2.293	0.046	0.0284	0.01309	3.49E-01	2.42E-02	9.87E-07	2.65E-03	7.18E-01	4.36E-03	2.01E-01	8.90E-02	1.21E+00
191	487577.14	3856928.23	0.04826	0.01289	0.00945	0.06882	2.279	0.044	0.0268	0.01289	3.36E-01	2.38E-02	9.84E-07	2.42E-03	7.14E-01	4.10E-03	1.90E-01	8.77E-02	1.18E+00
192	487627.14	3856928.23	0.04662	0.01268	0.00937	0.06337	2.147	0.041	0.0255	0.01268	3.25E-01	2.34E-02	9.75E-07	2.23E-03	6.73E-01	3.87E-03	1.80E-01	8.62E-02	1.12E+00
193	487677.14	3856928.23	0.04507	0.01251	0.00929	0.05877	2.07	0.039	0.0243	0.01251	3.14E-01	2.31E-02	9.67E-07	2.07E-03	6.49E-01	3.68E-03	1.72E-01	8.51E-02	1.08E+00
194	487727.14	3856928.23	0.04363	0.01236	0.00922	0.05485	2.05	0.037	0.0232	0.01236	3.04E-01	2.28E-02	9.60E-07	1.93E-03	6.42E-01	3.52E-03	1.64E-01	8.40E-02	1.05E+00
195	487777.14	3856928.23	0.04233	0.01218	0.00917	0.0515	2.061	0.036	0.0222	0.01218	2.95E-01	2.25E-02	9.55E-07	1.81E-03	6.46E-01	3.37E-03	1.57E-01	8.28E-02	1.04E+00
196	487427.14	3856978.23	0.05684	0.01398	0.00936	0.10837	2.302	0.059	0.0345	0.01398	3.96E-01	2.58E-02	9.74E-07	3.81E-03	7.21E-01	5.59E-03	2.45E-01	9.51E-02	1.30E+00
197	487477.14	3856978.23	0.05429	0.01375	0.00935	0.09479	2.383	0.054	0.0322	0.01375	3.78E-01	2.54E-02	9.73E-07	3.34E-03	7.47E-01	5.12E-03	2.28E-01	9.35E-02	1.29E+00
198	487527.14	3856978.23	0.05203	0.01354	0.00935	0.08436	2.445	0.05	0.0302	0.01354	3.63E-01	2.50E-02	9.73E-07	2.97E-03	7.66E-01	4.74E-03	2.14E-01	9.21E-02	1.28E+00
199	487577.14	3856978.23	0.05001	0.01332	0.0093	0.0761	2.502	0.047	0.0284	0.01332	3.49E-01	2.46E-02	9.68E-07	2.68E-03	7.84E-01	4.43E-03	2.02E-01	9.06E-02	1.28E+00
200	487627.14	3856978.23	0.04821	0.01308	0.0092	0.06941	2.545	0.044	0.0269	0.01308	3.36E-01	2.42E-02	9.58E-07	2.44E-03	7.98E-01	4.16E-03	1.91E-01	8.89E-02	1.27E+00
201	487677.14	3856978.23	0.04651	0.0129	0.00911	0.06386	2.549	0.042	0.0255	0.0129	3.24E-01	2.38E-02	9.48E-07	2.25E-03	7.99E-01	3.94E-03	1.81E-01	8.77E-02	1.25E+00
202	487727.14	3856978.23	0.04503	0.01265	0.00901	0.05923	2.569	0.04	0.0243	0.01265	3.14E-01	2.34E-02	9.38E-07	2.08E-03	8.05E-01	3.74E-03	1.72E-01	8.60E-02	1.23E+00
203	487777.14	3856978.23	0.04351	0.01257	0.00903	0.05523	2.492	0.038	0.0232	0.01257	3.03E-01	2.32E-02	9.40E-07	1.94E-03	7.81E-01	3.57E-03	1.64E-01	8.55E-02	1.19E+00
204	487427.14	3857028.23	0.05977	0.01451	0.00934	0.12853	2.198	0.067	0.0374	0.01451	4.17E-01	2.68E-02	9.72E-07	4.52E-03	6.89E-01	6.30E-03	2.65E-01	9.87E-02	1.31E+00
205	487477.14	3857028.23	0.05682	0.01425	0.00932	0.10966	2.319	0.061	0.0347	0.01425	3.96E-01	2.63E-02	9.70E-07	3.86E-03	7.27E-01	5.69E-03	2.46E-01	9.69E-02	1.31E+00
206	487527.14	3857028.23	0.05427	0.014	0.00929	0.09581	2.418	0.055	0.0323	0.014	3.78E-01	2.59E-02	9.67E-07	3.37E-03	7.58E-01	5.21E-03	2.29E-01	9.52E-02	1.30E+00
207	487577.14	3857028.23	0.05199	0.01377	0.00922	0.08517	2.493	0.051	0.0303	0.01377	3.62E-01	2.54E-02	9.60E-07	3.00E-03	7.81E-01	4.82E-03	2.15E-01	9.36E-02	1.30E+00
208	487627.14	3857028.23	0.04999	0.01351	0.0091	0.07681	2.562	0.048	0.0285	0.01351	3.49E-01	2.50E-02	9.47E-07	2.70E-03	8.03E-01	4.50E-03	2.02E-01	9.19E-02	1.29E+00
209	487677.14	3857028.23	0.04814	0.01331	0.009	0.06998	2.595	0.045	0.027	0.01331	3.36E-01	2.46E-02	9.37E-07	2.46E-03	8.13E-01	4.23E-03	1.91E-01	9.05E-02	1.28E+00
210	487727.14	3857028.23	0.04642	0.01314	0.00895	0.06433	2.599	0.043	0.0256	0.01314	3.24E-01	2.43E-02	9.32E-07	2.26E-03	8.14E-01	4.00E-03	1.81E-01	8.94E-02	1.26E+00
211	487777.14	3857028.23	0.04486	0.01295	0.00895	0.05962	2.585	0.04	0.0243	0.01295	3.13E-01	2.39E-02	9.32E-07	2.10E-03	8.10E-01	3.80E-03	1.72E-01	8.81E-02	1.24E+00
212	487427.14	3857078.23	0.06336	0.01507	0.00941	0.15793	2.022	0.077	0.0409	0.01507	4.42E-01	2.78E-02	9.80E-07	5.56E-03	6.34E-01	7.25E-03	2.89E-01	1.02E-01	1.30E+00
213	487477.14	3857078.23	0.05986	0.01477	0.00938	0.13022	2.189	0.068	0.0376	0.01477	4.17E-01	2.73E-02	9.77E-07	4.58E-03	6.86E-01	6.43E-03	2.66E-01	1.00E-01	1.31E+00
214	487527.14	3857078.23	0.05687	0.01451	0.00933	0.11089	2.314	0.062	0.0348	0.01451	3.96E-01	2.68E-02	9.71E-07	3.90E-03	7.25E-01	5.81E-03	2.46E-01	9.87E-02	1.31E+00
215	487577.14	3857078.23	0.05427	0.01425	0.00923	0.09675	2.414	0.057	0.0324	0.01425	3.78E-01	2.63E-02	9.61E-07	3.41E-03	7.56E-01	5.31E-03	2.30E-01	9.69E-02	1.30E+00
216	487627.14	3857078.23	0.052	0.01399	0.00909	0.08598	2.496	0.052	0.0304	0.01399	3.63E-01	2.58E-02	9.46E-07	3.03E-03	7.82E-01	4.91E-03	2.15E-01	9.51E-02	1.30E+00
217	487677.14	3857078.23	0.04995	0.01377	0.00898	0.07743	2.55	0.049	0.0286	0.01377	3.48E-01	2.54E-02	9.35E-07	2.73E-03	7.99E-01	4.58E-03	2.03E-01	9.36E-02	1.29E+00
218	487727.14	3857078.23	0.04807	0.01356	0.00894	0.07051	2.581	0.046	0.027	0.01356	3.35E-01	2.50E-02	9.31E-07	2.48E-03	8.09E-01	4.31E-03	1.92E-01	9.22E-02	1.27E+00
219	487777.14	3857078.23	0.04638	0.01334	0.00896	0.06483	2.597	0.043	0.0256	0.01334	3.23E-01	2.46E-02	9.33E-07	2.28E-03	8.14E-01	4.07E-03	1.82E-01	9.07E-02	1.26E+00
220	487427.14	3857128.23	0.06793	0.01567	0.00956	0.20423	1.771	0.092	0.0451	0.01567	4.74E-01	2.89E-02	9.95E-07	7.19E-03	5.55E-01	8.60E-03	3.19E-01	1.07E-01	1.29E+00
221	487477.14	3857128.23	0.06358	0.01534	0.00952	0.16029	1.997	0.079	0.0411	0.01534	4.43E-01	2.83E-02	9.91E-07	5.64E-03	6.26E-01	7.44E-03	2.91E-01	1.04E-01	1.30E+00
222	487527.14	3857128.23	0.06	0.01503	0.00944	0.13196	2.168	0.07	0.0377	0.01503	4.18E-01	2.78E-02	9.83E-07	4.64E-03	6.79E-01	6.58E-03	2.67E-01	1.02E-01	1.30E+00
223	487577.14	3857128.23	0.05696	0.01476	0.00931	0.11219	2.295	0.063	0.0349	0.01476	3.97E-01	2.73E-02	9.69E-07	3.95E-03	7.19E-01	5.93E-03	2.47E-01	1.00E-01	1.30E+00
224	487627.14	3857128.23	0.05432	0.0145	0.00916	0.09775	2.393	0.058	0.0325	0.0145	3.79E-01	2.68E-02	9.54E-07	3.44E-03	7.50E-01	5.42E-03	2.30E-01	9.86E-02	1.30E+00
225	487677.14	3857128.23	0.05202	0.01423	0.00904	0.0868	2.476	0.053	0.0305	0.01423	3.63E-01	2.63E-02	9.41E-07	3.06E-03	7.76E-01	5.01E-03	2.16E-01	9.68E-02	1.29E+00
226	487727.14	3857128.23	0.04991	0.01403	0.00903	0.07807	2.52	0.05	0.0287	0.01403	3.48E-01	2.59E-02	9.40E-07	2.75E-03	7.90E-01	4.67E-03	2.03E-01	9.54E-02	1.28E+00
227	487777.14	3857128.23	0.04805	0.0138	0.00909	0.07112	2.557	0.047	0.0271	0.0138	3.35E-01	2.55E-02	9.46E-07	2.50E-03	8.01E-01	4.39E-03	1.92E-01	9.38E-02	1.27E+00
228	488049.44	3856539.39	0.03197	0.00955	0.01017	0.02876	0.128	0.022	0.0145	0.00955	2.23E-01	1.76E-02	1.06E-06	1.01E-03	4.02E-02	2.09E-03	1.03E-01	6.49E-02	3.22E-01

229	488099.44	3856539.39	0.03142	0.00945	0.01008	0.028	0.131	0.022	0.0142	0.00945	2.19E-01	1.75E-02	1.05E-06	9.85E-04	4.09E-02	2.05E-03	1.00E-01	6.43E-02	3.17E-01
230	488149.44	3856539.39	0.03086	0.00936	0.01	0.02729	0.133	0.021	0.0139	0.00936	2.15E-01	1.73E-02	1.04E-06	9.61E-04	4.16E-02	2.01E-03	9.83E-02	6.36E-02	3.12E-01
231	488049.44	3856589.39	0.03244	0.00976	0.01006	0.02974	0.168	0.023	0.0149	0.00976	2.26E-01	1.80E-02	1.05E-06	1.05E-03	5.27E-02	2.16E-03	1.05E-01	6.64E-02	3.39E-01
232	488099.44	3856589.39	0.03186	0.00966	0.00999	0.02891	0.17	0.022	0.0145	0.00966	2.22E-01	1.78E-02	1.04E-06	1.02E-03	5.34E-02	2.11E-03	1.03E-01	6.57E-02	3.34E-01
233	488149.44	3856589.39	0.03129	0.00956	0.00991	0.02814	0.172	0.022	0.0142	0.00956	2.18E-01	1.77E-02	1.03E-06	9.90E-04	5.38E-02	2.07E-03	1.00E-01	6.50E-02	3.28E-01
234	488199.44	3856589.39	0.03075	0.00945	0.00981	0.02743	0.172	0.022	0.0139	0.00945	2.14E-01	1.75E-02	1.02E-06	9.65E-04	5.39E-02	2.03E-03	9.83E-02	6.43E-02	3.23E-01
235	488249.44	3856589.39	0.03016	0.0094	0.00973	0.02677	0.172	0.021	0.0136	0.0094	2.10E-01	1.74E-02	1.01E-06	9.42E-04	5.39E-02	2.00E-03	9.62E-02	6.39E-02	3.17E-01
236	488049.44	3856639.39	0.03295	0.00997	0.00997	0.03079	0.23	0.024	0.0152	0.00997	2.30E-01	1.84E-02	1.04E-06	1.08E-03	7.21E-02	2.23E-03	1.08E-01	6.78E-02	3.64E-01
237	488099.44	3856639.39	0.03234	0.00986	0.00992	0.0299	0.23	0.023	0.0149	0.00986	2.25E-01	1.82E-02	1.03E-06	1.05E-03	7.20E-02	2.18E-03	1.05E-01	6.70E-02	3.57E-01
238	488149.44	3856639.39	0.03174	0.00976	0.00985	0.02907	0.228	0.023	0.0145	0.00976	2.21E-01	1.80E-02	1.03E-06	1.02E-03	7.13E-02	2.14E-03	1.03E-01	6.64E-02	3.50E-01
239	488199.44	3856639.39	0.03115	0.00968	0.00977	0.0283	0.225	0.022	0.0142	0.00968	2.17E-01	1.79E-02	1.02E-06	9.96E-04	7.03E-02	2.10E-03	1.01E-01	6.58E-02	3.43E-01
240	488249.44	3856639.39	0.03059	0.00959	0.00967	0.02758	0.221	0.022	0.0139	0.00959	2.13E-01	1.77E-02	1.01E-06	9.71E-04	6.92E-02	2.06E-03	9.83E-02	6.52E-02	3.36E-01
241	488299.44	3856639.39	0.03005	0.0095	0.00958	0.02691	0.217	0.022	0.0136	0.0095	2.09E-01	1.75E-02	9.97E-07	9.47E-04	6.80E-02	2.02E-03	9.62E-02	6.46E-02	3.30E-01
242	488349.44	3856639.39	0.02955	0.00941	0.00952	0.02629	0.213	0.021	0.0133	0.00941	2.06E-01	1.74E-02	9.91E-07	9.25E-04	6.67E-02	1.99E-03	9.42E-02	6.40E-02	3.23E-01
243	488399.44	3856639.39	0.02902	0.00935	0.00954	0.02571	0.208	0.021	0.013	0.00935	2.02E-01	1.73E-02	9.93E-07	9.05E-04	6.52E-02	1.96E-03	9.24E-02	6.36E-02	3.17E-01
244	488099.44	3856689.39	0.03283	0.01009	0.00987	0.03097	0.322	0.024	0.0153	0.01009	2.29E-01	1.86E-02	1.03E-06	1.09E-03	1.01E-01	2.25E-03	1.08E-01	6.86E-02	3.91E-01
245	488149.44	3856689.39	0.03221	0.00998	0.0098	0.03007	0.309	0.023	0.0149	0.00998	2.25E-01	1.84E-02	1.02E-06	1.06E-03	9.69E-02	2.21E-03	1.05E-01	6.79E-02	3.81E-01
246	488199.44	3856689.39	0.0316	0.00989	0.00973	0.02923	0.296	0.023	0.0145	0.00989	2.20E-01	1.83E-02	1.01E-06	1.03E-03	9.28E-02	2.16E-03	1.03E-01	6.73E-02	3.70E-01
247	488249.44	3856689.39	0.03103	0.00978	0.00965	0.02846	0.285	0.023	0.0142	0.00978	2.16E-01	1.81E-02	1.00E-06	1.00E-03	8.92E-02	2.12E-03	1.01E-01	6.65E-02	3.61E-01
248	488299.44	3856689.39	0.03045	0.00971	0.00961	0.02774	0.274	0.022	0.0139	0.00971	2.12E-01	1.79E-02	1.00E-06	9.76E-04	8.58E-02	2.09E-03	9.83E-02	6.60E-02	3.51E-01
249	488349.44	3856689.39	0.02993	0.00961	0.0096	0.02706	0.264	0.022	0.0136	0.00961	2.09E-01	1.77E-02	9.99E-07	9.52E-04	8.27E-02	2.05E-03	9.63E-02	6.53E-02	3.43E-01
250	488399.44	3856689.39	0.02946	0.00949	0.00964	0.02643	0.255	0.021	0.0133	0.00949	2.05E-01	1.75E-02	1.00E-06	9.30E-04	7.99E-02	2.01E-03	9.42E-02	6.45E-02	3.35E-01
251	488099.44	3856739.39	0.03334	0.01033	0.00981	0.03213	0.453	0.025	0.0157	0.01033	2.32E-01	1.91E-02	1.02E-06	1.13E-03	1.42E-01	2.33E-03	1.11E-01	7.02E-02	4.38E-01
252	488149.44	3856739.39	0.03271	0.0102	0.00976	0.03115	0.416	0.024	0.0153	0.0102	2.28E-01	1.88E-02	1.02E-06	1.10E-03	1.30E-01	2.28E-03	1.08E-01	6.94E-02	4.19E-01
253	488199.44	3856739.39	0.03205	0.01012	0.00972	0.03024	0.385	0.024	0.0149	0.01012	2.23E-01	1.87E-02	1.01E-06	1.06E-03	1.20E-01	2.24E-03	1.05E-01	6.88E-02	4.03E-01
254	488249.44	3856739.39	0.03147	0.01	0.00967	0.0294	0.36	0.023	0.0145	0.01	2.19E-01	1.85E-02	1.01E-06	1.03E-03	1.13E-01	2.19E-03	1.03E-01	6.80E-02	3.89E-01
255	488299.44	3856739.39	0.03094	0.00987	0.00965	0.02862	0.341	0.023	0.0142	0.00987	2.16E-01	1.82E-02	1.00E-06	1.01E-03	1.07E-01	2.15E-03	1.01E-01	6.71E-02	3.77E-01
256	488349.44	3856739.39	0.03033	0.00981	0.00975	0.0279	0.322	0.022	0.0139	0.00981	2.11E-01	1.81E-02	1.02E-06	9.82E-04	1.01E-01	2.11E-03	9.84E-02	6.67E-02	3.65E-01
257	488399.44	3856739.39	0.02976	0.00976	0.00991	0.02723	0.305	0.022	0.0136	0.00976	2.07E-01	1.80E-02	1.03E-06	9.58E-04	9.57E-02	2.08E-03	9.63E-02	6.64E-02	3.54E-01
258	487999.44	3856789.39	0.03544	0.01077	0.00971	0.03588	0.855	0.027	0.0171	0.01077	2.47E-01	1.99E-02	1.01E-06	1.26E-03	2.68E-01	2.55E-03	1.21E-01	7.32E-02	5.86E-01
259	488049.44	3856789.39	0.03468	0.01065	0.00972	0.03458	0.698	0.026	0.0166	0.01065	2.42E-01	1.97E-02	1.01E-06	1.22E-03	2.19E-01	2.48E-03	1.17E-01	7.24E-02	5.29E-01
260	488099.44	3856789.39	0.03392	0.01056	0.00973	0.0334	0.597	0.026	0.0161	0.01056	2.36E-01	1.95E-02	1.01E-06	1.18E-03	1.87E-01	2.42E-03	1.14E-01	7.18E-02	4.89E-01
261	488149.44	3856789.39	0.03324	0.01044	0.0097	0.03233	0.53	0.025	0.0157	0.01044	2.32E-01	1.93E-02	1.01E-06	1.14E-03	1.66E-01	2.36E-03	1.11E-01	7.10E-02	4.61E-01
262	488199.44	3856789.39	0.03257	0.01034	0.0097	0.03134	0.48	0.025	0.0153	0.01034	2.27E-01	1.91E-02	1.01E-06	1.10E-03	1.50E-01	2.31E-03	1.08E-01	7.03E-02	4.38E-01
263	488249.44	3856789.39	0.03195	0.01022	0.00972	0.03043	0.441	0.024	0.0149	0.01022	2.23E-01	1.89E-02	1.01E-06	1.07E-03	1.38E-01	2.27E-03	1.06E-01	6.95E-02	4.19E-01
264	488299.44	3856789.39	0.03138	0.0101	0.0098	0.02958	0.411	0.024	0.0145	0.0101	2.19E-01	1.87E-02	1.02E-06	1.04E-03	1.29E-01	2.22E-03	1.03E-01	6.87E-02	4.04E-01
265	488349.44	3856789.39	0.03075	0.01004	0.00999	0.0288	0.383	0.023	0.0142	0.01004	2.14E-01	1.85E-02	1.04E-06	1.01E-03	1.20E-01	2.18E-03	1.01E-01	6.83E-02	3.89E-01
266	488399.44	3856789.39	0.03018	0.00996	0.01018	0.02807	0.36	0.023	0.0139	0.00996	2.10E-01	1.84E-02	1.06E-06	9.88E-04	1.13E-01	2.15E-03	9.84E-02	6.77E-02	3.75E-01
267	487949.44	3856839.39	0.037	0.01115	0.00955	0.0391	1.309	0.029	0.0182	0.01115	2.58E-01	2.06E-02	9.94E-07	1.38E-03	4.10E-01	2.73E-03	1.29E-01	7.58E-02	7.46E-01
268	487999.44	3856839.39	0.03614	0.01102	0.00959	0.03752	1.035	0.028	0.0176	0.01102	2.52E-01	2.04E-02	9.98E-07	1.32E-03	3.24E-01	2.65E-03	1.25E-01	7.49E-02	6.50E-01
269	488049.44	3856839.39	0.03533	0.0109	0.00961	0.03609	0.851	0.027	0.0171	0.0109	2.46E-01	2.01E-02	1.00E-06	1.27E-03	2.67E-01	2.58E-03	1.21E-01	7.41E-02	5.84E-01
270	488099.44	3856839.39	0.03455	0.01079	0.00962	0.0348	0.727	0.027	0.0166	0.01079	2.41E-01	1.99E-02	1.00E-06	1.22E-03	2.28E-01	2.51E-03	1.17E-01	7.34E-02	5.36E-01
271	488149.44	3856839.39	0.03381	0.01069	0.00965	0.03361	0.638	0.026	0.0161	0.01069	2.36E-01	1.97E-02	1.00E-06	1.18E-03	2.00E-01	2.45E-03	1.14E-01	7.27E-02	5.01E-01
272	488199.44	3856839.39	0.03311	0.01058	0.00971	0.03253	0.572	0.026	0.0157	0.01058	2.31E-01	1.95E-02	1.01E-06	1.14E-03	1.79E-01	2.40E-03	1.11E-01	7.19E-02	4.72E-01
273	487949.44	3856889.39	0.03783	0.01141	0.0094	0.04111	1.496	0.03	0.0188	0.01141	2.64E-01	2.11E-02	9.79E-07	1.45E-03	4.69E-01	2.85E-03	1.33E-01	7.76E-02	8.14E-01
274	487999.44	3856889.39	0.03688	0.01131	0.00946	0.03935	1.189	0.029	0.0182	0.01131	2.57E-01	2.09E-02	9.85E-07	1.38E-03	3.73E-01	2.77E-03	1.29E-01	7.69E-02	7.07E-01
275	488049.44	3856889.39	0.03605	0.01115	0.00948	0.03777	0.989	0.029	0.0176	0.01115	2.51E-01	2.06E-02	9.87E-07	1.33E-03	3.10E-01	2.68E-03	1.25E-01	7.58E-02	6.35E-01
276	488099.44	3856889.39	0.03521	0.01105	0.00954	0.03633	0.844	0.028	0.0171	0.01105	2.45E-01	2.04E-02	9.93E-07	1.28E-03	2.65E-01	2.62E-03	1.21E-01	7.51E-02	5.80E-01
277	488635.86	3857895.05	0.04799	0.01912	0.05083	0.07399	0.093	0.071	0.0259	0.01912	3.35E-01	3.53E-02	5.29E-06	2.60E-03	2.93E-02	6.64E-03	1.84E-01	1.30E-01	4.62E-01
278	489137.64	3857804.15	0.03646	0.01439	0.03192	0.04319	0.105	0.042	0.0166	0.01439	2.54E-01	2.66E-02	3.32E-06	1.52E-03	3.28E-02	3.90E-03	1.17E-01	9.78E-02	3.38E-01
279	488617.32	3857859.41	0.047	0.01863	0.04993	0.07126	0.111	0.069	0.0254	0.01863	3.28E-01	3.44E-02	5.20E-06	2.51E-03	3.49E-02	6.46E-03	1.80E-01	1.27E-01	4.59E-01
280	488667.32	3857859.41	0.0456	0.01818	0.04767	0.06663	0.109	0.065	0.0242	0.01818	3.18E-01	3.36E-02	4.96E-06	2.35E-03	3.41E-02	6.08E-03	1.71E-01	1.24E-01	4.42E-01
281	488717.32	3857859.41	0.04436	0.01776	0.04558	0.06276	0.107	0.061	0.0231	0.01776	3.09E-01	3.28E-02	4.75E-06	2.21E-03	3.34E-02	5.75E-03	1.64E-01	1.21E-01	4.26E-01
282	488767.32	3857859.41	0.04323	0.01739	0.04374	0.0595	0.104	0.058	0.0222	0.01739	3.01E-01	3.21E-02	4.55E-06	2.09E-03	3.26E-02	5.47E-03	1.57E-01	1.18E-01	4.13E-01
283	488617.32	3857909.41	0.04926	0.01958	0.05235	0.07825	0.088	0.074	0.0268	0.01958	3.43E-01	3.62E-02	5.45E-06	2.75E-03	2.75E-02	6.95E-03	1.90E-01	1.33E-01	4.74E-01
284	488667.32	3857909.41	0.04767	0.01915	0.04986	0.07248	0.087	0.069	0.0256	0.01915	3.32E-01	3.54E-02	5.19E-06	2.55E-03	2.71E-02	6.51E-03	1.81E-01	1.30E-01	4.55E-01
285	488717.32	3857909.41	0.04641	0.01863	0.04732	0.06793	0.086	0.065	0.0243	0.01863	3.24E-01	3.44E-02	4.93E-06	2.39E-03	2.69E-02	6.13E-03	1.72E-01	1.27E-01	4.39E-01
286	488767.32	3857909.41	0.04526	0.01822	0.04518	0.06403	0.085	0.062	0.0233	0.01822	3.16E-01	3.37E-02	4.70E-06	2.25E-03	2.65E-02	5.81E-03	1.65E-01	1.24E-01	4.25E-01

287	488417.32	3857959.41	0.06271	0.02307	0.06819	0.14524	0.07	0.118	0.037	0.02307	4.37E-01	4.26E-02	7.10E-06	5.11E-03	2.18E-02	1.11E-02	2.62E-01	1.57E-01	6.23E-01
288	488467.32	3857959.41	0.05918	0.02242	0.06391	0.12317	0.071	0.105	0.0344	0.02242	4.13E-01	4.14E-02	6.65E-06	4.34E-03	2.21E-02	9.83E-03	2.44E-01	1.52E-01	5.81E-01
289	488517.32	3857959.41	0.05629	0.02182	0.06007	0.10743	0.071	0.094	0.0322	0.02182	3.92E-01	4.03E-02	6.25E-06	3.78E-03	2.22E-02	8.86E-03	2.28E-01	1.48E-01	5.47E-01
290	488567.32	3857959.41	0.05388	0.02124	0.05662	0.09569	0.071	0.086	0.0302	0.02124	3.76E-01	3.92E-02	5.89E-06	3.37E-03	2.22E-02	8.10E-03	2.14E-01	1.44E-01	5.18E-01
291	488617.32	3857959.41	0.05187	0.02067	0.05343	0.08673	0.071	0.08	0.0285	0.02067	3.62E-01	3.82E-02	5.56E-06	3.05E-03	2.21E-02	7.48E-03	2.02E-01	1.41E-01	4.94E-01
292	488667.32	3857959.41	0.0502	0.02013	0.05054	0.07966	0.07	0.074	0.027	0.02013	3.50E-01	3.72E-02	5.26E-06	2.80E-03	2.20E-02	6.96E-03	1.91E-01	1.37E-01	4.73E-01
293	488717.32	3857959.41	0.0488	0.01964	0.04797	0.07394	0.07	0.069	0.0257	0.01964	3.40E-01	3.63E-02	4.99E-06	2.60E-03	2.19E-02	6.52E-03	1.82E-01	1.34E-01	4.56E-01
294	488767.32	3857959.41	0.04772	0.01915	0.04559	0.06931	0.069	0.065	0.0245	0.01915	3.33E-01	3.54E-02	4.75E-06	2.44E-03	2.18E-02	6.15E-03	1.73E-01	1.30E-01	4.42E-01
295	488417.32	3858009.41	0.06824	0.02462	0.06819	0.1819	0.057	0.135	0.0404	0.02462	4.76E-01	4.55E-02	7.10E-06	6.40E-03	1.78E-02	1.27E-02	2.86E-01	1.67E-01	6.77E-01
296	488467.32	3858009.41	0.06369	0.0239	0.0637	0.14777	0.058	0.117	0.0373	0.0239	4.44E-01	4.41E-02	6.63E-06	5.20E-03	1.81E-02	1.10E-02	2.64E-01	1.63E-01	6.24E-01
297	488517.32	3858009.41	0.06014	0.0232	0.05968	0.12515	0.058	0.104	0.0347	0.0232	4.19E-01	4.28E-02	6.21E-06	4.40E-03	1.82E-02	9.73E-03	2.46E-01	1.58E-01	5.83E-01
298	488567.32	3858009.41	0.05729	0.02256	0.05611	0.10909	0.058	0.094	0.0325	0.02256	3.99E-01	4.17E-02	5.84E-06	3.84E-03	1.82E-02	8.79E-03	2.30E-01	1.53E-01	5.48E-01
299	488617.32	3858009.41	0.05503	0.02189	0.05279	0.09738	0.058	0.086	0.0304	0.02189	3.84E-01	4.04E-02	5.50E-06	3.43E-03	1.82E-02	8.05E-03	2.16E-01	1.49E-01	5.21E-01
300	488667.32	3858009.41	0.05323	0.02127	0.04982	0.08836	0.058	0.079	0.0287	0.02127	3.71E-01	3.93E-02	5.19E-06	3.11E-03	1.82E-02	7.44E-03	2.03E-01	1.45E-01	4.98E-01
301	488717.32	3858009.41	0.05185	0.02071	0.04718	0.08123	0.058	0.074	0.0272	0.02071	3.61E-01	3.82E-02	4.91E-06	2.86E-03	1.82E-02	6.94E-03	1.93E-01	1.41E-01	4.79E-01
302	488767.32	3858009.41	0.05095	0.02018	0.04479	0.07555	0.058	0.069	0.0258	0.02018	3.55E-01	3.73E-02	4.66E-06	2.66E-03	1.81E-02	6.51E-03	1.83E-01	1.37E-01	4.66E-01
303	488417.32	3858059.41	0.07585	0.02646	0.06536	0.24277	0.048	0.16	0.0446	0.02646	5.29E-01	4.89E-02	6.80E-06	8.54E-03	1.49E-02	1.50E-02	3.16E-01	1.80E-01	7.52E-01
304	488467.32	3858059.41	0.06963	0.02561	0.06105	0.18485	0.049	0.133	0.0408	0.02561	4.85E-01	4.73E-02	6.36E-06	6.51E-03	1.52E-02	1.25E-02	2.89E-01	1.74E-01	6.82E-01
305	488517.32	3858059.41	0.06507	0.02479	0.05718	0.15018	0.049	0.116	0.0377	0.02479	4.54E-01	4.58E-02	5.95E-06	5.29E-03	1.54E-02	1.09E-02	2.67E-01	1.69E-01	6.29E-01
306	488567.32	3858059.41	0.06162	0.02404	0.05374	0.12719	0.049	0.103	0.0351	0.02404	4.30E-01	4.44E-02	5.59E-06	4.48E-03	1.54E-02	9.65E-03	2.48E-01	1.63E-01	5.88E-01
307	488617.32	3858059.41	0.05899	0.02334	0.05064	0.11104	0.049	0.093	0.0328	0.02334	4.11E-01	4.31E-02	5.27E-06	3.91E-03	1.54E-02	8.73E-03	2.32E-01	1.59E-01	5.56E-01
308	488667.32	3858059.41	0.05711	0.02262	0.04779	0.09923	0.049	0.085	0.0307	0.02262	3.98E-01	4.18E-02	4.98E-06	3.49E-03	1.54E-02	8.00E-03	2.18E-01	1.54E-01	5.31E-01
309	488417.32	3858109.41	0.08785	0.02844	0.06025	0.36977	0.041	0.206	0.0494	0.02844	6.12E-01	5.25E-02	6.27E-06	1.30E-02	1.28E-02	1.93E-02	3.50E-01	1.93E-01	8.66E-01
310	488467.32	3858109.41	0.07828	0.02749	0.05651	0.24989	0.042	0.16	0.0449	0.02749	5.46E-01	5.08E-02	5.88E-06	8.80E-03	1.31E-02	1.51E-02	3.18E-01	1.87E-01	7.65E-01
311	488517.32	3858109.41	0.07187	0.02661	0.05315	0.18912	0.042	0.133	0.0413	0.02661	5.01E-01	4.91E-02	5.53E-06	6.66E-03	1.33E-02	1.25E-02	2.92E-01	1.81E-01	6.94E-01
312	488567.32	3858109.41	0.06741	0.02574	0.05007	0.15338	0.043	0.115	0.0381	0.02574	4.70E-01	4.75E-02	5.21E-06	5.40E-03	1.34E-02	1.08E-02	2.70E-01	1.75E-01	6.42E-01
313	488617.32	3858109.41	0.06435	0.02494	0.04733	0.12987	0.043	0.102	0.0354	0.02494	4.49E-01	4.61E-02	4.93E-06	4.57E-03	1.33E-02	9.61E-03	2.50E-01	1.70E-01	6.03E-01
314	488667.32	3858109.41	0.06262	0.0241	0.04475	0.11357	0.042	0.093	0.033	0.0241	4.37E-01	4.45E-02	4.66E-06	4.00E-03	1.33E-02	8.69E-03	2.34E-01	1.64E-01	5.77E-01
315	488769.93	3858449.27	0.07266	0.03832	0.02343	0.47044	0.022	0.231	0.0522	0.03832	5.07E-01	7.08E-02	2.44E-06	1.66E-02	6.91E-03	2.17E-02	3.70E-01	2.61E-01	7.32E-01
316	488819.93	3858449.27	0.06757	0.03625	0.02297	0.30207	0.022	0.17	0.047	0.03625	4.71E-01	6.70E-02	2.39E-06	1.06E-02	6.83E-03	1.60E-02	3.33E-01	2.46E-01	6.58E-01
317	488819.93	3858499.27	0.07851	0.04029	0.02115	0.49966	0.02	0.24	0.0528	0.04029	5.47E-01	7.44E-02	2.20E-06	1.76E-02	6.41E-03	2.25E-02	3.74E-01	2.74E-01	7.68E-01
318	488869.93	3858499.27	0.0706	0.03797	0.02082	0.3171	0.02	0.174	0.0475	0.03797	4.92E-01	7.01E-02	2.17E-06	1.12E-02	6.32E-03	1.64E-02	3.37E-01	2.58E-01	6.75E-01
319	488869.93	3858549.27	0.08334	0.04245	0.0194	0.53114	0.019	0.249	0.0535	0.04245	5.81E-01	7.84E-02	2.02E-06	1.87E-02	5.96E-03	2.34E-02	3.79E-01	2.89E-01	7.98E-01
320	489438.17	3859571.48	0.0431	0.02097	0.04552	0.08513	0.008	0.037	0.0202	0.02097	3.00E-01	3.87E-02	4.74E-06	3.00E-03	2.56E-03	3.49E-03	1.43E-01	1.43E-01	3.48E-01
321	489488.17	3859571.48	0.04089	0.02295	0.05446	0.07552	0.008	0.037	0.0221	0.02295	2.85E-01	4.24E-02	5.67E-06	2.66E-03	2.51E-03	3.50E-03	1.57E-01	1.56E-01	3.37E-01
322	489538.17	3859571.48	0.03918	0.02536	0.06718	0.06949	0.008	0.037	0.0245	0.02536	2.73E-01	4.68E-02	6.99E-06	2.45E-03	2.45E-03	3.52E-03	1.73E-01	1.72E-01	3.29E-01
323	489588.17	3859571.48	0.03785	0.02831	0.08653	0.06578	0.008	0.038	0.0274	0.02831	2.64E-01	5.23E-02	9.01E-06	2.32E-03	2.38E-03	3.57E-03	1.94E-01	1.93E-01	3.26E-01
324	489438.17	3859621.48	0.04286	0.01811	0.03474	0.08293	0.008	0.036	0.0174	0.01811	2.99E-01	3.34E-02	3.62E-06	2.92E-03	2.50E-03	3.36E-03	1.23E-01	1.23E-01	3.41E-01
325	489488.17	3859621.48	0.04033	0.01952	0.04067	0.07305	0.008	0.036	0.0188	0.01952	2.81E-01	3.61E-02	4.23E-06	2.57E-03	2.46E-03	3.35E-03	1.33E-01	1.33E-01	3.26E-01
326	489538.17	3859621.48	0.03838	0.0212	0.04934	0.06664	0.008	0.036	0.0205	0.0212	2.68E-01	3.92E-02	5.14E-06	2.35E-03	2.41E-03	3.35E-03	1.45E-01	1.44E-01	3.16E-01
327	489588.17	3859621.48	0.03686	0.02327	0.06132	0.06245	0.008	0.036	0.0225	0.02327	2.57E-01	4.30E-02	6.38E-06	2.20E-03	2.36E-03	3.37E-03	1.60E-01	1.58E-01	3.09E-01
328	489238.17	3859671.48	0.06699	0.01283	0.01896	0.38308	0.008	0.037	0.0123	0.01283	4.67E-01	2.37E-02	1.97E-06	1.35E-02	2.35E-03	3.48E-03	8.69E-02	8.72E-02	5.10E-01
329	489288.17	3859671.48	0.05603	0.01347	0.02039	0.19054	0.008	0.036	0.0129	0.01347	3.91E-01	2.49E-02	2.12E-06	6.71E-03	2.40E-03	3.40E-03	9.15E-02	9.16E-02	4.28E-01
330	489338.17	3859671.48	0.04925	0.01421	0.02217	0.12671	0.008	0.036	0.0136	0.01421	3.43E-01	2.62E-02	2.31E-06	4.46E-03	2.43E-03	3.34E-03	9.66E-02	9.66E-02	3.80E-01
331	489388.17	3859671.48	0.04477	0.01506	0.02459	0.09725	0.008	0.035	0.0145	0.01506	3.12E-01	2.78E-02	2.56E-06	3.42E-03	2.45E-03	3.29E-03	1.03E-01	1.02E-01	3.49E-01
332	489438.17	3859671.48	0.04154	0.01598	0.02789	0.08106	0.008	0.035	0.0154	0.01598	2.90E-01	2.95E-02	2.90E-06	2.85E-03	2.44E-03	3.25E-03	1.09E-01	1.09E-01	3.28E-01
333	489488.17	3859671.48	0.03915	0.01709	0.03259	0.07085	0.008	0.034	0.0165	0.01709	2.73E-01	3.16E-02	3.39E-06	2.49E-03	2.42E-03	3.23E-03	1.17E-01	1.16E-01	3.13E-01
334	489538.17	3859671.48	0.03727	0.01834	0.03868	0.06421	0.008	0.034	0.0177	0.01834	2.60E-01	3.39E-02	4.03E-06	2.26E-03	2.38E-03	3.21E-03	1.26E-01	1.25E-01	3.02E-01
335	489588.17	3859671.48	0.03578	0.01981	0.04546	0.05971	0.007	0.034	0.0192	0.01981	2.49E-01	3.66E-02	4.73E-06	2.10E-03	2.33E-03	3.22E-03	1.36E-01	1.35E-01	2.95E-01
336	489238.17	3859721.48	0.0593	0.01181	0.01612	0.3812	0.007	0.036	0.0113	0.01181	4.13E-01	2.18E-02	1.68E-06	1.34E-02	2.24E-03	3.41E-03	8.01E-02	8.03E-02	4.54E-01
337	489288.17	3859721.48	0.05047	0.01236	0.01727	0.18818	0.007	0.035	0.0119	0.01236	3.52E-01	2.28E-02	1.80E-06	6.62E-03	2.31E-03	3.33E-03	8.41E-02	8.40E-02	3.87E-01
338	489338.17	3859721.48	0.0453	0.01296	0.01879	0.12482	0.008	0.035	0.0125	0.01296	3.16E-01	2.39E-02	1.96E-06	4.39E-03	2.35E-03	3.26E-03	8.84E-02	8.81E-02	3.50E-01
339	489388.17	3859721.48	0.0419	0.01362	0.02086	0.09567	0.008	0.034	0.0131	0.01362	2.92E-01	2.52E-02	2.17E-06	3.37E-03	2.38E-03	3.21E-03	9.30E-02	9.26E-02	3.27E-01
340	489438.17	3859721.48	0.03941	0.01435	0.02357	0.07939	0.008	0.034	0.0139	0.01435	2.75E-01	2.65E-02	2.45E-06	2.79E-03	2.38E-03	3.16E-03	9.81E-02	9.76E-02	3.10E-01
341	489488.17	3859721.48	0.03752	0.01522	0.02722	0.06899	0.008	0.033	0.0147	0.01522	2.62E-01	2.81E-02	2.83E-06	2.43E-03	2.37E-03	3.13E-03	1.04E-01	1.03E-01	2.98E-01
342	489538.17	3859721.48	0.03597	0.01618	0.03144	0.06214	0.007	0.033	0.0157	0.01618	2.51E-01	2.99E-02	3.27E-06	2.19E-03	2.34E-03	3.10E-03	1.11E-01	1.10E-01	2.89E-01
343	489588.17	3859721.48	0.03468	0.01727	0.035	0.05745	0.007	0.033	0.0167	0.01727	2.42E-01	3.19E-02	3.64E-06	2.02E-03	2.30E-03	3.09E-03	1.19E-01	1.17E-01	2.82E-01
344	489238.17	3859771.48	0.04515	0.01095	0.01409	0.37836	0.007	0.035	0.0105	0.01095	3.15E-01	2.02E-02	1.47E-06	1.33E-02	2.14E-03	3.34E-03	7.45E-02	7.45E-02	3.54E-01

345	489288.17	3859771.48	0.0429	0.01142	0.0152	0.18615	0.007	0.035	0.011	0.01142	2.99E-01	2.11E-02	1.58E-06	6.55E-03	2.22E-03	3.26E-03	7.79E-02	7.77E-02	3.32E-01
346	489338.17	3859771.48	0.04073	0.0119	0.01656	0.12357	0.007	0.034	0.0115	0.0119	2.84E-01	2.20E-02	1.72E-06	4.35E-03	2.26E-03	3.19E-03	8.13E-02	8.09E-02	3.16E-01
347	489388.17	3859771.48	0.03892	0.01245	0.01832	0.0943	0.007	0.033	0.012	0.01245	2.71E-01	2.30E-02	1.91E-06	3.32E-03	2.30E-03	3.13E-03	8.52E-02	8.47E-02	3.04E-01
348	489438.17	3859771.48	0.03735	0.01304	0.0205	0.07799	0.007	0.033	0.0126	0.01304	2.60E-01	2.41E-02	2.13E-06	2.74E-03	2.31E-03	3.08E-03	8.93E-02	8.87E-02	2.93E-01
349	489488.17	3859771.48	0.03604	0.01374	0.02341	0.06737	0.007	0.032	0.0133	0.01374	2.51E-01	2.54E-02	2.44E-06	2.37E-03	2.32E-03	3.04E-03	9.42E-02	9.34E-02	2.85E-01
350	489538.17	3859771.48	0.03487	0.01449	0.02625	0.06031	0.007	0.032	0.0141	0.01449	2.43E-01	2.68E-02	2.73E-06	2.12E-03	2.30E-03	3.01E-03	9.95E-02	9.85E-02	2.78E-01
351	489588.17	3859771.48	0.03379	0.01532	0.02772	0.05556	0.007	0.032	0.0149	0.01532	2.36E-01	2.83E-02	2.89E-06	1.96E-03	2.27E-03	2.99E-03	1.05E-01	1.04E-01	2.72E-01
352	489238.17	3859821.48	0.0402	0.01022	0.01274	0.3766	0.007	0.035	0.0098	0.01022	2.80E-01	1.89E-02	1.33E-06	1.33E-02	2.04E-03	3.27E-03	6.96E-02	6.95E-02	3.18E-01
353	489288.17	3859821.48	0.03938	0.01062	0.01377	0.18475	0.007	0.034	0.0102	0.01062	2.75E-01	1.96E-02	1.43E-06	6.50E-03	2.12E-03	3.19E-03	7.24E-02	7.22E-02	3.06E-01
354	489338.17	3859821.48	0.0384	0.01103	0.01494	0.12223	0.007	0.033	0.0106	0.01103	2.68E-01	2.04E-02	1.56E-06	4.30E-03	2.17E-03	3.12E-03	7.54E-02	7.50E-02	2.98E-01
355	489388.17	3859821.48	0.03735	0.01148	0.01641	0.09306	0.007	0.033	0.0111	0.01148	2.60E-01	2.12E-02	1.71E-06	3.28E-03	2.22E-03	3.06E-03	7.86E-02	7.81E-02	2.91E-01
356	489438.17	3859821.48	0.03632	0.01199	0.0184	0.07632	0.007	0.032	0.0116	0.01199	2.53E-01	2.21E-02	1.92E-06	2.69E-03	2.25E-03	3.01E-03	8.23E-02	8.15E-02	2.84E-01
357	489488.17	3859821.48	0.0353	0.01254	0.02062	0.06581	0.007	0.032	0.0122	0.01254	2.46E-01	2.32E-02	2.15E-06	2.32E-03	2.26E-03	2.96E-03	8.62E-02	8.53E-02	2.78E-01
358	489538.17	3859821.48	0.03432	0.01314	0.02229	0.05871	0.007	0.031	0.0128	0.01314	2.39E-01	2.43E-02	2.32E-06	2.07E-03	2.26E-03	2.93E-03	9.03E-02	8.94E-02	2.72E-01
359	489588.17	3859821.48	0.03336	0.01379	0.02257	0.05385	0.007	0.031	0.0134	0.01379	2.33E-01	2.55E-02	2.35E-06	1.90E-03	2.23E-03	2.90E-03	9.49E-02	9.38E-02	2.66E-01
360	489238.17	3859871.48	0.04098	0.0096	0.01175	0.37396	0.006	0.034	0.0092	0.0096	2.86E-01	1.77E-02	1.22E-06	1.32E-02	1.93E-03	3.21E-03	6.53E-02	6.53E-02	3.22E-01
361	489288.17	3859871.48	0.04002	0.00992	0.0126	0.18421	0.006	0.033	0.0096	0.00992	2.79E-01	1.83E-02	1.31E-06	6.48E-03	2.02E-03	3.12E-03	6.77E-02	6.75E-02	3.09E-01
362	489338.17	3859871.48	0.03892	0.01028	0.01364	0.12115	0.007	0.033	0.0099	0.01028	2.71E-01	1.90E-02	1.42E-06	4.26E-03	2.09E-03	3.05E-03	7.04E-02	6.99E-02	3.00E-01
363	489388.17	3859871.48	0.03778	0.01067	0.01505	0.09161	0.007	0.032	0.0103	0.01067	2.63E-01	1.97E-02	1.57E-06	3.22E-03	2.14E-03	2.99E-03	7.32E-02	7.26E-02	2.92E-01
364	489438.17	3859871.48	0.03667	0.0111	0.01689	0.07459	0.007	0.031	0.0108	0.0111	2.56E-01	2.05E-02	1.76E-06	2.63E-03	2.19E-03	2.93E-03	7.62E-02	7.55E-02	2.85E-01
365	489488.17	3859871.48	0.03561	0.01154	0.01872	0.06366	0.007	0.031	0.0112	0.01154	2.48E-01	2.13E-02	1.95E-06	2.24E-03	2.22E-03	2.88E-03	7.94E-02	7.85E-02	2.78E-01
366	489538.17	3859871.48	0.03449	0.01202	0.01919	0.05708	0.007	0.03	0.0117	0.01202	2.40E-01	2.22E-02	2.00E-06	2.01E-03	2.22E-03	2.85E-03	8.28E-02	8.17E-02	2.71E-01
367	489588.17	3859871.48	0.03346	0.01253	0.01888	0.05215	0.007	0.03	0.0122	0.01253	2.33E-01	2.31E-02	1.97E-06	1.84E-03	2.20E-03	2.81E-03	8.64E-02	8.52E-02	2.64E-01
368	489238.17	3859921.48	0.04682	0.00906	0.01091	0.36804	0.006	0.034	0.0087	0.00906	3.26E-01	1.67E-02	1.14E-06	1.30E-02	1.84E-03	3.15E-03	6.17E-02	6.16E-02	3.61E-01
369	489288.17	3859921.48	0.04445	0.00935	0.01171	0.18025	0.006	0.033	0.009	0.00935	3.10E-01	1.73E-02	1.22E-06	6.34E-03	1.93E-03	3.06E-03	6.39E-02	6.36E-02	3.39E-01
370	489338.17	3859921.48	0.04211	0.00966	0.01274	0.11882	0.006	0.032	0.0093	0.00966	2.94E-01	1.78E-02	1.33E-06	4.18E-03	2.01E-03	2.99E-03	6.62E-02	6.57E-02	3.21E-01
371	489388.17	3859921.48	0.04006	0.00999	0.01416	0.08945	0.007	0.031	0.0097	0.00999	2.79E-01	1.85E-02	1.47E-06	3.15E-03	2.07E-03	2.92E-03	6.86E-02	6.79E-02	3.07E-01
372	489438.17	3859921.48	0.03831	0.01032	0.01582	0.07217	0.007	0.03	0.01	0.01032	2.67E-01	1.91E-02	1.65E-06	2.54E-03	2.13E-03	2.85E-03	7.10E-02	7.02E-02	2.94E-01
373	489488.17	3859921.48	0.03671	0.01067	0.01663	0.06189	0.007	0.03	0.0104	0.01067	2.56E-01	1.97E-02	1.73E-06	2.18E-03	2.16E-03	2.80E-03	7.35E-02	7.26E-02	2.84E-01
374	489538.17	3859921.48	0.03527	0.01106	0.01646	0.05528	0.007	0.029	0.0108	0.01106	2.46E-01	2.04E-02	1.71E-06	1.95E-03	2.17E-03	2.76E-03	7.62E-02	7.52E-02	2.74E-01
375	489588.17	3859921.48	0.03401	0.01143	0.01543	0.05013	0.007	0.029	0.0111	0.01143	2.37E-01	2.11E-02	1.61E-06	1.76E-03	2.17E-03	2.72E-03	7.89E-02	7.77E-02	2.66E-01
376	489238.17	3859971.48	0.06046	0.00859	0.01019	0.36122	0.006	0.033	0.0083	0.00859	4.22E-01	1.59E-02	1.06E-06	1.27E-02	1.75E-03	3.09E-03	5.86E-02	5.84E-02	4.55E-01
377	489288.17	3859971.48	0.05202	0.00884	0.01098	0.17862	0.006	0.032	0.0085	0.00884	3.63E-01	1.63E-02	1.14E-06	6.29E-03	1.84E-03	3.01E-03	6.04E-02	6.01E-02	3.90E-01
378	489338.17	3859971.48	0.04679	0.00911	0.01208	0.11671	0.006	0.031	0.0088	0.00911	3.26E-01	1.68E-02	1.26E-06	4.11E-03	1.92E-03	2.93E-03	6.24E-02	6.19E-02	3.52E-01
379	489388.17	3859971.48	0.04318	0.00938	0.01346	0.08706	0.006	0.03	0.0091	0.00938	3.01E-01	1.73E-02	1.40E-06	3.06E-03	2.00E-03	2.85E-03	6.44E-02	6.38E-02	3.27E-01
380	489438.17	3859971.48	0.04048	0.0096	0.01422	0.06909	0.007	0.029	0.0093	0.0096	2.82E-01	1.77E-02	1.48E-06	2.43E-03	2.07E-03	2.76E-03	6.61E-02	6.53E-02	3.08E-01
381	489488.17	3859971.48	0.03838	0.00973	0.01379	0.05735	0.007	0.028	0.0095	0.00973	2.68E-01	1.80E-02	1.44E-06	2.02E-03	2.13E-03	2.67E-03	6.74E-02	6.62E-02	2.94E-01
382	489538.17	3859971.48	0.03657	0.00987	0.01312	0.05035	0.007	0.028	0.0097	0.00987	2.55E-01	1.82E-02	1.37E-06	1.77E-03	2.16E-03	2.60E-03	6.85E-02	6.71E-02	2.81E-01
383	489588.17	3859971.48	0.03499	0.01004	0.01228	0.04553	0.007	0.027	0.0099	0.01004	2.44E-01	1.85E-02	1.28E-06	1.60E-03	2.17E-03	2.54E-03	6.98E-02	6.83E-02	2.70E-01
384	483577.7	3854071	0.05597	0.02086	0.00601	0.12939	0.004	0.084	0.0491	0.02086	3.90E-01	3.85E-02	6.26E-07	4.55E-03	1.10E-03	7.92E-03	3.48E-01	1.42E-01	6.48E-01
385	483627.7	3854071	0.04859	0.01964	0.0059	0.10731	0.004	0.073	0.0447	0.01964	3.39E-01	3.63E-02	6.14E-07	3.78E-03	1.10E-03	6.86E-03	3.17E-01	1.34E-01	5.70E-01
386	483677.7	3854071	0.04364	0.01853	0.00591	0.0913	0.004	0.064	0.041	0.01853	3.04E-01	3.42E-02	6.15E-07	3.21E-03	1.11E-03	6.04E-03	2.91E-01	1.26E-01	5.14E-01
387	483727.7	3854071	0.04001	0.01754	0.00603	0.07922	0.004	0.057	0.0379	0.01754	2.79E-01	3.24E-02	6.28E-07	2.79E-03	1.11E-03	5.37E-03	2.69E-01	1.19E-01	4.70E-01
388	483777.7	3854071	0.03728	0.01649	0.00616	0.06926	0.004	0.051	0.035	0.01649	2.60E-01	3.05E-02	6.41E-07	2.44E-03	1.11E-03	4.80E-03	2.48E-01	1.12E-01	4.35E-01
389	483577.7	3854121	0.05797	0.02104	0.0066	0.17547	0.004	0.105	0.0592	0.02104	4.04E-01	3.89E-02	6.87E-07	6.18E-03	1.12E-03	9.84E-03	4.20E-01	1.43E-01	7.37E-01
390	483627.7	3854121	0.05065	0.01966	0.0065	0.13912	0.004	0.087	0.0527	0.01966	3.53E-01	3.63E-02	6.77E-07	4.90E-03	1.12E-03	8.21E-03	3.74E-01	1.34E-01	6.44E-01
391	483677.7	3854121	0.04582	0.01835	0.00653	0.11405	0.004	0.074	0.0473	0.01835	3.19E-01	3.39E-02	6.80E-07	4.01E-03	1.12E-03	6.98E-03	3.35E-01	1.25E-01	5.76E-01
392	483727.7	3854121	0.04233	0.01717	0.00664	0.09588	0.004	0.064	0.0428	0.01717	2.95E-01	3.17E-02	6.91E-07	3.37E-03	1.13E-03	6.05E-03	3.03E-01	1.17E-01	5.24E-01
393	483777.7	3854121	0.03951	0.01627	0.00679	0.08308	0.004	0.057	0.0393	0.01627	2.75E-01	3.00E-02	7.07E-07	2.92E-03	1.12E-03	5.38E-03	2.78E-01	1.11E-01	4.83E-01
394	483577.7	3854171	0.06067	0.02094	0.00727	0.25566	0.004	0.138	0.073	0.02094	4.23E-01	3.87E-02	7.57E-07	9.00E-03	1.14E-03	1.30E-02	5.17E-01	1.42E-01	8.60E-01
395	483627.7	3854171	0.0535	0.01934	0.0072	0.1864	0.004	0.107	0.063	0.01934	3.73E-01	3.57E-02	7.50E-07	6.56E-03	1.14E-03	1.01E-02	4.47E-01	1.32E-01	7.42E-01
396	483677.7	3854171	0.04862	0.01807	0.00729	0.14632	0.004	0.088	0.0556	0.01807	3.39E-01	3.34E-02	7.59E-07	5.15E-03	1.14E-03	8.30E-03	3.94E-01	1.23E-01	6.58E-01
397	483727.7	3854171	0.04499	0.01703	0.00743	0.1203	0.004	0.075	0.0498	0.01703	3.14E-01	3.15E-02	7.74E-07	4.23E-03	1.13E-03	7.08E-03	3.53E-01	1.16E-01	5.95E-01
398	483777.7	3854171	0.04216	0.01606	0.00761	0.10132	0.004	0.065	0.0449	0.01606	2.94E-01	2.97E-02	7.92E-07	3.57E-03	1.14E-03	6.15E-03	3.18E-01	1.09E-01	5.44E-01
399	483827.7	3854171	0.03996	0.01504	0.00795	0.08613	0.004	0.057	0.0405	0.01504	2.79E-01	2.78E-02	8.28E-07	3.03E-03	1.14E-03	5.36E-03	2.87E-01	1.02E-01	5.00E-01
400	483877.7	3854171	0.03793	0.01432	0.00859	0.07573	0.004	0.051	0.0373	0.01432	2.64E-01	2.64E-02	8.94E-07	2.67E-03	1.15E-03	4.82E-03	2.64E-01	9.74E-02	4.66E-01
401	483727.7	3854221	0.04889	0.01698	0.00843	0.15905	0.004	0.092	0.0597	0.01698	3.41E-01	3.14E-02	8.78E-07	5.60E-03	1.15E-03	8.67E-03	4.23E-01	1.15E-01	6.95E-01
402	483777.7	3854221	0.04575	0.01596	0.00876	0.12855	0.004	0.078	0.0528	0.01596	3.19E-01	2.95E-02	9.12E-07	4.52E-03	1.15E-03	7.28E-03	3.74E-01	1.09E-01	6.27E-01

403	483827.7	3854221	0.04295	0.01531	0.00949	0.10932	0.004	0.068	0.0481	0.01531	2.99E-01	2.83E-02	9.88E-07	3.85E-03	1.16E-03	6.39E-03	3.41E-01	1.04E-01	5.76E-01
404	483877.7	3854221	0.04084	0.01445	0.01024	0.0931	0.004	0.059	0.0433	0.01445	2.85E-01	2.67E-02	1.07E-06	3.28E-03	1.16E-03	5.59E-03	3.07E-01	9.83E-02	5.30E-01
405	489150.19	3858726.45	0.05291	0.04476	0.01664	0.39075	0.015	0.146	0.0482	0.04476	3.69E-01	8.27E-02	1.73E-06	1.38E-02	4.56E-03	1.38E-02	3.42E-01	3.04E-01	5.21E-01
406	489200.19	3858726.45	0.05047	0.04191	0.01675	0.64617	0.014	0.121	0.0443	0.04191	3.52E-01	7.74E-02	1.74E-06	2.27E-02	4.49E-03	1.13E-02	3.14E-01	2.85E-01	4.96E-01
407	489150.19	3858776.45	0.05392	0.05129	0.01682	0.5204	0.014	0.197	0.0559	0.05129	3.76E-01	9.47E-02	1.75E-06	1.83E-02	4.36E-03	1.85E-02	3.96E-01	3.49E-01	5.59E-01
408	489200.19	3858776.45	0.05146	0.04745	0.01689	0.74941	0.014	0.149	0.0505	0.04745	3.59E-01	8.76E-02	1.76E-06	2.64E-02	4.29E-03	1.40E-02	3.58E-01	3.23E-01	5.26E-01
409	488919.6	3856400.76	0.02392	0.00779	0.01012	0.01924	0.087	0.016	0.0102	0.00779	1.67E-01	1.44E-02	1.05E-06	6.77E-04	2.72E-02	1.52E-03	7.19E-02	5.30E-02	2.29E-01
410	488919.6	3856450.76	0.02415	0.00792	0.00995	0.01964	0.099	0.017	0.0103	0.00792	1.68E-01	1.46E-02	1.04E-06	6.91E-04	3.11E-02	1.55E-03	7.30E-02	5.39E-02	2.35E-01
411	488969.6	3856450.76	0.02388	0.00785	0.00982	0.01937	0.099	0.016	0.0102	0.00785	1.66E-01	1.45E-02	1.02E-06	6.82E-04	3.10E-02	1.53E-03	7.19E-02	5.34E-02	2.33E-01
412	488919.6	3856500.76	0.02438	0.00807	0.00978	0.02006	0.114	0.017	0.0105	0.00807	1.70E-01	1.49E-02	1.02E-06	7.06E-04	3.57E-02	1.58E-03	7.40E-02	5.49E-02	2.42E-01
413	488969.6	3856500.76	0.02409	0.008	0.00966	0.01978	0.113	0.017	0.0103	0.008	1.68E-01	1.48E-02	1.01E-06	6.96E-04	3.54E-02	1.57E-03	7.30E-02	5.44E-02	2.39E-01
414	488919.6	3856550.76	0.0246	0.00822	0.00965	0.0205	0.13	0.017	0.0106	0.00822	1.72E-01	1.52E-02	1.00E-06	7.22E-04	4.08E-02	1.62E-03	7.51E-02	5.59E-02	2.49E-01
415	488969.6	3856550.76	0.02432	0.00815	0.00954	0.0202	0.128	0.017	0.0105	0.00815	1.70E-01	1.51E-02	9.93E-07	7.11E-04	4.02E-02	1.60E-03	7.40E-02	5.54E-02	2.46E-01
416	488819.6	3856600.76	0.02547	0.00851	0.00974	0.02164	0.154	0.018	0.0111	0.00851	1.78E-01	1.57E-02	1.01E-06	7.62E-04	4.82E-02	1.70E-03	7.86E-02	5.79E-02	2.65E-01
417	488869.6	3856600.76	0.02516	0.00844	0.00964	0.02128	0.151	0.018	0.0109	0.00844	1.75E-01	1.56E-02	1.00E-06	7.49E-04	4.73E-02	1.68E-03	7.74E-02	5.74E-02	2.61E-01
418	488919.6	3856600.76	0.02484	0.00837	0.00955	0.02095	0.148	0.018	0.0108	0.00837	1.73E-01	1.55E-02	9.94E-07	7.37E-04	4.64E-02	1.66E-03	7.62E-02	5.69E-02	2.57E-01
419	488819.6	3856650.76	0.02573	0.00868	0.00966	0.02213	0.176	0.019	0.0113	0.00868	1.79E-01	1.60E-02	1.01E-06	7.79E-04	5.52E-02	1.74E-03	7.99E-02	5.90E-02	2.74E-01
420	488869.6	3856650.76	0.02541	0.0086	0.00958	0.02176	0.172	0.018	0.0111	0.0086	1.77E-01	1.59E-02	9.97E-07	7.66E-04	5.38E-02	1.72E-03	7.86E-02	5.85E-02	2.69E-01
421	488819.6	3856700.76	0.02599	0.00885	0.00964	0.02265	0.199	0.019	0.0115	0.00885	1.81E-01	1.63E-02	1.00E-06	7.97E-04	6.25E-02	1.79E-03	8.11E-02	6.02E-02	2.84E-01
422	488869.6	3856700.76	0.02566	0.00876	0.0096	0.02226	0.194	0.019	0.0113	0.00876	1.79E-01	1.62E-02	9.99E-07	7.83E-04	6.06E-02	1.77E-03	7.99E-02	5.96E-02	2.79E-01
423	488819.6	3856750.76	0.02628	0.00902	0.00968	0.02319	0.224	0.02	0.0117	0.00902	1.83E-01	1.67E-02	1.01E-06	8.16E-04	7.01E-02	1.83E-03	8.25E-02	6.13E-02	2.94E-01
424	488869.6	3856750.76	0.02593	0.00894	0.00969	0.02279	0.216	0.019	0.0115	0.00894	1.81E-01	1.65E-02	1.01E-06	8.02E-04	6.76E-02	1.82E-03	8.11E-02	6.08E-02	2.88E-01
425	488819.6	3857050.76	0.02829	0.01024	0.01126	0.0273	0.358	0.024	0.013	0.01024	1.97E-01	1.89E-02	1.17E-06	9.61E-04	1.12E-01	2.24E-03	9.23E-02	6.96E-02	3.54E-01
426	488869.6	3857050.76	0.02785	0.01014	0.01141	0.02675	0.337	0.024	0.0128	0.01014	1.94E-01	1.87E-02	1.19E-06	9.41E-04	1.06E-01	2.21E-03	9.06E-02	6.90E-02	3.43E-01
427	488919.6	3857050.76	0.02745	0.01003	0.01155	0.02622	0.318	0.023	0.0125	0.01003	1.91E-01	1.85E-02	1.20E-06	9.23E-04	9.98E-02	2.17E-03	8.88E-02	6.82E-02	3.33E-01
428	488819.6	3857100.76	0.02871	0.01048	0.01177	0.02817	0.374	0.025	0.0133	0.01048	2.00E-01	1.94E-02	1.23E-06	9.91E-04	1.17E-01	2.32E-03	9.44E-02	7.13E-02	3.63E-01
429	488869.6	3857100.76	0.02827	0.01037	0.01189	0.02758	0.351	0.024	0.0131	0.01037	1.97E-01	1.92E-02	1.24E-06	9.71E-04	1.10E-01	2.28E-03	9.25E-02	7.05E-02	3.51E-01
430	488919.6	3857100.76	0.02783	0.01027	0.01201	0.02703	0.33	0.024	0.0128	0.01027	1.94E-01	1.90E-02	1.25E-06	9.51E-04	1.03E-01	2.25E-03	9.06E-02	6.98E-02	3.40E-01
431	488819.6	3857150.76	0.02916	0.01073	0.01233	0.02911	0.386	0.026	0.0136	0.01073	2.03E-01	1.98E-02	1.28E-06	1.02E-03	1.21E-01	2.41E-03	9.65E-02	7.30E-02	3.71E-01
432	488869.6	3857150.76	0.02869	0.01062	0.01242	0.02849	0.361	0.025	0.0133	0.01062	2.00E-01	1.96E-02	1.29E-06	1.00E-03	1.13E-01	2.36E-03	9.45E-02	7.22E-02	3.58E-01
433	488919.6	3857150.76	0.02825	0.01051	0.0125	0.02791	0.339	0.025	0.0131	0.01051	1.97E-01	1.94E-02	1.30E-06	9.82E-04	1.06E-01	2.32E-03	9.26E-02	7.15E-02	3.47E-01
434	488969.6	3857150.76	0.02783	0.0104	0.01258	0.02734	0.319	0.024	0.0128	0.0104	1.94E-01	1.92E-02	1.31E-06	9.62E-04	9.98E-02	2.28E-03	9.08E-02	7.07E-02	3.36E-01
435	488819.6	3857200.76	0.02964	0.01101	0.01296	0.03012	0.392	0.027	0.014	0.01101	2.07E-01	2.03E-02	1.35E-06	1.06E-03	1.23E-01	2.50E-03	9.88E-02	7.49E-02	3.77E-01
436	488869.6	3857200.76	0.02915	0.01089	0.01302	0.02946	0.366	0.026	0.0136	0.01089	2.03E-01	2.01E-02	1.36E-06	1.04E-03	1.15E-01	2.45E-03	9.66E-02	7.41E-02	3.64E-01
437	488919.6	3857200.76	0.02869	0.01078	0.0131	0.02884	0.343	0.026	0.0134	0.01078	2.00E-01	1.99E-02	1.36E-06	1.02E-03	1.07E-01	2.41E-03	9.47E-02	7.33E-02	3.52E-01
438	488969.6	3857200.76	0.02826	0.01065	0.01319	0.02824	0.322	0.025	0.0131	0.01065	1.97E-01	1.97E-02	1.37E-06	9.94E-04	1.01E-01	2.37E-03	9.27E-02	7.24E-02	3.41E-01
439	488819.6	3857250.76	0.03017	0.01129	0.0137	0.03121	0.393	0.028	0.0143	0.01129	2.10E-01	2.09E-02	1.43E-06	1.10E-03	1.23E-01	2.60E-03	1.01E-01	7.68E-02	3.83E-01
440	488869.6	3857250.76	0.02966	0.01117	0.01376	0.0305	0.366	0.027	0.014	0.01117	2.07E-01	2.06E-02	1.43E-06	1.07E-03	1.15E-01	2.55E-03	9.90E-02	7.60E-02	3.69E-01
441	488919.6	3857250.76	0.02918	0.01105	0.01387	0.02984	0.342	0.027	0.0137	0.01105	2.03E-01	2.04E-02	1.44E-06	1.05E-03	1.07E-01	2.50E-03	9.69E-02	7.51E-02	3.56E-01
442	488969.6	3857250.76	0.02872	0.01093	0.01402	0.0292	0.321	0.026	0.0134	0.01093	2.00E-01	2.02E-02	1.46E-06	1.03E-03	1.00E-01	2.46E-03	9.48E-02	7.43E-02	3.45E-01
443	488819.6	3857300.76	0.03073	0.0116	0.01469	0.03238	0.388	0.029	0.0147	0.0116	2.14E-01	2.14E-02	1.53E-06	1.14E-03	1.22E-01	2.71E-03	1.04E-01	7.89E-02	3.86E-01
444	488869.6	3857300.76	0.0302	0.01147	0.0148	0.03162	0.361	0.028	0.0143	0.01147	2.11E-01	2.12E-02	1.54E-06	1.11E-03	1.13E-01	2.66E-03	1.01E-01	7.80E-02	3.72E-01
445	488919.6	3857300.76	0.02969	0.01134	0.01498	0.03091	0.337	0.028	0.014	0.01134	2.07E-01	2.09E-02	1.56E-06	1.09E-03	1.05E-01	2.61E-03	9.92E-02	7.71E-02	3.59E-01
446	488819.6	3857450.76	0.03273	0.01263	0.02013	0.03654	0.338	0.033	0.0159	0.01263	2.28E-01	2.33E-02	2.10E-06	1.29E-03	1.06E-01	3.14E-03	1.13E-01	8.59E-02	3.89E-01
447	488869.6	3857450.76	0.03211	0.01247	0.02023	0.03558	0.314	0.033	0.0155	0.01247	2.24E-01	2.30E-02	2.11E-06	1.25E-03	9.85E-02	3.08E-03	1.10E-01	8.48E-02	3.75E-01
448	488919.6	3857450.76	0.03151	0.01232	0.02035	0.03469	0.293	0.032	0.0151	0.01232	2.20E-01	2.28E-02	2.12E-06	1.22E-03	9.18E-02	3.02E-03	1.07E-01	8.38E-02	3.62E-01
449	488819.6	3857500.76	0.03352	0.01301	0.02262	0.03819	0.311	0.035	0.0164	0.01301	2.34E-01	2.40E-02	2.35E-06	1.34E-03	9.75E-02	3.32E-03	1.16E-01	8.85E-02	3.88E-01
450	488869.6	3857500.76	0.03286	0.01285	0.02259	0.03713	0.29	0.035	0.0159	0.01285	2.29E-01	2.37E-02	2.35E-06	1.31E-03	9.08E-02	3.25E-03	1.13E-01	8.74E-02	3.74E-01
451	488919.6	3857500.76	0.03223	0.01269	0.02255	0.03616	0.271	0.034	0.0155	0.01269	2.25E-01	2.34E-02	2.35E-06	1.27E-03	8.48E-02	3.19E-03	1.10E-01	8.63E-02	3.61E-01
452	488819.6	3857550.76	0.03438	0.01344	0.02528	0.03999	0.281	0.037	0.0169	0.01344	2.40E-01	2.48E-02	2.63E-06	1.41E-03	8.81E-02	3.52E-03	1.20E-01	9.14E-02	3.86E-01
453	488869.6	3857550.76	0.03369	0.01325	0.02506	0.03883	0.262	0.037	0.0164	0.01325	2.35E-01	2.45E-02	2.61E-06	1.37E-03	8.22E-02	3.44E-03	1.16E-01	9.01E-02	3.73E-01
454	488919.6	3857550.76	0.03302	0.01308	0.02487	0.03777	0.245	0.036	0.016	0.01308	2.30E-01	2.42E-02	2.59E-06	1.33E-03	7.69E-02	3.37E-03	1.13E-01	8.89E-02	3.60E-01
455	489663.71	3860900.05	0.00963	0.00494	0.00335	0.03664	0.003	0.013	0.0049	0.00494	6.71E-02	9.12E-03	3.49E-07	1.29E-03	1.02E-03	1.23E-03	3.44E-02	3.36E-02	8.06E-02
456	489813.71	3860900.05	0.00936	0.00518	0.00317	0.02923	0.004	0.013	0.0051	0.00518	6.53E-02	9.57E-03	3.30E-07	1.03E-03	1.17E-03	1.18E-03	3.61E-02	3.52E-02	7.90E-02
457	489863.71	3860900.05	0.00926	0.00526	0.00305	0.02749	0.004	0.012	0.0052	0.00526	6.46E-02	9.71E-03	3.18E-07	9.68E-04	1.20E-03	1.17E-03	3.66E-02	3.58E-02	7.85E-02
458	489913.71	3860900.05	0.00917	0.00535	0.00295	0.02605	0.004	0.012	0.0053	0.00535	6.39E-02	9.88E-03	3.07E-07	9.17E-04	1.24E-03	1.16E-03	3.73E-02	3.64E-02	7.80E-02
459	489963.71	3860900.05	0.00907	0.00544	0.00285	0.02475	0.004	0.012	0.0054	0.00544	6.32E-02	1.00E-02	2.97E-07	8.71E-04	1.26E-03	1.15E-03	3.79E-02	3.70E-02	7.75E-02
460	490013.71	3860900.05	0.00897	0.00554	0.00279	0.02365	0.004	0.012	0.0055	0.00554	6.25E-02	1.02E-02	2.90E-07	8.32E-04	1.28E-03	1.14E-03	3.86E-02	3.77E-02	7.70E-02

461	490063.71	3860900.05	0.00888	0.00564	0.00275	0.02267	0.004	0.012	0.0055	0.00564	6.19E-02	1.04E-02	2.86E-07	7.98E-04	1.29E-03	1.13E-03	3.93E-02	3.84E-02	7.64E-02
462	489663.71	3860950.05	0.00864	0.00481	0.00322	0.03647	0.003	0.012	0.0047	0.00481	6.02E-02	8.88E-03	3.35E-07	1.28E-03	9.65E-04	1.15E-03	3.34E-02	3.27E-02	7.33E-02
463	489813.71	3860950.05	0.00847	0.00503	0.00305	0.02903	0.004	0.012	0.0049	0.00503	5.91E-02	9.29E-03	3.18E-07	1.02E-03	1.12E-03	1.11E-03	3.50E-02	3.42E-02	7.24E-02
464	489863.71	3860950.05	0.0084	0.0051	0.00294	0.02727	0.004	0.012	0.005	0.0051	5.86E-02	9.42E-03	3.06E-07	9.60E-04	1.16E-03	1.10E-03	3.56E-02	3.47E-02	7.21E-02
465	489913.71	3860950.05	0.00834	0.00519	0.00283	0.02581	0.004	0.012	0.0051	0.00519	5.81E-02	9.59E-03	2.95E-07	9.08E-04	1.19E-03	1.09E-03	3.61E-02	3.53E-02	7.18E-02
466	489963.71	3860950.05	0.00827	0.00527	0.00274	0.02452	0.004	0.012	0.0052	0.00527	5.77E-02	9.73E-03	2.85E-07	8.63E-04	1.22E-03	1.08E-03	3.67E-02	3.58E-02	7.14E-02
467	490013.71	3860950.05	0.0082	0.00536	0.00268	0.0234	0.004	0.011	0.0053	0.00536	5.72E-02	9.90E-03	2.79E-07	8.24E-04	1.24E-03	1.08E-03	3.73E-02	3.64E-02	7.11E-02
468	490063.71	3860950.05	0.00813	0.00546	0.00264	0.02243	0.004	0.011	0.0054	0.00546	5.67E-02	1.01E-02	2.75E-07	7.89E-04	1.26E-03	1.07E-03	3.80E-02	3.71E-02	7.07E-02
469	489513.71	3861000.05	0.00786	0.00451	0.00295	0.05114	0.002	0.012	0.0044	0.00451	5.48E-02	8.33E-03	3.07E-07	1.80E-03	7.49E-04	1.10E-03	3.13E-02	3.07E-02	6.74E-02
470	489563.71	3861000.05	0.00785	0.00456	0.00302	0.0448	0.003	0.012	0.0045	0.00456	5.47E-02	8.42E-03	3.14E-07	1.58E-03	8.05E-04	1.09E-03	3.17E-02	3.10E-02	6.74E-02
471	489613.71	3861000.05	0.00784	0.00462	0.00308	0.04006	0.003	0.012	0.0045	0.00462	5.47E-02	8.53E-03	3.21E-07	1.41E-03	8.62E-04	1.08E-03	3.22E-02	3.14E-02	6.73E-02
472	489663.71	3861000.05	0.00781	0.00469	0.00311	0.03633	0.003	0.011	0.0046	0.00469	5.44E-02	8.66E-03	3.24E-07	1.28E-03	9.18E-04	1.07E-03	3.26E-02	3.19E-02	6.71E-02
473	489713.71	3861000.05	0.00778	0.00475	0.00308	0.03331	0.003	0.011	0.0047	0.00475	5.42E-02	8.77E-03	3.21E-07	1.17E-03	9.74E-04	1.06E-03	3.31E-02	3.23E-02	6.70E-02
474	489763.71	3861000.05	0.00774	0.00481	0.00302	0.03086	0.003	0.011	0.0047	0.00481	5.40E-02	8.88E-03	3.14E-07	1.09E-03	1.02E-03	1.05E-03	3.35E-02	3.27E-02	6.68E-02
475	489813.71	3861000.05	0.00771	0.00489	0.00294	0.02885	0.003	0.011	0.0048	0.00489	5.38E-02	9.03E-03	3.06E-07	1.02E-03	1.07E-03	1.05E-03	3.41E-02	3.33E-02	6.67E-02
476	489863.71	3861000.05	0.00766	0.00496	0.00283	0.02709	0.004	0.011	0.0049	0.00496	5.34E-02	9.16E-03	2.95E-07	9.53E-04	1.12E-03	1.04E-03	3.46E-02	3.37E-02	6.65E-02
477	489913.71	3861000.05	0.00762	0.00504	0.00273	0.02561	0.004	0.011	0.005	0.00504	5.31E-02	9.31E-03	2.84E-07	9.01E-04	1.15E-03	1.03E-03	3.51E-02	3.43E-02	6.64E-02
478	489963.71	3861000.05	0.00757	0.00511	0.00264	0.02431	0.004	0.011	0.005	0.00511	5.28E-02	9.44E-03	2.75E-07	8.56E-04	1.18E-03	1.02E-03	3.56E-02	3.47E-02	6.62E-02
479	490013.71	3861000.05	0.00752	0.0052	0.00258	0.02319	0.004	0.011	0.0051	0.0052	5.24E-02	9.60E-03	2.69E-07	8.16E-04	1.21E-03	1.02E-03	3.63E-02	3.54E-02	6.60E-02
480	490063.71	3861000.05	0.00747	0.00529	0.00254	0.02221	0.004	0.011	0.0052	0.00529	5.21E-02	9.77E-03	2.64E-07	7.82E-04	1.23E-03	1.01E-03	3.68E-02	3.60E-02	6.57E-02
481	489513.71	3861050.05	0.00713	0.00441	0.00285	0.05106	0.002	0.011	0.0043	0.00441	4.97E-02	8.14E-03	2.97E-07	1.80E-03	7.08E-04	1.02E-03	3.06E-02	3.00E-02	6.20E-02
482	489563.71	3861050.05	0.00713	0.00446	0.00292	0.0447	0.002	0.011	0.0044	0.00446	4.97E-02	8.24E-03	3.04E-07	1.57E-03	7.61E-04	1.01E-03	3.10E-02	3.03E-02	6.19E-02
483	489613.71	3861050.05	0.00713	0.00452	0.00298	0.03994	0.003	0.011	0.0044	0.00452	4.97E-02	8.35E-03	3.10E-07	1.41E-03	8.18E-04	1.01E-03	3.14E-02	3.07E-02	6.19E-02
484	489663.71	3861050.05	0.00711	0.00457	0.003	0.03618	0.003	0.011	0.0045	0.00457	4.96E-02	8.44E-03	3.12E-07	1.27E-03	8.74E-04	9.99E-04	3.18E-02	3.11E-02	6.19E-02
485	489713.71	3861050.05	0.00709	0.00463	0.00297	0.03316	0.003	0.011	0.0046	0.00463	4.94E-02	8.55E-03	3.09E-07	1.17E-03	9.27E-04	9.93E-04	3.22E-02	3.15E-02	6.18E-02
486	489763.71	3861050.05	0.00707	0.00469	0.00291	0.0307	0.003	0.011	0.0046	0.00469	4.93E-02	8.66E-03	3.03E-07	1.08E-03	9.81E-04	9.87E-04	3.27E-02	3.19E-02	6.18E-02
487	489813.71	3861050.05	0.00705	0.00476	0.00283	0.02866	0.003	0.01	0.0047	0.00476	4.92E-02	8.79E-03	2.95E-07	1.01E-03	1.03E-03	9.81E-04	3.32E-02	3.24E-02	6.18E-02
488	489863.71	3861050.05	0.00702	0.00482	0.00273	0.02691	0.003	0.01	0.0048	0.00482	4.89E-02	8.90E-03	2.84E-07	9.47E-04	1.07E-03	9.76E-04	3.37E-02	3.28E-02	6.17E-02
489	489913.71	3861050.05	0.00699	0.0049	0.00263	0.02541	0.004	0.01	0.0048	0.0049	4.87E-02	9.05E-03	2.74E-07	8.94E-04	1.11E-03	9.70E-04	3.42E-02	3.33E-02	6.16E-02
490	489963.71	3861050.05	0.00695	0.00497	0.00255	0.02412	0.004	0.01	0.0049	0.00497	4.85E-02	9.18E-03	2.65E-07	8.49E-04	1.14E-03	9.64E-04	3.46E-02	3.38E-02	6.14E-02
491	490013.71	3861050.05	0.00692	0.00505	0.00249	0.02301	0.004	0.01	0.005	0.00505	4.82E-02	9.33E-03	2.59E-07	8.10E-04	1.17E-03	9.60E-04	3.52E-02	3.43E-02	6.14E-02
492	490063.71	3861050.05	0.00689	0.00513	0.00245	0.02202	0.004	0.01	0.0051	0.00513	4.80E-02	9.47E-03	2.55E-07	7.75E-04	1.19E-03	9.55E-04	3.58E-02	3.49E-02	6.13E-02
493	489513.71	3861100.05	0.00652	0.00431	0.00277	0.05081	0.002	0.01	0.0042	0.00431	4.55E-02	7.96E-03	2.88E-07	1.79E-03	6.71E-04	9.47E-04	2.99E-02	2.93E-02	5.74E-02
494	489563.71	3861100.05	0.00653	0.00435	0.00283	0.04455	0.002	0.01	0.0043	0.00435	4.55E-02	8.03E-03	2.95E-07	1.57E-03	7.21E-04	9.40E-04	3.03E-02	2.96E-02	5.75E-02
495	489613.71	3861100.05	0.00652	0.0044	0.00287	0.03971	0.002	0.01	0.0043	0.0044	4.55E-02	8.13E-03	2.99E-07	1.40E-03	7.71E-04	9.34E-04	3.06E-02	2.99E-02	5.74E-02
496	489663.71	3861100.05	0.00652	0.00445	0.00289	0.03598	0.003	0.01	0.0044	0.00445	4.55E-02	8.22E-03	3.01E-07	1.27E-03	8.27E-04	9.31E-04	3.10E-02	3.03E-02	5.75E-02
497	489713.71	3861100.05	0.00651	0.00451	0.00286	0.03299	0.003	0.01	0.0044	0.00451	4.54E-02	8.33E-03	2.98E-07	1.16E-03	8.80E-04	9.27E-04	3.15E-02	3.07E-02	5.75E-02
498	489763.71	3861100.05	0.0065	0.00457	0.00281	0.03052	0.003	0.01	0.0045	0.00457	4.53E-02	8.44E-03	2.93E-07	1.07E-03	9.34E-04	9.23E-04	3.19E-02	3.11E-02	5.75E-02
499	489813.71	3861100.05	0.00649	0.00463	0.00273	0.02848	0.003	0.01	0.0046	0.00463	4.52E-02	8.55E-03	2.84E-07	1.00E-03	9.84E-04	9.20E-04	3.23E-02	3.15E-02	5.75E-02
500	489863.71	3861100.05	0.00647	0.0047	0.00264	0.02675	0.003	0.01	0.0046	0.0047	4.51E-02	8.68E-03	2.75E-07	9.41E-04	1.03E-03	9.17E-04	3.28E-02	3.20E-02	5.75E-02
501	489913.71	3861100.05	0.00645	0.00476	0.00255	0.02524	0.003	0.01	0.0047	0.00476	4.50E-02	8.79E-03	2.65E-07	8.88E-04	1.07E-03	9.13E-04	3.33E-02	3.24E-02	5.76E-02
502	489963.71	3861100.05	0.00642	0.00483	0.00247	0.02395	0.004	0.01	0.0048	0.00483	4.48E-02	8.92E-03	2.57E-07	8.43E-04	1.11E-03	9.09E-04	3.38E-02	3.28E-02	5.75E-02
503	490013.71	3861100.05	0.00639	0.00491	0.0024	0.02281	0.004	0.01	0.0048	0.00491	4.45E-02	9.07E-03	2.50E-07	8.03E-04	1.13E-03	9.05E-04	3.43E-02	3.34E-02	5.74E-02
504	490063.71	3861100.05	0.00637	0.00498	0.00236	0.02182	0.004	0.01	0.0049	0.00498	4.44E-02	9.20E-03	2.46E-07	7.68E-04	1.16E-03	9.01E-04	3.48E-02	3.39E-02	5.74E-02
505	489713.71	3861150.05	0.00602	0.0044	0.00276	0.03283	0.003	0.009	0.0043	0.0044	4.20E-02	8.13E-03	2.87E-07	1.16E-03	8.37E-04	8.67E-04	3.07E-02	2.99E-02	5.37E-02
506	489763.71	3861150.05	0.00601	0.00446	0.00271	0.03037	0.003	0.009	0.0044	0.00446	4.19E-02	8.24E-03	2.82E-07	1.07E-03	8.90E-04	8.66E-04	3.11E-02	3.03E-02	5.37E-02
507	489813.71	3861150.05	0.006	0.00452	0.00264	0.02832	0.003	0.009	0.0045	0.00452	4.18E-02	8.35E-03	2.75E-07	9.97E-04	9.40E-04	8.64E-04	3.15E-02	3.07E-02	5.38E-02
508	489863.71	3861150.05	0.00599	0.00458	0.00255	0.02658	0.003	0.009	0.0045	0.00458	4.18E-02	8.46E-03	2.65E-07	9.36E-04	9.87E-04	8.61E-04	3.20E-02	3.11E-02	5.38E-02
509	489913.71	3861150.05	0.00597	0.00464	0.00246	0.02508	0.003	0.009	0.0046	0.00464	4.16E-02	8.57E-03	2.56E-07	8.83E-04	1.03E-03	8.59E-04	3.25E-02	3.16E-02	5.39E-02
510	489963.71	3861150.05	0.00595	0.0047	0.00239	0.02377	0.003	0.009	0.0046	0.0047	4.15E-02	8.68E-03	2.49E-07	8.37E-04	1.07E-03	8.56E-04	3.29E-02	3.20E-02	5.38E-02
511	490013.71	3861150.05	0.00593	0.00477	0.00232	0.02263	0.003	0.009	0.0047	0.00477	4.13E-02	8.81E-03	2.42E-07	7.96E-04	1.09E-03	8.53E-04	3.34E-02	3.24E-02	5.38E-02
512	490063.71	3861150.05	0.00591	0.00484	0.00229	0.02165	0.004	0.009	0.0048	0.00484	4.12E-02	8.94E-03	2.38E-07	7.62E-04	1.12E-03	8.52E-04	3.39E-02	3.29E-02	5.38E-02
513	489613.71	3861200.05	0.00558	0.0042	0.00269	0.0394	0.002	0.009	0.0041	0.0042	3.89E-02	7.76E-03	2.80E-07	1.39E-03	6.89E-04	8.14E-04	2.92E-02	2.86E-02	5.02E-02
514	489663.71	3861200.05	0.00559	0.00424	0.0027	0.03567	0.002	0.009	0.0042	0.00424	3.90E-02	7.83E-03	2.81E-07	1.26E-03	7.43E-04	8.13E-04	2.96E-02	2.88E-02	5.04E-02
515	489713.71	3861200.05	0.00559	0.0043	0.00267	0.03268	0.003	0.009	0.0042	0.0043	3.90E-02	7.94E-03	2.78E-07	1.15E-03	7.96E-04	8.13E-04	3.00E-02	2.92E-02	5.04E-02
516	489763.71	3861200.05	0.00559	0.00435	0.00262	0.03022	0.003	0.009	0.0043	0.00435	3.90E-02	8.03E-03	2.73E-07	1.06E-03	8.46E-04	8.12E-04	3.04E-02	2.96E-02	5.05E-02
517	489813.71	3861200.05	0.00558	0.0044	0.00255	0.02817	0.003	0.009	0.0044	0.0044	3.89E-02	8.13E-03	2.65E-07	9.91E-04	8.96E-04	8.12E-04	3.08E-02	2.99E-02	5.06E-02
518	489863.71	3861200.05	0.00558	0.00446	0.00247	0.02643	0.003	0.009	0.0044	0.00446	3.89E-02	8.24E-03	2.57E-07	9.30E-04	9.46E-04	8.11E-04	3.12E-02	3.03E-02	5.07E-02

519	489913.71	3861200.05	0.00556	0.00452	0.00239	0.02493	0.003	0.009	0.0045	0.00452	3.88E-02	8.35E-03	2.49E-07	8.77E-04	9.87E-04	8.10E-04	3.17E-02	3.07E-02	5.07E-02
520	489963.71	3861200.05	0.00555	0.00458	0.00231	0.02362	0.003	0.009	0.0045	0.00458	3.87E-02	8.46E-03	2.40E-07	8.31E-04	1.02E-03	8.07E-04	3.21E-02	3.11E-02	5.08E-02
521	490013.71	3861200.05	0.00553	0.00465	0.00225	0.02249	0.003	0.009	0.0046	0.00465	3.86E-02	8.59E-03	2.34E-07	7.92E-04	1.06E-03	8.07E-04	3.25E-02	3.16E-02	5.07E-02
522	490063.71	3861200.05	0.00552	0.00471	0.00221	0.02148	0.003	0.009	0.0047	0.00471	3.85E-02	8.70E-03	2.30E-07	7.56E-04	1.09E-03	8.05E-04	3.29E-02	3.20E-02	5.08E-02
523	489513.71	3861250.05	0.00517	0.00402	0.00251	0.05032	0.002	0.008	0.0039	0.00402	3.60E-02	7.42E-03	2.61E-07	1.77E-03	5.61E-04	7.61E-04	2.78E-02	2.73E-02	4.71E-02
524	489563.71	3861250.05	0.00519	0.00406	0.00257	0.04406	0.002	0.008	0.004	0.00406	3.62E-02	7.50E-03	2.68E-07	1.55E-03	6.05E-04	7.63E-04	2.82E-02	2.76E-02	4.72E-02
525	489613.71	3861250.05	0.00521	0.0041	0.00261	0.03929	0.002	0.008	0.004	0.0041	3.63E-02	7.57E-03	2.72E-07	1.38E-03	6.55E-04	7.64E-04	2.86E-02	2.79E-02	4.74E-02
526	489663.71	3861250.05	0.00522	0.00415	0.00261	0.03554	0.002	0.008	0.0041	0.00415	3.64E-02	7.66E-03	2.72E-07	1.25E-03	7.02E-04	7.64E-04	2.89E-02	2.82E-02	4.75E-02
527	489713.71	3861250.05	0.00522	0.0042	0.00259	0.03254	0.002	0.008	0.0041	0.0042	3.64E-02	7.76E-03	2.70E-07	1.15E-03	7.55E-04	7.64E-04	2.93E-02	2.86E-02	4.75E-02
528	489763.71	3861250.05	0.00522	0.00425	0.00254	0.03008	0.003	0.008	0.0042	0.00425	3.64E-02	7.85E-03	2.64E-07	1.06E-03	8.05E-04	7.64E-04	2.97E-02	2.89E-02	4.77E-02
529	489813.71	3861250.05	0.00522	0.0043	0.00247	0.02803	0.003	0.008	0.0042	0.0043	3.64E-02	7.94E-03	2.57E-07	9.87E-04	8.55E-04	7.64E-04	3.00E-02	2.92E-02	4.77E-02
530	489863.71	3861250.05	0.00521	0.00435	0.00239	0.02628	0.003	0.008	0.0043	0.00435	3.63E-02	8.03E-03	2.49E-07	9.25E-04	9.02E-04	7.64E-04	3.05E-02	2.96E-02	4.78E-02
531	489913.71	3861250.05	0.00521	0.00441	0.00232	0.02479	0.003	0.008	0.0044	0.00441	3.63E-02	8.14E-03	2.42E-07	8.73E-04	9.49E-04	7.64E-04	3.09E-02	3.00E-02	4.80E-02
532	489963.71	3861250.05	0.0052	0.00447	0.00225	0.02349	0.003	0.008	0.0044	0.00447	3.63E-02	8.26E-03	2.34E-07	8.27E-04	9.87E-04	7.64E-04	3.13E-02	3.04E-02	4.80E-02
533	490013.71	3861250.05	0.00518	0.00453	0.00219	0.02235	0.003	0.008	0.0045	0.00453	3.61E-02	8.37E-03	2.28E-07	7.87E-04	1.02E-03	7.63E-04	3.17E-02	3.08E-02	4.80E-02
534	490063.71	3861250.05	0.00517	0.00459	0.00215	0.02133	0.003	0.008	0.0045	0.00459	3.60E-02	8.48E-03	2.24E-07	7.51E-04	1.05E-03	7.62E-04	3.22E-02	3.12E-02	4.80E-02
535	489528.13	3861308.47	0.0048	0.00393	0.00245	0.04814	0.002	0.008	0.0039	0.00393	3.35E-02	7.26E-03	2.55E-07	1.69E-03	5.39E-04	7.10E-04	2.73E-02	2.67E-02	4.42E-02
536	489578.13	3861308.47	0.00482	0.00397	0.0025	0.04237	0.002	0.008	0.0039	0.00397	3.36E-02	7.33E-03	2.60E-07	1.49E-03	5.80E-04	7.11E-04	2.76E-02	2.70E-02	4.43E-02
537	489628.13	3861308.47	0.00484	0.00401	0.00252	0.03795	0.002	0.008	0.0039	0.00401	3.37E-02	7.41E-03	2.62E-07	1.34E-03	6.27E-04	7.12E-04	2.79E-02	2.73E-02	4.45E-02
538	489678.13	3861308.47	0.00485	0.00405	0.00251	0.03446	0.002	0.008	0.004	0.00405	3.38E-02	7.48E-03	2.61E-07	1.21E-03	6.74E-04	7.13E-04	2.83E-02	2.75E-02	4.46E-02
539	489728.13	3861308.47	0.00485	0.0041	0.00248	0.03163	0.002	0.008	0.004	0.0041	3.38E-02	7.57E-03	2.58E-07	1.11E-03	7.24E-04	7.13E-04	2.86E-02	2.79E-02	4.47E-02
540	489778.13	3861308.47	0.00485	0.00415	0.00243	0.02929	0.002	0.008	0.0041	0.00415	3.38E-02	7.66E-03	2.53E-07	1.03E-03	7.74E-04	7.14E-04	2.90E-02	2.82E-02	4.48E-02
541	489678.13	3861358.47	0.00457	0.00397	0.00244	0.03432	0.002	0.007	0.0039	0.00397	3.19E-02	7.33E-03	2.54E-07	1.21E-03	6.39E-04	6.74E-04	2.76E-02	2.70E-02	4.24E-02
542	489728.13	3861358.47	0.00458	0.00401	0.0024	0.03149	0.002	0.007	0.004	0.00401	3.19E-02	7.41E-03	2.50E-07	1.11E-03	6.86E-04	6.75E-04	2.80E-02	2.73E-02	4.25E-02
543	489528.13	3861408.47	0.00428	0.00377	0.00233	0.04785	0.002	0.007	0.0037	0.00377	2.98E-02	6.96E-03	2.43E-07	1.68E-03	4.86E-04	6.39E-04	2.61E-02	2.56E-02	4.01E-02
544	489578.13	3861408.47	0.0043	0.00381	0.00236	0.04209	0.002	0.007	0.0037	0.00381	3.00E-02	7.04E-03	2.46E-07	1.48E-03	5.20E-04	6.40E-04	2.64E-02	2.59E-02	4.02E-02
545	489628.13	3861408.47	0.00432	0.00385	0.00238	0.03769	0.002	0.007	0.0038	0.00385	3.01E-02	7.11E-03	2.48E-07	1.33E-03	5.61E-04	6.41E-04	2.68E-02	2.62E-02	4.04E-02
546	489678.13	3861408.47	0.00434	0.00388	0.00236	0.03419	0.002	0.007	0.0038	0.00388	3.03E-02	7.17E-03	2.46E-07	1.20E-03	6.05E-04	6.41E-04	2.71E-02	2.64E-02	4.06E-02
547	489728.13	3861408.47	0.00434	0.00392	0.00233	0.03136	0.002	0.007	0.0039	0.00392	3.03E-02	7.24E-03	2.43E-07	1.10E-03	6.49E-04	6.41E-04	2.73E-02	2.67E-02	4.06E-02
548	489528.13	3861458.47	0.00407	0.0037	0.00227	0.04775	0.001	0.007	0.0036	0.0037	2.84E-02	6.83E-03	2.36E-07	1.68E-03	4.61E-04	6.12E-04	2.56E-02	2.52E-02	3.85E-02
549	489578.13	3861458.47	0.00409	0.00373	0.0023	0.04198	0.002	0.007	0.0037	0.00373	2.85E-02	6.89E-03	2.39E-07	1.48E-03	4.92E-04	6.13E-04	2.59E-02	2.54E-02	3.86E-02
550	489628.13	3861458.47	0.00411	0.00377	0.00231	0.03756	0.002	0.007	0.0037	0.00377	2.87E-02	6.96E-03	2.40E-07	1.32E-03	5.30E-04	6.13E-04	2.62E-02	2.56E-02	3.87E-02
551	489678.13	3861458.47	0.00412	0.0038	0.0023	0.03406	0.002	0.007	0.0037	0.0038	2.87E-02	7.02E-03	2.39E-07	1.20E-03	5.70E-04	6.12E-04	2.65E-02	2.58E-02	3.88E-02
552	489728.13	3861458.47	0.00413	0.00384	0.00226	0.03122	0.002	0.007	0.0038	0.00384	2.88E-02	7.09E-03	2.35E-07	1.10E-03	6.14E-04	6.12E-04	2.68E-02	2.61E-02	3.89E-02
553	489528.13	3861508.47	0.00388	0.00363	0.00222	0.04763	0.001	0.006	0.0036	0.00363	2.71E-02	6.70E-03	2.31E-07	1.68E-03	4.39E-04	5.88E-04	2.52E-02	2.47E-02	3.69E-02
554	489578.13	3861508.47	0.0039	0.00366	0.00225	0.04185	0.001	0.006	0.0036	0.00366	2.72E-02	6.76E-03	2.34E-07	1.47E-03	4.67E-04	5.87E-04	2.54E-02	2.49E-02	3.70E-02
555	489628.13	3861508.47	0.00392	0.00369	0.00225	0.03742	0.002	0.006	0.0036	0.00369	2.73E-02	6.82E-03	2.34E-07	1.32E-03	5.01E-04	5.87E-04	2.56E-02	2.51E-02	3.71E-02
556	489678.13	3861508.47	0.00393	0.00373	0.00223	0.03393	0.002	0.006	0.0037	0.00373	2.74E-02	6.89E-03	2.32E-07	1.19E-03	5.42E-04	5.87E-04	2.59E-02	2.54E-02	3.72E-02
557	489728.13	3861508.47	0.00394	0.00376	0.00219	0.0311	0.002	0.006	0.0037	0.00376	2.75E-02	6.94E-03	2.28E-07	1.09E-03	5.83E-04	5.87E-04	2.62E-02	2.56E-02	3.73E-02
558	489628.13	3861558.47	0.00375	0.00363	0.00219	0.03731	0.002	0.006	0.0036	0.00363	2.61E-02	6.70E-03	2.28E-07	1.31E-03	4.76E-04	5.66E-04	2.52E-02	2.47E-02	3.57E-02
559	489678.13	3861558.47	0.00377	0.00366	0.00218	0.03382	0.002	0.006	0.0036	0.00366	2.63E-02	6.76E-03	2.27E-07	1.19E-03	5.14E-04	5.67E-04	2.55E-02	2.49E-02	3.59E-02
560	489728.13	3861558.47	0.00377	0.0037	0.00214	0.031	0.002	0.006	0.0036	0.0037	2.63E-02	6.83E-03	2.23E-07	1.09E-03	5.51E-04	5.66E-04	2.57E-02	2.52E-02	3.59E-02
561	489357.08	3861015.81	0.00756	0.00432	0.00288	0.09753	0.002	0.012	0.0042	0.00432	5.27E-02	7.98E-03	3.00E-07	3.43E-03	5.86E-04	1.10E-03	2.99E-02	2.94E-02	6.63E-02
562	489407.08	3861015.81	0.00759	0.00436	0.00284	0.07488	0.002	0.012	0.0043	0.00436	5.29E-02	8.05E-03	2.96E-07	2.64E-03	6.27E-04	1.09E-03	3.02E-02	2.96E-02	6.59E-02
563	489457.08	3861015.81	0.00761	0.00441	0.00285	0.0612	0.002	0.012	0.0043	0.00441	5.31E-02	8.14E-03	2.97E-07	2.15E-03	6.74E-04	1.08E-03	3.06E-02	3.00E-02	6.57E-02
564	489357.08	3861065.81	0.00683	0.00423	0.00277	0.09737	0.002	0.011	0.0041	0.00423	4.76E-02	7.81E-03	2.88E-07	3.43E-03	5.55E-04	1.01E-03	2.92E-02	2.88E-02	6.08E-02
565	489407.08	3861065.81	0.00687	0.00427	0.00274	0.07485	0.002	0.011	0.0042	0.00427	4.79E-02	7.89E-03	2.85E-07	2.63E-03	5.92E-04	1.00E-03	2.95E-02	2.90E-02	6.05E-02
566	489457.08	3861065.81	0.0069	0.00431	0.00275	0.06115	0.002	0.011	0.0042	0.00431	4.81E-02	7.96E-03	2.86E-07	2.15E-03	6.36E-04	9.97E-04	2.99E-02	2.93E-02	6.04E-02
567	489357.08	3861115.81	0.00623	0.00414	0.00266	0.09705	0.002	0.01	0.004	0.00414	4.34E-02	7.65E-03	2.77E-07	3.42E-03	5.26E-04	9.28E-04	2.86E-02	2.82E-02	5.64E-02
568	489407.08	3861115.81	0.00628	0.00418	0.00264	0.07467	0.002	0.01	0.0041	0.00418	4.38E-02	7.72E-03	2.75E-07	2.63E-03	5.64E-04	9.27E-04	2.89E-02	2.84E-02	5.61E-02
569	489457.08	3861115.81	0.00632	0.00422	0.00267	0.06101	0.002	0.01	0.0041	0.00422	4.41E-02	7.79E-03	2.78E-07	2.15E-03	6.05E-04	9.25E-04	2.93E-02	2.87E-02	5.61E-02
570	489407.08	3861165.81	0.00578	0.00409	0.00256	0.07423	0.002	0.009	0.004	0.00409	4.03E-02	7.55E-03	2.67E-07	2.61E-03	5.36E-04	8.60E-04	2.83E-02	2.78E-02	5.24E-02
571	489457.08	3861165.81	0.00582	0.00413	0.00259	0.06079	0.002	0.009	0.004	0.00413	4.06E-02	7.63E-03	2.70E-07	2.14E-03	5.73E-04	8.59E-04	2.86E-02	2.81E-02	5.23E-02
572	489407.08	3861215.81	0.00535	0.004	0.00247	0.07438	0.002	0.008	0.0039	0.004	3.73E-02	7.39E-03	2.57E-07	2.62E-03	5.04E-04	7.98E-04	2.76E-02	2.72E-02	4.90E-02
573	489457.08	3861215.81	0.00539	0.00404	0.0025	0.06072	0.002	0.008	0.004	0.00404	3.76E-02	7.46E-03	2.60E-07	2.14E-03	5.39E-04	7.98E-04	2.80E-02	2.75E-02	4.90E-02
574	489407.08	3861265.81	0.00498	0.00391	0.00239	0.07388	0.002	0.008	0.0038	0.00391	3.47E-02	7.22E-03	2.49E-07	2.60E-03	4.79E-04	7.44E-04	2.70E-02	2.66E-02	4.62E-02
575	489457.08	3861265.81	0.00502	0.00395	0.00243	0.06041	0.002	0.008	0.0039	0.00395	3.50E-02	7.30E-03	2.53E-07	2.13E-03	5.11E-04	7.45E-04	2.73E-02	2.69E-02	4.62E-02
576	489309.86	3861110.14	0.00624	0.00411	0.00272	0.13668	0.002	0.01	0.004	0.00411	4.35E-02	7.59E-03	2.83E-07	4.81E-03	5.01E-04	9.36E-04	2.83E-02	2.79E-02	5.77E-02

577	489407.08	3861315.81	0.00468	0.00383	0.00232	0.07372	0.001	0.007	0.0037	0.00383	3.26E-02	7.07E-03	2.42E-07	2.59E-03	4.57E-04	7.02E-04	2.64E-02	2.60E-02	4.38E-02
578	489457.08	3861315.81	0.00471	0.00386	0.00236	0.06028	0.002	0.007	0.0038	0.00386	3.28E-02	7.13E-03	2.46E-07	2.12E-03	4.86E-04	7.03E-04	2.68E-02	2.62E-02	4.38E-02
579	488906.03	3861006.75	0.00726	0.00398	0.00369	0.02058	0.001	0.012	0.0038	0.00398	5.06E-02	7.35E-03	3.84E-07	7.24E-04	4.61E-04	1.17E-03	2.71E-02	2.71E-02	6.04E-02
580	488956.03	3861006.75	0.0073	0.00402	0.00366	0.02403	0.001	0.012	0.0039	0.00402	5.09E-02	7.42E-03	3.81E-07	8.46E-04	4.64E-04	1.17E-03	2.75E-02	2.73E-02	6.10E-02
581	488904.24	3861051.87	0.00658	0.00392	0.00367	0.01949	0.001	0.011	0.0038	0.00392	4.59E-02	7.24E-03	3.82E-07	6.86E-04	4.61E-04	1.05E-03	2.67E-02	2.67E-02	5.54E-02
582	488954.24	3861051.87	0.00661	0.00395	0.00356	0.02332	0.001	0.011	0.0038	0.00395	4.61E-02	7.30E-03	3.71E-07	8.21E-04	4.57E-04	1.06E-03	2.70E-02	2.69E-02	5.58E-02
583	489004.24	3861051.87	0.00667	0.00399	0.00352	0.02784	0.001	0.011	0.0039	0.00399	4.65E-02	7.37E-03	3.66E-07	9.80E-04	4.61E-04	1.05E-03	2.73E-02	2.71E-02	5.65E-02
584	488804.24	3861101.87	0.00586	0.00378	0.00348	0.01562	0.001	0.01	0.0036	0.00378	4.09E-02	6.98E-03	3.62E-07	5.50E-04	4.45E-04	9.62E-04	2.56E-02	2.57E-02	4.97E-02
585	488854.24	3861101.87	0.0059	0.00381	0.00351	0.0173	0.001	0.01	0.0037	0.00381	4.11E-02	7.04E-03	3.65E-07	6.09E-04	4.48E-04	9.58E-04	2.59E-02	2.59E-02	5.02E-02
586	488904.24	3861101.87	0.00591	0.00384	0.0034	0.0203	0.001	0.01	0.0037	0.00384	4.12E-02	7.09E-03	3.54E-07	7.14E-04	4.42E-04	9.57E-04	2.61E-02	2.61E-02	5.04E-02
587	488954.24	3861101.87	0.00595	0.00387	0.00332	0.02405	0.001	0.01	0.0037	0.00387	4.15E-02	7.15E-03	3.46E-07	8.46E-04	4.42E-04	9.53E-04	2.64E-02	2.63E-02	5.09E-02
588	489004.24	3861101.87	0.006	0.0039	0.00325	0.0296	0.001	0.01	0.0038	0.0039	4.18E-02	7.20E-03	3.38E-07	1.04E-03	4.42E-04	9.53E-04	2.66E-02	2.65E-02	5.16E-02
589	488804.24	3861151.87	0.00533	0.0037	0.00326	0.01588	0.001	0.009	0.0035	0.0037	3.72E-02	6.83E-03	3.39E-07	5.59E-04	4.29E-04	8.81E-04	2.51E-02	2.52E-02	4.58E-02
590	488854.24	3861151.87	0.00536	0.00372	0.00325	0.01782	0.001	0.009	0.0036	0.00372	3.74E-02	6.87E-03	3.38E-07	6.27E-04	4.29E-04	8.77E-04	2.53E-02	2.53E-02	4.62E-02
591	489129.49	3861187.55	0.00531	0.00384	0.00282	0.08085	0.001	0.009	0.0037	0.00384	3.70E-02	7.09E-03	2.94E-07	2.85E-03	4.23E-04	8.24E-04	2.64E-02	2.61E-02	4.85E-02
592	489179.49	3861187.55	0.00535	0.00388	0.00274	0.21916	0.001	0.009	0.0038	0.00388	3.73E-02	7.17E-03	2.85E-07	7.71E-03	4.29E-04	8.24E-04	2.66E-02	2.64E-02	5.37E-02
593	488804.24	3861201.87	0.00493	0.00363	0.00314	0.01577	0.001	0.009	0.0035	0.00363	3.44E-02	6.70E-03	3.27E-07	5.55E-04	4.20E-04	8.17E-04	2.46E-02	2.47E-02	4.28E-02
594	488854.24	3861201.87	0.00495	0.00365	0.00311	0.01773	0.001	0.009	0.0035	0.00365	3.45E-02	6.74E-03	3.24E-07	6.24E-04	4.20E-04	8.13E-04	2.48E-02	2.48E-02	4.31E-02
595	489129.49	3861237.55	0.00494	0.00377	0.00272	0.08045	0.001	0.008	0.0037	0.00377	3.44E-02	6.96E-03	2.83E-07	2.83E-03	4.14E-04	7.73E-04	2.59E-02	2.56E-02	4.56E-02
596	489179.49	3861237.55	0.00498	0.0038	0.00264	0.22149	0.001	0.008	0.0037	0.0038	3.47E-02	7.02E-03	2.75E-07	7.80E-03	4.14E-04	7.71E-04	2.61E-02	2.58E-02	5.10E-02
597	488804.24	3861251.87	0.00459	0.00356	0.00303	0.01566	0.001	0.008	0.0034	0.00356	3.20E-02	6.58E-03	3.15E-07	5.51E-04	4.10E-04	7.64E-04	2.42E-02	2.42E-02	4.03E-02
598	488854.24	3861251.87	0.00462	0.00358	0.00298	0.01764	0.001	0.008	0.0034	0.00358	3.22E-02	6.61E-03	3.10E-07	6.21E-04	4.10E-04	7.61E-04	2.43E-02	2.43E-02	4.06E-02
599	488804.24	3861301.87	0.00431	0.0035	0.0029	0.01558	0.001	0.008	0.0033	0.0035	3.00E-02	6.46E-03	3.02E-07	5.48E-04	4.04E-04	7.16E-04	2.37E-02	2.38E-02	3.80E-02
600	488854.24	3861301.87	0.00433	0.00352	0.00286	0.01755	0.001	0.008	0.0034	0.00352	3.02E-02	6.50E-03	2.98E-07	6.18E-04	4.04E-04	7.15E-04	2.39E-02	2.39E-02	3.84E-02
601	490943.5	3860181.97	0.01809	0.02819	0.0075	0.03222	0.004	0.027	0.0281	0.02819	1.26E-01	5.21E-02	7.81E-07	1.13E-03	1.25E-03	2.51E-03	1.99E-01	1.92E-01	1.90E-01
602	490993.5	3860181.97	0.01849	0.03177	0.00753	0.03305	0.004	0.027	0.0318	0.03177	1.29E-01	5.87E-02	7.84E-07	1.16E-03	1.25E-03	2.57E-03	2.25E-01	2.16E-01	2.02E-01
603	491043.5	3860181.97	0.01915	0.03669	0.00757	0.03398	0.004	0.028	0.0369	0.03669	1.34E-01	6.78E-02	7.88E-07	1.20E-03	1.25E-03	2.65E-03	2.62E-01	2.49E-01	2.18E-01
604	491093.5	3860181.97	0.0203	0.0437	0.00761	0.03493	0.004	0.029	0.0443	0.0437	1.42E-01	8.07E-02	7.92E-07	1.23E-03	1.25E-03	2.73E-03	3.14E-01	2.97E-01	2.44E-01
605	490943.5	3860231.97	0.01683	0.02379	0.00683	0.02862	0.004	0.024	0.0236	0.02379	1.17E-01	4.39E-02	7.11E-07	1.01E-03	1.21E-03	2.26E-03	1.67E-01	1.62E-01	1.71E-01
606	490993.5	3860231.97	0.01706	0.02644	0.00686	0.02921	0.004	0.025	0.0264	0.02644	1.19E-01	4.88E-02	7.14E-07	1.03E-03	1.22E-03	2.32E-03	1.87E-01	1.80E-01	1.79E-01
607	491043.5	3860231.97	0.01742	0.02967	0.00686	0.02965	0.004	0.025	0.0297	0.02967	1.21E-01	5.48E-02	7.14E-07	1.04E-03	1.22E-03	2.36E-03	2.10E-01	2.02E-01	1.89E-01
608	491093.5	3860231.97	0.01809	0.03405	0.00687	0.03014	0.004	0.026	0.0342	0.03405	1.26E-01	6.29E-02	7.15E-07	1.06E-03	1.22E-03	2.41E-03	2.42E-01	2.32E-01	2.04E-01
609	490943.5	3860281.97	0.01576	0.02065	0.00629	0.02587	0.004	0.022	0.0205	0.02065	1.10E-01	3.81E-02	6.55E-07	9.11E-04	1.17E-03	2.08E-03	1.45E-01	1.40E-01	1.57E-01
610	490993.5	3860281.97	0.01586	0.02261	0.00629	0.02618	0.004	0.022	0.0225	0.02261	1.11E-01	4.18E-02	6.55E-07	9.21E-04	1.17E-03	2.11E-03	1.59E-01	1.54E-01	1.62E-01
611	491043.5	3860281.97	0.01604	0.02496	0.00628	0.02643	0.004	0.023	0.0248	0.02496	1.12E-01	4.61E-02	6.54E-07	9.30E-04	1.18E-03	2.14E-03	1.76E-01	1.70E-01	1.68E-01
612	491093.5	3860281.97	0.01637	0.02798	0.00628	0.02669	0.004	0.023	0.0279	0.02798	1.14E-01	5.17E-02	6.54E-07	9.39E-04	1.18E-03	2.18E-03	1.98E-01	1.90E-01	1.78E-01
613	490943.5	3860331.97	0.0148	0.01829	0.00586	0.02373	0.004	0.02	0.0181	0.01829	1.03E-01	3.38E-02	6.10E-07	8.35E-04	1.13E-03	1.92E-03	1.28E-01	1.24E-01	1.45E-01
614	490993.5	3860331.97	0.01479	0.01973	0.00581	0.02381	0.004	0.021	0.0195	0.01973	1.03E-01	3.64E-02	6.05E-07	8.38E-04	1.13E-03	1.94E-03	1.38E-01	1.34E-01	1.48E-01
615	491043.5	3860331.97	0.01485	0.0215	0.00579	0.02392	0.004	0.021	0.0213	0.0215	1.04E-01	3.97E-02	6.03E-07	8.42E-04	1.14E-03	1.96E-03	1.51E-01	1.46E-01	1.52E-01
616	491093.5	3860331.97	0.01498	0.0237	0.00578	0.02405	0.004	0.021	0.0235	0.0237	1.04E-01	4.38E-02	6.02E-07	8.46E-04	1.14E-03	1.99E-03	1.67E-01	1.61E-01	1.58E-01
617	490086.72	3859935.12	0.02538	0.01815	0.01518	0.03748	0.005	0.028	0.0178	0.01815	1.77E-01	3.35E-02	1.58E-06	1.32E-03	1.65E-03	2.68E-03	1.26E-01	1.23E-01	2.19E-01
618	490136.72	3859935.12	0.02487	0.01931	0.01514	0.03763	0.005	0.029	0.0189	0.01931	1.73E-01	3.57E-02	1.58E-06	1.32E-03	1.61E-03	2.70E-03	1.34E-01	1.31E-01	2.18E-01
619	490186.72	3859935.12	0.02443	0.02062	0.015	0.038	0.005	0.029	0.0202	0.02062	1.70E-01	3.81E-02	1.56E-06	1.34E-03	1.57E-03	2.74E-03	1.43E-01	1.40E-01	2.17E-01
620	490236.72	3859935.12	0.02404	0.02213	0.01485	0.0386	0.005	0.03	0.0217	0.02213	1.68E-01	4.09E-02	1.55E-06	1.36E-03	1.53E-03	2.79E-03	1.54E-01	1.50E-01	2.18E-01
621	490286.72	3859935.12	0.0237	0.02383	0.01464	0.03938	0.005	0.03	0.0234	0.02383	1.65E-01	4.40E-02	1.52E-06	1.39E-03	1.50E-03	2.85E-03	1.66E-01	1.62E-01	2.19E-01
622	490336.72	3859935.12	0.02342	0.02582	0.01438	0.04041	0.005	0.031	0.0253	0.02582	1.63E-01	4.77E-02	1.50E-06	1.42E-03	1.49E-03	2.93E-03	1.80E-01	1.76E-01	2.21E-01
623	490386.72	3859935.12	0.02321	0.02823	0.01412	0.04178	0.005	0.032	0.0277	0.02823	1.62E-01	5.21E-02	1.47E-06	1.47E-03	1.47E-03	3.03E-03	1.96E-01	1.92E-01	2.24E-01
624	490436.72	3859935.12	0.02308	0.03111	0.01389	0.04349	0.005	0.034	0.0305	0.03111	1.61E-01	5.75E-02	1.45E-06	1.53E-03	1.46E-03	3.15E-03	2.16E-01	2.12E-01	2.29E-01
625	490486.72	3859935.12	0.02306	0.0347	0.01377	0.04567	0.005	0.035	0.034	0.0347	1.61E-01	6.41E-02	1.43E-06	1.61E-03	1.45E-03	3.30E-03	2.41E-01	2.36E-01	2.36E-01
626	490536.72	3859935.12	0.02319	0.03959	0.01384	0.0487	0.005	0.037	0.0388	0.03959	1.62E-01	7.31E-02	1.44E-06	1.71E-03	1.46E-03	3.50E-03	2.75E-01	2.69E-01	2.47E-01
627	490586.72	3859935.12	0.02349	0.04614	0.014	0.05262	0.005	0.04	0.045	0.04614	1.64E-01	8.52E-02	1.46E-06	1.85E-03	1.47E-03	3.77E-03	3.19E-01	3.14E-01	2.61E-01
628	490636.72	3859935.12	0.02398	0.05465	0.01418	0.05728	0.005	0.044	0.0531	0.05465	1.67E-01	1.01E-01	1.48E-06	2.02E-03	1.47E-03	4.10E-03	3.76E-01	3.72E-01	2.80E-01
629	490686.72	3859935.12	0.02489	0.06778	0.01453	0.06397	0.005	0.049	0.0653	0.06778	1.74E-01	1.25E-01	1.51E-06	2.25E-03	1.48E-03	4.57E-03	4.63E-01	4.61E-01	3.09E-01
630	490736.72	3859935.12	0.02641	0.08668	0.01485	0.07231	0.005	0.055	0.0827	0.08668	1.84E-01	1.60E-01	1.55E-06	2.55E-03	1.49E-03	5.20E-03	5.86E-01	5.89E-01	3.50E-01
631	490086.72	3859985.12	0.02488	0.01594	0.013	0.03539	0.005	0.027	0.0156	0.01594	1.73E-01	2.94E-02	1.35E-06	1.25E-03	1.64E-03	2.55E-03	1.11E-01	1.08E-01	2.11E-01
632	490136.72	3859985.12	0.02432	0.01678	0.01306	0.03529	0.005	0.027	0.0165	0.01678	1.70E-01	3.10E-02	1.36E-06	1.24E-03	1.59E-03	2.56E-03	1.17E-01	1.14E-01	2.08E-01
633	490186.72	3859985.12	0.02382	0.01776	0.01302	0.03541	0.005	0.027	0.0174	0.01776	1.66E-01	3.28E-02	1.36E-06	1.25E-03	1.55E-03	2.58E-03	1.23E-01	1.21E-01	2.07E-01
634	490236.72	3859985.12	0.02338	0.01887	0.01295	0.03573	0.005	0.028	0.0185	0.01887	1.63E-01	3.49E-02	1.35E-06	1.26E-03	1.51E-03	2.62E-03	1.31E-01	1.28E-01	2.06E-01

635	490286.72	3859985.12	0.02298	0.02007	0.01283	0.03617	0.005	0.028	0.0197	0.02007	1.60E-01	3.71E-02	1.34E-06	1.27E-03	1.48E-03	2.65E-03	1.40E-01	1.36E-01	2.06E-01
636	490336.72	3859985.12	0.02263	0.02144	0.01268	0.03678	0.005	0.029	0.021	0.02144	1.58E-01	3.96E-02	1.32E-06	1.29E-03	1.45E-03	2.70E-03	1.49E-01	1.46E-01	2.06E-01
637	490386.72	3859985.12	0.02232	0.02295	0.01245	0.03752	0.005	0.029	0.0225	0.02295	1.56E-01	4.24E-02	1.30E-06	1.32E-03	1.43E-03	2.76E-03	1.59E-01	1.56E-01	2.07E-01
638	490436.72	3859985.12	0.02209	0.02477	0.01222	0.03855	0.005	0.03	0.0243	0.02477	1.54E-01	4.57E-02	1.27E-06	1.36E-03	1.42E-03	2.84E-03	1.72E-01	1.68E-01	2.09E-01
639	490486.72	3859985.12	0.02194	0.02696	0.01203	0.03988	0.005	0.031	0.0264	0.02696	1.53E-01	4.98E-02	1.25E-06	1.40E-03	1.41E-03	2.93E-03	1.87E-01	1.83E-01	2.12E-01
640	490536.72	3859985.12	0.02189	0.02969	0.01193	0.04164	0.005	0.032	0.0291	0.02969	1.53E-01	5.48E-02	1.24E-06	1.47E-03	1.41E-03	3.05E-03	2.06E-01	2.02E-01	2.18E-01
641	490586.72	3859985.12	0.02196	0.03313	0.01194	0.04387	0.005	0.034	0.0324	0.03313	1.53E-01	6.12E-02	1.24E-06	1.54E-03	1.41E-03	3.21E-03	2.30E-01	2.25E-01	2.25E-01
642	490636.72	3859985.12	0.02218	0.03753	0.01203	0.04669	0.005	0.036	0.0367	0.03753	1.55E-01	6.93E-02	1.25E-06	1.64E-03	1.42E-03	3.40E-03	2.60E-01	2.55E-01	2.35E-01
643	490686.72	3859985.12	0.02263	0.04346	0.01224	0.05041	0.005	0.039	0.0423	0.04346	1.58E-01	8.03E-02	1.27E-06	1.77E-03	1.43E-03	3.66E-03	3.00E-01	2.96E-01	2.49E-01
644	490736.72	3859985.12	0.02336	0.05084	0.01239	0.05434	0.005	0.042	0.0493	0.05084	1.63E-01	9.39E-02	1.29E-06	1.91E-03	1.44E-03	3.94E-03	3.49E-01	3.46E-01	2.68E-01
645	490786.72	3859985.12	0.02471	0.06121	0.01256	0.05908	0.005	0.046	0.0589	0.06121	1.72E-01	1.13E-01	1.31E-06	2.08E-03	1.44E-03	4.29E-03	4.17E-01	4.16E-01	2.94E-01
646	490086.72	3860035.12	0.02439	0.01425	0.01125	0.03368	0.005	0.026	0.014	0.01425	1.70E-01	2.63E-02	1.17E-06	1.19E-03	1.64E-03	2.44E-03	9.88E-02	9.69E-02	2.04E-01
647	490136.72	3860035.12	0.02379	0.01491	0.01141	0.03342	0.005	0.026	0.0146	0.01491	1.66E-01	2.75E-02	1.19E-06	1.18E-03	1.59E-03	2.44E-03	1.04E-01	1.01E-01	2.01E-01
648	490186.72	3860035.12	0.02325	0.01565	0.01142	0.03332	0.005	0.026	0.0153	0.01565	1.62E-01	2.89E-02	1.19E-06	1.17E-03	1.54E-03	2.45E-03	1.09E-01	1.06E-01	1.98E-01
649	490236.72	3860035.12	0.02276	0.01647	0.01136	0.03336	0.005	0.026	0.0162	0.01647	1.59E-01	3.04E-02	1.18E-06	1.17E-03	1.49E-03	2.47E-03	1.14E-01	1.12E-01	1.97E-01
650	490286.72	3860035.12	0.02231	0.01736	0.01127	0.03352	0.005	0.027	0.017	0.01736	1.56E-01	3.21E-02	1.17E-06	1.18E-03	1.46E-03	2.49E-03	1.21E-01	1.18E-01	1.95E-01
651	490336.72	3860035.12	0.02193	0.01839	0.01122	0.03389	0.005	0.027	0.018	0.01839	1.53E-01	3.40E-02	1.17E-06	1.19E-03	1.43E-03	2.52E-03	1.28E-01	1.25E-01	1.95E-01
652	490386.72	3860035.12	0.02157	0.01946	0.01108	0.03429	0.004	0.027	0.0191	0.01946	1.50E-01	3.59E-02	1.15E-06	1.21E-03	1.40E-03	2.56E-03	1.35E-01	1.32E-01	1.94E-01
653	490436.72	3860035.12	0.02128	0.02072	0.01093	0.03489	0.004	0.028	0.0203	0.02072	1.48E-01	3.83E-02	1.14E-06	1.23E-03	1.38E-03	2.61E-03	1.44E-01	1.41E-01	1.95E-01
654	490486.72	3860035.12	0.02105	0.02218	0.01075	0.03568	0.004	0.028	0.0217	0.02218	1.47E-01	4.10E-02	1.12E-06	1.26E-03	1.37E-03	2.67E-03	1.54E-01	1.51E-01	1.96E-01
655	490536.72	3860035.12	0.0209	0.02396	0.0106	0.03675	0.004	0.029	0.0235	0.02396	1.46E-01	4.43E-02	1.10E-06	1.29E-03	1.37E-03	2.74E-03	1.66E-01	1.63E-01	1.99E-01
656	490586.72	3860035.12	0.02084	0.02604	0.01049	0.03804	0.004	0.03	0.0255	0.02604	1.45E-01	4.81E-02	1.09E-06	1.34E-03	1.36E-03	2.83E-03	1.81E-01	1.77E-01	2.03E-01
657	490636.72	3860035.12	0.02085	0.02844	0.01041	0.03948	0.004	0.031	0.0279	0.02844	1.45E-01	5.25E-02	1.08E-06	1.39E-03	1.36E-03	2.93E-03	1.97E-01	1.93E-01	2.08E-01
658	490686.72	3860035.12	0.02102	0.03161	0.01046	0.04143	0.004	0.033	0.031	0.03161	1.47E-01	5.84E-02	1.09E-06	1.46E-03	1.37E-03	3.07E-03	2.19E-01	2.15E-01	2.15E-01
659	490736.72	3860035.12	0.0214	0.03584	0.01062	0.04406	0.004	0.035	0.0351	0.03584	1.49E-01	6.62E-02	1.11E-06	1.55E-03	1.38E-03	3.25E-03	2.49E-01	2.44E-01	2.26E-01
660	490786.72	3860035.12	0.02196	0.04076	0.01071	0.04659	0.004	0.037	0.0399	0.04076	1.53E-01	7.53E-02	1.11E-06	1.64E-03	1.38E-03	3.43E-03	2.83E-01	2.77E-01	2.40E-01
661	490836.72	3860035.12	0.02282	0.04727	0.01082	0.04946	0.004	0.039	0.0463	0.04727	1.59E-01	8.73E-02	1.13E-06	1.74E-03	1.39E-03	3.64E-03	3.28E-01	3.21E-01	2.60E-01
662	490086.72	3860085.12	0.02394	0.01295	0.00989	0.03228	0.005	0.025	0.0127	0.01295	1.67E-01	2.39E-02	1.03E-06	1.14E-03	1.64E-03	2.35E-03	8.98E-02	8.81E-02	1.98E-01
663	490136.72	3860085.12	0.02326	0.01345	0.01006	0.03185	0.005	0.025	0.0132	0.01345	1.62E-01	2.48E-02	1.05E-06	1.12E-03	1.58E-03	2.34E-03	9.33E-02	9.15E-02	1.94E-01
664	490186.72	3860085.12	0.0227	0.01406	0.01015	0.03163	0.005	0.025	0.0138	0.01406	1.58E-01	2.60E-02	1.06E-06	1.11E-03	1.53E-03	2.35E-03	9.76E-02	9.56E-02	1.91E-01
665	490236.72	3860085.12	0.02217	0.01469	0.01011	0.03149	0.005	0.025	0.0144	0.01469	1.55E-01	2.71E-02	1.05E-06	1.11E-03	1.49E-03	2.35E-03	1.02E-01	9.99E-02	1.89E-01
666	490286.72	3860085.12	0.02169	0.01538	0.01004	0.03146	0.005	0.025	0.0151	0.01538	1.51E-01	2.84E-02	1.05E-06	1.11E-03	1.44E-03	2.36E-03	1.07E-01	1.05E-01	1.87E-01
667	490336.72	3860085.12	0.02126	0.01613	0.00996	0.03154	0.005	0.025	0.0158	0.01613	1.48E-01	2.98E-02	1.04E-06	1.11E-03	1.41E-03	2.38E-03	1.12E-01	1.10E-01	1.85E-01
668	490386.72	3860085.12	0.02088	0.01696	0.00989	0.03174	0.004	0.026	0.0166	0.01696	1.46E-01	3.13E-02	1.03E-06	1.12E-03	1.38E-03	2.40E-03	1.18E-01	1.15E-01	1.84E-01
669	490436.72	3860085.12	0.02054	0.01789	0.00981	0.03206	0.004	0.026	0.0175	0.01789	1.43E-01	3.30E-02	1.02E-06	1.13E-03	1.36E-03	2.43E-03	1.24E-01	1.22E-01	1.84E-01
670	490486.72	3860085.12	0.02025	0.01893	0.00969	0.0325	0.004	0.026	0.0186	0.01893	1.41E-01	3.50E-02	1.01E-06	1.14E-03	1.34E-03	2.46E-03	1.31E-01	1.29E-01	1.84E-01
671	490536.72	3860085.12	0.02004	0.02018	0.00957	0.03314	0.004	0.027	0.0198	0.02018	1.40E-01	3.73E-02	9.96E-07	1.17E-03	1.33E-03	2.51E-03	1.40E-01	1.37E-01	1.85E-01
672	490586.72	3860085.12	0.01989	0.02161	0.00944	0.03394	0.004	0.027	0.0212	0.02161	1.39E-01	3.99E-02	9.83E-07	1.19E-03	1.32E-03	2.57E-03	1.50E-01	1.47E-01	1.87E-01
673	490636.72	3860085.12	0.0198	0.02325	0.00932	0.03482	0.004	0.028	0.0228	0.02325	1.38E-01	4.29E-02	9.70E-07	1.23E-03	1.32E-03	2.63E-03	1.62E-01	1.58E-01	1.90E-01
674	490686.72	3860085.12	0.01981	0.02527	0.00927	0.03596	0.004	0.029	0.0248	0.02527	1.38E-01	4.67E-02	9.65E-07	1.27E-03	1.32E-03	2.71E-03	1.76E-01	1.72E-01	1.94E-01
675	490736.72	3860085.12	0.01993	0.02776	0.00929	0.03735	0.004	0.03	0.0273	0.02776	1.39E-01	5.13E-02	9.67E-07	1.31E-03	1.33E-03	2.81E-03	1.93E-01	1.89E-01	2.00E-01
676	490786.72	3860085.12	0.02017	0.0308	0.00935	0.03894	0.004	0.031	0.0304	0.0308	1.41E-01	5.69E-02	9.73E-07	1.37E-03	1.33E-03	2.92E-03	2.15E-01	2.09E-01	2.09E-01
677	490836.72	3860085.12	0.02052	0.03444	0.00939	0.04056	0.004	0.032	0.034	0.03444	1.43E-01	6.36E-02	9.78E-07	1.43E-03	1.34E-03	3.04E-03	2.41E-01	2.34E-01	2.19E-01
678	490086.72	3860135.12	0.02334	0.0118	0.00859	0.03096	0.005	0.024	0.0115	0.0118	1.63E-01	2.18E-02	8.94E-07	1.09E-03	1.62E-03	2.26E-03	8.17E-02	8.02E-02	1.91E-01
679	490136.72	3860135.12	0.02269	0.01225	0.00892	0.0305	0.005	0.024	0.012	0.01225	1.58E-01	2.26E-02	9.29E-07	1.07E-03	1.57E-03	2.25E-03	8.50E-02	8.33E-02	1.87E-01
680	490186.72	3860135.12	0.0221	0.01275	0.00906	0.03016	0.005	0.024	0.0125	0.01275	1.54E-01	2.35E-02	9.43E-07	1.06E-03	1.52E-03	2.25E-03	8.85E-02	8.67E-02	1.84E-01
681	490236.72	3860135.12	0.02155	0.01326	0.00905	0.02989	0.005	0.024	0.013	0.01326	1.50E-01	2.45E-02	9.42E-07	1.05E-03	1.48E-03	2.25E-03	9.22E-02	9.02E-02	1.82E-01
682	490286.72	3860135.12	0.02105	0.01383	0.009	0.02974	0.005	0.024	0.0136	0.01383	1.47E-01	2.55E-02	9.37E-07	1.05E-03	1.43E-03	2.25E-03	9.61E-02	9.40E-02	1.79E-01
683	490336.72	3860135.12	0.0206	0.01444	0.00895	0.02968	0.004	0.024	0.0142	0.01444	1.44E-01	2.67E-02	9.32E-07	1.04E-03	1.39E-03	2.26E-03	1.00E-01	9.82E-02	1.77E-01
684	490386.72	3860135.12	0.02019	0.01509	0.00888	0.02971	0.004	0.024	0.0148	0.01509	1.41E-01	2.79E-02	9.24E-07	1.05E-03	1.36E-03	2.27E-03	1.05E-01	1.03E-01	1.76E-01
685	490436.72	3860135.12	0.01982	0.0158	0.00883	0.02982	0.004	0.024	0.0155	0.0158	1.38E-01	2.92E-02	9.19E-07	1.05E-03	1.33E-03	2.28E-03	1.10E-01	1.07E-01	1.74E-01
686	490486.72	3860135.12	0.0195	0.01661	0.00877	0.03005	0.004	0.024	0.0163	0.01661	1.36E-01	3.07E-02	9.13E-07	1.06E-03	1.31E-03	2.30E-03	1.15E-01	1.13E-01	1.74E-01
687	490536.72	3860135.12	0.01924	0.01756	0.00871	0.03043	0.004	0.025	0.0172	0.01756	1.34E-01	3.24E-02	9.07E-07	1.07E-03	1.29E-03	2.33E-03	1.22E-01	1.19E-01	1.74E-01
688	490586.72	3860135.12	0.01903	0.01861	0.00861	0.03089	0.004	0.025	0.0183	0.01861	1.33E-01	3.44E-02	8.96E-07	1.09E-03	1.28E-03	2.37E-03	1.29E-01	1.27E-01	1.75E-01
689	490636.72	3860135.12	0.01887	0.01981	0.00849	0.03143	0.004	0.026	0.0195	0.01981	1.32E-01	3.66E-02	8.84E-07	1.11E-03	1.28E-03	2.41E-03	1.38E-01	1.35E-01	1.76E-01
690	490686.72	3860135.12	0.01878	0.02121	0.00838	0.03205	0.004	0.026	0.0209	0.02121	1.31E-01	3.92E-02	8.72E-07	1.13E-03	1.28E-03	2.45E-03	1.48E-01	1.44E-01	1.78E-01
691	490736.72	3860135.12	0.01876	0.02288	0.00831	0.03282	0.004	0.027	0.0225	0.02288	1.31E-01	4.23E-02	8.65E-07	1.16E-03	1.28E-03	2.51E-03	1.60E-01	1.56E-01	1.82E-01
692	490786.72	3860135.12	0.01882	0.02495	0.00831	0.0338	0.004	0.027	0.0246	0.02495	1.31E-01	4.61E-02	8.65E-07	1.19E-03	1.28E-03	2.58E-03	1.74E-01	1.70E-01	1.87E-01

693	490836.72	3860135.12	0.01895	0.02733	0.00831	0.03475	0.004	0.028	0.0271	0.02733	1.32E-01	5.05E-02	8.65E-07	1.22E-03	1.29E-03	2.65E-03	1.92E-01	1.86E-01	1.94E-01
694	490086.72	3860185.12	0.02273	0.01088	0.00757	0.02985	0.005	0.023	0.0106	0.01088	1.58E-01	2.01E-02	7.88E-07	1.05E-03	1.61E-03	2.18E-03	7.53E-02	7.40E-02	1.85E-01
695	490136.72	3860185.12	0.02208	0.01127	0.00795	0.02933	0.005	0.023	0.011	0.01127	1.54E-01	2.08E-02	8.28E-07	1.03E-03	1.56E-03	2.17E-03	7.82E-02	7.66E-02	1.81E-01
696	490186.72	3860185.12	0.02147	0.01169	0.00814	0.02891	0.005	0.023	0.0115	0.01169	1.50E-01	2.16E-02	8.47E-07	1.02E-03	1.52E-03	2.16E-03	8.11E-02	7.95E-02	1.78E-01
697	490236.72	3860185.12	0.0209	0.01212	0.00817	0.02856	0.005	0.023	0.0119	0.01212	1.46E-01	2.24E-02	8.51E-07	1.01E-03	1.47E-03	2.16E-03	8.42E-02	8.24E-02	1.74E-01
698	490286.72	3860185.12	0.02038	0.01259	0.00814	0.0283	0.005	0.023	0.0124	0.01259	1.42E-01	2.33E-02	8.47E-07	9.96E-04	1.43E-03	2.15E-03	8.75E-02	8.56E-02	1.72E-01
699	490336.72	3860185.12	0.01991	0.01309	0.00808	0.02812	0.004	0.023	0.0129	0.01309	1.39E-01	2.42E-02	8.41E-07	9.90E-04	1.38E-03	2.15E-03	9.10E-02	8.90E-02	1.70E-01
700	490386.72	3860185.12	0.01949	0.01363	0.00803	0.02803	0.004	0.023	0.0134	0.01363	1.36E-01	2.52E-02	8.36E-07	9.87E-04	1.35E-03	2.15E-03	9.49E-02	9.27E-02	1.68E-01
701	490436.72	3860185.12	0.0191	0.01422	0.00799	0.02802	0.004	0.023	0.014	0.01422	1.33E-01	2.63E-02	8.32E-07	9.86E-04	1.31E-03	2.16E-03	9.90E-02	9.67E-02	1.66E-01
702	490486.72	3860185.12	0.01876	0.01487	0.00795	0.02808	0.004	0.023	0.0146	0.01487	1.31E-01	2.75E-02	8.28E-07	9.88E-04	1.29E-03	2.17E-03	1.03E-01	1.01E-01	1.65E-01
703	490536.72	3860185.12	0.01847	0.0156	0.00793	0.02825	0.004	0.023	0.0153	0.0156	1.29E-01	2.88E-02	8.26E-07	9.94E-04	1.27E-03	2.18E-03	1.09E-01	1.06E-01	1.64E-01
704	490586.72	3860185.12	0.01822	0.01645	0.00789	0.02853	0.004	0.023	0.0162	0.01645	1.27E-01	3.04E-02	8.21E-07	1.00E-03	1.25E-03	2.21E-03	1.14E-01	1.12E-01	1.64E-01
705	490636.72	3860185.12	0.01801	0.01737	0.00779	0.0288	0.004	0.024	0.0171	0.01737	1.26E-01	3.21E-02	8.11E-07	1.01E-03	1.24E-03	2.23E-03	1.21E-01	1.18E-01	1.65E-01
706	490686.72	3860185.12	0.01786	0.01845	0.0077	0.02919	0.004	0.024	0.0181	0.01845	1.25E-01	3.41E-02	8.02E-07	1.03E-03	1.24E-03	2.26E-03	1.29E-01	1.25E-01	1.66E-01
707	490736.72	3860185.12	0.01775	0.01965	0.00759	0.02958	0.004	0.024	0.0194	0.01965	1.24E-01	3.63E-02	7.90E-07	1.04E-03	1.23E-03	2.29E-03	1.37E-01	1.34E-01	1.68E-01
708	490786.72	3860185.12	0.01771	0.02112	0.00753	0.03011	0.004	0.025	0.0208	0.02112	1.23E-01	3.90E-02	7.84E-07	1.06E-03	1.24E-03	2.33E-03	1.48E-01	1.44E-01	1.71E-01
709	490836.72	3860185.12	0.01772	0.02287	0.0075	0.0307	0.004	0.025	0.0226	0.02287	1.24E-01	4.22E-02	7.81E-07	1.08E-03	1.24E-03	2.38E-03	1.60E-01	1.56E-01	1.75E-01
710	490086.72	3860235.12	0.02207	0.01013	0.00674	0.0289	0.005	0.022	0.0099	0.01013	1.54E-01	1.87E-02	7.02E-07	1.02E-03	1.60E-03	2.11E-03	7.01E-02	6.89E-02	1.78E-01
711	490136.72	3860235.12	0.02139	0.01046	0.0071	0.02831	0.005	0.022	0.0102	0.01046	1.49E-01	1.93E-02	7.39E-07	9.96E-04	1.56E-03	2.09E-03	7.24E-02	7.11E-02	1.74E-01
712	490186.72	3860235.12	0.02078	0.01081	0.00735	0.02782	0.005	0.022	0.0106	0.01081	1.45E-01	2.00E-02	7.65E-07	9.79E-04	1.51E-03	2.08E-03	7.50E-02	7.35E-02	1.71E-01
713	490236.72	3860235.12	0.02021	0.01118	0.00743	0.02741	0.005	0.022	0.011	0.01118	1.41E-01	2.06E-02	7.74E-07	9.65E-04	1.47E-03	2.07E-03	7.77E-02	7.60E-02	1.68E-01
714	490286.72	3860235.12	0.01968	0.01158	0.00742	0.02707	0.005	0.022	0.0114	0.01158	1.37E-01	2.14E-02	7.72E-07	9.53E-04	1.42E-03	2.06E-03	8.05E-02	7.87E-02	1.65E-01
715	490336.72	3860235.12	0.01921	0.01201	0.00737	0.02681	0.004	0.022	0.0118	0.01201	1.34E-01	2.22E-02	7.67E-07	9.44E-04	1.38E-03	2.06E-03	8.35E-02	8.17E-02	1.62E-01
716	490386.72	3860235.12	0.01877	0.01247	0.00732	0.02662	0.004	0.022	0.0123	0.01247	1.31E-01	2.30E-02	7.62E-07	9.37E-04	1.34E-03	2.05E-03	8.68E-02	8.48E-02	1.60E-01
717	490436.72	3860235.12	0.01838	0.01297	0.00728	0.02651	0.004	0.022	0.0128	0.01297	1.28E-01	2.40E-02	7.58E-07	9.33E-04	1.30E-03	2.05E-03	9.03E-02	8.82E-02	1.59E-01
718	490486.72	3860235.12	0.01802	0.0135	0.00725	0.02645	0.004	0.022	0.0133	0.0135	1.26E-01	2.49E-02	7.55E-07	9.31E-04	1.27E-03	2.05E-03	9.41E-02	9.18E-02	1.57E-01
719	490536.72	3860235.12	0.01771	0.01411	0.00724	0.02648	0.004	0.022	0.0139	0.01411	1.23E-01	2.61E-02	7.54E-07	9.32E-04	1.25E-03	2.06E-03	9.83E-02	9.59E-02	1.56E-01
720	490586.72	3860235.12	0.01744	0.01479	0.00722	0.02657	0.004	0.022	0.0145	0.01479	1.22E-01	2.73E-02	7.52E-07	9.35E-04	1.23E-03	2.07E-03	1.03E-01	1.01E-01	1.56E-01
721	490636.72	3860235.12	0.0172	0.01554	0.00718	0.02671	0.004	0.022	0.0153	0.01554	1.20E-01	2.87E-02	7.47E-07	9.40E-04	1.21E-03	2.09E-03	1.08E-01	1.06E-01	1.56E-01
722	490686.72	3860235.12	0.01701	0.0164	0.00712	0.0269	0.004	0.022	0.0161	0.0164	1.19E-01	3.03E-02	7.41E-07	9.47E-04	1.21E-03	2.10E-03	1.14E-01	1.12E-01	1.56E-01
723	490736.72	3860235.12	0.01686	0.01737	0.00704	0.02712	0.004	0.023	0.0171	0.01737	1.18E-01	3.21E-02	7.33E-07	9.55E-04	1.20E-03	2.13E-03	1.21E-01	1.18E-01	1.57E-01
724	490786.72	3860235.12	0.01675	0.01848	0.00695	0.02737	0.004	0.023	0.0182	0.01848	1.17E-01	3.41E-02	7.24E-07	9.63E-04	1.20E-03	2.15E-03	1.29E-01	1.26E-01	1.59E-01
725	490086.72	3860285.12	0.02131	0.00949	0.00604	0.02803	0.005	0.022	0.0093	0.00949	1.49E-01	1.75E-02	6.29E-07	9.87E-04	1.59E-03	2.03E-03	6.56E-02	6.45E-02	1.72E-01
726	490136.72	3860285.12	0.02064	0.00977	0.00638	0.0274	0.005	0.021	0.0096	0.00977	1.44E-01	1.80E-02	6.64E-07	9.64E-04	1.55E-03	2.02E-03	6.77E-02	6.64E-02	1.68E-01
727	490186.72	3860285.12	0.02002	0.01007	0.00665	0.02685	0.005	0.021	0.0099	0.01007	1.40E-01	1.86E-02	6.92E-07	9.45E-04	1.51E-03	2.00E-03	6.98E-02	6.85E-02	1.64E-01
728	490236.72	3860285.12	0.01946	0.0104	0.00679	0.0264	0.005	0.021	0.0102	0.0104	1.36E-01	1.92E-02	7.07E-07	9.29E-04	1.46E-03	1.99E-03	7.22E-02	7.07E-02	1.61E-01
729	490286.72	3860285.12	0.01894	0.01074	0.00681	0.026	0.005	0.021	0.0105	0.01074	1.32E-01	1.98E-02	7.09E-07	9.15E-04	1.42E-03	1.98E-03	7.46E-02	7.30E-02	1.58E-01
730	490336.72	3860285.12	0.01846	0.01111	0.00677	0.02567	0.004	0.021	0.0109	0.01111	1.29E-01	2.05E-02	7.05E-07	9.03E-04	1.37E-03	1.97E-03	7.73E-02	7.55E-02	1.55E-01
731	490386.72	3860285.12	0.01803	0.01151	0.00673	0.02542	0.004	0.021	0.0113	0.01151	1.26E-01	2.13E-02	7.01E-07	8.95E-04	1.33E-03	1.96E-03	8.01E-02	7.83E-02	1.53E-01
732	490436.72	3860285.12	0.01764	0.01193	0.00668	0.02521	0.004	0.021	0.0117	0.01193	1.23E-01	2.20E-02	6.95E-07	8.87E-04	1.29E-03	1.96E-03	8.32E-02	8.11E-02	1.51E-01
733	490486.72	3860285.12	0.01728	0.0124	0.00665	0.02507	0.004	0.021	0.0122	0.0124	1.20E-01	2.29E-02	6.92E-07	8.82E-04	1.26E-03	1.95E-03	8.64E-02	8.43E-02	1.50E-01
734	490536.72	3860285.12	0.01695	0.0129	0.00662	0.02497	0.004	0.021	0.0127	0.0129	1.18E-01	2.38E-02	6.89E-07	8.79E-04	1.23E-03	1.95E-03	9.00E-02	8.77E-02	1.48E-01
735	490586.72	3860285.12	0.01667	0.01346	0.00661	0.02493	0.004	0.021	0.0133	0.01346	1.16E-01	2.49E-02	6.88E-07	8.77E-04	1.21E-03	1.96E-03	9.40E-02	9.15E-02	1.48E-01
736	490636.72	3860285.12	0.01642	0.0141	0.00661	0.02494	0.004	0.021	0.0139	0.0141	1.14E-01	2.60E-02	6.88E-07	8.78E-04	1.19E-03	1.96E-03	9.83E-02	9.59E-02	1.47E-01
737	490686.72	3860285.12	0.01621	0.01481	0.00659	0.02502	0.004	0.021	0.0146	0.01481	1.13E-01	2.74E-02	6.86E-07	8.81E-04	1.17E-03	1.97E-03	1.03E-01	1.01E-01	1.47E-01
738	490736.72	3860285.12	0.01603	0.01561	0.00654	0.0251	0.004	0.021	0.0154	0.01561	1.12E-01	2.88E-02	6.81E-07	8.83E-04	1.17E-03	1.99E-03	1.09E-01	1.06E-01	1.47E-01
739	490786.72	3860285.12	0.01589	0.01653	0.00647	0.02523	0.004	0.021	0.0163	0.01653	1.11E-01	3.05E-02	6.74E-07	8.88E-04	1.16E-03	2.00E-03	1.15E-01	1.12E-01	1.48E-01
740	490086.72	3860335.12	0.02046	0.00895	0.00546	0.02725	0.005	0.021	0.0087	0.00895	1.43E-01	1.65E-02	5.68E-07	9.59E-04	1.58E-03	1.96E-03	6.19E-02	6.09E-02	1.65E-01
741	490136.72	3860335.12	0.01981	0.0092	0.00576	0.02658	0.005	0.021	0.009	0.0092	1.38E-01	1.70E-02	6.00E-07	9.36E-04	1.54E-03	1.94E-03	6.37E-02	6.26E-02	1.61E-01
742	490186.72	3860335.12	0.01921	0.00946	0.00604	0.02599	0.005	0.02	0.0093	0.00946	1.34E-01	1.75E-02	6.29E-07	9.15E-04	1.50E-03	1.92E-03	6.55E-02	6.43E-02	1.57E-01
743	490236.72	3860335.12	0.01866	0.00974	0.00623	0.02549	0.005	0.02	0.0095	0.00974	1.30E-01	1.80E-02	6.49E-07	8.97E-04	1.46E-03	1.91E-03	6.76E-02	6.62E-02	1.54E-01
744	490286.72	3860335.12	0.01815	0.01004	0.00628	0.02505	0.005	0.02	0.0098	0.01004	1.27E-01	1.85E-02	6.54E-07	8.82E-04	1.41E-03	1.89E-03	6.97E-02	6.83E-02	1.51E-01
745	490336.72	3860335.12	0.01768	0.01036	0.00626	0.02467	0.004	0.02	0.0102	0.01036	1.23E-01	1.91E-02	6.52E-07	8.68E-04	1.37E-03	1.88E-03	7.20E-02	7.04E-02	1.48E-01
746	490386.72	3860335.12	0.01726	0.0107	0.00622	0.02435	0.004	0.02	0.0105	0.0107	1.20E-01	1.98E-02	6.48E-07	8.57E-04	1.33E-03	1.87E-03	7.45E-02	7.28E-02	1.46E-01
747	490436.72	3860335.12	0.01687	0.01107	0.00617	0.02409	0.004	0.02	0.0109	0.01107	1.18E-01	2.04E-02	6.42E-07	8.48E-04	1.29E-03	1.87E-03	7.72E-02	7.53E-02	1.44E-01
748	490486.72	3860335.12	0.01652	0.01148	0.00613	0.02387	0.004	0.02	0.0113	0.01148	1.15E-01	2.12E-02	6.38E-07	8.40E-04	1.25E-03	1.86E-03	8.01E-02	7.81E-02	1.42E-01
749	490536.72	3860335.12	0.0162	0.01192	0.00611	0.02371	0.004	0.02	0.0118	0.01192	1.13E-01	2.20E-02	6.36E-07	8.35E-04	1.22E-03	1.86E-03	8.33E-02	8.11E-02	1.41E-01
750	490586.72	3860335.12	0.0159	0.0124	0.00609	0.02357	0.004	0.02	0.0122	0.0124	1.11E-01	2.29E-02	6.34E-07	8.30E-04	1.19E-03	1.85E-03	8.66E-02	8.43E-02	1.40E-01

751	490636.72	3860335.12	0.01565	0.01294	0.00609	0.02348	0.004	0.02	0.0128	0.01294	1.09E-01	2.39E-02	6.34E-07	8.26E-04	1.17E-03	1.86E-03	9.03E-02	8.80E-02	1.39E-01
752	490686.72	3860335.12	0.01542	0.01354	0.00609	0.02345	0.004	0.02	0.0133	0.01354	1.08E-01	2.50E-02	6.34E-07	8.25E-04	1.15E-03	1.86E-03	9.45E-02	9.21E-02	1.39E-01
753	490736.72	3860335.12	0.01523	0.01421	0.00608	0.02344	0.004	0.02	0.014	0.01421	1.06E-01	2.62E-02	6.33E-07	8.25E-04	1.14E-03	1.87E-03	9.93E-02	9.66E-02	1.39E-01
754	490786.72	3860335.12	0.01507	0.01499	0.00605	0.0235	0.004	0.02	0.0148	0.01499	1.05E-01	2.77E-02	6.30E-07	8.27E-04	1.13E-03	1.88E-03	1.05E-01	1.02E-01	1.39E-01
755	490086.72	3860385.12	0.01951	0.00849	0.00499	0.02654	0.005	0.02	0.0083	0.00849	1.36E-01	1.57E-02	5.19E-07	9.34E-04	1.56E-03	1.88E-03	5.88E-02	5.77E-02	1.57E-01
756	490136.72	3860385.12	0.01889	0.00871	0.00524	0.02583	0.005	0.02	0.0085	0.00871	1.32E-01	1.61E-02	5.46E-07	9.09E-04	1.53E-03	1.86E-03	6.04E-02	5.92E-02	1.53E-01
757	490186.72	3860385.12	0.01831	0.00893	0.0055	0.02521	0.005	0.02	0.0087	0.00893	1.28E-01	1.65E-02	5.73E-07	8.87E-04	1.49E-03	1.84E-03	6.19E-02	6.07E-02	1.50E-01
758	490236.72	3860385.12	0.01779	0.00918	0.00571	0.02467	0.005	0.019	0.009	0.00918	1.24E-01	1.70E-02	5.94E-07	8.68E-04	1.45E-03	1.83E-03	6.36E-02	6.24E-02	1.46E-01
759	490286.72	3860385.12	0.01731	0.00944	0.00581	0.0242	0.005	0.019	0.0093	0.00944	1.21E-01	1.74E-02	6.05E-07	8.52E-04	1.41E-03	1.81E-03	6.55E-02	6.42E-02	1.44E-01
760	490336.72	3860385.12	0.01686	0.00972	0.00582	0.02378	0.004	0.019	0.0095	0.00972	1.18E-01	1.80E-02	6.06E-07	8.37E-04	1.37E-03	1.80E-03	6.75E-02	6.61E-02	1.41E-01
761	490386.72	3860385.12	0.01645	0.01002	0.00578	0.02342	0.004	0.019	0.0098	0.01002	1.15E-01	1.85E-02	6.02E-07	8.24E-04	1.33E-03	1.79E-03	6.97E-02	6.81E-02	1.39E-01
762	490436.72	3860385.12	0.01608	0.01035	0.00574	0.0231	0.004	0.019	0.0102	0.01035	1.12E-01	1.91E-02	5.98E-07	8.13E-04	1.28E-03	1.78E-03	7.21E-02	7.04E-02	1.37E-01
763	490486.72	3860385.12	0.01574	0.0107	0.0057	0.02284	0.004	0.019	0.0105	0.0107	1.10E-01	1.98E-02	5.93E-07	8.04E-04	1.25E-03	1.77E-03	7.47E-02	7.28E-02	1.35E-01
764	490536.72	3860385.12	0.01543	0.01109	0.00567	0.02261	0.004	0.019	0.0109	0.01109	1.08E-01	2.05E-02	5.90E-07	7.96E-04	1.21E-03	1.77E-03	7.74E-02	7.54E-02	1.34E-01
765	490586.72	3860385.12	0.01514	0.01151	0.00565	0.02242	0.004	0.019	0.0114	0.01151	1.06E-01	2.13E-02	5.88E-07	7.89E-04	1.18E-03	1.76E-03	8.04E-02	7.83E-02	1.33E-01
766	490636.72	3860385.12	0.01488	0.01197	0.00564	0.02226	0.004	0.019	0.0118	0.01197	1.04E-01	2.21E-02	5.87E-07	7.83E-04	1.15E-03	1.76E-03	8.37E-02	8.14E-02	1.32E-01
767	490686.72	3860385.12	0.01466	0.01249	0.00565	0.02216	0.004	0.019	0.0123	0.01249	1.02E-01	2.31E-02	5.88E-07	7.80E-04	1.13E-03	1.76E-03	8.73E-02	8.49E-02	1.31E-01
768	490736.72	3860385.12	0.01445	0.01306	0.00564	0.02207	0.004	0.019	0.0129	0.01306	1.01E-01	2.41E-02	5.87E-07	7.77E-04	1.12E-03	1.76E-03	9.13E-02	8.88E-02	1.31E-01
769	490786.72	3860385.12	0.01427	0.0137	0.00563	0.02203	0.004	0.019	0.0135	0.0137	9.95E-02	2.53E-02	5.86E-07	7.75E-04	1.11E-03	1.77E-03	9.58E-02	9.32E-02	1.31E-01
770	490136.72	3860435.12	0.01789	0.0083	0.00479	0.02515	0.005	0.019	0.0081	0.0083	1.25E-01	1.53E-02	4.99E-07	8.85E-04	1.52E-03	1.78E-03	5.75E-02	5.64E-02	1.45E-01
771	490186.72	3860435.12	0.01736	0.0085	0.00504	0.02451	0.005	0.019	0.0083	0.0085	1.21E-01	1.57E-02	5.25E-07	8.63E-04	1.48E-03	1.76E-03	5.90E-02	5.78E-02	1.42E-01
772	490236.72	3860435.12	0.01687	0.00871	0.00525	0.02394	0.005	0.019	0.0085	0.00871	1.18E-01	1.61E-02	5.47E-07	8.43E-04	1.44E-03	1.75E-03	6.04E-02	5.92E-02	1.39E-01
773	490286.72	3860435.12	0.01641	0.00894	0.00539	0.02344	0.004	0.018	0.0088	0.00894	1.14E-01	1.65E-02	5.61E-07	8.25E-04	1.40E-03	1.73E-03	6.21E-02	6.08E-02	1.36E-01
774	490336.72	3860435.12	0.01599	0.00918	0.00542	0.02299	0.004	0.018	0.009	0.00918	1.11E-01	1.70E-02	5.64E-07	8.09E-04	1.36E-03	1.72E-03	6.38E-02	6.24E-02	1.34E-01
775	490386.72	3860435.12	0.01561	0.00945	0.00541	0.0226	0.004	0.018	0.0093	0.00945	1.09E-01	1.75E-02	5.63E-07	7.95E-04	1.32E-03	1.71E-03	6.57E-02	6.43E-02	1.32E-01
776	490436.72	3860435.12	0.01526	0.00973	0.00537	0.02226	0.004	0.018	0.0096	0.00973	1.06E-01	1.80E-02	5.59E-07	7.83E-04	1.28E-03	1.70E-03	6.78E-02	6.62E-02	1.30E-01
777	490486.72	3860435.12	0.01494	0.01004	0.00532	0.02195	0.004	0.018	0.0099	0.01004	1.04E-01	1.85E-02	5.54E-07	7.73E-04	1.24E-03	1.69E-03	7.01E-02	6.83E-02	1.28E-01
778	490536.72	3860435.12	0.01464	0.01038	0.00529	0.02168	0.004	0.018	0.0102	0.01038	1.02E-01	1.92E-02	5.51E-07	7.63E-04	1.21E-03	1.68E-03	7.25E-02	7.06E-02	1.27E-01
779	490586.72	3860435.12	0.01437	0.01075	0.00526	0.02144	0.004	0.018	0.0106	0.01075	1.00E-01	1.99E-02	5.48E-07	7.55E-04	1.17E-03	1.68E-03	7.51E-02	7.31E-02	1.26E-01
780	490636.72	3860435.12	0.01412	0.01115	0.00524	0.02124	0.004	0.018	0.011	0.01115	9.84E-02	2.06E-02	5.46E-07	7.48E-04	1.14E-03	1.67E-03	7.79E-02	7.58E-02	1.25E-01
781	490686.72	3860435.12	0.0139	0.0116	0.00524	0.02108	0.004	0.018	0.0115	0.0116	9.69E-02	2.14E-02	5.46E-07	7.42E-04	1.12E-03	1.67E-03	8.11E-02	7.89E-02	1.24E-01
782	490736.72	3860435.12	0.0137	0.0121	0.00525	0.02096	0.004	0.018	0.012	0.0121	9.55E-02	2.23E-02	5.47E-07	7.38E-04	1.10E-03	1.67E-03	8.47E-02	8.23E-02	1.24E-01
783	490786.72	3860435.12	0.01351	0.01265	0.00525	0.02085	0.003	0.018	0.0125	0.01265	9.42E-02	2.34E-02	5.47E-07	7.34E-04	1.08E-03	1.67E-03	8.85E-02	8.60E-02	1.24E-01
784	490136.72	3860485.12	0.01685	0.00796	0.00442	0.02455	0.005	0.018	0.0078	0.00796	1.17E-01	1.47E-02	4.60E-07	8.64E-04	1.50E-03	1.70E-03	5.52E-02	5.41E-02	1.37E-01
785	490186.72	3860485.12	0.01635	0.00814	0.00463	0.02389	0.005	0.018	0.008	0.00814	1.14E-01	1.50E-02	4.82E-07	8.41E-04	1.47E-03	1.68E-03	5.64E-02	5.54E-02	1.34E-01
786	490236.72	3860485.12	0.0159	0.00832	0.00484	0.0233	0.005	0.018	0.0082	0.00832	1.11E-01	1.54E-02	5.04E-07	8.20E-04	1.44E-03	1.67E-03	5.77E-02	5.66E-02	1.31E-01
787	490286.72	3860485.12	0.01549	0.00853	0.005	0.02278	0.004	0.018	0.0084	0.00853	1.08E-01	1.58E-02	5.21E-07	8.02E-04	1.40E-03	1.65E-03	5.92E-02	5.80E-02	1.29E-01
788	490336.72	3860485.12	0.0151	0.00874	0.00508	0.02231	0.004	0.017	0.0086	0.00874	1.05E-01	1.61E-02	5.29E-07	7.85E-04	1.36E-03	1.64E-03	6.07E-02	5.94E-02	1.26E-01
789	490386.72	3860485.12	0.01475	0.00897	0.00508	0.0219	0.004	0.017	0.0088	0.00897	1.03E-01	1.66E-02	5.29E-07	7.71E-04	1.32E-03	1.63E-03	6.24E-02	6.10E-02	1.24E-01
790	490436.72	3860485.12	0.01444	0.00922	0.00506	0.02154	0.004	0.017	0.0091	0.00922	1.01E-01	1.70E-02	5.27E-07	7.58E-04	1.28E-03	1.62E-03	6.42E-02	6.27E-02	1.23E-01
791	490486.72	3860485.12	0.01413	0.00949	0.00501	0.0212	0.004	0.017	0.0093	0.00949	9.85E-02	1.75E-02	5.22E-07	7.46E-04	1.24E-03	1.61E-03	6.62E-02	6.45E-02	1.21E-01
792	490536.72	3860485.12	0.01385	0.00978	0.00496	0.02089	0.004	0.017	0.0096	0.00978	9.66E-02	1.81E-02	5.16E-07	7.35E-04	1.20E-03	1.60E-03	6.83E-02	6.65E-02	1.20E-01
793	490586.72	3860485.12	0.0136	0.0101	0.00492	0.02062	0.004	0.017	0.01	0.0101	9.48E-02	1.87E-02	5.12E-07	7.26E-04	1.17E-03	1.60E-03	7.06E-02	6.87E-02	1.19E-01
794	490636.72	3860485.12	0.01337	0.01046	0.0049	0.02039	0.004	0.017	0.0103	0.01046	9.32E-02	1.93E-02	5.10E-07	7.18E-04	1.14E-03	1.59E-03	7.31E-02	7.11E-02	1.18E-01
795	490686.72	3860485.12	0.01315	0.01084	0.00489	0.02017	0.004	0.017	0.0107	0.01084	9.17E-02	2.00E-02	5.09E-07	7.10E-04	1.11E-03	1.59E-03	7.59E-02	7.37E-02	1.17E-01
796	490736.72	3860485.12	0.01295	0.01127	0.00489	0.02001	0.003	0.017	0.0111	0.01127	9.03E-02	2.08E-02	5.09E-07	7.04E-04	1.08E-03	1.59E-03	7.89E-02	7.66E-02	1.17E-01
797	490786.72	3860485.12	0.01277	0.01176	0.0049	0.01987	0.003	0.017	0.0116	0.01176	8.90E-02	2.17E-02	5.10E-07	6.99E-04	1.07E-03	1.59E-03	8.23E-02	8.00E-02	1.16E-01
798	490136.72	3860535.12	0.01576	0.00767	0.00411	0.02402	0.005	0.017	0.0075	0.00767	1.10E-01	1.42E-02	4.28E-07	8.45E-04	1.49E-03	1.62E-03	5.32E-02	5.22E-02	1.29E-01
799	490186.72	3860535.12	0.01534	0.00783	0.00429	0.02334	0.005	0.017	0.0077	0.00783	1.07E-01	1.45E-02	4.47E-07	8.21E-04	1.46E-03	1.61E-03	5.43E-02	5.32E-02	1.26E-01
800	490236.72	3860535.12	0.01492	0.008	0.00448	0.02273	0.005	0.017	0.0078	0.008	1.04E-01	1.48E-02	4.66E-07	8.00E-04	1.43E-03	1.59E-03	5.55E-02	5.44E-02	1.24E-01
801	490286.72	3860535.12	0.01454	0.00817	0.00465	0.0222	0.004	0.017	0.008	0.00817	1.01E-01	1.51E-02	4.84E-07	7.81E-04	1.39E-03	1.58E-03	5.67E-02	5.56E-02	1.21E-01
802	490336.72	3860535.12	0.0142	0.00837	0.00476	0.02172	0.004	0.017	0.0082	0.00837	9.90E-02	1.55E-02	4.96E-07	7.64E-04	1.36E-03	1.57E-03	5.81E-02	5.69E-02	1.19E-01
803	490386.72	3860535.12	0.01389	0.00857	0.0048	0.0213	0.004	0.017	0.0084	0.00857	9.68E-02	1.58E-02	5.00E-07	7.50E-04	1.32E-03	1.56E-03	5.96E-02	5.83E-02	1.18E-01
804	490436.72	3860535.12	0.01361	0.0088	0.00478	0.02092	0.004	0.016	0.0086	0.0088	9.49E-02	1.63E-02	4.98E-07	7.36E-04	1.28E-03	1.55E-03	6.12E-02	5.98E-02	1.16E-01
805	490486.72	3860535.12	0.01334	0.00904	0.00474	0.02057	0.004	0.016	0.0089	0.00904	9.30E-02	1.67E-02	4.93E-07	7.24E-04	1.24E-03	1.54E-03	6.29E-02	6.15E-02	1.15E-01
806	490536.72	3860535.12	0.0131	0.0093	0.00472	0.02028	0.004	0.016	0.0092	0.0093	9.13E-02	1.72E-02	4.91E-07	7.14E-04	1.21E-03	1.54E-03	6.49E-02	6.32E-02	1.14E-01
807	490586.72	3860535.12	0.01285	0.00957	0.00465	0.01993	0.004	0.016	0.0094	0.00957	8.96E-02	1.77E-02	4.84E-07	7.01E-04	1.17E-03	1.53E-03	6.68E-02	6.51E-02	1.12E-01
808	490636.72	3860535.12	0.01263	0.00987	0.00461	0.01966	0.004	0.016	0.0097	0.00987	8.81E-02	1.82E-02	4.80E-07	6.92E-04	1.13E-03	1.52E-03	6.90E-02	6.71E-02	1.12E-01

809	490686.72	3860535.12	0.01242	0.01021	0.00459	0.01942	0.004	0.016	0.0101	0.01021	8.66E-02	1.89E-02	4.78E-07	6.84E-04	1.10E-03	1.52E-03	7.14E-02	6.94E-02	1.11E-01
810	490736.72	3860535.12	0.01223	0.01058	0.00458	0.0192	0.003	0.016	0.0105	0.01058	8.53E-02	1.95E-02	4.77E-07	6.76E-04	1.07E-03	1.51E-03	7.40E-02	7.19E-02	1.10E-01
811	490786.72	3860535.12	0.01206	0.011	0.00458	0.01903	0.003	0.016	0.0109	0.011	8.41E-02	2.03E-02	4.77E-07	6.70E-04	1.05E-03	1.51E-03	7.70E-02	7.48E-02	1.10E-01
812	490136.72	3860585.12	0.01468	0.00739	0.00385	0.02354	0.005	0.016	0.0073	0.00739	1.02E-01	1.36E-02	4.01E-07	8.29E-04	1.47E-03	1.55E-03	5.14E-02	5.03E-02	1.21E-01
813	490186.72	3860585.12	0.01426	0.00754	0.00396	0.02284	0.005	0.016	0.0074	0.00754	9.94E-02	1.39E-02	4.12E-07	8.04E-04	1.44E-03	1.53E-03	5.23E-02	5.13E-02	1.18E-01
814	490236.72	3860585.12	0.01392	0.0077	0.00414	0.02223	0.005	0.016	0.0075	0.0077	9.70E-02	1.42E-02	4.31E-07	7.82E-04	1.41E-03	1.52E-03	5.34E-02	5.24E-02	1.16E-01
815	490286.72	3860585.12	0.01361	0.00787	0.00433	0.02169	0.004	0.016	0.0077	0.00787	9.49E-02	1.45E-02	4.51E-07	7.63E-04	1.38E-03	1.50E-03	5.46E-02	5.35E-02	1.14E-01
816	490336.72	3860585.12	0.01331	0.00804	0.00446	0.0212	0.004	0.016	0.0079	0.00804	9.28E-02	1.48E-02	4.64E-07	7.46E-04	1.35E-03	1.49E-03	5.58E-02	5.47E-02	1.12E-01
817	490386.72	3860585.12	0.01303	0.00823	0.00452	0.02075	0.004	0.016	0.0081	0.00823	9.08E-02	1.52E-02	4.71E-07	7.30E-04	1.32E-03	1.48E-03	5.72E-02	5.60E-02	1.11E-01
818	490436.72	3860585.12	0.01279	0.00844	0.00455	0.02038	0.004	0.016	0.0083	0.00844	8.92E-02	1.56E-02	4.74E-07	7.17E-04	1.28E-03	1.48E-03	5.87E-02	5.74E-02	1.10E-01
819	490486.72	3860585.12	0.01257	0.00865	0.00454	0.02004	0.004	0.016	0.0085	0.00865	8.76E-02	1.60E-02	4.73E-07	7.05E-04	1.25E-03	1.47E-03	6.02E-02	5.88E-02	1.08E-01
820	490536.72	3860585.12	0.01234	0.00888	0.00448	0.01969	0.004	0.016	0.0087	0.00888	8.60E-02	1.64E-02	4.66E-07	6.93E-04	1.21E-03	1.47E-03	6.19E-02	6.04E-02	1.07E-01
821	490586.72	3860585.12	0.0121	0.00912	0.0044	0.01932	0.004	0.015	0.009	0.00912	8.44E-02	1.68E-02	4.58E-07	6.80E-04	1.17E-03	1.45E-03	6.36E-02	6.20E-02	1.06E-01
822	490636.72	3860585.12	0.0119	0.00938	0.00436	0.01903	0.004	0.015	0.0093	0.00938	8.30E-02	1.73E-02	4.54E-07	6.70E-04	1.13E-03	1.45E-03	6.55E-02	6.38E-02	1.05E-01
823	490686.72	3860585.12	0.01172	0.00968	0.00433	0.01876	0.004	0.015	0.0096	0.00968	8.17E-02	1.79E-02	4.51E-07	6.60E-04	1.10E-03	1.45E-03	6.77E-02	6.58E-02	1.05E-01
824	490736.72	3860585.12	0.01154	0.01	0.00432	0.01852	0.003	0.015	0.0099	0.01	8.05E-02	1.85E-02	4.50E-07	6.52E-04	1.07E-03	1.44E-03	7.00E-02	6.80E-02	1.04E-01
825	490786.72	3860585.12	0.01138	0.01036	0.0043	0.0183	0.003	0.015	0.0102	0.01036	7.93E-02	1.91E-02	4.48E-07	6.44E-04	1.04E-03	1.44E-03	7.25E-02	7.04E-02	1.04E-01
826	490136.72	3860635.12	0.01363	0.00712	0.00364	0.02309	0.005	0.016	0.007	0.00712	9.50E-02	1.32E-02	3.79E-07	8.13E-04	1.46E-03	1.48E-03	4.95E-02	4.84E-02	1.13E-01
827	490186.72	3860635.12	0.01328	0.00727	0.00373	0.02241	0.005	0.016	0.0071	0.00727	9.26E-02	1.34E-02	3.88E-07	7.89E-04	1.43E-03	1.46E-03	5.05E-02	4.94E-02	1.11E-01
828	490236.72	3860635.12	0.01296	0.00742	0.00386	0.02179	0.004	0.015	0.0073	0.00742	9.04E-02	1.37E-02	4.02E-07	7.67E-04	1.40E-03	1.44E-03	5.15E-02	5.05E-02	1.09E-01
829	490286.72	3860635.12	0.01268	0.00758	0.00403	0.02123	0.004	0.015	0.0074	0.00758	8.84E-02	1.40E-02	4.20E-07	7.47E-04	1.37E-03	1.43E-03	5.26E-02	5.15E-02	1.07E-01
830	490336.72	3860635.12	0.01243	0.00775	0.00417	0.02073	0.004	0.015	0.0076	0.00775	8.67E-02	1.43E-02	4.34E-07	7.30E-04	1.34E-03	1.42E-03	5.38E-02	5.27E-02	1.06E-01
831	490386.72	3860635.12	0.01219	0.00792	0.00427	0.02028	0.004	0.015	0.0078	0.00792	8.50E-02	1.46E-02	4.45E-07	7.14E-04	1.31E-03	1.41E-03	5.50E-02	5.39E-02	1.04E-01
832	490436.72	3860635.12	0.01197	0.00811	0.00429	0.01986	0.004	0.015	0.008	0.00811	8.35E-02	1.50E-02	4.47E-07	6.99E-04	1.28E-03	1.41E-03	5.63E-02	5.51E-02	1.03E-01
833	490486.72	3860635.12	0.01176	0.00831	0.00427	0.01948	0.004	0.015	0.0082	0.00831	8.20E-02	1.53E-02	4.45E-07	6.86E-04	1.24E-03	1.40E-03	5.77E-02	5.65E-02	1.02E-01
834	490536.72	3860635.12	0.01158	0.00852	0.00424	0.01914	0.004	0.015	0.0084	0.00852	8.07E-02	1.57E-02	4.41E-07	6.74E-04	1.21E-03	1.40E-03	5.93E-02	5.79E-02	1.01E-01
835	490586.72	3860635.12	0.01138	0.00874	0.00419	0.01879	0.004	0.015	0.0086	0.00874	7.93E-02	1.61E-02	4.36E-07	6.61E-04	1.17E-03	1.39E-03	6.09E-02	5.94E-02	1.00E-01
836	490636.72	3860635.12	0.01121	0.00898	0.00415	0.01849	0.004	0.015	0.0088	0.00898	7.82E-02	1.66E-02	4.32E-07	6.51E-04	1.13E-03	1.38E-03	6.26E-02	6.11E-02	9.95E-02
837	490686.72	3860635.12	0.01104	0.00924	0.00412	0.0182	0.004	0.015	0.0091	0.00924	7.70E-02	1.71E-02	4.29E-07	6.41E-04	1.10E-03	1.38E-03	6.45E-02	6.28E-02	9.89E-02
838	490736.72	3860635.12	0.01088	0.00951	0.00409	0.01792	0.003	0.015	0.0094	0.00951	7.59E-02	1.76E-02	4.26E-07	6.31E-04	1.07E-03	1.38E-03	6.65E-02	6.47E-02	9.84E-02
839	490786.72	3860635.12	0.01073	0.00983	0.00407	0.01769	0.003	0.015	0.0097	0.00983	7.48E-02	1.82E-02	4.24E-07	6.23E-04	1.04E-03	1.37E-03	6.88E-02	6.68E-02	9.80E-02
840	490136.72	3860685.12	0.01259	0.00685	0.00343	0.02271	0.005	0.015	0.0067	0.00685	8.78E-02	1.27E-02	3.57E-07	7.99E-04	1.44E-03	1.41E-03	4.76E-02	4.66E-02	1.05E-01
841	490186.72	3860685.12	0.01234	0.00699	0.00353	0.022	0.005	0.015	0.0069	0.00699	8.60E-02	1.29E-02	3.67E-07	7.74E-04	1.43E-03	1.39E-03	4.86E-02	4.75E-02	1.04E-01
842	490236.72	3860685.12	0.01206	0.00714	0.00363	0.02139	0.004	0.015	0.007	0.00714	8.41E-02	1.32E-02	3.78E-07	7.53E-04	1.39E-03	1.38E-03	4.96E-02	4.86E-02	1.02E-01
843	490286.72	3860685.12	0.01179	0.00729	0.00375	0.02081	0.004	0.014	0.0071	0.00729	8.22E-02	1.35E-02	3.90E-07	7.32E-04	1.36E-03	1.36E-03	5.06E-02	4.96E-02	1.00E-01
844	490336.72	3860685.12	0.01158	0.00746	0.00391	0.02031	0.004	0.014	0.0073	0.00746	8.07E-02	1.38E-02	4.07E-07	7.15E-04	1.33E-03	1.35E-03	5.18E-02	5.07E-02	9.90E-02
845	490386.72	3860685.12	0.01138	0.00762	0.00402	0.01985	0.004	0.014	0.0075	0.00762	7.93E-02	1.41E-02	4.19E-07	6.99E-04	1.30E-03	1.35E-03	5.29E-02	5.18E-02	9.79E-02
846	490436.72	3860685.12	0.01119	0.0078	0.00407	0.01942	0.004	0.014	0.0076	0.0078	7.80E-02	1.44E-02	4.24E-07	6.84E-04	1.27E-03	1.34E-03	5.41E-02	5.30E-02	9.68E-02
847	490486.72	3860685.12	0.011	0.00798	0.00406	0.01902	0.004	0.014	0.0078	0.00798	7.67E-02	1.47E-02	4.23E-07	6.69E-04	1.23E-03	1.33E-03	5.55E-02	5.43E-02	9.59E-02
848	490536.72	3860685.12	0.01084	0.00818	0.00404	0.01865	0.004	0.014	0.008	0.00818	7.56E-02	1.51E-02	4.21E-07	6.56E-04	1.20E-03	1.33E-03	5.69E-02	5.56E-02	9.51E-02
849	490586.72	3860685.12	0.01068	0.00839	0.004	0.01831	0.004	0.014	0.0082	0.00839	7.45E-02	1.55E-02	4.16E-07	6.44E-04	1.17E-03	1.32E-03	5.84E-02	5.71E-02	9.44E-02
850	490636.72	3860685.12	0.01053	0.00861	0.00396	0.018	0.004	0.014	0.0085	0.00861	7.34E-02	1.59E-02	4.12E-07	6.34E-04	1.13E-03	1.32E-03	6.00E-02	5.85E-02	9.39E-02
851	490686.72	3860685.12	0.01039	0.00885	0.00393	0.01771	0.004	0.014	0.0087	0.00885	7.24E-02	1.63E-02	4.09E-07	6.23E-04	1.10E-03	1.32E-03	6.18E-02	6.02E-02	9.34E-02
852	490736.72	3860685.12	0.01025	0.00911	0.0039	0.01743	0.003	0.014	0.009	0.00911	7.15E-02	1.68E-02	4.06E-07	6.13E-04	1.07E-03	1.32E-03	6.36E-02	6.19E-02	9.30E-02
853	490786.72	3860685.12	0.01012	0.00939	0.00388	0.01719	0.003	0.014	0.0093	0.00939	7.06E-02	1.73E-02	4.04E-07	6.05E-04	1.04E-03	1.32E-03	6.57E-02	6.39E-02	9.27E-02
854	490136.72	3860735.12	0.01156	0.00659	0.00322	0.02238	0.004	0.014	0.0065	0.00659	8.06E-02	1.22E-02	3.35E-07	7.88E-04	1.40E-03	1.33E-03	4.58E-02	4.48E-02	9.72E-02
855	490186.72	3860735.12	0.01134	0.00672	0.00328	0.02166	0.004	0.014	0.0066	0.00672	7.91E-02	1.24E-02	3.41E-07	7.62E-04	1.38E-03	1.32E-03	4.67E-02	4.57E-02	9.59E-02
856	490236.72	3860735.12	0.01113	0.00686	0.00338	0.02102	0.004	0.014	0.0067	0.00686	7.76E-02	1.27E-02	3.52E-07	7.40E-04	1.37E-03	1.31E-03	4.76E-02	4.66E-02	9.46E-02
857	490286.72	3860735.12	0.01094	0.007	0.00352	0.02045	0.004	0.014	0.0069	0.007	7.63E-02	1.29E-02	3.66E-07	7.20E-04	1.34E-03	1.30E-03	4.87E-02	4.76E-02	9.36E-02
858	490336.72	3860735.12	0.01076	0.00716	0.00366	0.01993	0.004	0.014	0.007	0.00716	7.50E-02	1.32E-02	3.81E-07	7.01E-04	1.32E-03	1.29E-03	4.97E-02	4.87E-02	9.26E-02
859	490386.72	3860735.12	0.0106	0.00732	0.00379	0.01945	0.004	0.014	0.0072	0.00732	7.39E-02	1.35E-02	3.95E-07	6.85E-04	1.30E-03	1.28E-03	5.09E-02	4.98E-02	9.18E-02
860	490436.72	3860735.12	0.01046	0.0075	0.00389	0.01904	0.004	0.014	0.0074	0.0075	7.29E-02	1.39E-02	4.05E-07	6.70E-04	1.27E-03	1.28E-03	5.21E-02	5.10E-02	9.11E-02
861	490486.72	3860735.12	0.0103	0.00767	0.0039	0.01863	0.004	0.014	0.0075	0.00767	7.18E-02	1.42E-02	4.06E-07	6.56E-04	1.24E-03	1.27E-03	5.34E-02	5.22E-02	9.03E-02
862	490536.72	3860735.12	0.01014	0.00785	0.00386	0.01823	0.004	0.013	0.0077	0.00785	7.07E-02	1.45E-02	4.02E-07	6.42E-04	1.20E-03	1.26E-03	5.46E-02	5.34E-02	8.95E-02
863	490586.72	3860735.12	0.01	0.00805	0.00382	0.01788	0.004	0.013	0.0079	0.00805	6.97E-02	1.49E-02	3.98E-07	6.29E-04	1.16E-03	1.26E-03	5.60E-02	5.47E-02	8.89E-02
864	490636.72	3860735.12	0.00987	0.00826	0.00378	0.01755	0.004	0.013	0.0081	0.00826	6.88E-02	1.53E-02	3.94E-07	6.18E-04	1.13E-03	1.26E-03	5.75E-02	5.62E-02	8.84E-02
865	490686.72	3860735.12	0.00976	0.00849	0.00375	0.01726	0.004	0.013	0.0084	0.00849	6.80E-02	1.57E-02	3.90E-07	6.07E-04	1.10E-03	1.26E-03	5.92E-02	5.77E-02	8.81E-02
866	490736.72	3860735.12	0.00964	0.00873	0.00373	0.01699	0.003	0.013	0.0086	0.00873	6.72E-02	1.61E-02	3.88E-07	5.98E-04	1.07E-03	1.26E-03	6.10E-02	5.94E-02	8.79E-02

867	490136.72	3860785.12	0.01062	0.00632	0.00305	0.02206	0.004	0.013	0.0062	0.00632	7.40E-02	1.17E-02	3.18E-07	7.76E-04	1.37E-03	1.26E-03	4.39E-02	4.30E-02	9.01E-02
868	490186.72	3860785.12	0.01045	0.00645	0.0031	0.02134	0.004	0.013	0.0063	0.00645	7.29E-02	1.19E-02	3.23E-07	7.51E-04	1.36E-03	1.25E-03	4.48E-02	4.39E-02	8.90E-02
869	490236.72	3860785.12	0.01028	0.00658	0.00318	0.02069	0.004	0.013	0.0065	0.00658	7.17E-02	1.22E-02	3.31E-07	7.28E-04	1.34E-03	1.24E-03	4.57E-02	4.47E-02	8.81E-02
870	490286.72	3860785.12	0.01013	0.00672	0.00329	0.0201	0.004	0.013	0.0066	0.00672	7.06E-02	1.24E-02	3.43E-07	7.07E-04	1.33E-03	1.23E-03	4.67E-02	4.57E-02	8.73E-02
871	490336.72	3860785.12	0.00998	0.00686	0.00343	0.01957	0.004	0.013	0.0067	0.00686	6.96E-02	1.27E-02	3.57E-07	6.89E-04	1.31E-03	1.22E-03	4.77E-02	4.66E-02	8.65E-02
872	490386.72	3860785.12	0.00986	0.00702	0.00357	0.0191	0.004	0.013	0.0069	0.00702	6.87E-02	1.30E-02	3.72E-07	6.72E-04	1.28E-03	1.22E-03	4.87E-02	4.77E-02	8.59E-02
873	490436.72	3860785.12	0.00973	0.00718	0.00366	0.01866	0.004	0.013	0.007	0.00718	6.78E-02	1.33E-02	3.81E-07	6.57E-04	1.26E-03	1.21E-03	4.99E-02	4.88E-02	8.53E-02
874	490486.72	3860785.12	0.00961	0.00736	0.00372	0.01826	0.004	0.013	0.0072	0.00736	6.70E-02	1.36E-02	3.87E-07	6.43E-04	1.23E-03	1.21E-03	5.12E-02	5.00E-02	8.48E-02
875	490536.72	3860785.12	0.00948	0.00753	0.00371	0.01787	0.004	0.013	0.0074	0.00753	6.61E-02	1.39E-02	3.86E-07	6.29E-04	1.20E-03	1.21E-03	5.24E-02	5.12E-02	8.42E-02
876	490586.72	3860785.12	0.00936	0.00771	0.00366	0.01749	0.004	0.013	0.0076	0.00771	6.53E-02	1.42E-02	3.81E-07	6.16E-04	1.16E-03	1.20E-03	5.36E-02	5.24E-02	8.37E-02
877	490636.72	3860785.12	0.00925	0.00791	0.00362	0.01715	0.004	0.013	0.0078	0.00791	6.45E-02	1.46E-02	3.77E-07	6.04E-04	1.13E-03	1.19E-03	5.51E-02	5.38E-02	8.33E-02
878	490686.72	3860785.12	0.00915	0.00812	0.00359	0.01685	0.004	0.013	0.008	0.00812	6.38E-02	1.50E-02	3.74E-07	5.93E-04	1.10E-03	1.19E-03	5.66E-02	5.52E-02	8.31E-02
879	490736.72	3860785.12	0.00905	0.00836	0.00356	0.01657	0.003	0.013	0.0082	0.00836	6.31E-02	1.54E-02	3.71E-07	5.83E-04	1.07E-03	1.19E-03	5.83E-02	5.68E-02	8.28E-02
880	490086.72	3860835.12	0.00989	0.00596	0.0029	0.02259	0.004	0.013	0.0059	0.00596	6.90E-02	1.10E-02	3.02E-07	7.95E-04	1.34E-03	1.21E-03	4.14E-02	4.05E-02	8.42E-02
881	490136.72	3860835.12	0.00976	0.00608	0.00291	0.02178	0.004	0.013	0.006	0.00608	6.80E-02	1.12E-02	3.03E-07	7.67E-04	1.34E-03	1.20E-03	4.23E-02	4.13E-02	8.35E-02
882	490186.72	3860835.12	0.00962	0.00619	0.00294	0.02104	0.004	0.013	0.0061	0.00619	6.71E-02	1.14E-02	3.06E-07	7.41E-04	1.33E-03	1.19E-03	4.31E-02	4.21E-02	8.27E-02
883	490236.72	3860835.12	0.00949	0.00632	0.003	0.02038	0.004	0.013	0.0062	0.00632	6.62E-02	1.17E-02	3.12E-07	7.17E-04	1.32E-03	1.18E-03	4.39E-02	4.30E-02	8.20E-02
884	490286.72	3860835.12	0.00937	0.00645	0.0031	0.01979	0.004	0.012	0.0063	0.00645	6.53E-02	1.19E-02	3.23E-07	6.97E-04	1.31E-03	1.17E-03	4.49E-02	4.39E-02	8.14E-02
885	490336.72	3860835.12	0.00925	0.00658	0.00322	0.01925	0.004	0.012	0.0065	0.00658	6.45E-02	1.22E-02	3.35E-07	6.78E-04	1.29E-03	1.16E-03	4.58E-02	4.47E-02	8.08E-02
886	490386.72	3860835.12	0.00914	0.00673	0.00335	0.01877	0.004	0.012	0.0066	0.00673	6.37E-02	1.24E-02	3.49E-07	6.61E-04	1.27E-03	1.16E-03	4.68E-02	4.58E-02	8.02E-02
887	490436.72	3860835.12	0.00904	0.00688	0.00346	0.01833	0.004	0.012	0.0068	0.00688	6.30E-02	1.27E-02	3.60E-07	6.45E-04	1.25E-03	1.15E-03	4.78E-02	4.68E-02	7.98E-02
888	490486.72	3860835.12	0.00895	0.00705	0.00353	0.01792	0.004	0.012	0.0069	0.00705	6.24E-02	1.30E-02	3.67E-07	6.31E-04	1.22E-03	1.15E-03	4.90E-02	4.79E-02	7.94E-02
889	490536.72	3860835.12	0.00885	0.00721	0.00355	0.01753	0.004	0.012	0.0071	0.00721	6.17E-02	1.33E-02	3.70E-07	6.17E-04	1.19E-03	1.15E-03	5.01E-02	4.90E-02	7.90E-02
890	490586.72	3860835.12	0.00875	0.00739	0.00353	0.01716	0.004	0.012	0.0073	0.00739	6.10E-02	1.36E-02	3.67E-07	6.04E-04	1.16E-03	1.14E-03	5.14E-02	5.03E-02	7.87E-02
891	490636.72	3860835.12	0.00866	0.00757	0.00349	0.01681	0.004	0.012	0.0074	0.00757	6.04E-02	1.40E-02	3.63E-07	5.92E-04	1.13E-03	1.14E-03	5.26E-02	5.15E-02	7.84E-02
892	490686.72	3860835.12	0.00857	0.00777	0.00345	0.01649	0.004	0.012	0.0076	0.00777	5.97E-02	1.44E-02	3.59E-07	5.80E-04	1.10E-03	1.14E-03	5.41E-02	5.28E-02	7.81E-02
893	490736.72	3860835.12	0.00849	0.00799	0.00342	0.0162	0.003	0.012	0.0079	0.00799	5.92E-02	1.48E-02	3.56E-07	5.70E-04	1.07E-03	1.13E-03	5.57E-02	5.43E-02	7.81E-02
894	490086.72	3860885.12	0.00907	0.00575	0.00278	0.02233	0.004	0.012	0.0057	0.00575	6.32E-02	1.06E-02	2.89E-07	7.86E-04	1.31E-03	1.14E-03	4.00E-02	3.91E-02	7.80E-02
895	490136.72	3860885.12	0.00896	0.00586	0.00278	0.02151	0.004	0.012	0.0058	0.00586	6.25E-02	1.08E-02	2.89E-07	7.57E-04	1.31E-03	1.13E-03	4.07E-02	3.98E-02	7.74E-02
896	490186.72	3860885.12	0.00886	0.00596	0.0028	0.02077	0.004	0.012	0.0059	0.00596	6.18E-02	1.10E-02	2.91E-07	7.31E-04	1.31E-03	1.13E-03	4.15E-02	4.05E-02	7.69E-02
897	490236.72	3860885.12	0.00876	0.00608	0.00285	0.0201	0.004	0.012	0.006	0.00608	6.11E-02	1.12E-02	2.97E-07	7.07E-04	1.30E-03	1.12E-03	4.23E-02	4.13E-02	7.64E-02
898	490286.72	3860885.12	0.00866	0.0062	0.00293	0.01951	0.004	0.012	0.0061	0.0062	6.04E-02	1.15E-02	3.05E-07	6.87E-04	1.29E-03	1.11E-03	4.31E-02	4.22E-02	7.58E-02
899	490336.72	3860885.12	0.00857	0.00633	0.00303	0.01897	0.004	0.012	0.0062	0.00633	5.97E-02	1.17E-02	3.15E-07	6.68E-04	1.27E-03	1.11E-03	4.39E-02	4.30E-02	7.54E-02
900	490386.72	3860885.12	0.00849	0.00646	0.00316	0.01848	0.004	0.012	0.0063	0.00646	5.92E-02	1.19E-02	3.29E-07	6.50E-04	1.26E-03	1.10E-03	4.49E-02	4.39E-02	7.51E-02
901	490436.72	3860885.12	0.00841	0.0066	0.00327	0.01803	0.004	0.012	0.0065	0.0066	5.86E-02	1.22E-02	3.40E-07	6.35E-04	1.23E-03	1.10E-03	4.58E-02	4.49E-02	7.48E-02
902	490486.72	3860885.12	0.00833	0.00675	0.00336	0.01761	0.004	0.012	0.0066	0.00675	5.81E-02	1.25E-02	3.50E-07	6.20E-04	1.21E-03	1.09E-03	4.69E-02	4.59E-02	7.45E-02
903	490536.72	3860885.12	0.00825	0.00691	0.0034	0.01722	0.004	0.012	0.0068	0.00691	5.75E-02	1.28E-02	3.54E-07	6.06E-04	1.19E-03	1.09E-03	4.80E-02	4.70E-02	7.41E-02
904	490586.72	3860885.12	0.00818	0.00707	0.0034	0.01685	0.004	0.012	0.0069	0.00707	5.70E-02	1.31E-02	3.54E-07	5.93E-04	1.16E-03	1.08E-03	4.91E-02	4.81E-02	7.39E-02
905	490636.72	3860885.12	0.0081	0.00724	0.00337	0.01649	0.004	0.012	0.0071	0.00724	5.65E-02	1.34E-02	3.51E-07	5.80E-04	1.12E-03	1.08E-03	5.04E-02	4.92E-02	7.38E-02
906	490686.72	3860885.12	0.00803	0.00743	0.00333	0.01616	0.003	0.011	0.0073	0.00743	5.60E-02	1.37E-02	3.47E-07	5.69E-04	1.09E-03	1.08E-03	5.17E-02	5.05E-02	7.36E-02
907	490736.72	3860885.12	0.00796	0.00762	0.00329	0.01585	0.003	0.011	0.0075	0.00762	5.55E-02	1.41E-02	3.43E-07	5.58E-04	1.07E-03	1.08E-03	5.31E-02	5.18E-02	7.35E-02
908	490086.72	3860935.12	0.00831	0.00555	0.00266	0.02208	0.004	0.012	0.0055	0.00555	5.79E-02	1.03E-02	2.77E-07	7.77E-04	1.28E-03	1.08E-03	3.87E-02	3.77E-02	7.23E-02
909	490136.72	3860935.12	0.00823	0.00565	0.00266	0.02124	0.004	0.011	0.0056	0.00565	5.74E-02	1.04E-02	2.77E-07	7.48E-04	1.28E-03	1.07E-03	3.93E-02	3.84E-02	7.18E-02
910	490186.72	3860935.12	0.00815	0.00575	0.00267	0.02051	0.004	0.011	0.0057	0.00575	5.68E-02	1.06E-02	2.78E-07	7.22E-04	1.28E-03	1.07E-03	4.00E-02	3.91E-02	7.14E-02
911	490236.72	3860935.12	0.00808	0.00586	0.00271	0.01985	0.004	0.011	0.0058	0.00586	5.63E-02	1.08E-02	2.82E-07	6.99E-04	1.28E-03	1.06E-03	4.08E-02	3.98E-02	7.12E-02
912	490286.72	3860935.12	0.00801	0.00598	0.00278	0.01926	0.004	0.011	0.0059	0.00598	5.58E-02	1.10E-02	2.89E-07	6.78E-04	1.27E-03	1.06E-03	4.16E-02	4.07E-02	7.08E-02
913	490336.72	3860935.12	0.00794	0.00609	0.00287	0.01871	0.004	0.011	0.006	0.00609	5.54E-02	1.12E-02	2.99E-07	6.59E-04	1.26E-03	1.05E-03	4.24E-02	4.14E-02	7.05E-02
914	490386.72	3860935.12	0.00788	0.00622	0.00298	0.01822	0.004	0.011	0.0061	0.00622	5.49E-02	1.15E-02	3.10E-07	6.41E-04	1.24E-03	1.05E-03	4.32E-02	4.23E-02	7.03E-02
915	490436.72	3860935.12	0.00782	0.00635	0.0031	0.01776	0.004	0.011	0.0062	0.00635	5.45E-02	1.17E-02	3.23E-07	6.25E-04	1.23E-03	1.04E-03	4.41E-02	4.32E-02	7.01E-02
916	490486.72	3860935.12	0.00775	0.00649	0.00319	0.01734	0.004	0.011	0.0064	0.00649	5.40E-02	1.20E-02	3.32E-07	6.10E-04	1.20E-03	1.04E-03	4.51E-02	4.41E-02	6.98E-02
917	490536.72	3860935.12	0.00769	0.00663	0.00325	0.01694	0.004	0.011	0.0065	0.00663	5.36E-02	1.22E-02	3.38E-07	5.96E-04	1.18E-03	1.03E-03	4.61E-02	4.51E-02	6.96E-02
918	490586.72	3860935.12	0.00763	0.00678	0.00327	0.01656	0.004	0.011	0.0067	0.00678	5.32E-02	1.25E-02	3.40E-07	5.83E-04	1.15E-03	1.03E-03	4.71E-02	4.61E-02	6.95E-02
919	490636.72	3860935.12	0.00757	0.00694	0.00325	0.0162	0.004	0.011	0.0068	0.00694	5.28E-02	1.28E-02	3.38E-07	5.70E-04	1.12E-03	1.03E-03	4.82E-02	4.72E-02	6.93E-02
920	490686.72	3860935.12	0.00751	0.00711	0.00322	0.01587	0.003	0.011	0.007	0.00711	5.24E-02	1.31E-02	3.35E-07	5.59E-04	1.09E-03	1.02E-03	4.94E-02	4.83E-02	6.92E-02
921	490736.72	3860935.12	0.00746	0.00729	0.00318	0.01556	0.003	0.011	0.0072	0.00729	5.20E-02	1.35E-02	3.31E-07	5.48E-04	1.06E-03	1.02E-03	5.07E-02	4.96E-02	6.92E-02
922	490786.72	3860935.12	0.0074	0.00748	0.00315	0.01527	0.003	0.011	0.0074	0.00748	5.16E-02	1.38E-02	3.28E-07	5.37E-04	1.03E-03	1.02E-03	5.21E-02	5.09E-02	6.92E-02
923	490836.72	3860935.12	0.00735	0.00769	0.00312	0.01501	0.003	0.011	0.0076	0.00769	5.12E-02	1.42E-02	3.25E-07	5.28E-04	1.01E-03	1.02E-03	5.36E-02	5.23E-02	6.93E-02
924	490086.72	3860985.12	0.00764	0.00538	0.00256	0.02186	0.004	0.011	0.0053	0.00538	5.33E-02	9.94E-03	2.67E-07	7.69E-04	1.24E-03	1.02E-03	3.75E-02	3.66E-02	6.71E-02

925	490136.72	3860985.12	0.00758	0.00547	0.00255	0.02103	0.004	0.011	0.0054	0.00547	5.28E-02	1.01E-02	2.65E-07	7.40E-04	1.25E-03	1.02E-03	3.81E-02	3.72E-02	6.69E-02
926	490186.72	3860985.12	0.00752	0.00557	0.00256	0.0203	0.004	0.011	0.0055	0.00557	5.24E-02	1.03E-02	2.67E-07	7.14E-04	1.26E-03	1.01E-03	3.88E-02	3.79E-02	6.66E-02
927	490236.72	3860985.12	0.00747	0.00567	0.00259	0.01962	0.004	0.011	0.0056	0.00567	5.21E-02	1.05E-02	2.70E-07	6.91E-04	1.25E-03	1.01E-03	3.95E-02	3.86E-02	6.64E-02
928	490286.72	3860985.12	0.00741	0.00577	0.00264	0.01902	0.004	0.011	0.0057	0.00577	5.17E-02	1.07E-02	2.75E-07	6.69E-04	1.25E-03	1.00E-03	4.01E-02	3.92E-02	6.61E-02
929	490336.72	3860985.12	0.00736	0.00588	0.00272	0.01847	0.004	0.011	0.0058	0.00588	5.13E-02	1.09E-02	2.83E-07	6.50E-04	1.24E-03	9.96E-04	4.09E-02	4.00E-02	6.60E-02
930	490386.72	3860985.12	0.00731	0.00599	0.00282	0.01797	0.004	0.011	0.0059	0.00599	5.10E-02	1.11E-02	2.94E-07	6.32E-04	1.23E-03	9.93E-04	4.17E-02	4.07E-02	6.58E-02
931	490436.72	3860985.12	0.00727	0.00612	0.00293	0.01751	0.004	0.011	0.006	0.00612	5.07E-02	1.13E-02	3.05E-07	6.16E-04	1.21E-03	9.90E-04	4.25E-02	4.16E-02	6.57E-02
932	490486.72	3860985.12	0.00722	0.00624	0.00303	0.01708	0.004	0.01	0.0061	0.00624	5.03E-02	1.15E-02	3.15E-07	6.01E-04	1.19E-03	9.86E-04	4.34E-02	4.24E-02	6.56E-02
933	490536.72	3860985.12	0.00717	0.00637	0.0031	0.01667	0.004	0.01	0.0063	0.00637	5.00E-02	1.18E-02	3.23E-07	5.87E-04	1.17E-03	9.82E-04	4.43E-02	4.33E-02	6.55E-02
934	490586.72	3860985.12	0.00712	0.00651	0.00314	0.01629	0.004	0.01	0.0064	0.00651	4.96E-02	1.20E-02	3.27E-07	5.73E-04	1.15E-03	9.79E-04	4.52E-02	4.43E-02	6.53E-02
935	490636.72	3860985.12	0.00708	0.00666	0.00314	0.01594	0.004	0.01	0.0065	0.00666	4.94E-02	1.23E-02	3.27E-07	5.61E-04	1.12E-03	9.77E-04	4.63E-02	4.53E-02	6.53E-02
936	490686.72	3860985.12	0.00703	0.00681	0.00312	0.01561	0.003	0.01	0.0067	0.00681	4.90E-02	1.26E-02	3.25E-07	5.49E-04	1.09E-03	9.74E-04	4.73E-02	4.63E-02	6.52E-02
937	490736.72	3860985.12	0.00698	0.00697	0.00308	0.01529	0.003	0.01	0.0068	0.00697	4.87E-02	1.29E-02	3.21E-07	5.38E-04	1.06E-03	9.71E-04	4.85E-02	4.74E-02	6.52E-02
938	490786.72	3860985.12	0.00694	0.00715	0.00305	0.015	0.003	0.01	0.007	0.00715	4.84E-02	1.32E-02	3.18E-07	5.28E-04	1.03E-03	9.70E-04	4.97E-02	4.86E-02	6.52E-02
939	490836.72	3860985.12	0.0069	0.00734	0.00302	0.01474	0.003	0.01	0.0072	0.00734	4.81E-02	1.36E-02	3.14E-07	5.19E-04	1.01E-03	9.70E-04	5.12E-02	4.99E-02	6.54E-02
940	490086.72	3861035.12	0.00703	0.00521	0.00247	0.02165	0.004	0.01	0.0051	0.00521	4.90E-02	9.62E-03	2.57E-07	7.62E-04	1.21E-03	9.69E-04	3.63E-02	3.54E-02	6.25E-02
941	490136.72	3861035.12	0.00699	0.0053	0.00246	0.02082	0.004	0.01	0.0052	0.0053	4.87E-02	9.79E-03	2.56E-07	7.33E-04	1.22E-03	9.64E-04	3.70E-02	3.60E-02	6.24E-02
942	490186.72	3861035.12	0.00695	0.00539	0.00246	0.02008	0.004	0.01	0.0053	0.00539	4.85E-02	9.95E-03	2.56E-07	7.07E-04	1.23E-03	9.59E-04	3.76E-02	3.67E-02	6.22E-02
943	490236.72	3861035.12	0.00691	0.00549	0.00248	0.01941	0.004	0.01	0.0054	0.00549	4.82E-02	1.01E-02	2.58E-07	6.83E-04	1.23E-03	9.55E-04	3.82E-02	3.73E-02	6.20E-02
944	490286.72	3861035.12	0.00687	0.00558	0.00252	0.0188	0.004	0.01	0.0055	0.00558	4.79E-02	1.03E-02	2.62E-07	6.62E-04	1.23E-03	9.49E-04	3.88E-02	3.79E-02	6.19E-02
945	490336.72	3861035.12	0.00683	0.00568	0.00258	0.01824	0.004	0.01	0.0056	0.00568	4.76E-02	1.05E-02	2.69E-07	6.42E-04	1.22E-03	9.46E-04	3.95E-02	3.86E-02	6.18E-02
946	490386.72	3861035.12	0.0068	0.00579	0.00267	0.01774	0.004	0.01	0.0057	0.00579	4.74E-02	1.07E-02	2.78E-07	6.24E-04	1.21E-03	9.43E-04	4.03E-02	3.94E-02	6.18E-02
947	490436.72	3861035.12	0.00676	0.00591	0.00278	0.01728	0.004	0.01	0.0058	0.00591	4.71E-02	1.09E-02	2.89E-07	6.08E-04	1.20E-03	9.41E-04	4.11E-02	4.02E-02	6.17E-02
948	490486.72	3861035.12	0.00673	0.00602	0.00288	0.01684	0.004	0.01	0.0059	0.00602	4.69E-02	1.11E-02	3.00E-07	5.93E-04	1.18E-03	9.37E-04	4.19E-02	4.09E-02	6.17E-02
949	490536.72	3861035.12	0.00669	0.00614	0.00296	0.01644	0.004	0.01	0.006	0.00614	4.66E-02	1.13E-02	3.08E-07	5.79E-04	1.16E-03	9.34E-04	4.27E-02	4.18E-02	6.16E-02
950	490586.72	3861035.12	0.00665	0.00627	0.00301	0.01606	0.004	0.01	0.0062	0.00627	4.64E-02	1.16E-02	3.13E-07	5.65E-04	1.14E-03	9.31E-04	4.36E-02	4.26E-02	6.15E-02
951	490636.72	3861035.12	0.00662	0.0064	0.00303	0.0157	0.004	0.01	0.0063	0.0064	4.62E-02	1.18E-02	3.15E-07	5.53E-04	1.12E-03	9.28E-04	4.45E-02	4.35E-02	6.15E-02
952	490686.72	3861035.12	0.00658	0.00654	0.00302	0.01536	0.003	0.01	0.0064	0.00654	4.59E-02	1.21E-02	3.14E-07	5.41E-04	1.09E-03	9.25E-04	4.54E-02	4.45E-02	6.15E-02
953	490736.72	3861035.12	0.00654	0.00669	0.00299	0.01505	0.003	0.01	0.0066	0.00669	4.56E-02	1.24E-02	3.11E-07	5.30E-04	1.06E-03	9.23E-04	4.65E-02	4.55E-02	6.15E-02
954	490786.72	3861035.12	0.00651	0.00685	0.00296	0.01476	0.003	0.01	0.0067	0.00685	4.54E-02	1.27E-02	3.08E-07	5.19E-04	1.03E-03	9.22E-04	4.76E-02	4.66E-02	6.15E-02
955	490836.72	3861035.12	0.00647	0.00702	0.00293	0.0145	0.003	0.01	0.0069	0.00702	4.51E-02	1.30E-02	3.05E-07	5.10E-04	1.01E-03	9.22E-04	4.89E-02	4.77E-02	6.17E-02
956	490086.72	3861085.12	0.0065	0.00506	0.00238	0.02147	0.004	0.01	0.005	0.00506	4.53E-02	9.35E-03	2.48E-07	7.56E-04	1.17E-03	9.16E-04	3.54E-02	3.44E-02	5.85E-02
957	490136.72	3861085.12	0.00648	0.00515	0.00237	0.02064	0.004	0.01	0.0051	0.00515	4.52E-02	9.51E-03	2.47E-07	7.26E-04	1.19E-03	9.14E-04	3.59E-02	3.50E-02	5.84E-02
958	490186.72	3861085.12	0.00645	0.00524	0.00237	0.0199	0.004	0.01	0.0052	0.00524	4.50E-02	9.68E-03	2.47E-07	7.00E-04	1.20E-03	9.11E-04	3.65E-02	3.56E-02	5.83E-02
959	490236.72	3861085.12	0.00642	0.00532	0.00239	0.01922	0.004	0.01	0.0052	0.00532	4.48E-02	9.83E-03	2.49E-07	6.76E-04	1.21E-03	9.06E-04	3.71E-02	3.62E-02	5.83E-02
960	490286.72	3861085.12	0.00638	0.00541	0.00241	0.0186	0.004	0.01	0.0053	0.00541	4.45E-02	9.99E-03	2.51E-07	6.55E-04	1.20E-03	9.02E-04	3.77E-02	3.68E-02	5.81E-02
961	490336.72	3861085.12	0.00635	0.0055	0.00246	0.01804	0.004	0.01	0.0054	0.0055	4.43E-02	1.02E-02	2.56E-07	6.35E-04	1.20E-03	8.99E-04	3.83E-02	3.74E-02	5.81E-02
962	490386.72	3861085.12	0.00633	0.00561	0.00254	0.01754	0.004	0.01	0.0055	0.00561	4.41E-02	1.04E-02	2.64E-07	6.17E-04	1.19E-03	8.97E-04	3.90E-02	3.81E-02	5.81E-02
963	490436.72	3861085.12	0.0063	0.00571	0.00263	0.01706	0.004	0.01	0.0056	0.00571	4.39E-02	1.05E-02	2.74E-07	6.00E-04	1.18E-03	8.94E-04	3.97E-02	3.88E-02	5.81E-02
964	490486.72	3861085.12	0.00627	0.00582	0.00273	0.01663	0.004	0.009	0.0057	0.00582	4.37E-02	1.07E-02	2.84E-07	5.85E-04	1.17E-03	8.91E-04	4.05E-02	3.96E-02	5.80E-02
965	490536.72	3861085.12	0.00625	0.00593	0.00283	0.01622	0.004	0.009	0.0058	0.00593	4.36E-02	1.10E-02	2.95E-07	5.71E-04	1.15E-03	8.89E-04	4.12E-02	4.03E-02	5.81E-02
966	490586.72	3861085.12	0.00622	0.00605	0.00289	0.01584	0.004	0.009	0.0059	0.00605	4.34E-02	1.12E-02	3.01E-07	5.58E-04	1.13E-03	8.86E-04	4.20E-02	4.11E-02	5.80E-02
967	490636.72	3861085.12	0.00619	0.00617	0.00292	0.01548	0.004	0.009	0.0061	0.00617	4.32E-02	1.14E-02	3.04E-07	5.45E-04	1.11E-03	8.83E-04	4.29E-02	4.20E-02	5.80E-02
968	490686.72	3861085.12	0.00616	0.0063	0.00292	0.01514	0.003	0.009	0.0062	0.0063	4.29E-02	1.16E-02	3.04E-07	5.33E-04	1.08E-03	8.80E-04	4.37E-02	4.28E-02	5.80E-02
969	490736.72	3861085.12	0.00613	0.00644	0.0029	0.01483	0.003	0.009	0.0063	0.00644	4.27E-02	1.19E-02	3.02E-07	5.22E-04	1.06E-03	8.79E-04	4.47E-02	4.38E-02	5.80E-02
970	490786.72	3861085.12	0.0061	0.00658	0.00287	0.01455	0.003	0.009	0.0065	0.00658	4.25E-02	1.22E-02	2.99E-07	5.12E-04	1.03E-03	8.78E-04	4.57E-02	4.47E-02	5.81E-02
971	490836.72	3861085.12	0.00608	0.00674	0.00284	0.01428	0.003	0.009	0.0066	0.00674	4.24E-02	1.24E-02	2.96E-07	5.03E-04	1.01E-03	8.77E-04	4.68E-02	4.58E-02	5.82E-02
972	490086.72	3861135.12	0.00603	0.00492	0.0023	0.02129	0.004	0.009	0.0049	0.00492	4.20E-02	9.09E-03	2.39E-07	7.49E-04	1.14E-03	8.66E-04	3.44E-02	3.35E-02	5.48E-02
973	490136.72	3861135.12	0.00601	0.005	0.00228	0.02046	0.004	0.009	0.0049	0.005	4.19E-02	9.23E-03	2.37E-07	7.20E-04	1.16E-03	8.64E-04	3.49E-02	3.40E-02	5.48E-02
974	490186.72	3861135.12	0.00599	0.00508	0.00229	0.01972	0.004	0.009	0.005	0.00508	4.18E-02	9.38E-03	2.38E-07	6.94E-04	1.17E-03	8.62E-04	3.55E-02	3.45E-02	5.48E-02
975	490236.72	3861135.12	0.00597	0.00516	0.0023	0.01904	0.004	0.009	0.0051	0.00516	4.16E-02	9.53E-03	2.39E-07	6.70E-04	1.18E-03	8.60E-04	3.61E-02	3.51E-02	5.48E-02
976	490286.72	3861135.12	0.00595	0.00525	0.00232	0.01843	0.004	0.009	0.0052	0.00525	4.15E-02	9.70E-03	2.42E-07	6.49E-04	1.18E-03	8.57E-04	3.66E-02	3.57E-02	5.48E-02
977	490336.72	3861135.12	0.00593	0.00534	0.00236	0.01786	0.004	0.009	0.0053	0.00534	4.13E-02	9.86E-03	2.46E-07	6.29E-04	1.18E-03	8.54E-04	3.72E-02	3.63E-02	5.48E-02
978	490386.72	3861135.12	0.0059	0.00543	0.00242	0.01734	0.004	0.009	0.0053	0.00543	4.11E-02	1.00E-02	2.52E-07	6.10E-04	1.17E-03	8.53E-04	3.78E-02	3.69E-02	5.47E-02
979	490436.72	3861135.12	0.00588	0.00553	0.0025	0.01687	0.004	0.009	0.0054	0.00553	4.10E-02	1.02E-02	2.60E-07	5.94E-04	1.17E-03	8.50E-04	3.85E-02	3.76E-02	5.47E-02
980	490486.72	3861135.12	0.00586	0.00563	0.0026	0.01643	0.004	0.009	0.0055	0.00563	4.09E-02	1.04E-02	2.71E-07	5.78E-04	1.15E-03	8.48E-04	3.92E-02	3.83E-02	5.47E-02
981	490536.72	3861135.12	0.00584	0.00574	0.00269	0.01602	0.004	0.009	0.0056	0.00574	4.07E-02	1.06E-02	2.80E-07	5.64E-04	1.14E-03	8.46E-04	3.99E-02	3.90E-02	5.47E-02
982	490586.72	3861135.12	0.00582	0.00585	0.00276	0.01564	0.004	0.009	0.0057	0.00585	4.06E-02	1.08E-02	2.87E-07	5.50E-04	1.12E-03	8.44E-04	4.07E-02	3.98E-02	5.48E-02

983	490636.72	3861135.12	0.0058	0.00596	0.0028	0.01528	0.004	0.009	0.0058	0.00596	4.04E-02	1.10E-02	2.91E-07	5.38E-04	1.10E-03	8.41E-04	4.14E-02	4.05E-02	5.48E-02
984	490686.72	3861135.12	0.00578	0.00608	0.00282	0.01495	0.003	0.009	0.006	0.00608	4.03E-02	1.12E-02	2.94E-07	5.26E-04	1.08E-03	8.39E-04	4.22E-02	4.13E-02	5.49E-02
985	490736.72	3861135.12	0.00575	0.0062	0.00282	0.01465	0.003	0.009	0.0061	0.0062	4.01E-02	1.15E-02	2.94E-07	5.16E-04	1.06E-03	8.38E-04	4.31E-02	4.22E-02	5.49E-02
986	490786.72	3861135.12	0.00573	0.00634	0.0028	0.01436	0.003	0.009	0.0062	0.00634	3.99E-02	1.17E-02	2.91E-07	5.05E-04	1.03E-03	8.38E-04	4.40E-02	4.31E-02	5.49E-02
987	490836.72	3861135.12	0.00571	0.00648	0.00277	0.01409	0.003	0.009	0.0064	0.00648	3.98E-02	1.20E-02	2.88E-07	4.96E-04	1.01E-03	8.37E-04	4.50E-02	4.41E-02	5.50E-02
988	490086.72	3861185.12	0.00562	0.00478	0.00222	0.02112	0.004	0.009	0.0047	0.00478	3.92E-02	8.83E-03	2.31E-07	7.43E-04	1.11E-03	8.18E-04	3.34E-02	3.25E-02	5.16E-02
989	490136.72	3861185.12	0.0056	0.00485	0.00221	0.02027	0.004	0.009	0.0048	0.00485	3.90E-02	8.96E-03	2.30E-07	7.13E-04	1.12E-03	8.16E-04	3.39E-02	3.30E-02	5.16E-02
990	490186.72	3861185.12	0.00559	0.00493	0.0022	0.01952	0.004	0.009	0.0049	0.00493	3.90E-02	9.11E-03	2.29E-07	6.87E-04	1.14E-03	8.15E-04	3.44E-02	3.35E-02	5.16E-02
991	490236.72	3861185.12	0.00557	0.00501	0.00221	0.01885	0.004	0.009	0.0049	0.00501	3.88E-02	9.25E-03	2.30E-07	6.63E-04	1.15E-03	8.14E-04	3.50E-02	3.41E-02	5.16E-02
992	490286.72	3861185.12	0.00556	0.0051	0.00223	0.01825	0.004	0.009	0.005	0.0051	3.88E-02	9.42E-03	2.32E-07	6.42E-04	1.16E-03	8.14E-04	3.56E-02	3.47E-02	5.17E-02
993	490336.72	3861185.12	0.00553	0.00518	0.00226	0.01767	0.004	0.009	0.0051	0.00518	3.86E-02	9.57E-03	2.35E-07	6.22E-04	1.16E-03	8.10E-04	3.61E-02	3.52E-02	5.16E-02
994	490386.72	3861185.12	0.00552	0.00526	0.00231	0.01715	0.004	0.009	0.0052	0.00526	3.85E-02	9.71E-03	2.40E-07	6.04E-04	1.15E-03	8.09E-04	3.67E-02	3.58E-02	5.17E-02
995	490436.72	3861185.12	0.0055	0.00536	0.00238	0.01668	0.004	0.009	0.0053	0.00536	3.83E-02	9.90E-03	2.48E-07	5.87E-04	1.15E-03	8.08E-04	3.73E-02	3.64E-02	5.17E-02
996	490486.72	3861185.12	0.00549	0.00545	0.00247	0.01624	0.004	0.009	0.0054	0.00545	3.83E-02	1.01E-02	2.57E-07	5.72E-04	1.14E-03	8.07E-04	3.80E-02	3.71E-02	5.18E-02
997	490536.72	3861185.12	0.00548	0.00556	0.00256	0.01585	0.004	0.009	0.0055	0.00556	3.82E-02	1.03E-02	2.67E-07	5.58E-04	1.13E-03	8.07E-04	3.87E-02	3.78E-02	5.18E-02
998	490586.72	3861185.12	0.00546	0.00566	0.00264	0.01547	0.004	0.009	0.0056	0.00566	3.81E-02	1.05E-02	2.75E-07	5.44E-04	1.11E-03	8.06E-04	3.93E-02	3.85E-02	5.18E-02
999	490636.72	3861185.12	0.00544	0.00576	0.00269	0.01509	0.003	0.009	0.0057	0.00576	3.79E-02	1.06E-02	2.80E-07	5.31E-04	1.09E-03	8.02E-04	4.00E-02	3.92E-02	5.19E-02
1000	490686.72	3861185.12	0.00542	0.00587	0.00272	0.01476	0.003	0.009	0.0058	0.00587	3.78E-02	1.08E-02	2.83E-07	5.19E-04	1.07E-03	8.00E-04	4.08E-02	3.99E-02	5.19E-02
1001	490736.72	3861185.12	0.00541	0.00599	0.00273	0.01447	0.003	0.009	0.0059	0.00599	3.77E-02	1.11E-02	2.84E-07	5.09E-04	1.05E-03	8.00E-04	4.16E-02	4.07E-02	5.20E-02
1002	490786.72	3861185.12	0.00539	0.00611	0.00272	0.01419	0.003	0.009	0.006	0.00611	3.76E-02	1.13E-02	2.83E-07	4.99E-04	1.03E-03	8.00E-04	4.24E-02	4.15E-02	5.21E-02
1003	490836.72	3861185.12	0.00537	0.00624	0.0027	0.01392	0.003	0.009	0.0061	0.00624	3.74E-02	1.15E-02	2.81E-07	4.90E-04	1.01E-03	7.99E-04	4.34E-02	4.24E-02	5.22E-02
1004	490086.72	3861235.12	0.00526	0.00465	0.00215	0.02095	0.003	0.008	0.0046	0.00465	3.67E-02	8.59E-03	2.24E-07	7.37E-04	1.07E-03	7.74E-04	3.26E-02	3.16E-02	4.88E-02
1005	490136.72	3861235.12	0.00524	0.00472	0.00213	0.02011	0.003	0.008	0.0047	0.00472	3.65E-02	8.72E-03	2.22E-07	7.08E-04	1.09E-03	7.73E-04	3.30E-02	3.21E-02	4.87E-02
1006	490186.72	3861235.12	0.00523	0.00479	0.00213	0.01936	0.004	0.008	0.0047	0.00479	3.65E-02	8.85E-03	2.22E-07	6.81E-04	1.11E-03	7.73E-04	3.35E-02	3.26E-02	4.88E-02
1007	490236.72	3861235.12	0.00521	0.00487	0.00213	0.01867	0.004	0.008	0.0048	0.00487	3.63E-02	8.99E-03	2.22E-07	6.57E-04	1.12E-03	7.72E-04	3.40E-02	3.31E-02	4.88E-02
1008	490386.72	3861235.12	0.00517	0.0051	0.00221	0.01697	0.004	0.008	0.005	0.0051	3.60E-02	9.42E-03	2.30E-07	5.97E-04	1.13E-03	7.69E-04	3.56E-02	3.47E-02	4.89E-02
1009	490436.72	3861235.12	0.00516	0.00519	0.00227	0.01649	0.004	0.008	0.0051	0.00519	3.60E-02	9.59E-03	2.36E-07	5.80E-04	1.12E-03	7.68E-04	3.62E-02	3.53E-02	4.89E-02
1010	490486.72	3861235.12	0.00515	0.00528	0.00235	0.01605	0.004	0.008	0.0052	0.00528	3.59E-02	9.75E-03	2.45E-07	5.65E-04	1.12E-03	7.67E-04	3.68E-02	3.59E-02	4.90E-02
1011	490536.72	3861235.12	0.00514	0.00538	0.00244	0.01567	0.004	0.008	0.0053	0.00538	3.58E-02	9.94E-03	2.54E-07	5.52E-04	1.11E-03	7.69E-04	3.75E-02	3.66E-02	4.91E-02
1012	490586.72	3861235.12	0.00513	0.00548	0.00253	0.01531	0.004	0.008	0.0054	0.00548	3.58E-02	1.01E-02	2.63E-07	5.39E-04	1.10E-03	7.70E-04	3.82E-02	3.73E-02	4.92E-02
1013	490636.72	3861235.12	0.00511	0.00557	0.00258	0.01492	0.003	0.008	0.0055	0.00557	3.56E-02	1.03E-02	2.69E-07	5.25E-04	1.08E-03	7.65E-04	3.88E-02	3.79E-02	4.92E-02
1014	490686.72	3861235.12	0.0051	0.00568	0.00262	0.0146	0.003	0.008	0.0056	0.00568	3.56E-02	1.05E-02	2.73E-07	5.14E-04	1.07E-03	7.64E-04	3.95E-02	3.86E-02	4.92E-02
1015	490736.72	3861235.12	0.00509	0.00579	0.00265	0.01431	0.003	0.008	0.0057	0.00579	3.55E-02	1.07E-02	2.76E-07	5.04E-04	1.05E-03	7.64E-04	4.02E-02	3.94E-02	4.94E-02
1016	490786.72	3861235.12	0.00508	0.00591	0.00265	0.01403	0.003	0.008	0.0058	0.00591	3.54E-02	1.09E-02	2.76E-07	4.94E-04	1.03E-03	7.64E-04	4.10E-02	4.02E-02	4.95E-02
1017	490836.72	3861235.12	0.00507	0.00603	0.00263	0.01376	0.003	0.008	0.0059	0.00603	3.53E-02	1.11E-02	2.74E-07	4.84E-04	1.01E-03	7.63E-04	4.19E-02	4.10E-02	4.96E-02
1018	490086.72	3861285.12	0.00494	0.00453	0.00209	0.02081	0.003	0.008	0.0045	0.00453	3.44E-02	8.37E-03	2.18E-07	7.32E-04	1.04E-03	7.34E-04	3.18E-02	3.08E-02	4.63E-02
1019	490136.72	3861285.12	0.00493	0.0046	0.00207	0.01999	0.003	0.008	0.0046	0.0046	3.44E-02	8.50E-03	2.15E-07	7.04E-04	1.07E-03	7.35E-04	3.22E-02	3.13E-02	4.63E-02
1020	490186.72	3861285.12	0.00492	0.00467	0.00207	0.01922	0.003	0.008	0.0046	0.00467	3.43E-02	8.63E-03	2.15E-07	6.76E-04	1.08E-03	7.34E-04	3.27E-02	3.18E-02	4.63E-02
1021	490236.72	3861285.12	0.0049	0.00473	0.00207	0.01853	0.004	0.008	0.0047	0.00473	3.42E-02	8.74E-03	2.15E-07	6.52E-04	1.10E-03	7.33E-04	3.32E-02	3.22E-02	4.64E-02
1022	490386.72	3861285.12	0.00486	0.00496	0.00212	0.01681	0.004	0.008	0.0049	0.00496	3.39E-02	9.16E-03	2.21E-07	5.92E-04	1.11E-03	7.32E-04	3.46E-02	3.37E-02	4.64E-02
1023	490436.72	3861285.12	0.00485	0.00504	0.00217	0.01634	0.004	0.008	0.005	0.00504	3.38E-02	9.31E-03	2.26E-07	5.75E-04	1.11E-03	7.33E-04	3.52E-02	3.43E-02	4.65E-02
1024	490486.72	3861285.12	0.00484	0.00512	0.00224	0.01589	0.004	0.008	0.0051	0.00512	3.37E-02	9.46E-03	2.33E-07	5.59E-04	1.10E-03	7.32E-04	3.58E-02	3.48E-02	4.66E-02
1025	490536.72	3861285.12	0.00483	0.00521	0.00232	0.01549	0.003	0.008	0.0051	0.00521	3.37E-02	9.62E-03	2.42E-07	5.45E-04	1.09E-03	7.32E-04	3.63E-02	3.54E-02	4.66E-02
1026	490586.72	3861285.12	0.00482	0.00531	0.0024	0.01513	0.003	0.008	0.0052	0.00531	3.36E-02	9.81E-03	2.50E-07	5.33E-04	1.08E-03	7.32E-04	3.70E-02	3.61E-02	4.66E-02
1027	490636.72	3861285.12	0.00481	0.0054	0.00247	0.01476	0.003	0.008	0.0053	0.0054	3.35E-02	9.97E-03	2.57E-07	5.19E-04	1.07E-03	7.30E-04	3.76E-02	3.67E-02	4.67E-02
1028	490686.72	3861285.12	0.0048	0.00549	0.00252	0.01443	0.003	0.008	0.0054	0.00549	3.35E-02	1.01E-02	2.62E-07	5.08E-04	1.06E-03	7.29E-04	3.83E-02	3.73E-02	4.68E-02
1029	490736.72	3861285.12	0.0048	0.0056	0.00256	0.01416	0.003	0.008	0.0055	0.0056	3.35E-02	1.03E-02	2.67E-07	4.98E-04	1.04E-03	7.31E-04	3.90E-02	3.81E-02	4.70E-02
1030	490786.72	3861285.12	0.00479	0.00571	0.00257	0.01387	0.003	0.008	0.0056	0.00571	3.34E-02	1.05E-02	2.68E-07	4.88E-04	1.02E-03	7.30E-04	3.97E-02	3.88E-02	4.70E-02
1031	490836.72	3861285.12	0.00478	0.00582	0.00256	0.01359	0.003	0.008	0.0057	0.00582	3.33E-02	1.07E-02	2.67E-07	4.78E-04	1.00E-03	7.29E-04	4.05E-02	3.96E-02	4.72E-02
1032	490061.24	3859716.13	0.02974	0.04913	0.03751	0.05613	0.006	0.04	0.0487	0.04913	2.07E-01	9.07E-02	3.91E-06	1.98E-03	1.78E-03	3.77E-03	3.45E-01	3.34E-01	3.17E-01
1033	490111.24	3859716.13	0.03017	0.05955	0.03654	0.05942	0.006	0.042	0.0592	0.05955	2.10E-01	1.10E-01	3.80E-06	2.09E-03	1.75E-03	3.99E-03	4.19E-01	4.05E-01	3.42E-01
1034	490161.24	3859716.13	0.03105	0.07459	0.03604	0.06365	0.006	0.046	0.0741	0.07459	2.16E-01	1.38E-01	3.75E-06	2.24E-03	1.73E-03	4.28E-03	5.25E-01	5.07E-01	3.81E-01
1035	490211.24	3859716.13	0.03257	0.09742	0.03604	0.06913	0.005	0.05	0.0967	0.09742	2.27E-01	1.80E-01	3.75E-06	2.43E-03	1.71E-03	4.66E-03	6.85E-01	6.62E-01	4.38E-01
1036	490061.24	3859766.13	0.02809	0.03457	0.02933	0.04953	0.006	0.036	0.0341	0.03457	1.96E-01	6.38E-02	3.05E-06	1.74E-03	1.75E-03	3.38E-03	2.42E-01	2.35E-01	2.73E-01
1037	490111.24	3859766.13	0.02801	0.0394	0.0285	0.0514	0.005	0.037	0.0389	0.0394	1.95E-01	7.28E-02	2.97E-06	1.81E-03	1.71E-03	3.52E-03	2.76E-01	2.68E-01	2.83E-01
1038	490161.24	3859766.13	0.02808	0.04558	0.02774	0.05379	0.005	0.039	0.0451	0.04558	1.96E-01	8.42E-02	2.89E-06	1.89E-03	1.68E-03	3.69E-03	3.19E-01	3.10E-01	2.97E-01
1039	490211.24	3859766.13	0.02835	0.05403	0.02723	0.05694	0.005	0.042	0.0535	0.05403	1.98E-01	9.98E-02	2.83E-06	2.00E-03	1.66E-03	3.90E-03	3.79E-01	3.67E-01	3.16E-01
1040	490061.24	3859816.13	0.0271	0.02672	0.02359	0.04474	0.005	0.033	0.0263	0.02672	1.89E-01	4.93E-02	2.46E-06	1.57E-03	1.72E-03	3.10E-03	1.86E-01	1.82E-01	2.49E-01

1041	490111.24	3859816.13	0.02679	0.02945	0.0231	0.04576	0.005	0.034	0.029	0.02945	1.87E-01	5.44E-02	2.40E-06	1.61E-03	1.68E-03	3.18E-03	2.05E-01	2.00E-01	2.53E-01
1042	490161.24	3859816.13	0.02658	0.03278	0.02258	0.04719	0.005	0.035	0.0323	0.03278	1.85E-01	6.05E-02	2.35E-06	1.66E-03	1.64E-03	3.29E-03	2.29E-01	2.23E-01	2.58E-01
1043	490211.24	3859816.13	0.02646	0.0369	0.02205	0.04903	0.005	0.036	0.0364	0.0369	1.84E-01	6.82E-02	2.30E-06	1.73E-03	1.62E-03	3.42E-03	2.58E-01	2.51E-01	2.66E-01
1044	490061.24	3859866.13	0.0264	0.02187	0.01934	0.04113	0.005	0.031	0.0215	0.02187	1.84E-01	4.04E-02	2.01E-06	1.45E-03	1.70E-03	2.88E-03	1.52E-01	1.49E-01	2.34E-01
1045	490111.24	3859866.13	0.02598	0.02363	0.01915	0.04165	0.005	0.031	0.0232	0.02363	1.81E-01	4.36E-02	1.99E-06	1.47E-03	1.65E-03	2.94E-03	1.65E-01	1.61E-01	2.35E-01
1046	490161.24	3859866.13	0.02562	0.02572	0.01887	0.04247	0.005	0.032	0.0253	0.02572	1.79E-01	4.75E-02	1.96E-06	1.49E-03	1.62E-03	3.01E-03	1.79E-01	1.75E-01	2.36E-01
1047	490211.24	3859866.13	0.02533	0.02816	0.01854	0.04358	0.005	0.033	0.0277	0.02816	1.77E-01	5.20E-02	1.93E-06	1.53E-03	1.59E-03	3.09E-03	1.96E-01	1.91E-01	2.40E-01
1048	490061.24	3859916.13	0.02584	0.01858	0.01612	0.03834	0.005	0.029	0.0182	0.01858	1.80E-01	3.43E-02	1.68E-06	1.35E-03	1.68E-03	2.72E-03	1.29E-01	1.26E-01	2.23E-01
1049	490111.24	3859916.13	0.02534	0.01983	0.01614	0.03853	0.005	0.029	0.0195	0.01983	1.77E-01	3.66E-02	1.68E-06	1.36E-03	1.64E-03	2.75E-03	1.38E-01	1.35E-01	2.22E-01
1050	490161.24	3859916.13	0.02489	0.02123	0.016	0.03892	0.005	0.03	0.0208	0.02123	1.74E-01	3.92E-02	1.67E-06	1.37E-03	1.59E-03	2.79E-03	1.48E-01	1.44E-01	2.22E-01
1051	490211.24	3859916.13	0.0245	0.02283	0.0158	0.03952	0.005	0.03	0.0224	0.02283	1.71E-01	4.22E-02	1.64E-06	1.39E-03	1.56E-03	2.84E-03	1.59E-01	1.55E-01	2.22E-01
1052	490229.25	3859815.26	0.02648	0.03894	0.02197	0.04999	0.005	0.037	0.0384	0.03894	1.85E-01	7.19E-02	2.29E-06	1.76E-03	1.61E-03	3.49E-03	2.72E-01	2.65E-01	2.71E-01
1053	490279.25	3859815.26	0.02652	0.04478	0.02157	0.05258	0.005	0.039	0.0442	0.04478	1.85E-01	8.27E-02	2.25E-06	1.85E-03	1.60E-03	3.67E-03	3.13E-01	3.04E-01	2.83E-01
1054	490329.25	3859815.26	0.02675	0.05256	0.0214	0.05591	0.005	0.041	0.0518	0.05256	1.86E-01	9.71E-02	2.23E-06	1.97E-03	1.59E-03	3.90E-03	3.67E-01	3.57E-01	3.00E-01
1055	490379.25	3859815.26	0.02728	0.06391	0.02153	0.06053	0.005	0.045	0.0628	0.06391	1.90E-01	1.18E-01	2.24E-06	2.13E-03	1.58E-03	4.22E-03	4.45E-01	4.35E-01	3.26E-01
1056	490429.25	3859815.26	0.02826	0.08148	0.02189	0.0669	0.005	0.05	0.0796	0.08148	1.97E-01	1.50E-01	2.28E-06	2.35E-03	1.58E-03	4.66E-03	5.64E-01	5.54E-01	3.66E-01
1057	490229.25	3859865.26	0.02526	0.02928	0.01847	0.04415	0.005	0.033	0.0288	0.02928	1.76E-01	5.41E-02	1.92E-06	1.55E-03	1.58E-03	3.13E-03	2.04E-01	1.99E-01	2.41E-01
1058	490279.25	3859865.26	0.02507	0.03244	0.01807	0.0457	0.005	0.035	0.0319	0.03244	1.75E-01	5.99E-02	1.88E-06	1.61E-03	1.56E-03	3.24E-03	2.26E-01	2.21E-01	2.47E-01
1059	490329.25	3859865.26	0.02496	0.03635	0.01772	0.04768	0.005	0.036	0.0357	0.03635	1.74E-01	6.71E-02	1.84E-06	1.68E-03	1.54E-03	3.38E-03	2.53E-01	2.47E-01	2.54E-01
1060	490379.25	3859865.26	0.02499	0.04142	0.01753	0.05031	0.005	0.038	0.0407	0.04142	1.74E-01	7.65E-02	1.82E-06	1.77E-03	1.53E-03	3.56E-03	2.88E-01	2.82E-01	2.64E-01
1061	490429.25	3859865.26	0.02518	0.04819	0.01753	0.05375	0.005	0.04	0.0473	0.04819	1.76E-01	8.90E-02	1.82E-06	1.89E-03	1.53E-03	3.80E-03	3.35E-01	3.28E-01	2.79E-01
1062	490229.25	3859915.26	0.02439	0.02355	0.01578	0.03988	0.005	0.031	0.0231	0.02355	1.70E-01	4.35E-02	1.64E-06	1.40E-03	1.55E-03	2.87E-03	1.64E-01	1.60E-01	2.23E-01
1063	490279.25	3859915.26	0.02407	0.02549	0.01552	0.04078	0.005	0.031	0.025	0.02549	1.68E-01	4.71E-02	1.62E-06	1.44E-03	1.52E-03	2.94E-03	1.77E-01	1.73E-01	2.25E-01
1064	490329.25	3859915.26	0.02382	0.02783	0.01523	0.04201	0.005	0.032	0.0273	0.02783	1.66E-01	5.14E-02	1.59E-06	1.48E-03	1.50E-03	3.03E-03	1.94E-01	1.89E-01	2.28E-01
1065	490379.25	3859915.26	0.02365	0.03067	0.01495	0.04361	0.005	0.033	0.0301	0.03067	1.65E-01	5.66E-02	1.56E-06	1.53E-03	1.49E-03	3.14E-03	2.13E-01	2.09E-01	2.32E-01
1066	490429.25	3859915.26	0.02357	0.03413	0.01474	0.04561	0.005	0.035	0.0335	0.03413	1.64E-01	6.30E-02	1.53E-06	1.61E-03	1.48E-03	3.28E-03	2.37E-01	2.32E-01	2.39E-01
1067	490451.43	3859872.59	0.02501	0.0487	0.01707	0.05397	0.005	0.041	0.0477	0.0487	1.74E-01	8.99E-02	1.78E-06	1.90E-03	1.52E-03	3.82E-03	3.38E-01	3.31E-01	2.79E-01
1068	490501.43	3859872.59	0.02546	0.05853	0.01727	0.05877	0.005	0.044	0.0571	0.05853	1.77E-01	1.08E-01	1.80E-06	2.07E-03	1.52E-03	4.15E-03	4.05E-01	3.98E-01	3.00E-01
1069	490551.43	3859872.59	0.02626	0.07376	0.01764	0.06543	0.005	0.049	0.0715	0.07376	1.83E-01	1.36E-01	1.84E-06	2.30E-03	1.53E-03	4.61E-03	5.07E-01	5.02E-01	3.33E-01
1070	490601.43	3859872.59	0.02759	0.09801	0.01806	0.07448	0.005	0.056	0.0941	0.09801	1.92E-01	1.81E-01	1.88E-06	2.62E-03	1.54E-03	5.26E-03	6.66E-01	6.66E-01	3.83E-01
1071	490451.43	3859922.59	0.02337	0.03442	0.01437	0.04568	0.005	0.035	0.0338	0.03442	1.63E-01	6.36E-02	1.50E-06	1.61E-03	1.47E-03	3.29E-03	2.39E-01	2.34E-01	2.38E-01
1072	490501.43	3859922.59	0.02344	0.03898	0.01434	0.04841	0.005	0.037	0.0382	0.03898	1.63E-01	7.20E-02	1.49E-06	1.70E-03	1.47E-03	3.48E-03	2.71E-01	2.65E-01	2.48E-01
1073	490551.43	3859922.59	0.02369	0.04524	0.01447	0.0521	0.005	0.04	0.0442	0.04524	1.65E-01	8.36E-02	1.51E-06	1.83E-03	1.47E-03	3.73E-03	3.13E-01	3.08E-01	2.61E-01
1074	490601.43	3859922.59	0.02414	0.05399	0.01472	0.05696	0.005	0.043	0.0525	0.05399	1.68E-01	9.97E-02	1.53E-06	2.00E-03	1.48E-03	4.06E-03	3.72E-01	3.67E-01	2.81E-01
1075	482129.67	3852241.07	0.0118	0.06427	0.00146	0.00202	0.002	0.002	0.0647	0.06427	8.23E-02	1.19E-01	1.52E-07	7.11E-05	6.14E-04	2.31E-04	4.58E-01	4.37E-01	2.23E-01
1076	482029.67	3852291.07	0.01941	0.11996	0.00144	0.00208	0.002	0.002	0.1203	0.11996	1.35E-01	2.22E-01	1.50E-07	7.32E-05	6.27E-04	2.32E-04	8.53E-01	8.16E-01	3.95E-01
1077	482079.67	3852291.07	0.01566	0.09303	0.00145	0.00207	0.002	0.002	0.0934	0.09303	1.09E-01	1.72E-01	1.51E-07	7.29E-05	6.27E-04	2.34E-04	6.62E-01	6.33E-01	3.11E-01
1078	482129.67	3852291.07	0.01337	0.07562	0.00148	0.00207	0.002	0.003	0.076	0.07562	9.32E-02	1.40E-01	1.54E-07	7.29E-05	6.24E-04	2.37E-04	5.39E-01	5.14E-01	2.58E-01
1079	482179.67	3852291.07	0.01187	0.06291	0.00151	0.00208	0.002	0.003	0.0633	0.06291	8.28E-02	1.16E-01	1.57E-07	7.32E-05	6.20E-04	2.40E-04	4.48E-01	4.28E-01	2.20E-01
1080	482229.67	3852291.07	0.01084	0.05325	0.00155	0.00209	0.002	0.003	0.0536	0.05325	7.56E-02	9.83E-02	1.61E-07	7.36E-05	6.17E-04	2.42E-04	3.80E-01	3.62E-01	1.93E-01
1081	482029.67	3852341.07	0.02577	0.16545	0.00148	0.00213	0.002	0.003	0.1657	0.16545	1.80E-01	3.06E-01	1.54E-07	7.50E-05	6.36E-04	2.39E-04	1.17E+00	1.13E+00	5.35E-01
1082	482079.67	3852341.07	0.0194	0.11891	0.00148	0.00212	0.002	0.003	0.1193	0.11891	1.35E-01	2.20E-01	1.54E-07	7.46E-05	6.36E-04	2.41E-04	8.45E-01	8.09E-01	3.92E-01
1083	482129.67	3852341.07	0.01569	0.0923	0.0015	0.00212	0.002	0.003	0.0927	0.0923	1.09E-01	1.70E-01	1.56E-07	7.46E-05	6.33E-04	2.43E-04	6.57E-01	6.28E-01	3.10E-01
1084	482179.67	3852341.07	0.01343	0.07473	0.00153	0.00212	0.002	0.003	0.0751	0.07473	9.36E-02	1.38E-01	1.59E-07	7.46E-05	6.30E-04	2.45E-04	5.32E-01	5.08E-01	2.57E-01
1085	482259.06	3852400.14	0.01278	0.07051	0.00166	0.00219	0.002	0.003	0.0709	0.07051	8.91E-02	1.30E-01	1.73E-07	7.71E-05	6.39E-04	2.58E-04	5.02E-01	4.79E-01	2.43E-01
1086	482309.06	3852400.14	0.01155	0.05827	0.0017	0.00221	0.002	0.003	0.0586	0.05827	8.05E-02	1.08E-01	1.77E-07	7.78E-05	6.36E-04	2.60E-04	4.15E-01	3.96E-01	2.08E-01
1087	482209.06	3852450.14	0.01769	0.10562	0.00163	0.00224	0.002	0.003	0.106	0.10562	1.23E-01	1.95E-01	1.70E-07	7.88E-05	6.52E-04	2.62E-04	7.51E-01	7.18E-01	3.52E-01
1088	482259.06	3852450.14	0.01475	0.0842	0.00168	0.00224	0.002	0.003	0.0846	0.0842	1.03E-01	1.56E-01	1.75E-07	7.88E-05	6.49E-04	2.65E-04	5.99E-01	5.73E-01	2.86E-01
1089	482309.06	3852450.14	0.01291	0.06876	0.00172	0.00226	0.002	0.003	0.0691	0.06876	9.00E-02	1.27E-01	1.79E-07	7.95E-05	6.49E-04	2.68E-04	4.90E-01	4.68E-01	2.40E-01
1090	482209.06	3852500.14	0.02272	0.13913	0.00166	0.0023	0.002	0.003	0.1395	0.13913	1.58E-01	2.57E-01	1.73E-07	8.10E-05	6.61E-04	2.70E-04	9.89E-01	9.46E-01	4.59E-01
1091	482259.06	3852500.14	0.01775	0.10463	0.0017	0.0023	0.002	0.003	0.105	0.10463	1.24E-01	1.93E-01	1.77E-07	8.10E-05	6.61E-04	2.73E-04	7.44E-01	7.11E-01	3.51E-01
1092	482309.06	3852500.14	0.01486	0.08282	0.00174	0.00231	0.002	0.003	0.0832	0.08282	1.04E-01	1.53E-01	1.81E-07	8.13E-05	6.58E-04	2.74E-04	5.89E-01	5.63E-01	2.84E-01
1093	482283.91	3852513.62	0.01698	0.09861	0.00173	0.00232	0.002	0.003	0.099	0.09861	1.18E-01	1.82E-01	1.80E-07	8.17E-05	6.61E-04	2.75E-04	7.01E-01	6.71E-01	3.32E-01
1094	482333.91	3852513.62	0.01439	0.07913	0.00179	0.00233	0.002	0.003	0.0795	0.07913	1.00E-01	1.46E-01	1.86E-07	8.20E-05	6.61E-04	2.78E-04	5.63E-01	5.38E-01	2.73E-01
1095	482283.91	3852563.62	0.02137	0.12785	0.00176	0.00239	0.002	0.003	0.1283	0.12785	1.49E-01	2.36E-01	1.83E-07	8.41E-05	6.71E-04	2.84E-04	9.09E-01	8.69E-01	4.26E-01
1096	482333.91	3852563.62	0.01706	0.09811	0.00182	0.00239	0.002	0.003	0.0985	0.09811	1.19E-01	1.81E-01	1.89E-07	8.41E-05	6.71E-04	2.87E-04	6.98E-01	6.67E-01	3.32E-01
1097	482383.91	3852563.62	0.01448	0.07925	0.00189	0.00241	0.002	0.003	0.0796	0.07925	1.01E-01	1.46E-01	1.97E-07	8.48E-05	6.67E-04	2.89E-04	5.64E-01	5.39E-01	2.73E-01
1098	482283.91	3852613.62	0.02854	0.1775	0.00178	0.00246	0.002	0.003	0.1778	0.1775	1.99E-01	3.28E-01	1.85E-07	8.66E-05	6.80E-04	2.92E-04	1.26E+00	1.21E+00	5.80E-01

1099	482333.91	3852613.62	0.02143	0.12657	0.00185	0.00246	0.002	0.003	0.1269	0.12657	1.49E-01	2.34E-01	1.93E-07	8.66E-05	6.80E-04	2.95E-04	8.99E-01	8.61E-01	4.23E-01
1100	482383.91	3852613.62	0.01716	0.09754	0.00192	0.00247	0.002	0.003	0.0979	0.09754	1.20E-01	1.80E-01	2.00E-07	8.69E-05	6.80E-04	2.98E-04	6.94E-01	6.63E-01	3.31E-01
1101	482602.38	3852600.87	0.01045	0.04426	0.0022	0.00254	0.002	0.003	0.0446	0.04426	7.29E-02	8.17E-02	2.29E-07	8.94E-05	6.67E-04	2.93E-04	3.16E-01	3.01E-01	1.70E-01
1102	482652.38	3852600.87	0.00984	0.0395	0.00222	0.00256	0.002	0.003	0.0399	0.0395	6.86E-02	7.30E-02	2.31E-07	9.01E-05	6.61E-04	2.92E-04	2.83E-01	2.69E-01	1.57E-01
1103	482702.38	3852600.87	0.0094	0.03451	0.00221	0.00259	0.002	0.003	0.035	0.03451	6.55E-02	6.37E-02	2.30E-07	9.12E-05	6.61E-04	2.90E-04	2.48E-01	2.35E-01	1.44E-01
1104	482552.38	3852650.87	0.01228	0.05831	0.0022	0.00259	0.002	0.003	0.0585	0.05831	8.56E-02	1.08E-01	2.29E-07	9.12E-05	6.80E-04	3.05E-04	4.15E-01	3.96E-01	2.13E-01
1105	482602.38	3852650.87	0.0113	0.05026	0.00226	0.00261	0.002	0.003	0.0506	0.05026	7.88E-02	9.28E-02	2.35E-07	9.19E-05	6.77E-04	3.04E-04	3.58E-01	3.42E-01	1.89E-01
1106	482652.38	3852650.87	0.01053	0.04441	0.0023	0.00263	0.002	0.003	0.0448	0.04441	7.34E-02	8.20E-02	2.39E-07	9.26E-05	6.74E-04	3.04E-04	3.17E-01	3.02E-01	1.72E-01
1107	482702.38	3852650.87	0.00991	0.03973	0.00231	0.00265	0.002	0.003	0.0402	0.03973	6.91E-02	7.34E-02	2.40E-07	9.33E-05	6.71E-04	3.03E-04	2.85E-01	2.70E-01	1.58E-01
1108	482552.38	3852700.87	0.01379	0.06859	0.00225	0.00266	0.002	0.003	0.0688	0.06859	9.61E-02	1.27E-01	2.34E-07	9.36E-05	6.92E-04	3.17E-04	4.88E-01	4.66E-01	2.45E-01
1109	482602.38	3852700.87	0.01242	0.05866	0.00232	0.00268	0.002	0.003	0.059	0.05866	8.66E-02	1.08E-01	2.42E-07	9.43E-05	6.89E-04	3.16E-04	4.18E-01	3.99E-01	2.15E-01
1110	482652.38	3852700.87	0.01137	0.05183	0.00239	0.0027	0.002	0.003	0.0522	0.05183	7.93E-02	9.57E-02	2.49E-07	9.50E-05	6.86E-04	3.18E-04	3.70E-01	3.52E-01	1.94E-01
1111	482702.38	3852700.87	0.01061	0.04517	0.0024	0.00272	0.002	0.003	0.0457	0.04517	7.40E-02	8.34E-02	2.50E-07	9.57E-05	6.83E-04	3.16E-04	3.23E-01	3.07E-01	1.75E-01
1112	482452.38	3852750.87	0.02406	0.13791	0.0021	0.0027	0.002	0.003	0.1381	0.13791	1.68E-01	2.55E-01	2.19E-07	9.50E-05	7.05E-04	3.28E-04	9.79E-01	9.38E-01	4.65E-01
1113	482521.29	3852749.74	0.01755	0.09394	0.00223	0.00272	0.002	0.004	0.0942	0.09394	1.22E-01	1.74E-01	2.32E-07	9.57E-05	7.05E-04	3.29E-04	6.67E-01	6.39E-01	3.26E-01
1114	482571.29	3852749.74	0.01503	0.07636	0.00233	0.00275	0.002	0.004	0.0766	0.07636	1.05E-01	1.41E-01	2.43E-07	9.68E-05	7.02E-04	3.29E-04	5.43E-01	5.19E-01	2.71E-01
1115	482521.29	3852799.74	0.0219	0.12086	0.00227	0.00281	0.002	0.004	0.1211	0.12086	1.53E-01	2.23E-01	2.36E-07	9.89E-05	7.14E-04	3.41E-04	8.58E-01	8.22E-01	4.13E-01
1116	482571.29	3852799.74	0.01782	0.09356	0.00238	0.00283	0.002	0.004	0.0938	0.09356	1.24E-01	1.73E-01	2.48E-07	9.96E-05	7.14E-04	3.41E-04	6.65E-01	6.36E-01	3.27E-01
1117	482621.29	3852799.74	0.0153	0.0759	0.00246	0.00285	0.002	0.004	0.0762	0.0759	1.07E-01	1.40E-01	2.56E-07	1.00E-04	7.11E-04	3.41E-04	5.40E-01	5.16E-01	2.72E-01
1118	482571.29	3852849.74	0.02242	0.11938	0.00241	0.00293	0.002	0.004	0.1196	0.11938	1.56E-01	2.20E-01	2.51E-07	1.03E-04	7.24E-04	3.55E-04	8.47E-01	8.12E-01	4.14E-01
1119	482621.29	3852849.74	0.01831	0.09193	0.00251	0.00295	0.002	0.004	0.0922	0.09193	1.28E-01	1.70E-01	2.61E-07	1.04E-04	7.24E-04	3.54E-04	6.54E-01	6.25E-01	3.27E-01
1120	482577.42	3852901.55	0.02969	0.15754	0.00246	0.00304	0.002	0.004	0.1577	0.15754	2.07E-01	2.91E-01	2.56E-07	1.07E-04	7.36E-04	3.70E-04	1.12E+00	1.07E+00	5.45E-01
1121	482627.42	3852901.55	0.02283	0.1133	0.00256	0.00307	0.002	0.004	0.1136	0.1133	1.59E-01	2.09E-01	2.67E-07	1.08E-04	7.36E-04	3.70E-04	8.05E-01	7.70E-01	4.04E-01
1122	482629.96	3852955.85	0.03123	0.1541	0.00262	0.00319	0.002	0.004	0.1546	0.1541	2.18E-01	2.85E-01	2.73E-07	1.12E-04	7.49E-04	3.88E-04	1.10E+00	1.05E+00	5.51E-01
1123	482679.96	3852955.85	0.02396	0.11014	0.00272	0.00322	0.002	0.004	0.111	0.11014	1.67E-01	2.03E-01	2.83E-07	1.13E-04	7.49E-04	3.87E-04	7.86E-01	7.49E-01	4.09E-01
1124	482781.63	3853034.48	0.02171	0.0812	0.00295	0.00349	0.002	0.004	0.0829	0.0812	1.51E-01	1.50E-01	3.07E-07	1.23E-04	7.68E-04	4.15E-04	5.87E-01	5.52E-01	3.38E-01
1125	482831.63	3853034.48	0.01831	0.06536	0.00296	0.00352	0.002	0.004	0.0668	0.06536	1.28E-01	1.21E-01	3.08E-07	1.24E-04	7.68E-04	4.13E-04	4.73E-01	4.44E-01	2.78E-01
1126	482881.63	3853034.48	0.0161	0.05423	0.00293	0.00357	0.002	0.004	0.0555	0.05423	1.12E-01	1.00E-01	3.05E-07	1.26E-04	7.65E-04	4.11E-04	3.93E-01	3.69E-01	2.38E-01
1127	482781.63	3853084.48	0.02509	0.09184	0.00305	0.00366	0.002	0.005	0.0936	0.09184	1.75E-01	1.70E-01	3.18E-07	1.29E-04	7.77E-04	4.38E-04	6.63E-01	6.24E-01	3.85E-01
1128	482831.63	3853084.48	0.02057	0.07205	0.00306	0.00369	0.002	0.005	0.0736	0.07205	1.43E-01	1.33E-01	3.19E-07	1.30E-04	7.77E-04	4.36E-04	5.21E-01	4.90E-01	3.09E-01
1129	482881.63	3853084.48	0.01774	0.05936	0.00304	0.00373	0.002	0.005	0.0607	0.05936	1.24E-01	1.10E-01	3.16E-07	1.31E-04	7.77E-04	4.34E-04	4.30E-01	4.04E-01	2.61E-01
1130	482781.63	3853134.48	0.029	0.10707	0.00315	0.00384	0.003	0.005	0.1089	0.10707	2.02E-01	1.98E-01	3.28E-07	1.35E-04	7.90E-04	4.63E-04	7.72E-01	7.28E-01	4.45E-01
1131	482831.63	3853134.48	0.02305	0.08099	0.00318	0.00387	0.003	0.005	0.0826	0.08099	1.61E-01	1.50E-01	3.31E-07	1.36E-04	7.90E-04	4.62E-04	5.85E-01	5.51E-01	3.46E-01
1132	482881.63	3853134.48	0.01949	0.06543	0.00317	0.00391	0.003	0.005	0.0668	0.06543	1.36E-01	1.21E-01	3.30E-07	1.38E-04	7.90E-04	4.62E-04	4.73E-01	4.45E-01	2.87E-01
1133	482831.63	3853184.48	0.02618	0.09296	0.0033	0.00408	0.003	0.005	0.0947	0.09296	1.83E-01	1.72E-01	3.44E-07	1.44E-04	8.02E-04	4.91E-04	6.71E-01	6.32E-01	3.94E-01
1134	482881.63	3853184.48	0.0216	0.07273	0.00331	0.00412	0.003	0.005	0.0743	0.07273	1.51E-01	1.34E-01	3.45E-07	1.45E-04	8.02E-04	4.92E-04	5.26E-01	4.95E-01	3.18E-01
1135	484154.84	3854250.98	0.03453	0.01126	0.01176	0.05493	0.004	0.038	0.03	0.01126	2.41E-01	2.08E-02	1.22E-06	1.93E-03	1.20E-03	3.53E-03	2.13E-01	7.66E-02	4.04E-01
1136	484204.84	3854250.98	0.03336	0.01091	0.01194	0.05095	0.004	0.035	0.0284	0.01091	2.33E-01	2.01E-02	1.24E-06	1.79E-03	1.19E-03	3.32E-03	2.01E-01	7.42E-02	3.86E-01
1137	484154.84	3854300.98	0.03766	0.01115	0.0136	0.0622	0.004	0.041	0.0329	0.01115	2.63E-01	2.06E-02	1.42E-06	2.19E-03	1.22E-03	3.83E-03	2.33E-01	7.58E-02	4.48E-01
1138	484204.84	3854300.98	0.03618	0.01088	0.01387	0.05767	0.004	0.038	0.0312	0.01088	2.52E-01	2.01E-02	1.44E-06	2.03E-03	1.22E-03	3.60E-03	2.21E-01	7.40E-02	4.26E-01
1139	484074.19	3854519.8	0.06689	0.01231	0.02923	0.22269	0.004	0.103	0.0843	0.01231	4.66E-01	2.27E-02	3.04E-06	7.84E-03	1.29E-03	9.72E-03	5.97E-01	8.37E-02	1.02E+00
1140	484124.19	3854519.8	0.062	0.01182	0.02878	0.17027	0.004	0.084	0.0711	0.01182	4.32E-01	2.18E-02	3.00E-06	5.99E-03	1.29E-03	7.92E-03	5.04E-01	8.04E-02	8.92E-01
1141	484074.19	3854569.8	0.07909	0.01262	0.03562	0.37789	0.004	0.146	0.1173	0.01262	5.51E-01	2.33E-02	3.71E-06	1.33E-02	1.32E-03	1.37E-02	8.31E-01	8.58E-02	1.35E+00
1142	484124.19	3854569.8	0.07217	0.01204	0.03468	0.24938	0.004	0.109	0.093	0.01204	5.03E-01	2.22E-02	3.61E-06	8.78E-03	1.32E-03	1.03E-02	6.59E-01	8.19E-02	1.12E+00
1143	485205.11	3855188.89	0.07078	0.01134	0.01893	0.18798	0.007	0.083	0.0672	0.01134	4.93E-01	2.09E-02	1.97E-06	6.62E-03	2.13E-03	7.76E-03	4.76E-01	7.71E-02	9.30E-01
1144	485255.11	3855188.89	0.06672	0.01095	0.01837	0.1469	0.007	0.07	0.0576	0.01095	4.65E-01	2.02E-02	1.91E-06	5.17E-03	2.13E-03	6.57E-03	4.08E-01	7.45E-02	8.33E-01
1145	485205.11	3855238.89	0.07827	0.01159	0.01851	0.26222	0.007	0.1	0.0778	0.01159	5.46E-01	2.14E-02	1.93E-06	9.23E-03	2.21E-03	9.36E-03	5.51E-01	7.88E-02	1.06E+00
1146	485255.11	3855238.89	0.07244	0.01131	0.01834	0.19309	0.007	0.083	0.066	0.01131	5.05E-01	2.09E-02	1.91E-06	6.80E-03	2.21E-03	7.77E-03	4.67E-01	7.69E-02	9.33E-01
1147	485205.11	3855288.89	0.08631	0.01226	0.01899	0.47875	0.007	0.14	0.1013	0.01226	6.02E-01	2.26E-02	1.98E-06	1.69E-02	2.30E-03	1.32E-02	7.18E-01	8.34E-02	1.29E+00
1148	485255.11	3855288.89	0.07879	0.0119	0.01891	0.29194	0.007	0.107	0.081	0.0119	5.49E-01	2.20E-02	1.97E-06	1.03E-02	2.31E-03	1.01E-02	5.74E-01	8.09E-02	1.09E+00
1149	485255.11	3855338.89	0.0877	0.01255	0.01972	0.54582	0.008	0.148	0.1037	0.01255	6.11E-01	2.32E-02	2.05E-06	1.92E-02	2.41E-03	1.39E-02	7.35E-01	8.53E-02	1.32E+00
1150	485305.11	3855338.89	0.07977	0.01212	0.01961	0.31977	0.008	0.112	0.0829	0.01212	5.56E-01	2.24E-02	2.04E-06	1.13E-02	2.42E-03	1.05E-02	5.87E-01	8.24E-02	1.11E+00
1151	485852.5	3855635.28	0.06225	0.01155	0.02865	0.119	0.011	0.058	0.0435	0.01155	4.34E-01	2.13E-02	2.98E-06	4.19E-03	3.40E-03	5.47E-03	3.08E-01	7.85E-02	6.98E-01
1152	485902.5	3855635.28	0.05968	0.01119	0.02797	0.10147	0.011	0.052	0.0393	0.01119	4.16E-01	2.07E-02	2.91E-06	3.57E-03	3.42E-03	4.89E-03	2.78E-01	7.61E-02	6.51E-01
1153	485852.5	3855685.28	0.06619	0.01194	0.03181	0.14714	0.011	0.066	0.0485	0.01194	4.61E-01	2.21E-02	3.31E-06	5.18E-03	3.58E-03	6.25E-03	3.44E-01	8.12E-02	7.61E-01
1154	485902.5	3855685.28	0.06315	0.01155	0.0308	0.12096	0.012	0.058	0.0432	0.01155	4.40E-01	2.13E-02	3.21E-06	4.26E-03	3.60E-03	5.49E-03	3.06E-01	7.85E-02	7.03E-01
1155	485852.5	3855735.28	0.0709	0.01235	0.03532	0.19232	0.012	0.078	0.0548	0.01235	4.94E-01	2.28E-02	3.68E-06	6.77E-03	3.79E-03	7.33E-03	3.88E-01	8.40E-02	8.39E-01
1156	485902.5	3855735.28	0.06703	0.012	0.03417	0.15206	0.012	0.067	0.0484	0.012	4.67E-01	2.22E-02	3.56E-06	5.35E-03	3.81E-03	6.32E-03	3.43E-01	8.16E-02	7.66E-01

1157	485852.5	3855785.28	0.0766	0.01287	0.03949	0.28133	0.013	0.097	0.0634	0.01287	5.34E-01	2.38E-02	4.11E-06	9.90E-03	4.01E-03	9.08E-03	4.49E-01	8.75E-02	9.43E-01
1158	485902.5	3855785.28	0.07192	0.01239	0.0376	0.20127	0.013	0.079	0.0545	0.01239	5.01E-01	2.29E-02	3.91E-06	7.08E-03	4.04E-03	7.43E-03	3.86E-01	8.43E-02	8.45E-01
1159	486809.46	3856465.28	0.06315	0.01226	0.01521	0.13094	0.056	0.061	0.0391	0.01226	4.40E-01	2.26E-02	1.58E-06	4.61E-03	1.75E-02	5.70E-03	2.77E-01	8.34E-02	6.85E-01
1160	486859.46	3856465.28	0.06018	0.01207	0.01503	0.11137	0.058	0.055	0.0362	0.01207	4.20E-01	2.23E-02	1.56E-06	3.92E-03	1.83E-02	5.17E-03	2.56E-01	8.21E-02	6.43E-01
1161	486909.46	3856465.28	0.05759	0.01186	0.0148	0.09701	0.061	0.05	0.0336	0.01186	4.02E-01	2.19E-02	1.54E-06	3.41E-03	1.91E-02	4.74E-03	2.38E-01	8.06E-02	6.08E-01
1162	486809.46	3856515.28	0.06668	0.01267	0.0146	0.16188	0.063	0.069	0.043	0.01267	4.65E-01	2.34E-02	1.52E-06	5.70E-03	1.97E-02	6.51E-03	3.05E-01	8.62E-02	7.39E-01
1163	486859.46	3856515.28	0.06317	0.01248	0.01451	0.13264	0.066	0.062	0.0394	0.01248	4.40E-01	2.30E-02	1.51E-06	4.67E-03	2.08E-02	5.80E-03	2.79E-01	8.49E-02	6.89E-01
1164	486909.46	3856515.28	0.06017	0.01228	0.01436	0.11257	0.07	0.056	0.0363	0.01228	4.19E-01	2.27E-02	1.49E-06	3.96E-03	2.18E-02	5.25E-03	2.57E-01	8.35E-02	6.47E-01
1165	486980.94	3856357.95	0.05029	0.0109	0.01553	0.06578	0.049	0.039	0.0267	0.0109	3.51E-01	2.01E-02	1.62E-06	2.32E-03	1.54E-02	3.62E-03	1.89E-01	7.41E-02	5.07E-01
1166	487030.94	3856357.95	0.04867	0.01075	0.01518	0.06074	0.051	0.037	0.0254	0.01075	3.39E-01	1.99E-02	1.58E-06	2.14E-03	1.60E-02	3.43E-03	1.80E-01	7.31E-02	4.87E-01
1167	486980.94	3856407.95	0.05204	0.01123	0.015	0.07251	0.056	0.041	0.0284	0.01123	3.63E-01	2.07E-02	1.56E-06	2.55E-03	1.74E-02	3.89E-03	2.01E-01	7.64E-02	5.32E-01
1168	487030.94	3856407.95	0.05026	0.01106	0.01467	0.06636	0.058	0.039	0.0269	0.01106	3.50E-01	2.04E-02	1.53E-06	2.34E-03	1.81E-02	3.67E-03	1.90E-01	7.52E-02	5.10E-01
1169	487447.18	3856437.45	0.04016	0.01013	0.01222	0.04094	0.076	0.028	0.0192	0.01013	2.80E-01	1.87E-02	1.27E-06	1.44E-03	2.37E-02	2.65E-03	1.36E-01	6.89E-02	3.94E-01
1170	487497.18	3856437.45	0.03918	0.01002	0.01206	0.0391	0.076	0.027	0.0186	0.01002	2.73E-01	1.85E-02	1.26E-06	1.38E-03	2.39E-02	2.57E-03	1.32E-01	6.81E-02	3.83E-01
1171	487547.18	3856437.45	0.03825	0.00993	0.01192	0.03745	0.077	0.027	0.018	0.00993	2.67E-01	1.83E-02	1.24E-06	1.32E-03	2.42E-02	2.49E-03	1.27E-01	6.75E-02	3.73E-01
1172	487447.18	3856487.45	0.04106	0.01039	0.01192	0.04322	0.091	0.029	0.02	0.01039	2.86E-01	1.92E-02	1.24E-06	1.52E-03	2.84E-02	2.77E-03	1.42E-01	7.07E-02	4.09E-01
1173	487497.18	3856487.45	0.04003	0.01027	0.01177	0.04115	0.092	0.029	0.0193	0.01027	2.79E-01	1.90E-02	1.23E-06	1.45E-03	2.88E-02	2.68E-03	1.37E-01	6.98E-02	3.98E-01
1174	487547.18	3856487.45	0.03904	0.01017	0.01163	0.0393	0.094	0.028	0.0186	0.01017	2.72E-01	1.88E-02	1.21E-06	1.38E-03	2.93E-02	2.60E-03	1.32E-01	6.92E-02	3.87E-01
1175	487447.18	3856537.45	0.04203	0.01066	0.01168	0.04578	0.11	0.031	0.0208	0.01066	2.93E-01	1.97E-02	1.22E-06	1.61E-03	3.44E-02	2.91E-03	1.47E-01	7.25E-02	4.27E-01
1176	487497.18	3856537.45	0.04093	0.01053	0.01153	0.04344	0.112	0.03	0.02	0.01053	2.85E-01	1.94E-02	1.20E-06	1.53E-03	3.51E-02	2.80E-03	1.42E-01	7.16E-02	4.14E-01
1177	487547.18	3856537.45	0.03987	0.01043	0.01141	0.04137	0.115	0.029	0.0193	0.01043	2.78E-01	1.93E-02	1.19E-06	1.46E-03	3.60E-02	2.71E-03	1.37E-01	7.09E-02	4.03E-01
1178	489285.89	3858826.54	0.04914	0.04791	0.01783	0.49404	0.013	0.132	0.0497	0.04791	3.43E-01	8.85E-02	1.86E-06	1.74E-02	3.99E-03	1.24E-02	3.52E-01	3.26E-01	4.91E-01
1179	489335.89	3858826.54	0.04708	0.04463	0.01822	0.3378	0.013	0.112	0.0456	0.04463	3.28E-01	8.24E-02	1.90E-06	1.19E-02	3.94E-03	1.05E-02	3.23E-01	3.03E-01	4.56E-01
1180	489385.89	3858826.54	0.04524	0.04175	0.01863	0.25922	0.012	0.098	0.042	0.04175	3.15E-01	7.71E-02	1.94E-06	9.12E-03	3.90E-03	9.18E-03	2.98E-01	2.84E-01	4.29E-01
1181	489435.89	3858826.54	0.0436	0.03926	0.01913	0.21208	0.012	0.088	0.0391	0.03926	3.04E-01	7.25E-02	1.99E-06	7.46E-03	3.88E-03	8.23E-03	2.77E-01	2.67E-01	4.06E-01
1182	489485.89	3858826.54	0.0421	0.03708	0.01989	0.18056	0.012	0.08	0.0366	0.03708	2.94E-01	6.85E-02	2.07E-06	6.36E-03	3.86E-03	7.50E-03	2.59E-01	2.52E-01	3.87E-01
1183	489535.89	3858826.54	0.04072	0.03514	0.02096	0.15788	0.012	0.074	0.0344	0.03514	2.84E-01	6.49E-02	2.18E-06	5.56E-03	3.86E-03	6.92E-03	2.44E-01	2.39E-01	3.70E-01
1184	489585.89	3858826.54	0.03946	0.03342	0.02177	0.1408	0.012	0.069	0.0325	0.03342	2.75E-01	6.17E-02	2.27E-06	4.96E-03	3.87E-03	6.44E-03	2.30E-01	2.27E-01	3.55E-01
1185	489635.89	3858826.54	0.03829	0.03187	0.02162	0.12737	0.012	0.064	0.0308	0.03187	2.67E-01	5.89E-02	2.25E-06	4.48E-03	3.89E-03	6.04E-03	2.18E-01	2.17E-01	3.42E-01
1186	489685.89	3858826.54	0.03721	0.03046	0.02087	0.11655	0.012	0.061	0.0294	0.03046	2.59E-01	5.63E-02	2.17E-06	4.10E-03	3.91E-03	5.70E-03	2.08E-01	2.07E-01	3.30E-01
1187	489735.89	3858826.54	0.0362	0.02916	0.02005	0.10766	0.013	0.057	0.028	0.02916	2.52E-01	5.39E-02	2.09E-06	3.79E-03	3.94E-03	5.40E-03	1.98E-01	1.98E-01	3.20E-01
1188	489785.89	3858826.54	0.03525	0.02801	0.01922	0.1003	0.013	0.055	0.0268	0.02801	2.46E-01	5.17E-02	2.00E-06	3.53E-03	3.97E-03	5.15E-03	1.90E-01	1.90E-01	3.10E-01
1189	489835.89	3858826.54	0.03438	0.02691	0.01865	0.09398	0.013	0.052	0.0257	0.02691	2.40E-01	4.97E-02	1.94E-06	3.31E-03	4.00E-03	4.92E-03	1.82E-01	1.83E-01	3.01E-01
1190	489885.89	3858826.54	0.03353	0.02592	0.01831	0.08866	0.013	0.05	0.0247	0.02592	2.34E-01	4.79E-02	1.91E-06	3.12E-03	4.02E-03	4.72E-03	1.75E-01	1.76E-01	2.92E-01
1191	489935.89	3858826.54	0.03273	0.02499	0.01788	0.08404	0.013	0.048	0.0238	0.02499	2.28E-01	4.62E-02	1.86E-06	2.96E-03	4.05E-03	4.54E-03	1.69E-01	1.70E-01	2.85E-01
1192	489985.89	3858826.54	0.03198	0.02412	0.01752	0.07996	0.013	0.046	0.0229	0.02412	2.23E-01	4.45E-02	1.82E-06	2.81E-03	4.07E-03	4.37E-03	1.62E-01	1.64E-01	2.77E-01
1193	490035.89	3858826.54	0.03129	0.02325	0.01742	0.07629	0.013	0.045	0.0221	0.02325	2.18E-01	4.29E-02	1.81E-06	2.69E-03	4.09E-03	4.21E-03	1.56E-01	1.58E-01	2.70E-01
1194	489285.89	3858876.54	0.05115	0.05542	0.01876	0.56935	0.012	0.173	0.0578	0.05542	3.57E-01	1.02E-01	1.95E-06	2.00E-02	3.82E-03	1.62E-02	4.09E-01	3.77E-01	5.32E-01
1195	489335.89	3858876.54	0.04879	0.05102	0.0192	0.381	0.012	0.138	0.0522	0.05102	3.40E-01	9.42E-02	2.00E-06	1.34E-02	3.76E-03	1.30E-02	3.70E-01	3.47E-01	4.88E-01
1196	489385.89	3858876.54	0.04672	0.04731	0.01976	0.28855	0.012	0.117	0.0477	0.04731	3.26E-01	8.74E-02	2.06E-06	1.02E-02	3.72E-03	1.10E-02	3.38E-01	3.22E-01	4.54E-01
1197	489435.89	3858876.54	0.04495	0.0441	0.02039	0.23337	0.012	0.102	0.044	0.0441	3.13E-01	8.14E-02	2.12E-06	8.21E-03	3.68E-03	9.56E-03	3.11E-01	3.00E-01	4.28E-01
1198	489485.89	3858876.54	0.04335	0.04132	0.02121	0.19663	0.012	0.091	0.0408	0.04132	3.02E-01	7.63E-02	2.21E-06	6.92E-03	3.66E-03	8.54E-03	2.89E-01	2.81E-01	4.06E-01
1199	489535.89	3858876.54	0.04186	0.03889	0.02241	0.17037	0.012	0.082	0.0381	0.03889	2.92E-01	7.18E-02	2.33E-06	6.00E-03	3.64E-03	7.75E-03	2.70E-01	2.64E-01	3.86E-01
1200	489585.89	3858876.54	0.0405	0.03672	0.02358	0.15055	0.012	0.076	0.0357	0.03672	2.82E-01	6.78E-02	2.45E-06	5.30E-03	3.64E-03	7.11E-03	2.53E-01	2.50E-01	3.69E-01
1201	489635.89	3858876.54	0.03922	0.03483	0.02375	0.13535	0.012	0.07	0.0337	0.03483	2.73E-01	6.43E-02	2.47E-06	4.76E-03	3.65E-03	6.60E-03	2.39E-01	2.37E-01	3.55E-01
1202	489685.89	3858876.54	0.03805	0.03314	0.02294	0.12312	0.012	0.066	0.0319	0.03314	2.65E-01	6.12E-02	2.39E-06	4.33E-03	3.67E-03	6.18E-03	2.26E-01	2.25E-01	3.41E-01
1203	489735.89	3858876.54	0.03697	0.03159	0.02196	0.11306	0.012	0.062	0.0303	0.03159	2.58E-01	5.83E-02	2.29E-06	3.98E-03	3.69E-03	5.81E-03	2.15E-01	2.15E-01	3.30E-01
1204	489785.89	3858876.54	0.03595	0.03022	0.02102	0.10482	0.012	0.059	0.0289	0.03022	2.51E-01	5.58E-02	2.19E-06	3.69E-03	3.71E-03	5.50E-03	2.05E-01	2.05E-01	3.19E-01
1205	489835.89	3858876.54	0.035	0.02896	0.02038	0.09775	0.012	0.056	0.0277	0.02896	2.44E-01	5.35E-02	2.12E-06	3.44E-03	3.74E-03	5.22E-03	1.96E-01	1.97E-01	3.09E-01
1206	489885.89	3858876.54	0.03409	0.02784	0.01997	0.09188	0.012	0.053	0.0266	0.02784	2.38E-01	5.14E-02	2.08E-06	3.23E-03	3.77E-03	4.99E-03	1.88E-01	1.89E-01	3.00E-01
1207	489935.89	3858876.54	0.03325	0.02675	0.01942	0.08665	0.012	0.051	0.0255	0.02675	2.32E-01	4.94E-02	2.02E-06	3.05E-03	3.79E-03	4.77E-03	1.80E-01	1.82E-01	2.91E-01
1208	489985.89	3858876.54	0.03247	0.02569	0.01908	0.08205	0.012	0.049	0.0244	0.02569	2.26E-01	4.74E-02	1.99E-06	2.89E-03	3.82E-03	4.58E-03	1.73E-01	1.75E-01	2.84E-01
1209	490035.89	3858876.54	0.03173	0.02472	0.01921	0.07805	0.012	0.047	0.0235	0.02472	2.21E-01	4.57E-02	2.00E-06	2.75E-03	3.85E-03	4.40E-03	1.66E-01	1.68E-01	2.76E-01
1210	489285.89	3858926.54	0.05459	0.06592	0.02028	0.78878	0.012	0.271	0.0691	0.06592	3.81E-01	1.22E-01	2.11E-06	2.78E-02	3.68E-03	2.55E-02	4.89E-01	4.48E-01	6.00E-01
1211	489335.89	3858926.54	0.05184	0.05974	0.02076	0.49518	0.012	0.195	0.0613	0.05974	3.61E-01	1.10E-01	2.16E-06	1.74E-02	3.61E-03	1.83E-02	4.34E-01	4.06E-01	5.39E-01
1212	489385.89	3858926.54	0.04952	0.0546	0.0214	0.35454	0.011	0.152	0.0551	0.0546	3.45E-01	1.01E-01	2.23E-06	1.25E-02	3.56E-03	1.43E-02	3.91E-01	3.71E-01	4.96E-01
1213	489435.89	3858926.54	0.0475	0.05035	0.02222	0.27598	0.011	0.126	0.0502	0.05035	3.31E-01	9.30E-02	2.31E-06	9.71E-03	3.51E-03	1.18E-02	3.56E-01	3.42E-01	4.63E-01
1214	489485.89	3858926.54	0.04557	0.04672	0.02316	0.22617	0.011	0.108	0.0461	0.04672	3.18E-01	8.63E-02	2.41E-06	7.96E-03	3.48E-03	1.02E-02	3.27E-01	3.18E-01	4.35E-01

1215	489535.89	3858926.54	0.04371	0.04358	0.02449	0.19198	0.011	0.096	0.0427	0.04358	3.05E-01	8.05E-02	2.55E-06	6.76E-03	3.46E-03	8.98E-03	3.03E-01	2.96E-01	4.11E-01
1216	489585.89	3858926.54	0.04205	0.04086	0.0261	0.1671	0.011	0.086	0.0398	0.04086	2.93E-01	7.55E-02	2.72E-06	5.88E-03	3.45E-03	8.08E-03	2.82E-01	2.78E-01	3.90E-01
1217	489635.89	3858926.54	0.04057	0.03848	0.02674	0.14826	0.011	0.078	0.0373	0.03848	2.83E-01	7.11E-02	2.78E-06	5.22E-03	3.45E-03	7.38E-03	2.64E-01	2.62E-01	3.72E-01
1218	489685.89	3858926.54	0.03923	0.03636	0.02591	0.13338	0.011	0.072	0.0351	0.03636	2.74E-01	6.72E-02	2.70E-06	4.69E-03	3.45E-03	6.80E-03	2.48E-01	2.47E-01	3.57E-01
1219	489735.89	3858926.54	0.03798	0.03453	0.02477	0.12159	0.011	0.067	0.0332	0.03453	2.65E-01	6.38E-02	2.58E-06	4.28E-03	3.47E-03	6.34E-03	2.35E-01	2.35E-01	3.43E-01
1220	489785.89	3858926.54	0.03684	0.03289	0.02368	0.11191	0.011	0.063	0.0315	0.03289	2.57E-01	6.07E-02	2.47E-06	3.94E-03	3.48E-03	5.95E-03	2.23E-01	2.24E-01	3.31E-01
1221	489835.89	3858926.54	0.0358	0.03137	0.02293	0.10365	0.011	0.06	0.03	0.03137	2.50E-01	5.79E-02	2.39E-06	3.65E-03	3.51E-03	5.61E-03	2.13E-01	2.13E-01	3.20E-01
1222	489885.89	3858926.54	0.0348	0.03002	0.02234	0.09677	0.011	0.057	0.0287	0.03002	2.43E-01	5.54E-02	2.33E-06	3.41E-03	3.53E-03	5.32E-03	2.03E-01	2.04E-01	3.09E-01
1223	489935.89	3858926.54	0.03389	0.02877	0.02173	0.09076	0.011	0.054	0.0274	0.02877	2.36E-01	5.31E-02	2.26E-06	3.19E-03	3.56E-03	5.07E-03	1.94E-01	1.96E-01	3.00E-01
1224	489985.89	3858926.54	0.03305	0.02758	0.02157	0.0855	0.011	0.051	0.0263	0.02758	2.30E-01	5.09E-02	2.25E-06	3.01E-03	3.59E-03	4.83E-03	1.86E-01	1.88E-01	2.91E-01
1225	490035.89	3858926.54	0.0323	0.02634	0.02193	0.08077	0.012	0.049	0.0251	0.02634	2.25E-01	4.86E-02	2.28E-06	2.84E-03	3.63E-03	4.61E-03	1.78E-01	1.79E-01	2.83E-01
1226	489335.89	3858976.54	0.06026	0.07214	0.0231	0.88238	0.011	0.339	0.0742	0.07214	4.20E-01	1.33E-01	2.40E-06	3.11E-02	3.48E-03	3.19E-02	5.26E-01	4.91E-01	6.55E-01
1227	489385.89	3858976.54	0.05799	0.06471	0.02383	0.53197	0.011	0.229	0.0654	0.06471	4.04E-01	1.20E-01	2.48E-06	1.87E-02	3.42E-03	2.16E-02	4.64E-01	4.40E-01	5.91E-01
1228	489435.89	3858976.54	0.05354	0.05882	0.02488	0.37151	0.011	0.172	0.0588	0.05882	3.73E-01	1.09E-01	2.59E-06	1.31E-02	3.37E-03	1.62E-02	4.16E-01	4.00E-01	5.31E-01
1229	489485.89	3858976.54	0.04975	0.05385	0.02605	0.28454	0.011	0.138	0.0533	0.05385	3.47E-01	9.95E-02	2.71E-06	1.00E-02	3.33E-03	1.30E-02	3.78E-01	3.66E-01	4.84E-01
1230	489535.89	3858976.54	0.04671	0.04965	0.02752	0.23085	0.011	0.116	0.0488	0.04965	3.26E-01	9.17E-02	2.87E-06	8.13E-03	3.30E-03	1.09E-02	3.45E-01	3.38E-01	4.47E-01
1231	489585.89	3858976.54	0.04434	0.04615	0.02958	0.19502	0.01	0.101	0.0451	0.04615	3.09E-01	8.52E-02	3.08E-06	6.86E-03	3.28E-03	9.52E-03	3.19E-01	3.14E-01	4.19E-01
1232	489635.89	3858976.54	0.04245	0.04308	0.03092	0.16904	0.01	0.09	0.0419	0.04308	2.96E-01	7.96E-02	3.22E-06	5.95E-03	3.26E-03	8.48E-03	2.97E-01	2.93E-01	3.97E-01
1233	489685.89	3858976.54	0.04082	0.0404	0.03023	0.1494	0.01	0.082	0.0391	0.0404	2.85E-01	7.46E-02	3.15E-06	5.26E-03	3.26E-03	7.67E-03	2.77E-01	2.75E-01	3.78E-01
1234	489735.89	3858976.54	0.03935	0.0381	0.02881	0.13424	0.01	0.075	0.0367	0.0381	2.74E-01	7.04E-02	3.00E-06	4.72E-03	3.27E-03	7.04E-03	2.60E-01	2.59E-01	3.61E-01
1235	489785.89	3858976.54	0.03802	0.0361	0.02752	0.12219	0.01	0.07	0.0347	0.0361	2.65E-01	6.67E-02	2.87E-06	4.30E-03	3.28E-03	6.54E-03	2.46E-01	2.45E-01	3.46E-01
1236	489835.89	3858976.54	0.03681	0.0343	0.02666	0.11223	0.011	0.065	0.0329	0.0343	2.57E-01	6.33E-02	2.78E-06	3.95E-03	3.29E-03	6.11E-03	2.33E-01	2.33E-01	3.33E-01
1237	489885.89	3858976.54	0.03574	0.03261	0.02575	0.10363	0.011	0.061	0.0312	0.03261	2.49E-01	6.02E-02	2.68E-06	3.65E-03	3.32E-03	5.73E-03	2.21E-01	2.22E-01	3.22E-01
1238	489935.89	3858976.54	0.03473	0.0311	0.02514	0.09643	0.011	0.058	0.0298	0.0311	2.42E-01	5.74E-02	2.62E-06	3.39E-03	3.35E-03	5.42E-03	2.11E-01	2.11E-01	3.11E-01
1239	489985.89	3858976.54	0.03379	0.02974	0.0254	0.09033	0.011	0.055	0.0284	0.02974	2.36E-01	5.49E-02	2.64E-06	3.18E-03	3.37E-03	5.14E-03	2.01E-01	2.02E-01	3.01E-01
1240	490035.89	3858976.54	0.03304	0.02803	0.02601	0.08411	0.011	0.051	0.0267	0.02803	2.30E-01	5.18E-02	2.71E-06	2.96E-03	3.42E-03	4.82E-03	1.89E-01	1.91E-01	2.92E-01
1241	489385.89	3859026.54	0.06833	0.07957	0.02744	0.62801	0.011	0.432	0.0809	0.07957	4.76E-01	1.47E-01	2.86E-06	2.21E-02	3.30E-03	4.06E-02	5.73E-01	5.41E-01	7.21E-01
1242	489435.89	3859026.54	0.06365	0.07067	0.02866	0.63159	0.01	0.274	0.071	0.07067	4.44E-01	1.31E-01	2.98E-06	2.22E-02	3.24E-03	2.58E-02	5.03E-01	4.81E-01	6.48E-01
1243	489485.89	3859026.54	0.05539	0.06356	0.03019	0.41739	0.01	0.196	0.0632	0.06356	3.86E-01	1.17E-01	3.14E-06	1.47E-02	3.20E-03	1.84E-02	4.48E-01	4.32E-01	5.56E-01
1244	489535.89	3859026.54	0.05062	0.05781	0.03205	0.3088	0.01	0.153	0.0571	0.05781	3.53E-01	1.07E-01	3.34E-06	1.09E-02	3.16E-03	1.43E-02	4.04E-01	3.93E-01	4.99E-01
1245	489585.89	3859026.54	0.04754	0.05298	0.03446	0.24491	0.01	0.126	0.052	0.05298	3.31E-01	9.79E-02	3.59E-06	8.62E-03	3.13E-03	1.18E-02	3.68E-01	3.60E-01	4.61E-01
1246	489635.89	3859026.54	0.04516	0.04898	0.03681	0.20369	0.01	0.108	0.0478	0.04898	3.15E-01	9.05E-02	3.83E-06	7.17E-03	3.11E-03	1.01E-02	3.39E-01	3.33E-01	4.31E-01
1247	489685.89	3859026.54	0.04312	0.04554	0.03659	0.17478	0.01	0.095	0.0443	0.04554	3.01E-01	8.41E-02	3.81E-06	6.15E-03	3.10E-03	8.92E-03	3.14E-01	3.10E-01	4.07E-01
1248	489735.89	3859026.54	0.04128	0.04263	0.03483	0.15359	0.01	0.085	0.0413	0.04263	2.88E-01	7.87E-02	3.63E-06	5.41E-03	3.10E-03	8.02E-03	2.93E-01	2.90E-01	3.86E-01
1249	489785.89	3859026.54	0.03964	0.04008	0.03319	0.13726	0.01	0.078	0.0387	0.04008	2.76E-01	7.40E-02	3.46E-06	4.83E-03	3.10E-03	7.32E-03	2.74E-01	2.73E-01	3.67E-01
1250	489835.89	3859026.54	0.03823	0.03774	0.03193	0.124	0.01	0.072	0.0364	0.03774	2.67E-01	6.97E-02	3.32E-06	4.36E-03	3.11E-03	6.73E-03	2.58E-01	2.57E-01	3.52E-01
1251	489885.89	3859026.54	0.03694	0.03573	0.03082	0.11332	0.01	0.067	0.0344	0.03573	2.58E-01	6.60E-02	3.21E-06	3.99E-03	3.13E-03	6.26E-03	2.43E-01	2.43E-01	3.37E-01
1252	489935.89	3859026.54	0.03578	0.0339	0.03046	0.10439	0.01	0.062	0.0326	0.0339	2.49E-01	6.26E-02	3.17E-06	3.67E-03	3.15E-03	5.86E-03	2.31E-01	2.31E-01	3.25E-01
1253	489985.89	3859026.54	0.03471	0.03224	0.03143	0.09685	0.01	0.059	0.0309	0.03224	2.42E-01	5.95E-02	3.27E-06	3.41E-03	3.18E-03	5.51E-03	2.19E-01	2.19E-01	3.13E-01
1254	490035.89	3859026.54	0.03389	0.03014	0.03288	0.08906	0.01	0.054	0.0289	0.03014	2.36E-01	5.57E-02	3.42E-06	3.13E-03	3.23E-03	5.12E-03	2.04E-01	2.05E-01	3.03E-01
1255	489485.89	3859076.54	0.06196	0.07771	0.0363	0.81758	0.01	0.336	0.0781	0.07771	4.32E-01	1.44E-01	3.78E-06	2.88E-02	3.08E-03	3.16E-02	5.54E-01	5.28E-01	6.64E-01
1256	489535.89	3859076.54	0.0587	0.06916	0.03876	0.49721	0.01	0.228	0.0689	0.06916	4.09E-01	1.28E-01	4.04E-06	1.75E-02	3.04E-03	2.14E-02	4.88E-01	4.70E-01	5.97E-01
1257	489585.89	3859076.54	0.05403	0.06233	0.04177	0.34786	0.01	0.17	0.0617	0.06233	3.77E-01	1.15E-01	4.35E-06	1.22E-02	3.00E-03	1.60E-02	4.37E-01	4.24E-01	5.36E-01
1258	489635.89	3859076.54	0.05015	0.05687	0.04541	0.26735	0.009	0.137	0.0559	0.05687	3.50E-01	1.05E-01	4.73E-06	9.41E-03	2.97E-03	1.29E-02	3.96E-01	3.87E-01	4.90E-01
1259	489685.89	3859076.54	0.04689	0.0523	0.04623	0.21766	0.009	0.116	0.0512	0.0523	3.27E-01	9.66E-02	4.81E-06	7.66E-03	2.95E-03	1.09E-02	3.63E-01	3.56E-01	4.52E-01
1260	489735.89	3859076.54	0.04415	0.04842	0.04399	0.18409	0.009	0.101	0.0472	0.04842	3.08E-01	8.94E-02	4.58E-06	6.48E-03	2.95E-03	9.45E-03	3.34E-01	3.29E-01	4.21E-01
1261	489785.89	3859076.54	0.0419	0.0451	0.04177	0.15994	0.009	0.089	0.0438	0.0451	2.92E-01	8.33E-02	4.35E-06	5.63E-03	2.94E-03	8.41E-03	3.10E-01	3.07E-01	3.96E-01
1262	489835.89	3859076.54	0.04005	0.04216	0.04008	0.14155	0.009	0.081	0.0409	0.04216	2.79E-01	7.79E-02	4.17E-06	4.98E-03	2.95E-03	7.60E-03	2.89E-01	2.87E-01	3.75E-01
1263	489885.89	3859076.54	0.03846	0.03959	0.03873	0.12716	0.009	0.074	0.0383	0.03959	2.68E-01	7.31E-02	4.03E-06	4.48E-03	2.96E-03	6.96E-03	2.71E-01	2.69E-01	3.58E-01
1264	489935.89	3859076.54	0.03705	0.03736	0.03929	0.11566	0.009	0.068	0.036	0.03736	2.58E-01	6.90E-02	4.09E-06	4.07E-03	2.97E-03	6.44E-03	2.55E-01	2.54E-01	3.42E-01
1265	489985.89	3859076.54	0.03582	0.03532	0.04167	0.10601	0.01	0.064	0.034	0.03532	2.50E-01	6.52E-02	4.34E-06	3.73E-03	3.00E-03	5.99E-03	2.41E-01	2.40E-01	3.29E-01
1266	490035.89	3859076.54	0.03483	0.03294	0.04485	0.09661	0.01	0.059	0.0317	0.03294	2.43E-01	6.08E-02	4.67E-06	3.40E-03	3.04E-03	5.53E-03	2.24E-01	2.24E-01	3.16E-01
1267	489585.89	3859126.54	0.06846	0.07596	0.05331	0.62204	0.009	0.271	0.0759	0.07596	4.77E-01	1.40E-01	5.55E-06	2.19E-02	2.89E-03	2.55E-02	5.37E-01	5.17E-01	6.89E-01
1268	489635.89	3859126.54	0.05925	0.06792	0.05855	0.4064	0.009	0.194	0.0674	0.06792	4.13E-01	1.25E-01	6.10E-06	1.43E-02	2.85E-03	1.82E-02	4.77E-01	4.62E-01	5.89E-01
1269	489685.89	3859126.54	0.05253	0.06141	0.0613	0.29865	0.009	0.151	0.0606	0.06141	3.66E-01	1.13E-01	6.38E-06	1.05E-02	2.83E-03	1.42E-02	4.29E-01	4.18E-01	5.19E-01
1270	489735.89	3859126.54	0.04795	0.05607	0.05851	0.23637	0.009	0.125	0.055	0.05607	3.34E-01	1.04E-01	6.09E-06	8.32E-03	2.81E-03	1.17E-02	3.90E-01	3.81E-01	4.69E-01
1271	489785.89	3859126.54	0.04475	0.05162	0.05538	0.19623	0.009	0.107	0.0505	0.05162	3.12E-01	9.53E-02	5.77E-06	6.91E-03	2.80E-03	1.00E-02	3.58E-01	3.51E-01	4.34E-01
1272	489835.89	3859126.54	0.04234	0.04778	0.05291	0.16806	0.009	0.094	0.0466	0.04778	2.95E-01	8.82E-02	5.51E-06	5.92E-03	2.80E-03	8.82E-03	3.30E-01	3.25E-01	4.06E-01

1273	489885.89	3859126.54	0.04036	0.04443	0.05182	0.14719	0.009	0.084	0.0432	0.04443	2.81E-01	8.21E-02	5.39E-06	5.18E-03	2.81E-03	7.91E-03	3.06E-01	3.02E-01	3.83E-01
1274	489935.89	3859126.54	0.03865	0.04161	0.05456	0.13143	0.009	0.077	0.0404	0.04161	2.69E-01	7.69E-02	5.68E-06	4.63E-03	2.82E-03	7.20E-03	2.86E-01	2.83E-01	3.64E-01
1275	489985.89	3859126.54	0.03722	0.03892	0.05948	0.11819	0.009	0.07	0.0377	0.03892	2.59E-01	7.19E-02	6.19E-06	4.16E-03	2.84E-03	6.59E-03	2.67E-01	2.65E-01	3.47E-01
1276	490035.89	3859126.54	0.03595	0.03639	0.06461	0.1073	0.009	0.065	0.0352	0.03639	2.51E-01	6.72E-02	6.73E-06	3.78E-03	2.87E-03	6.08E-03	2.49E-01	2.47E-01	3.32E-01
1277	489585.89	3859176.54	0.07604	0.09717	0.07177	0.57723	0.009	0.356	0.098	0.09717	5.30E-01	1.79E-01	7.47E-06	2.03E-02	2.79E-03	3.34E-02	6.94E-01	6.61E-01	7.99E-01
1278	489635.89	3859176.54	0.06753	0.08431	0.07967	0.82129	0.009	0.332	0.0843	0.08431	4.71E-01	1.56E-01	8.29E-06	2.89E-02	2.75E-03	3.12E-02	5.97E-01	5.73E-01	7.13E-01
1279	489685.89	3859176.54	0.05814	0.07453	0.08629	0.4925	0.009	0.225	0.074	0.07453	4.05E-01	1.38E-01	8.98E-06	1.73E-02	2.72E-03	2.12E-02	5.25E-01	5.07E-01	6.02E-01
1280	489735.89	3859176.54	0.05257	0.06681	0.08354	0.34207	0.009	0.169	0.0661	0.06681	3.67E-01	1.23E-01	8.70E-06	1.20E-02	2.69E-03	1.59E-02	4.68E-01	4.54E-01	5.34E-01
1281	489785.89	3859176.54	0.04868	0.06043	0.0784	0.2613	0.009	0.136	0.0595	0.06043	3.39E-01	1.12E-01	8.16E-06	9.20E-03	2.68E-03	1.27E-02	4.22E-01	4.11E-01	4.86E-01
1282	489835.89	3859176.54	0.04561	0.05521	0.07483	0.21175	0.009	0.114	0.0542	0.05521	3.18E-01	1.02E-01	7.79E-06	7.45E-03	2.68E-03	1.07E-02	3.84E-01	3.75E-01	4.49E-01
1283	489885.89	3859176.54	0.04302	0.05078	0.07598	0.17834	0.009	0.099	0.0497	0.05078	3.00E-01	9.38E-02	7.91E-06	6.28E-03	2.68E-03	9.30E-03	3.52E-01	3.45E-01	4.19E-01
1284	489935.89	3859176.54	0.04079	0.04708	0.0839	0.15478	0.009	0.088	0.046	0.04708	2.84E-01	8.70E-02	8.73E-06	5.45E-03	2.68E-03	8.28E-03	3.26E-01	3.20E-01	3.93E-01
1285	489985.89	3859176.54	0.03897	0.04364	0.0924	0.13618	0.009	0.079	0.0425	0.04364	2.72E-01	8.06E-02	9.62E-06	4.79E-03	2.70E-03	7.44E-03	3.01E-01	2.97E-01	3.72E-01
1286	490035.89	3859176.54	0.03733	0.04092	0.09838	0.12253	0.009	0.073	0.0398	0.04092	2.60E-01	7.56E-02	1.02E-05	4.31E-03	2.71E-03	6.82E-03	2.82E-01	2.78E-01	3.53E-01
1287	489685.89	3859226.54	0.0687	0.09469	0.1303	0.59462	0.008	0.42	0.0949	0.09469	4.79E-01	1.75E-01	1.36E-05	2.09E-02	2.63E-03	3.95E-02	6.72E-01	6.44E-01	7.45E-01
1288	489735.89	3859226.54	0.06529	0.08256	0.12975	0.62257	0.008	0.267	0.0823	0.08256	4.55E-01	1.52E-01	1.35E-05	2.19E-02	2.59E-03	2.51E-02	5.83E-01	5.61E-01	6.79E-01
1289	489785.89	3859226.54	0.05745	0.07305	0.12111	0.40423	0.008	0.192	0.0725	0.07305	4.01E-01	1.35E-01	1.26E-05	1.42E-02	2.57E-03	1.80E-02	5.14E-01	4.97E-01	5.88E-01
1290	489835.89	3859226.54	0.05158	0.0654	0.1165	0.29408	0.008	0.149	0.0647	0.0654	3.60E-01	1.21E-01	1.21E-05	1.04E-02	2.56E-03	1.40E-02	4.59E-01	4.45E-01	5.21E-01
1291	489885.89	3859226.54	0.04712	0.05928	0.12659	0.23146	0.008	0.123	0.0585	0.05928	3.29E-01	1.09E-01	1.32E-05	8.15E-03	2.56E-03	1.15E-02	4.15E-01	4.03E-01	4.72E-01
1292	489935.89	3859226.54	0.04377	0.05419	0.1439	0.19145	0.008	0.105	0.0533	0.05419	3.05E-01	1.00E-01	1.50E-05	6.74E-03	2.56E-03	9.88E-03	3.78E-01	3.68E-01	4.34E-01
1293	489985.89	3859226.54	0.04127	0.04952	0.15335	0.16227	0.008	0.092	0.0486	0.04952	2.88E-01	9.15E-02	1.60E-05	5.71E-03	2.58E-03	8.61E-03	3.44E-01	3.37E-01	4.04E-01
1294	490035.89	3859226.54	0.03918	0.0461	0.15892	0.14295	0.008	0.083	0.0452	0.0461	2.73E-01	8.51E-02	1.65E-05	5.03E-03	2.58E-03	7.76E-03	3.20E-01	3.13E-01	3.80E-01
1295	489735.89	3859276.54	0.07693	0.10813	0.22568	0.54171	0.008	0.334	0.109	0.10813	5.36E-01	2.00E-01	2.35E-05	1.91E-02	2.50E-03	3.14E-02	7.72E-01	7.35E-01	8.26E-01
1296	489785.89	3859276.54	0.07098	0.09244	0.20984	0.83597	0.008	0.327	0.0927	0.09244	4.95E-01	1.71E-01	2.18E-05	2.94E-02	2.48E-03	3.08E-02	6.57E-01	6.29E-01	7.57E-01
1297	489835.89	3859276.54	0.06008	0.08044	0.21325	0.49404	0.008	0.222	0.0804	0.08044	4.19E-01	1.49E-01	2.22E-05	1.74E-02	2.46E-03	2.09E-02	5.69E-01	5.47E-01	6.31E-01
1298	489885.89	3859276.54	0.05209	0.07139	0.25123	0.33969	0.008	0.167	0.0711	0.07139	3.63E-01	1.32E-01	2.62E-05	1.20E-02	2.45E-03	1.57E-02	5.04E-01	4.85E-01	5.43E-01
1299	489935.89	3859276.54	0.04736	0.064	0.27629	0.25731	0.008	0.134	0.0635	0.064	3.30E-01	1.18E-01	2.88E-05	9.06E-03	2.45E-03	1.26E-02	4.50E-01	4.35E-01	4.87E-01
1300	489985.89	3859276.54	0.0442	0.05743	0.27676	0.20495	0.008	0.111	0.0568	0.05743	3.08E-01	1.06E-01	2.88E-05	7.21E-03	2.47E-03	1.04E-02	4.03E-01	3.91E-01	4.46E-01
1301	490035.89	3859276.54	0.0416	0.05312	0.27042	0.1755	0.008	0.098	0.0524	0.05312	2.90E-01	9.81E-02	2.82E-05	6.18E-03	2.46E-03	9.21E-03	3.71E-01	3.61E-01	4.16E-01
1302	490458.06	3859590.74	0.05263	0.08963	0.07744	0.42568	0.006	0.184	0.0903	0.08963	3.67E-01	1.66E-01	8.06E-06	1.50E-02	1.90E-03	1.73E-02	6.40E-01	6.09E-01	5.97E-01
1303	490508.06	3859590.74	0.04623	0.07926	0.07185	0.31311	0.006	0.147	0.0798	0.07926	3.22E-01	1.46E-01	7.48E-06	1.10E-02	1.91E-03	1.38E-02	5.66E-01	5.39E-01	5.22E-01
1304	490558.06	3859590.74	0.04175	0.07064	0.06689	0.24666	0.006	0.123	0.0711	0.07064	2.91E-01	1.30E-01	6.96E-06	8.68E-03	1.93E-03	1.15E-02	5.04E-01	4.80E-01	4.67E-01
1305	490608.06	3859590.74	0.03849	0.06352	0.06229	0.2017	0.006	0.104	0.0638	0.06352	2.68E-01	1.17E-01	6.48E-06	7.10E-03	1.94E-03	9.79E-03	4.52E-01	4.32E-01	4.25E-01
1306	490658.06	3859590.74	0.03601	0.05756	0.05808	0.16974	0.006	0.091	0.0578	0.05756	2.51E-01	1.06E-01	6.05E-06	5.97E-03	1.96E-03	8.54E-03	4.09E-01	3.91E-01	3.92E-01
1307	490708.06	3859590.74	0.03404	0.05245	0.05424	0.14613	0.006	0.081	0.0526	0.05245	2.37E-01	9.69E-02	5.65E-06	5.14E-03	1.97E-03	7.57E-03	3.73E-01	3.57E-01	3.65E-01
1308	490758.06	3859590.74	0.03245	0.04791	0.05071	0.12785	0.006	0.072	0.048	0.04791	2.26E-01	8.85E-02	5.28E-06	4.50E-03	1.99E-03	6.80E-03	3.40E-01	3.26E-01	3.42E-01
1309	490808.06	3859590.74	0.03109	0.04429	0.04762	0.11447	0.006	0.066	0.0443	0.04429	2.17E-01	8.18E-02	4.96E-06	4.03E-03	2.01E-03	6.23E-03	3.14E-01	3.01E-01	3.24E-01
1310	490858.06	3859590.74	0.02994	0.04101	0.04472	0.10332	0.006	0.061	0.041	0.04101	2.09E-01	7.57E-02	4.66E-06	3.64E-03	2.03E-03	5.73E-03	2.90E-01	2.79E-01	3.08E-01
1311	490458.06	3859640.74	0.06816	0.12927	0.05934	0.88896	0.006	0.36	0.1313	0.12927	4.75E-01	2.39E-01	6.18E-06	3.13E-02	1.82E-03	3.39E-02	9.31E-01	8.79E-01	8.32E-01
1312	490508.06	3859640.74	0.06127	0.11	0.05747	0.66082	0.006	0.248	0.1116	0.11	4.27E-01	2.03E-01	5.98E-06	2.33E-02	1.83E-03	2.33E-02	7.91E-01	7.48E-01	7.22E-01
1313	490558.06	3859640.74	0.05223	0.09541	0.05468	0.43857	0.006	0.186	0.0968	0.09541	3.64E-01	1.76E-01	5.69E-06	1.54E-02	1.84E-03	1.75E-02	6.86E-01	6.49E-01	6.12E-01
1314	490608.06	3859640.74	0.04561	0.08285	0.05158	0.31854	0.006	0.147	0.084	0.08285	3.18E-01	1.53E-01	5.37E-06	1.12E-02	1.86E-03	1.38E-02	5.95E-01	5.63E-01	5.30E-01
1315	490658.06	3859640.74	0.04105	0.07273	0.04869	0.24662	0.006	0.121	0.0736	0.07273	2.86E-01	1.34E-01	5.07E-06	8.68E-03	1.87E-03	1.13E-02	5.21E-01	4.95E-01	4.69E-01
1316	490708.06	3859640.74	0.03776	0.06504	0.04614	0.20082	0.006	0.103	0.0657	0.06504	2.63E-01	1.20E-01	4.80E-06	7.07E-03	1.89E-03	9.66E-03	4.66E-01	4.42E-01	4.25E-01
1317	490758.06	3859640.74	0.03529	0.05843	0.04368	0.16801	0.006	0.089	0.059	0.05843	2.46E-01	1.08E-01	4.55E-06	5.91E-03	1.90E-03	8.39E-03	4.18E-01	3.97E-01	3.91E-01
1318	490808.06	3859640.74	0.03331	0.05343	0.04156	0.1464	0.006	0.08	0.0538	0.05343	2.32E-01	9.87E-02	4.33E-06	5.15E-03	1.91E-03	7.53E-03	3.81E-01	3.63E-01	3.64E-01
1319	490858.06	3859640.74	0.03169	0.04917	0.03957	0.12993	0.006	0.073	0.0495	0.04917	2.21E-01	9.08E-02	4.12E-06	4.57E-03	1.93E-03	6.85E-03	3.51E-01	3.34E-01	3.41E-01
1320	490608.06	3859690.74	0.06028	0.11734	0.04202	0.68308	0.006	0.249	0.1201	0.11734	4.20E-01	2.17E-01	4.37E-06	2.40E-02	1.78E-03	2.34E-02	8.51E-01	7.98E-01	7.39E-01
1321	490658.06	3859690.74	0.05137	0.09842	0.04018	0.44281	0.006	0.184	0.1006	0.09842	3.58E-01	1.82E-01	4.18E-06	1.56E-02	1.80E-03	1.73E-02	7.13E-01	6.69E-01	6.18E-01
1322	490708.06	3859690.74	0.04475	0.08513	0.03852	0.31986	0.006	0.145	0.0868	0.08513	3.12E-01	1.57E-01	4.01E-06	1.13E-02	1.81E-03	1.37E-02	6.15E-01	5.79E-01	5.32E-01
1323	490758.06	3859690.74	0.04023	0.07448	0.0369	0.24675	0.006	0.119	0.0758	0.07448	2.80E-01	1.38E-01	3.84E-06	8.68E-03	1.82E-03	1.12E-02	5.37E-01	5.06E-01	4.70E-01
1324	490808.06	3859690.74	0.03699	0.06644	0.03546	0.20105	0.006	0.102	0.0675	0.06644	2.58E-01	1.23E-01	3.69E-06	7.08E-03	1.83E-03	9.59E-03	4.78E-01	4.52E-01	4.25E-01
1325	490858.06	3859690.74	0.03447	0.06079	0.03429	0.17383	0.006	0.091	0.0616	0.06079	2.40E-01	1.12E-01	3.57E-06	6.12E-03	1.84E-03	8.58E-03	4.37E-01	4.13E-01	3.92E-01
1326	490708.06	3859740.74	0.05913	0.12289	0.03205	0.70559	0.006	0.25	0.127	0.12289	4.12E-01	2.27E-01	3.34E-06	2.48E-02	1.73E-03	2.35E-02	9.00E-01	8.36E-01	7.53E-01
1327	490758.06	3859740.74	0.05041	0.10452	0.03122	0.45974	0.006	0.188	0.1075	0.10452	3.51E-01	1.93E-01	3.25E-06	1.62E-02	1.74E-03	1.77E-02	7.62E-01	7.11E-01	6.31E-01
1328	490808.06	3859740.74	0.0439	0.09025	0.0303	0.33271	0.006	0.149	0.0926	0.09025	3.06E-01	1.67E-01	3.15E-06	1.17E-02	1.75E-03	1.40E-02	6.56E-01	6.14E-01	5.42E-01
1329	490858.06	3859740.74	0.03945	0.07959	0.02947	0.26237	0.006	0.125	0.0814	0.07959	2.75E-01	1.47E-01	3.07E-06	9.23E-03	1.76E-03	1.18E-02	5.77E-01	5.41E-01	4.81E-01
1330	490786.56	3859749.39	0.04859	0.10231	0.02985	0.42741	0.006	0.179	0.1053	0.10231	3.39E-01	1.89E-01	3.11E-06	1.50E-02	1.73E-03	1.68E-02	7.46E-01	6.96E-01	6.12E-01

1331	490836.56	3859749.39	0.04266	0.08862	0.02901	0.31671	0.006	0.144	0.0909	0.08862	2.97E-01	1.64E-01	3.02E-06	1.11E-02	1.74E-03	1.36E-02	6.44E-01	6.03E-01	5.29E-01
1332	490786.56	3859799.39	0.0619	0.16253	0.02529	0.77344	0.005	0.345	0.1703	0.16253	4.32E-01	3.00E-01	2.63E-06	2.72E-02	1.66E-03	3.25E-02	1.21E+00	1.11E+00	8.95E-01
1333	490836.56	3859799.39	0.05661	0.13129	0.02478	0.67766	0.005	0.243	0.1373	0.13129	3.95E-01	2.42E-01	2.58E-06	2.39E-02	1.67E-03	2.29E-02	9.73E-01	8.93E-01	7.66E-01
1334	492307.84	3854508.36	0.01013	0.00396	0.00535	0.00609	0.008	0.006	0.0047	0.00396	7.06E-02	7.31E-03	5.57E-07	2.14E-04	2.58E-03	5.67E-04	3.31E-02	2.69E-02	8.75E-02
1335	486445.7	3854753.6	0.02291	0.00597	0.01185	0.01797	0.005	0.014	0.0113	0.00597	1.60E-01	1.10E-02	1.23E-06	6.32E-04	1.65E-03	1.30E-03	7.98E-02	4.06E-02	2.14E-01
1336	472599.75	3877830.11	0.00021	0.00036	0.00023	0.00033	2E-04	4E-04	0.0004	0.00036	1.46E-03	6.65E-04	2.39E-08	1.16E-05	5.95E-05	3.67E-05	2.55E-03	2.45E-03	2.34E-03
1337	493107.48	3866840.19	0.00097	0.00079	0.00046	0.00093	0.001	0.001	0.0008	0.00079	6.76E-03	1.46E-03	4.79E-08	3.27E-05	3.20E-04	9.87E-05	5.67E-03	5.37E-03	8.97E-03
1338	495815.79	3861662.87	0.00309	0.03463	0.00205	0.00519	0.002	0.005	0.0347	0.03463	2.15E-02	6.40E-02	2.13E-07	1.83E-04	6.67E-04	4.89E-04	2.46E-01	2.35E-01	9.73E-02
1339	480272.33	3841389.2	0.0005	0.00065	0.00027	0.00037	4E-04	4E-04	0.0007	0.00065	3.49E-03	1.20E-03	2.81E-08	1.30E-05	1.38E-04	3.95E-05	4.68E-03	4.42E-03	5.13E-03
1340	497005.18	3862813.64	0.0018	0.01204	0.00122	0.00302	0.002	0.003	0.0121	0.01204	1.25E-02	2.22E-02	1.27E-07	1.06E-04	5.30E-04	2.53E-04	8.58E-02	8.19E-02	3.96E-02
1341	493677.33	3860302.55	0.00857	0.01329	0.00619	0.01459	0.004	0.203	0.0132	0.01329	5.97E-02	2.45E-02	6.44E-07	5.14E-04	1.21E-03	1.91E-02	9.34E-02	9.04E-02	1.08E-01
1342	493727.33	3860302.55	0.00849	0.01306	0.00614	0.01438	0.004	0.201	0.013	0.01306	5.92E-02	2.41E-02	6.39E-07	5.06E-04	1.20E-03	1.89E-02	9.18E-02	8.88E-02	1.07E-01
1343	493777.33	3860302.55	0.00842	0.01283	0.00609	0.01418	0.004	0.199	0.0127	0.01283	5.87E-02	2.37E-02	6.34E-07	4.99E-04	1.20E-03	1.87E-02	9.01E-02	8.72E-02	1.06E-01
1344	493827.33	3860302.55	0.00835	0.01259	0.00604	0.01398	0.004	0.197	0.0125	0.01259	5.82E-02	2.33E-02	6.29E-07	4.92E-04	1.19E-03	1.85E-02	8.84E-02	8.56E-02	1.04E-01
1345	493877.33	3860302.55	0.00827	0.01241	0.006	0.01379	0.004	0.193	0.0123	0.01241	5.77E-02	2.29E-02	6.25E-07	4.85E-04	1.19E-03	1.81E-02	8.71E-02	8.44E-02	1.03E-01
1346	493927.33	3860302.55	0.00819	0.01226	0.00596	0.0136	0.004	0.187	0.0121	0.01226	5.71E-02	2.26E-02	6.20E-07	4.79E-04	1.18E-03	1.75E-02	8.59E-02	8.34E-02	1.02E-01
1347	493977.33	3860302.55	0.00815	0.01194	0.00589	0.01341	0.004	0.188	0.0118	0.01194	5.68E-02	2.21E-02	6.13E-07	4.72E-04	1.18E-03	1.77E-02	8.37E-02	8.12E-02	1.01E-01
1348	494027.33	3860302.55	0.0081	0.01171	0.00584	0.01323	0.004	0.185	0.0116	0.01171	5.65E-02	2.16E-02	6.08E-07	4.66E-04	1.18E-03	1.74E-02	8.20E-02	7.96E-02	9.96E-02
1349	493677.33	3860352.55	0.0083	0.0137	0.00596	0.01412	0.004	0.096	0.0136	0.0137	5.79E-02	2.53E-02	6.20E-07	4.97E-04	1.19E-03	9.00E-03	9.64E-02	9.32E-02	9.71E-02
1350	493727.33	3860352.55	0.00822	0.0135	0.00593	0.01393	0.004	0.095	0.0134	0.0135	5.73E-02	2.49E-02	6.17E-07	4.90E-04	1.18E-03	8.89E-03	9.49E-02	9.18E-02	9.59E-02
1351	493777.33	3860352.55	0.00813	0.0133	0.0059	0.01375	0.004	0.093	0.0132	0.0133	5.67E-02	2.46E-02	6.14E-07	4.84E-04	1.17E-03	8.77E-03	9.35E-02	9.04E-02	9.47E-02
1352	493827.33	3860352.55	0.00806	0.01307	0.00586	0.01356	0.004	0.092	0.013	0.01307	5.62E-02	2.41E-02	6.10E-07	4.77E-04	1.17E-03	8.69E-03	9.18E-02	8.89E-02	9.36E-02
1353	493877.33	3860352.55	0.008	0.01283	0.00581	0.01338	0.004	0.092	0.0127	0.01283	5.58E-02	2.37E-02	6.05E-07	4.71E-04	1.16E-03	8.63E-03	9.01E-02	8.72E-02	9.26E-02
1354	493927.33	3860352.55	0.00795	0.01256	0.00576	0.01321	0.004	0.092	0.0124	0.01256	5.54E-02	2.32E-02	6.00E-07	4.65E-04	1.16E-03	8.61E-03	8.81E-02	8.54E-02	9.16E-02
1355	493977.33	3860352.55	0.00791	0.01226	0.0057	0.01303	0.004	0.092	0.0121	0.01226	5.51E-02	2.26E-02	5.93E-07	4.59E-04	1.16E-03	8.61E-03	8.60E-02	8.34E-02	9.07E-02
1356	494027.33	3860352.55	0.00785	0.01208	0.00566	0.01287	0.004	0.09	0.012	0.01208	5.47E-02	2.23E-02	5.89E-07	4.53E-04	1.15E-03	8.49E-03	8.47E-02	8.21E-02	8.97E-02
1357	493677.33	3860402.55	0.00802	0.01423	0.00575	0.01365	0.004	0.062	0.0141	0.01423	5.59E-02	2.63E-02	5.99E-07	4.80E-04	1.18E-03	5.86E-03	1.00E-01	9.68E-02	9.31E-02
1358	493727.33	3860402.55	0.00794	0.014	0.00572	0.01348	0.004	0.062	0.0139	0.014	5.54E-02	2.59E-02	5.95E-07	4.74E-04	1.17E-03	5.79E-03	9.86E-02	9.52E-02	9.20E-02
1359	493777.33	3860402.55	0.00789	0.01365	0.00567	0.01331	0.004	0.062	0.0136	0.01365	5.50E-02	2.52E-02	5.90E-07	4.68E-04	1.16E-03	5.79E-03	9.60E-02	9.28E-02	9.08E-02
1360	493827.33	3860402.55	0.00781	0.01349	0.00565	0.01315	0.004	0.061	0.0134	0.01349	5.44E-02	2.49E-02	5.88E-07	4.63E-04	1.15E-03	5.71E-03	9.49E-02	9.17E-02	8.98E-02
1361	493877.33	3860402.55	0.00774	0.01328	0.00562	0.01299	0.004	0.06	0.0132	0.01328	5.40E-02	2.45E-02	5.85E-07	4.57E-04	1.14E-03	5.65E-03	9.34E-02	9.03E-02	8.88E-02
1362	493927.33	3860402.55	0.0077	0.01295	0.00557	0.01282	0.004	0.06	0.0128	0.01295	5.37E-02	2.39E-02	5.80E-07	4.51E-04	1.13E-03	5.65E-03	9.10E-02	8.81E-02	8.78E-02
1363	493977.33	3860402.55	0.00767	0.01262	0.00551	0.01266	0.004	0.06	0.0125	0.01262	5.35E-02	2.33E-02	5.74E-07	4.46E-04	1.13E-03	5.66E-03	8.86E-02	8.58E-02	8.68E-02
1364	494027.33	3860402.55	0.0076	0.01247	0.00548	0.01251	0.004	0.059	0.0124	0.01247	5.30E-02	2.30E-02	5.71E-07	4.40E-04	1.12E-03	5.58E-03	8.75E-02	8.48E-02	8.59E-02
1365	493677.33	3860452.55	0.00776	0.01469	0.0055	0.01317	0.004	0.047	0.0146	0.01469	5.41E-02	2.71E-02	5.73E-07	4.64E-04	1.17E-03	4.40E-03	1.04E-01	9.99E-02	9.09E-02
1366	493727.33	3860452.55	0.00766	0.01454	0.00546	0.01302	0.004	0.046	0.0145	0.01454	5.34E-02	2.69E-02	5.68E-07	4.58E-04	1.15E-03	4.32E-03	1.02E-01	9.89E-02	8.98E-02
1367	493777.33	3860452.55	0.0076	0.0143	0.00543	0.01287	0.004	0.046	0.0142	0.0143	5.30E-02	2.64E-02	5.65E-07	4.53E-04	1.14E-03	4.28E-03	1.01E-01	9.72E-02	8.87E-02
1368	493827.33	3860452.55	0.00755	0.01397	0.00542	0.01273	0.004	0.045	0.0139	0.01397	5.26E-02	2.58E-02	5.64E-07	4.48E-04	1.13E-03	4.27E-03	9.83E-02	9.50E-02	8.76E-02
1369	493877.33	3860452.55	0.0075	0.01369	0.0054	0.01259	0.004	0.045	0.0136	0.01369	5.23E-02	2.53E-02	5.62E-07	4.43E-04	1.12E-03	4.24E-03	9.63E-02	9.31E-02	8.66E-02
1370	493927.33	3860452.55	0.00747	0.01331	0.00536	0.01244	0.004	0.045	0.0132	0.01331	5.21E-02	2.46E-02	5.58E-07	4.38E-04	1.12E-03	4.25E-03	9.36E-02	9.05E-02	8.56E-02
1371	493977.33	3860452.55	0.00742	0.0131	0.00533	0.0123	0.004	0.045	0.013	0.0131	5.17E-02	2.42E-02	5.55E-07	4.33E-04	1.11E-03	4.21E-03	9.21E-02	8.91E-02	8.47E-02
1372	494027.33	3860452.55	0.00736	0.01291	0.0053	0.01216	0.004	0.044	0.0128	0.01291	5.13E-02	2.38E-02	5.52E-07	4.28E-04	1.10E-03	4.17E-03	9.07E-02	8.78E-02	8.38E-02
1373	493677.33	3860502.55	0.00749	0.01522	0.00523	0.01269	0.004	0.037	0.0152	0.01522	5.22E-02	2.81E-02	5.44E-07	4.47E-04	1.16E-03	3.52E-03	1.07E-01	1.03E-01	8.93E-02
1374	493727.33	3860502.55	0.00742	0.01503	0.0052	0.01256	0.004	0.037	0.015	0.01503	5.17E-02	2.78E-02	5.41E-07	4.42E-04	1.14E-03	3.48E-03	1.06E-01	1.02E-01	8.83E-02
1375	493777.33	3860502.55	0.00735	0.01476	0.00518	0.01243	0.004	0.037	0.0147	0.01476	5.12E-02	2.73E-02	5.39E-07	4.37E-04	1.13E-03	3.45E-03	1.04E-01	1.00E-01	8.72E-02
1376	493827.33	3860502.55	0.0073	0.0145	0.00517	0.0123	0.004	0.036	0.0144	0.0145	5.09E-02	2.68E-02	5.38E-07	4.33E-04	1.12E-03	3.42E-03	1.02E-01	9.86E-02	8.62E-02
1377	493877.33	3860502.55	0.00725	0.01418	0.00516	0.01218	0.004	0.036	0.0141	0.01418	5.05E-02	2.62E-02	5.37E-07	4.29E-04	1.11E-03	3.40E-03	9.98E-02	9.64E-02	8.51E-02
1378	493927.33	3860502.55	0.00722	0.01382	0.00516	0.01206	0.004	0.036	0.0137	0.01382	5.03E-02	2.55E-02	5.37E-07	4.24E-04	1.10E-03	3.39E-03	9.74E-02	9.40E-02	8.42E-02
1379	493977.33	3860502.55	0.00717	0.01363	0.00513	0.01193	0.003	0.036	0.0135	0.01363	5.00E-02	2.52E-02	5.34E-07	4.20E-04	1.09E-03	3.36E-03	9.59E-02	9.27E-02	8.33E-02
1380	494027.33	3860502.55	0.00712	0.0134	0.00511	0.01181	0.003	0.035	0.0133	0.0134	4.96E-02	2.47E-02	5.32E-07	4.16E-04	1.08E-03	3.33E-03	9.43E-02	9.11E-02	8.24E-02
1381	493627.33	3860552.55	0.0073	0.01611	0.005	0.01232	0.004	0.031	0.0161	0.01611	5.09E-02	2.98E-02	5.21E-07	4.34E-04	1.16E-03	2.96E-03	1.14E-01	1.10E-01	8.94E-02
1382	493677.33	3860552.55	0.00722	0.01588	0.00497	0.0122	0.004	0.031	0.0158	0.01588	5.03E-02	2.93E-02	5.17E-07	4.29E-04	1.14E-03	2.92E-03	1.12E-01	1.08E-01	8.83E-02
1383	493727.33	3860552.55	0.00715	0.01564	0.00495	0.01209	0.004	0.031	0.0156	0.01564	4.98E-02	2.89E-02	5.15E-07	4.26E-04	1.13E-03	2.89E-03	1.10E-01	1.06E-01	8.72E-02
1384	493777.33	3860552.55	0.0071	0.01533	0.00493	0.01198	0.004	0.031	0.0153	0.01533	4.95E-02	2.83E-02	5.13E-07	4.22E-04	1.12E-03	2.87E-03	1.08E-01	1.04E-01	8.61E-02
1385	493827.33	3860552.55	0.00706	0.01498	0.00493	0.01187	0.004	0.03	0.0149	0.01498	4.92E-02	2.77E-02	5.13E-07	4.18E-04	1.11E-03	2.86E-03	1.06E-01	1.02E-01	8.51E-02
1386	493877.33	3860552.55	0.00701	0.01475	0.00491	0.01176	0.004	0.03	0.0147	0.01475	4.89E-02	2.72E-02	5.11E-07	4.14E-04	1.10E-03	2.83E-03	1.04E-01	1.00E-01	8.42E-02
1387	493927.33	3860552.55	0.00697	0.01444	0.00491	0.01166	0.003	0.03	0.0144	0.01444	4.86E-02	2.67E-02	5.11E-07	4.10E-04	1.09E-03	2.82E-03	1.02E-01	9.82E-02	8.31E-02
1388	493977.33	3860552.55	0.00694	0.01412	0.0049	0.01156	0.003	0.03	0.014	0.01412	4.84E-02	2.61E-02	5.10E-07	4.07E-04	1.08E-03	2.80E-03	9.94E-02	9.60E-02	8.21E-02

1389	494027.33	3860552.55	0.00688	0.01391	0.00489	0.01145	0.003	0.03	0.0138	0.01391	4.80E-02	2.57E-02	5.09E-07	4.03E-04	1.07E-03	2.77E-03	9.80E-02	9.46E-02	8.13E-02
1390	493627.33	3860602.55	0.00704	0.01676	0.00476	0.01183	0.004	0.027	0.0167	0.01676	4.91E-02	3.10E-02	4.96E-07	4.16E-04	1.14E-03	2.52E-03	1.18E-01	1.14E-01	8.85E-02
1391	493727.33	3860602.55	0.00689	0.01633	0.00469	0.01161	0.004	0.026	0.0163	0.01633	4.80E-02	3.02E-02	4.88E-07	4.09E-04	1.12E-03	2.46E-03	1.15E-01	1.11E-01	8.63E-02
1392	493777.33	3860602.55	0.00686	0.01592	0.0047	0.01153	0.004	0.026	0.0159	0.01592	4.78E-02	2.94E-02	4.89E-07	4.06E-04	1.11E-03	2.46E-03	1.12E-01	1.08E-01	8.53E-02
1393	493827.33	3860602.55	0.00681	0.01562	0.00469	0.01144	0.004	0.026	0.0156	0.01562	4.75E-02	2.88E-02	4.88E-07	4.03E-04	1.10E-03	2.44E-03	1.10E-01	1.06E-01	8.43E-02
1394	493877.33	3860602.55	0.00678	0.01527	0.00469	0.01136	0.003	0.026	0.0152	0.01527	4.73E-02	2.82E-02	4.88E-07	4.00E-04	1.09E-03	2.43E-03	1.08E-01	1.04E-01	8.33E-02
1395	493927.33	3860602.55	0.00674	0.01497	0.00469	0.01127	0.003	0.026	0.0149	0.01497	4.70E-02	2.76E-02	4.88E-07	3.97E-04	1.08E-03	2.41E-03	1.06E-01	1.02E-01	8.23E-02
1396	493977.33	3860602.55	0.00671	0.01467	0.00468	0.01118	0.003	0.026	0.0146	0.01467	4.68E-02	2.71E-02	4.87E-07	3.93E-04	1.07E-03	2.40E-03	1.03E-01	9.98E-02	8.14E-02
1397	494027.33	3860602.55	0.00665	0.01448	0.00466	0.01108	0.003	0.025	0.0144	0.01448	4.64E-02	2.67E-02	4.85E-07	3.90E-04	1.06E-03	2.38E-03	1.02E-01	9.85E-02	8.05E-02
1398	493627.33	3860652.55	0.00678	0.01752	0.00453	0.01135	0.004	0.023	0.0175	0.01752	4.73E-02	3.24E-02	4.72E-07	3.99E-04	1.13E-03	2.17E-03	1.24E-01	1.19E-01	8.80E-02
1399	493727.33	3860652.55	0.00665	0.01701	0.00447	0.01116	0.004	0.023	0.017	0.01701	4.64E-02	3.14E-02	4.65E-07	3.93E-04	1.11E-03	2.13E-03	1.20E-01	1.16E-01	8.58E-02
1400	493777.33	3860652.55	0.00662	0.01662	0.00447	0.01109	0.004	0.023	0.0166	0.01662	4.62E-02	3.07E-02	4.65E-07	3.90E-04	1.10E-03	2.13E-03	1.17E-01	1.13E-01	8.49E-02
1401	493827.33	3860652.55	0.00658	0.01625	0.00448	0.01102	0.003	0.023	0.0162	0.01625	4.59E-02	3.00E-02	4.66E-07	3.88E-04	1.09E-03	2.12E-03	1.15E-01	1.10E-01	8.38E-02
1402	493877.33	3860652.55	0.00656	0.01587	0.00448	0.01095	0.003	0.023	0.0158	0.01587	4.57E-02	2.93E-02	4.66E-07	3.85E-04	1.08E-03	2.12E-03	1.12E-01	1.08E-01	8.27E-02
1403	493927.33	3860652.55	0.00652	0.01557	0.00447	0.01087	0.003	0.022	0.0155	0.01557	4.55E-02	2.88E-02	4.65E-07	3.83E-04	1.07E-03	2.11E-03	1.10E-01	1.06E-01	8.18E-02
1404	493977.33	3860652.55	0.00648	0.0153	0.00447	0.01079	0.003	0.022	0.0152	0.0153	4.52E-02	2.83E-02	4.65E-07	3.80E-04	1.06E-03	2.10E-03	1.08E-01	1.04E-01	8.08E-02
1405	494027.33	3860652.55	0.00645	0.01497	0.00447	0.01072	0.003	0.022	0.0149	0.01497	4.50E-02	2.76E-02	4.65E-07	3.77E-04	1.05E-03	2.09E-03	1.06E-01	1.02E-01	8.00E-02
1406	494311.06	3858401.99	0.01054	0.00418	0.00595	0.01113	0.01	0.011	0.0041	0.00418	7.35E-02	7.72E-03	6.19E-07	3.92E-04	2.98E-03	1.01E-03	2.93E-02	2.84E-02	8.64E-02
1407	494361.06	3858401.99	0.01037	0.00414	0.00588	0.01096	0.009	0.011	0.0041	0.00414	7.23E-02	7.65E-03	6.12E-07	3.86E-04	2.94E-03	1.01E-03	2.90E-02	2.82E-02	8.51E-02
1408	494411.06	3858401.99	0.01025	0.00411	0.00582	0.01083	0.009	0.011	0.0041	0.00411	7.15E-02	7.59E-03	6.06E-07	3.81E-04	2.90E-03	1.01E-03	2.88E-02	2.79E-02	8.42E-02
1409	494461.06	3858401.99	0.01018	0.00409	0.00578	0.01074	0.009	0.011	0.0041	0.00409	7.10E-02	7.55E-03	6.02E-07	3.78E-04	2.89E-03	1.02E-03	2.87E-02	2.78E-02	8.37E-02
1410	494511.06	3858401.99	0.01005	0.00406	0.00572	0.0106	0.009	0.011	0.004	0.00406	7.01E-02	7.50E-03	5.95E-07	3.73E-04	2.85E-03	1.02E-03	2.85E-02	2.76E-02	8.27E-02
1411	494561.06	3858401.99	0.00998	0.00404	0.00567	0.01051	0.009	0.011	0.004	0.00404	6.96E-02	7.46E-03	5.90E-07	3.70E-04	2.83E-03	1.03E-03	2.83E-02	2.75E-02	8.21E-02
1412	494611.06	3858401.99	0.00981	0.00401	0.00561	0.01038	0.009	0.011	0.004	0.00401	6.84E-02	7.41E-03	5.84E-07	3.65E-04	2.80E-03	1.03E-03	2.81E-02	2.73E-02	8.09E-02
1413	494661.06	3858401.99	0.0097	0.00398	0.00555	0.01026	0.009	0.011	0.0039	0.00398	6.76E-02	7.35E-03	5.78E-07	3.61E-04	2.73E-03	1.03E-03	2.79E-02	2.71E-02	8.00E-02
1414	494711.06	3858401.99	0.00955	0.00395	0.00548	0.01012	0.009	0.011	0.0039	0.00395	6.66E-02	7.30E-03	5.71E-07	3.56E-04	2.69E-03	1.03E-03	2.77E-02	2.69E-02	7.88E-02
1415	494761.06	3858401.99	0.00946	0.00392	0.00543	0.01002	0.009	0.011	0.0039	0.00392	6.60E-02	7.24E-03	5.65E-07	3.53E-04	2.67E-03	1.04E-03	2.76E-02	2.67E-02	7.82E-02
1416	494811.06	3858401.99	0.00934	0.0039	0.00538	0.00989	0.008	0.011	0.0039	0.0039	6.51E-02	7.20E-03	5.60E-07	3.48E-04	2.64E-03	1.04E-03	2.73E-02	2.65E-02	7.72E-02
1417	494861.06	3858401.99	0.00923	0.00387	0.00532	0.00978	0.008	0.011	0.0038	0.00387	6.43E-02	7.15E-03	5.54E-07	3.44E-04	2.61E-03	1.05E-03	2.71E-02	2.63E-02	7.63E-02
1418	494911.06	3858401.99	0.00912	0.00384	0.00527	0.00966	0.008	0.011	0.0038	0.00384	6.36E-02	7.09E-03	5.49E-07	3.40E-04	2.58E-03	1.05E-03	2.69E-02	2.61E-02	7.55E-02
1419	494961.06	3858401.99	0.00901	0.00382	0.00522	0.00955	0.008	0.011	0.0038	0.00382	6.28E-02	7.06E-03	5.43E-07	3.36E-04	2.55E-03	1.06E-03	2.68E-02	2.60E-02	7.46E-02
1420	495011.06	3858401.99	0.00887	0.00379	0.00516	0.00942	0.008	0.011	0.0037	0.00379	6.18E-02	7.00E-03	5.37E-07	3.32E-04	2.52E-03	1.06E-03	2.65E-02	2.58E-02	7.35E-02
1421	495061.06	3858401.99	0.00876	0.00376	0.00511	0.00931	0.008	0.011	0.0037	0.00376	6.11E-02	6.94E-03	5.32E-07	3.28E-04	2.49E-03	1.07E-03	2.64E-02	2.56E-02	7.27E-02
1422	495111.06	3858401.99	0.00857	0.00372	0.00504	0.00914	0.008	0.011	0.0037	0.00372	5.97E-02	6.87E-03	5.25E-07	3.22E-04	2.44E-03	1.07E-03	2.60E-02	2.53E-02	7.12E-02
1423	495161.06	3858401.99	0.00853	0.0037	0.005	0.00908	0.008	0.012	0.0037	0.0037	5.95E-02	6.83E-03	5.21E-07	3.20E-04	2.43E-03	1.09E-03	2.59E-02	2.52E-02	7.09E-02
1424	495211.06	3858401.99	0.00836	0.00366	0.00492	0.00893	0.008	0.012	0.0036	0.00366	5.83E-02	6.76E-03	5.12E-07	3.14E-04	2.38E-03	1.09E-03	2.56E-02	2.49E-02	6.96E-02
1425	495261.06	3858401.99	0.00826	0.00364	0.00487	0.00883	0.008	0.012	0.0036	0.00364	5.76E-02	6.72E-03	5.07E-07	3.11E-04	2.35E-03	1.11E-03	2.55E-02	2.48E-02	6.88E-02
1426	495311.06	3858401.99	0.00817	0.00362	0.00482	0.00873	0.007	0.012	0.0036	0.00362	5.70E-02	6.69E-03	5.02E-07	3.07E-04	2.33E-03	1.12E-03	2.53E-02	2.46E-02	6.81E-02
1427	495361.06	3858401.99	0.00809	0.0036	0.00478	0.00865	0.007	0.012	0.0036	0.0036	5.64E-02	6.65E-03	4.98E-07	3.04E-04	2.31E-03	1.14E-03	2.52E-02	2.45E-02	6.75E-02
1428	495411.06	3858401.99	0.00805	0.00359	0.00475	0.00859	0.007	0.012	0.0035	0.00359	5.61E-02	6.63E-03	4.95E-07	3.02E-04	2.30E-03	1.17E-03	2.51E-02	2.44E-02	6.72E-02
1429	495461.06	3858401.99	0.00801	0.00358	0.00473	0.00854	0.007	0.013	0.0035	0.00358	5.58E-02	6.61E-03	4.92E-07	3.01E-04	2.29E-03	1.20E-03	2.50E-02	2.43E-02	6.69E-02
1430	495511.06	3858401.99	0.00797	0.00356	0.0047	0.00848	0.007	0.013	0.0035	0.00356	5.56E-02	6.58E-03	4.89E-07	2.98E-04	2.27E-03	1.23E-03	2.49E-02	2.42E-02	6.67E-02
1431	495561.06	3858401.99	0.0079	0.00354	0.00465	0.00839	0.007	0.013	0.0035	0.00354	5.51E-02	6.54E-03	4.84E-07	2.95E-04	2.25E-03	1.27E-03	2.48E-02	2.41E-02	6.62E-02
1432	495611.06	3858401.99	0.00785	0.00353	0.00462	0.00834	0.007	0.014	0.0035	0.00353	5.47E-02	6.52E-03	4.81E-07	2.94E-04	2.23E-03	1.31E-03	2.47E-02	2.40E-02	6.58E-02
1433	495661.06	3858401.99	0.00786	0.00353	0.00462	0.00832	0.007	0.015	0.0035	0.00353	5.48E-02	6.52E-03	4.81E-07	2.93E-04	2.24E-03	1.37E-03	2.48E-02	2.40E-02	6.60E-02
1434	494311.06	3858451.99	0.01077	0.00428	0.00607	0.01124	0.01	0.011	0.0042	0.00428	7.51E-02	7.90E-03	6.32E-07	3.96E-04	2.99E-03	1.05E-03	3.00E-02	2.91E-02	8.84E-02
1435	494361.06	3858451.99	0.01063	0.00424	0.00599	0.01109	0.009	0.011	0.0042	0.00424	7.41E-02	7.83E-03	6.24E-07	3.90E-04	2.95E-03	1.05E-03	2.98E-02	2.88E-02	8.73E-02
1436	494411.06	3858451.99	0.0105	0.00421	0.00592	0.01096	0.009	0.011	0.0042	0.00421	7.32E-02	7.78E-03	6.16E-07	3.86E-04	2.92E-03	1.05E-03	2.95E-02	2.86E-02	8.63E-02
1437	494461.06	3858451.99	0.01039	0.00418	0.00587	0.01084	0.009	0.011	0.0041	0.00418	7.24E-02	7.72E-03	6.11E-07	3.82E-04	2.89E-03	1.06E-03	2.93E-02	2.84E-02	8.54E-02
1438	494511.06	3858451.99	0.01031	0.00416	0.00582	0.01074	0.009	0.011	0.0041	0.00416	7.19E-02	7.68E-03	6.06E-07	3.78E-04	2.87E-03	1.06E-03	2.92E-02	2.83E-02	8.48E-02
1439	494561.06	3858451.99	0.01018	0.00412	0.00576	0.0106	0.009	0.011	0.0041	0.00412	7.10E-02	7.61E-03	6.00E-07	3.73E-04	2.84E-03	1.07E-03	2.90E-02	2.80E-02	8.38E-02
1440	494611.06	3858451.99	0.01007	0.0041	0.0057	0.01048	0.009	0.011	0.0041	0.0041	7.02E-02	7.57E-03	5.93E-07	3.69E-04	2.81E-03	1.07E-03	2.88E-02	2.79E-02	8.29E-02
1441	494661.06	3858451.99	0.00996	0.00407	0.00565	0.01037	0.009	0.011	0.004	0.00407	6.94E-02	7.52E-03	5.88E-07	3.65E-04	2.78E-03	1.08E-03	2.86E-02	2.77E-02	8.21E-02
1442	494711.06	3858451.99	0.00982	0.00404	0.00558	0.01023	0.009	0.011	0.004	0.00404	6.85E-02	7.46E-03	5.81E-07	3.60E-04	2.74E-03	1.08E-03	2.83E-02	2.75E-02	8.10E-02
1443	494761.06	3858451.99	0.00968	0.004	0.00552	0.0101	0.009	0.011	0.004	0.004	6.75E-02	7.39E-03	5.75E-07	3.55E-04	2.71E-03	1.08E-03	2.81E-02	2.72E-02	7.99E-02
1444	494811.06	3858451.99	0.00953	0.00397	0.00547	0.00998	0.009	0.012	0.0039	0.00397	6.64E-02	7.33E-03	5.69E-07	3.51E-04	2.68E-03	1.09E-03	2.79E-02	2.70E-02	7.88E-02
1445	494861.06	3858451.99	0.00941	0.00394	0.00539	0.00986	0.008	0.012	0.0039	0.00394	6.56E-02	7.28E-03	5.61E-07	3.47E-04	2.61E-03	1.09E-03	2.77E-02	2.68E-02	7.78E-02
1446	494911.06	3858451.99	0.00928	0.00391	0.00532	0.00971	0.008	0.012	0.0039	0.00391	6.47E-02	7.22E-03	5.54E-07	3.42E-04	2.57E-03	1.09E-03	2.74E-02	2.66E-02	7.68E-02

1447	494961.06	3858451.99	0.00913	0.00388	0.00527	0.00959	0.008	0.012	0.0038	0.00388	6.37E-02	7.17E-03	5.49E-07	3.38E-04	2.53E-03	1.10E-03	2.72E-02	2.64E-02	7.56E-02
1448	495011.06	3858451.99	0.00898	0.00384	0.00521	0.00945	0.008	0.012	0.0038	0.00384	6.26E-02	7.09E-03	5.42E-07	3.33E-04	2.50E-03	1.10E-03	2.70E-02	2.61E-02	7.45E-02
1449	495061.06	3858451.99	0.00891	0.00382	0.00517	0.00936	0.008	0.012	0.0038	0.00382	6.21E-02	7.06E-03	5.38E-07	3.29E-04	2.48E-03	1.11E-03	2.69E-02	2.60E-02	7.40E-02
1450	495111.06	3858451.99	0.00877	0.00379	0.00511	0.00923	0.008	0.012	0.0038	0.00379	6.11E-02	7.00E-03	5.32E-07	3.25E-04	2.44E-03	1.12E-03	2.66E-02	2.58E-02	7.28E-02
1451	495161.06	3858451.99	0.00861	0.00376	0.00504	0.00909	0.008	0.012	0.0037	0.00376	6.00E-02	6.94E-03	5.25E-07	3.20E-04	2.41E-03	1.13E-03	2.63E-02	2.56E-02	7.15E-02
1452	495211.06	3858451.99	0.00847	0.00372	0.00499	0.00896	0.008	0.012	0.0037	0.00372	5.91E-02	6.87E-03	5.19E-07	3.15E-04	2.37E-03	1.14E-03	2.61E-02	2.53E-02	7.05E-02
1453	495261.06	3858451.99	0.00838	0.0037	0.00494	0.00886	0.007	0.012	0.0037	0.0037	5.84E-02	6.83E-03	5.14E-07	3.12E-04	2.35E-03	1.15E-03	2.59E-02	2.52E-02	6.98E-02
1454	495311.06	3858451.99	0.0083	0.00368	0.00488	0.00878	0.007	0.012	0.0036	0.00368	5.79E-02	6.80E-03	5.08E-07	3.09E-04	2.32E-03	1.17E-03	2.57E-02	2.50E-02	6.92E-02
1455	495361.06	3858451.99	0.00823	0.00366	0.00485	0.0087	0.007	0.013	0.0036	0.00366	5.74E-02	6.76E-03	5.05E-07	3.06E-04	2.31E-03	1.20E-03	2.56E-02	2.49E-02	6.87E-02
1456	495411.06	3858451.99	0.00819	0.00365	0.00482	0.00864	0.007	0.013	0.0036	0.00365	5.71E-02	6.74E-03	5.02E-07	3.04E-04	2.30E-03	1.22E-03	2.56E-02	2.48E-02	6.84E-02
1457	495461.06	3858451.99	0.00815	0.00364	0.00479	0.00859	0.007	0.013	0.0036	0.00364	5.68E-02	6.72E-03	4.99E-07	3.02E-04	2.29E-03	1.26E-03	2.55E-02	2.48E-02	6.81E-02
1458	495511.06	3858451.99	0.00807	0.00362	0.00475	0.0085	0.007	0.014	0.0036	0.00362	5.63E-02	6.69E-03	4.95E-07	2.99E-04	2.26E-03	1.30E-03	2.54E-02	2.46E-02	6.76E-02
1459	495561.06	3858451.99	0.00807	0.00361	0.00473	0.00847	0.007	0.014	0.0036	0.00361	5.63E-02	6.67E-03	4.92E-07	2.98E-04	2.27E-03	1.35E-03	2.53E-02	2.45E-02	6.76E-02
1460	495611.06	3858451.99	0.00797	0.00359	0.00469	0.00838	0.007	0.015	0.0036	0.00359	5.56E-02	6.63E-03	4.88E-07	2.95E-04	2.23E-03	1.40E-03	2.52E-02	2.44E-02	6.69E-02
1461	495661.06	3858451.99	0.00795	0.00358	0.00467	0.00834	0.007	0.016	0.0036	0.00358	5.54E-02	6.61E-03	4.86E-07	2.94E-04	2.23E-03	1.46E-03	2.52E-02	2.43E-02	6.68E-02
1462	494311.06	3858501.99	0.01086	0.00436	0.00614	0.01126	0.009	0.011	0.0043	0.00436	7.57E-02	8.05E-03	6.39E-07	3.96E-04	2.95E-03	1.08E-03	3.05E-02	2.96E-02	8.91E-02
1463	494361.06	3858501.99	0.01075	0.00433	0.00609	0.01114	0.009	0.012	0.0043	0.00433	7.49E-02	8.00E-03	6.34E-07	3.92E-04	2.92E-03	1.08E-03	3.03E-02	2.94E-02	8.82E-02
1464	494411.06	3858501.99	0.01064	0.00429	0.00601	0.01101	0.009	0.012	0.0043	0.00429	7.42E-02	7.92E-03	6.26E-07	3.88E-04	2.90E-03	1.09E-03	3.01E-02	2.92E-02	8.74E-02
1465	494461.06	3858501.99	0.01055	0.00427	0.00596	0.01091	0.009	0.012	0.0042	0.00427	7.36E-02	7.89E-03	6.20E-07	3.84E-04	2.88E-03	1.09E-03	3.00E-02	2.90E-02	8.67E-02
1466	494511.06	3858501.99	0.01041	0.00423	0.00589	0.01077	0.009	0.012	0.0042	0.00423	7.26E-02	7.81E-03	6.13E-07	3.79E-04	2.84E-03	1.10E-03	2.97E-02	2.88E-02	8.56E-02
1467	494561.06	3858501.99	0.01038	0.00422	0.00586	0.01072	0.009	0.012	0.0042	0.00422	7.24E-02	7.79E-03	6.10E-07	3.77E-04	2.84E-03	1.11E-03	2.96E-02	2.87E-02	8.54E-02
1468	494611.06	3858501.99	0.01026	0.00419	0.00579	0.01059	0.009	0.012	0.0042	0.00419	7.15E-02	7.74E-03	6.03E-07	3.73E-04	2.81E-03	1.11E-03	2.94E-02	2.85E-02	8.45E-02
1469	494661.06	3858501.99	0.01017	0.00416	0.00574	0.01049	0.009	0.012	0.0041	0.00416	7.09E-02	7.68E-03	5.98E-07	3.69E-04	2.79E-03	1.12E-03	2.93E-02	2.83E-02	8.38E-02
1470	494711.06	3858501.99	0.01003	0.00412	0.00567	0.01035	0.009	0.012	0.0041	0.00412	6.99E-02	7.61E-03	5.90E-07	3.64E-04	2.75E-03	1.13E-03	2.90E-02	2.80E-02	8.27E-02
1471	494761.06	3858501.99	0.00987	0.00409	0.0056	0.01019	0.009	0.012	0.0041	0.00409	6.88E-02	7.55E-03	5.83E-07	3.59E-04	2.71E-03	1.13E-03	2.87E-02	2.78E-02	8.14E-02
1472	494811.06	3858501.99	0.00972	0.00405	0.00554	0.01005	0.009	0.012	0.004	0.00405	6.78E-02	7.48E-03	5.77E-07	3.54E-04	2.67E-03	1.13E-03	2.85E-02	2.75E-02	8.03E-02
1473	494861.06	3858501.99	0.00962	0.00402	0.00548	0.00994	0.008	0.012	0.004	0.00402	6.71E-02	7.42E-03	5.71E-07	3.50E-04	2.64E-03	1.14E-03	2.83E-02	2.73E-02	7.96E-02
1474	494911.06	3858501.99	0.00939	0.00398	0.00541	0.00977	0.008	0.012	0.0039	0.00398	6.55E-02	7.35E-03	5.63E-07	3.44E-04	2.60E-03	1.14E-03	2.79E-02	2.71E-02	7.77E-02
1475	494961.06	3858501.99	0.00929	0.00395	0.00534	0.00966	0.008	0.012	0.0039	0.00395	6.48E-02	7.30E-03	5.56E-07	3.40E-04	2.53E-03	1.14E-03	2.78E-02	2.69E-02	7.70E-02
1476	495011.06	3858501.99	0.00912	0.00391	0.00528	0.00952	0.008	0.012	0.0039	0.00391	6.36E-02	7.22E-03	5.50E-07	3.35E-04	2.49E-03	1.15E-03	2.75E-02	2.66E-02	7.57E-02
1477	495061.06	3858501.99	0.00904	0.00389	0.00524	0.00943	0.008	0.012	0.0039	0.00389	6.30E-02	7.18E-03	5.46E-07	3.32E-04	2.47E-03	1.16E-03	2.73E-02	2.65E-02	7.51E-02
1478	495111.06	3858501.99	0.00885	0.00384	0.00515	0.00925	0.008	0.012	0.0038	0.00384	6.17E-02	7.09E-03	5.36E-07	3.26E-04	2.42E-03	1.16E-03	2.70E-02	2.61E-02	7.36E-02
1479	495161.06	3858501.99	0.00872	0.00381	0.0051	0.00913	0.008	0.013	0.0038	0.00381	6.08E-02	7.04E-03	5.31E-07	3.21E-04	2.39E-03	1.18E-03	2.67E-02	2.59E-02	7.25E-02
1480	495211.06	3858501.99	0.00859	0.00378	0.00504	0.00901	0.008	0.013	0.0037	0.00378	5.99E-02	6.98E-03	5.25E-07	3.17E-04	2.36E-03	1.19E-03	2.65E-02	2.57E-02	7.15E-02
1481	495261.06	3858501.99	0.00849	0.00376	0.005	0.00891	0.007	0.013	0.0037	0.00376	5.92E-02	6.94E-03	5.21E-07	3.14E-04	2.33E-03	1.21E-03	2.64E-02	2.56E-02	7.08E-02
1482	495311.06	3858501.99	0.00843	0.00374	0.00496	0.00884	0.007	0.013	0.0037	0.00374	5.88E-02	6.91E-03	5.16E-07	3.11E-04	2.32E-03	1.23E-03	2.62E-02	2.54E-02	7.03E-02
1483	495361.06	3858501.99	0.00837	0.00372	0.00493	0.00876	0.007	0.013	0.0037	0.00372	5.84E-02	6.87E-03	5.13E-07	3.08E-04	2.31E-03	1.26E-03	2.61E-02	2.53E-02	6.99E-02
1484	495411.06	3858501.99	0.00833	0.00371	0.0049	0.0087	0.007	0.014	0.0037	0.00371	5.81E-02	6.85E-03	5.10E-07	3.06E-04	2.29E-03	1.29E-03	2.60E-02	2.52E-02	6.96E-02
1485	495461.06	3858501.99	0.00828	0.0037	0.00487	0.00864	0.007	0.014	0.0037	0.0037	5.77E-02	6.83E-03	5.07E-07	3.04E-04	2.28E-03	1.33E-03	2.59E-02	2.52E-02	6.93E-02
1486	495511.06	3858501.99	0.00823	0.00368	0.00483	0.00858	0.007	0.015	0.0037	0.00368	5.74E-02	6.80E-03	5.03E-07	3.02E-04	2.27E-03	1.38E-03	2.59E-02	2.50E-02	6.90E-02
1487	495561.06	3858501.99	0.00821	0.00368	0.00481	0.00854	0.007	0.015	0.0036	0.00368	5.72E-02	6.80E-03	5.01E-07	3.01E-04	2.27E-03	1.44E-03	2.58E-02	2.50E-02	6.88E-02
1488	495611.06	3858501.99	0.00814	0.00365	0.00475	0.00846	0.007	0.016	0.0036	0.00365	5.67E-02	6.74E-03	4.95E-07	2.98E-04	2.23E-03	1.50E-03	2.56E-02	2.48E-02	6.83E-02
1489	495661.06	3858501.99	0.0081	0.00365	0.00475	0.00841	0.007	0.017	0.0036	0.00365	5.65E-02	6.74E-03	4.95E-07	2.96E-04	2.24E-03	1.57E-03	2.56E-02	2.48E-02	6.81E-02
1490	494311.06	3858551.99	0.01084	0.00439	0.00614	0.01116	0.009	0.012	0.0043	0.00439	7.56E-02	8.11E-03	6.39E-07	3.93E-04	2.85E-03	1.10E-03	3.08E-02	2.99E-02	8.89E-02
1491	494361.06	3858551.99	0.01084	0.00438	0.00611	0.01113	0.009	0.012	0.0043	0.00438	7.56E-02	8.09E-03	6.36E-07	3.92E-04	2.86E-03	1.11E-03	3.08E-02	2.98E-02	8.90E-02
1492	494411.06	3858551.99	0.01081	0.00439	0.00613	0.01111	0.009	0.012	0.0044	0.00439	7.54E-02	8.11E-03	6.38E-07	3.91E-04	2.88E-03	1.13E-03	3.08E-02	2.99E-02	8.88E-02
1493	494461.06	3858551.99	0.01075	0.00437	0.00608	0.01104	0.009	0.012	0.0043	0.00437	7.49E-02	8.07E-03	6.33E-07	3.89E-04	2.88E-03	1.14E-03	3.07E-02	2.97E-02	8.84E-02
1494	494511.06	3858551.99	0.01066	0.00434	0.00603	0.01093	0.009	0.012	0.0043	0.00434	7.43E-02	8.02E-03	6.28E-07	3.85E-04	2.85E-03	1.15E-03	3.05E-02	2.95E-02	8.77E-02
1495	494561.06	3858551.99	0.01057	0.00432	0.00598	0.01084	0.009	0.012	0.0043	0.00432	7.37E-02	7.98E-03	6.23E-07	3.82E-04	2.84E-03	1.16E-03	3.03E-02	2.94E-02	8.70E-02
1496	494611.06	3858551.99	0.01046	0.00429	0.00592	0.01072	0.009	0.012	0.0043	0.00429	7.29E-02	7.92E-03	6.16E-07	3.77E-04	2.81E-03	1.16E-03	3.01E-02	2.92E-02	8.61E-02
1497	494661.06	3858551.99	0.01037	0.00426	0.00587	0.01062	0.009	0.013	0.0042	0.00426	7.23E-02	7.87E-03	6.11E-07	3.74E-04	2.79E-03	1.17E-03	3.00E-02	2.90E-02	8.55E-02
1498	494711.06	3858551.99	0.01021	0.00422	0.00578	0.01047	0.009	0.013	0.0042	0.00422	7.12E-02	7.79E-03	6.02E-07	3.69E-04	2.75E-03	1.18E-03	2.97E-02	2.87E-02	8.43E-02
1499	494761.06	3858551.99	0.01006	0.00418	0.00571	0.01032	0.009	0.013	0.0041	0.00418	7.01E-02	7.72E-03	5.94E-07	3.63E-04	2.71E-03	1.18E-03	2.93E-02	2.84E-02	8.30E-02
1500	494811.06	3858551.99	0.00994	0.00414	0.00564	0.01019	0.009	0.013	0.0041	0.00414	6.93E-02	7.65E-03	5.87E-07	3.59E-04	2.68E-03	1.19E-03	2.91E-02	2.82E-02	8.21E-02
1501	494861.06	3858551.99	0.00979	0.0041	0.00557	0.01005	0.008	0.013	0.0041	0.0041	6.83E-02	7.57E-03	5.80E-07	3.54E-04	2.64E-03	1.19E-03	2.88E-02	2.79E-02	8.10E-02
1502	494911.06	3858551.99	0.00962	0.00406	0.0055	0.00988	0.008	0.013	0.004	0.00406	6.71E-02	7.50E-03	5.73E-07	3.48E-04	2.60E-03	1.19E-03	2.86E-02	2.76E-02	7.97E-02
1503	494961.06	3858551.99	0.00948	0.00403	0.00543	0.00975	0.008	0.013	0.004	0.00403	6.61E-02	7.44E-03	5.65E-07	3.43E-04	2.57E-03	1.20E-03	2.83E-02	2.74E-02	7.85E-02
1504	495011.06	3858551.99	0.00931	0.00398	0.00536	0.00959	0.008	0.013	0.004	0.00398	6.49E-02	7.35E-03	5.58E-07	3.38E-04	2.53E-03	1.20E-03	2.80E-02	2.71E-02	7.72E-02

1505	495061.06	3858551.99	0.00916	0.00395	0.0053	0.00948	0.008	0.013	0.0039	0.00395	6.39E-02	7.30E-03	5.52E-07	3.34E-04	2.50E-03	1.21E-03	2.78E-02	2.69E-02	7.61E-02
1506	495111.06	3858551.99	0.00897	0.00391	0.00522	0.00931	0.008	0.013	0.0039	0.00391	6.25E-02	7.22E-03	5.43E-07	3.28E-04	2.41E-03	1.22E-03	2.74E-02	2.66E-02	7.46E-02
1507	495161.06	3858551.99	0.00883	0.00387	0.00517	0.00918	0.008	0.013	0.0038	0.00387	6.16E-02	7.15E-03	5.38E-07	3.23E-04	2.38E-03	1.23E-03	2.72E-02	2.63E-02	7.35E-02
1508	495211.06	3858551.99	0.00871	0.00384	0.0051	0.00906	0.008	0.013	0.0038	0.00384	6.07E-02	7.09E-03	5.31E-07	3.19E-04	2.35E-03	1.25E-03	2.70E-02	2.61E-02	7.26E-02
1509	495261.06	3858551.99	0.00862	0.00382	0.00506	0.00897	0.007	0.013	0.0038	0.00382	6.01E-02	7.06E-03	5.27E-07	3.16E-04	2.33E-03	1.27E-03	2.68E-02	2.60E-02	7.19E-02
1510	495311.06	3858551.99	0.00857	0.0038	0.00502	0.0089	0.007	0.014	0.0038	0.0038	5.97E-02	7.02E-03	5.23E-07	3.13E-04	2.32E-03	1.30E-03	2.67E-02	2.58E-02	7.16E-02
1511	495361.06	3858551.99	0.00851	0.00379	0.00499	0.00883	0.007	0.014	0.0038	0.00379	5.93E-02	7.00E-03	5.19E-07	3.11E-04	2.30E-03	1.33E-03	2.66E-02	2.58E-02	7.11E-02
1512	495411.06	3858551.99	0.00847	0.00378	0.00496	0.00878	0.007	0.015	0.0037	0.00378	5.91E-02	6.98E-03	5.16E-07	3.09E-04	2.29E-03	1.37E-03	2.65E-02	2.57E-02	7.08E-02
1513	495461.06	3858551.99	0.00842	0.00376	0.00493	0.00871	0.007	0.015	0.0037	0.00376	5.87E-02	6.94E-03	5.13E-07	3.07E-04	2.28E-03	1.42E-03	2.64E-02	2.56E-02	7.05E-02
1514	495511.06	3858551.99	0.00839	0.00375	0.0049	0.00866	0.007	0.016	0.0037	0.00375	5.85E-02	6.93E-03	5.10E-07	3.05E-04	2.27E-03	1.48E-03	2.64E-02	2.55E-02	7.03E-02
1515	495561.06	3858551.99	0.00834	0.00374	0.00487	0.0086	0.007	0.016	0.0037	0.00374	5.81E-02	6.91E-03	5.07E-07	3.03E-04	2.26E-03	1.54E-03	2.63E-02	2.54E-02	7.00E-02
1516	495611.06	3858551.99	0.00828	0.00372	0.00484	0.00853	0.007	0.017	0.0037	0.00372	5.77E-02	6.87E-03	5.04E-07	3.00E-04	2.25E-03	1.61E-03	2.61E-02	2.53E-02	6.96E-02
1517	495661.06	3858551.99	0.00821	0.00371	0.0048	0.00846	0.007	0.018	0.0037	0.00371	5.72E-02	6.85E-03	5.00E-07	2.98E-04	2.23E-03	1.69E-03	2.60E-02	2.52E-02	6.91E-02
1518	494311.06	3858601.99	0.01048	0.00437	0.00608	0.01088	0.009	0.012	0.0043	0.00437	7.31E-02	8.07E-03	6.33E-07	3.83E-04	2.70E-03	1.11E-03	3.06E-02	2.97E-02	8.62E-02
1519	494361.06	3858601.99	0.01084	0.00444	0.00615	0.0111	0.009	0.012	0.0044	0.00444	7.56E-02	8.20E-03	6.40E-07	3.91E-04	2.79E-03	1.15E-03	3.11E-02	3.02E-02	8.90E-02
1520	494411.06	3858601.99	0.01102	0.0045	0.00625	0.01127	0.009	0.013	0.0045	0.0045	7.68E-02	8.31E-03	6.51E-07	3.97E-04	2.88E-03	1.18E-03	3.16E-02	3.06E-02	9.06E-02
1521	494461.06	3858601.99	0.01095	0.00448	0.00621	0.01119	0.009	0.013	0.0044	0.00448	7.63E-02	8.27E-03	6.46E-07	3.94E-04	2.87E-03	1.19E-03	3.15E-02	3.05E-02	9.01E-02
1522	494511.06	3858601.99	0.01085	0.00443	0.00613	0.01102	0.009	0.013	0.0044	0.00443	7.56E-02	8.18E-03	6.38E-07	3.88E-04	2.84E-03	1.20E-03	3.12E-02	3.01E-02	8.93E-02
1523	494561.06	3858601.99	0.01078	0.00443	0.00611	0.01099	0.009	0.013	0.0044	0.00443	7.52E-02	8.18E-03	6.36E-07	3.87E-04	2.84E-03	1.21E-03	3.11E-02	3.01E-02	8.88E-02
1524	494611.06	3858601.99	0.01065	0.00439	0.00604	0.01085	0.009	0.013	0.0044	0.00439	7.42E-02	8.11E-03	6.29E-07	3.82E-04	2.81E-03	1.22E-03	3.08E-02	2.99E-02	8.77E-02
1525	494661.06	3858601.99	0.01054	0.00436	0.00598	0.01074	0.009	0.013	0.0043	0.00436	7.35E-02	8.05E-03	6.23E-07	3.78E-04	2.79E-03	1.23E-03	3.06E-02	2.96E-02	8.69E-02
1526	494711.06	3858601.99	0.0104	0.00432	0.00591	0.01059	0.009	0.013	0.0043	0.00432	7.25E-02	7.98E-03	6.15E-07	3.73E-04	2.75E-03	1.24E-03	3.03E-02	2.94E-02	8.58E-02
1527	494761.06	3858601.99	0.01025	0.00428	0.00584	0.01045	0.009	0.013	0.0042	0.00428	7.15E-02	7.90E-03	6.08E-07	3.68E-04	2.72E-03	1.25E-03	3.00E-02	2.91E-02	8.46E-02
1528	494811.06	3858601.99	0.01006	0.00422	0.00574	0.01026	0.009	0.013	0.0042	0.00422	7.01E-02	7.79E-03	5.98E-07	3.61E-04	2.67E-03	1.24E-03	2.97E-02	2.87E-02	8.32E-02
1529	494861.06	3858601.99	0.00994	0.00419	0.00568	0.01014	0.008	0.013	0.0042	0.00419	6.93E-02	7.74E-03	5.91E-07	3.57E-04	2.64E-03	1.25E-03	2.95E-02	2.85E-02	8.23E-02
1530	494911.06	3858601.99	0.00975	0.00414	0.00558	0.00997	0.008	0.013	0.0041	0.00414	6.80E-02	7.65E-03	5.81E-07	3.51E-04	2.59E-03	1.25E-03	2.91E-02	2.82E-02	8.08E-02
1531	494961.06	3858601.99	0.00961	0.0041	0.00551	0.00983	0.008	0.013	0.0041	0.0041	6.70E-02	7.57E-03	5.74E-07	3.46E-04	2.56E-03	1.26E-03	2.88E-02	2.79E-02	7.97E-02
1532	495011.06	3858601.99	0.00946	0.00406	0.00545	0.00968	0.008	0.013	0.004	0.00406	6.60E-02	7.50E-03	5.67E-07	3.41E-04	2.52E-03	1.26E-03	2.86E-02	2.76E-02	7.85E-02
1533	495061.06	3858601.99	0.00932	0.00402	0.00538	0.00954	0.008	0.014	0.004	0.00402	6.50E-02	7.42E-03	5.60E-07	3.36E-04	2.48E-03	1.27E-03	2.83E-02	2.73E-02	7.74E-02
1534	495111.06	3858601.99	0.00907	0.00397	0.00529	0.00936	0.008	0.014	0.0039	0.00397	6.32E-02	7.33E-03	5.51E-07	3.29E-04	2.43E-03	1.28E-03	2.79E-02	2.70E-02	7.55E-02
1535	495161.06	3858601.99	0.00895	0.00394	0.00523	0.00924	0.008	0.014	0.0039	0.00394	6.24E-02	7.28E-03	5.44E-07	3.25E-04	2.37E-03	1.30E-03	2.76E-02	2.68E-02	7.45E-02
1536	495211.06	3858601.99	0.00886	0.00391	0.00519	0.00915	0.007	0.014	0.0039	0.00391	6.18E-02	7.22E-03	5.40E-07	3.22E-04	2.35E-03	1.32E-03	2.75E-02	2.66E-02	7.39E-02
1537	495261.06	3858601.99	0.00877	0.00389	0.00514	0.00905	0.007	0.014	0.0039	0.00389	6.11E-02	7.18E-03	5.35E-07	3.19E-04	2.33E-03	1.34E-03	2.73E-02	2.65E-02	7.32E-02
1538	495311.06	3858601.99	0.00869	0.00387	0.0051	0.00897	0.007	0.015	0.0038	0.00387	6.06E-02	7.15E-03	5.31E-07	3.16E-04	2.31E-03	1.38E-03	2.72E-02	2.63E-02	7.26E-02
1539	495361.06	3858601.99	0.00864	0.00385	0.00507	0.00891	0.007	0.015	0.0038	0.00385	6.02E-02	7.11E-03	5.28E-07	3.14E-04	2.30E-03	1.42E-03	2.71E-02	2.62E-02	7.23E-02
1540	495411.06	3858601.99	0.00859	0.00384	0.00503	0.00884	0.007	0.016	0.0038	0.00384	5.99E-02	7.09E-03	5.24E-07	3.11E-04	2.29E-03	1.47E-03	2.70E-02	2.61E-02	7.19E-02
1541	495461.06	3858601.99	0.00855	0.00383	0.005	0.00879	0.007	0.016	0.0038	0.00383	5.96E-02	7.07E-03	5.21E-07	3.09E-04	2.28E-03	1.53E-03	2.69E-02	2.60E-02	7.17E-02
1542	495511.06	3858601.99	0.00848	0.00381	0.00496	0.0087	0.007	0.017	0.0038	0.00381	5.91E-02	7.04E-03	5.16E-07	3.06E-04	2.26E-03	1.59E-03	2.68E-02	2.59E-02	7.12E-02
1543	495561.06	3858601.99	0.00845	0.0038	0.00494	0.00866	0.007	0.018	0.0038	0.0038	5.89E-02	7.02E-03	5.14E-07	3.05E-04	2.26E-03	1.66E-03	2.67E-02	2.58E-02	7.10E-02
1544	495611.06	3858601.99	0.00836	0.00378	0.00489	0.00857	0.007	0.018	0.0038	0.00378	5.83E-02	6.98E-03	5.09E-07	3.02E-04	2.23E-03	1.74E-03	2.66E-02	2.57E-02	7.04E-02
1545	495661.06	3858601.99	0.00833	0.00377	0.00487	0.00852	0.007	0.02	0.0037	0.00377	5.81E-02	6.96E-03	5.07E-07	3.00E-04	2.23E-03	1.84E-03	2.65E-02	2.56E-02	7.03E-02
1546	494311.06	3858651.99	0.01047	0.00443	0.00614	0.01084	0.008	0.012	0.0044	0.00443	7.30E-02	8.18E-03	6.39E-07	3.82E-04	2.62E-03	1.14E-03	3.10E-02	3.01E-02	8.62E-02
1547	494361.06	3858651.99	0.01083	0.00449	0.0062	0.01106	0.009	0.013	0.0045	0.00449	7.55E-02	8.29E-03	6.45E-07	3.89E-04	2.71E-03	1.18E-03	3.15E-02	3.05E-02	8.91E-02
1548	494411.06	3858651.99	0.01116	0.00457	0.00626	0.01134	0.009	0.013	0.0045	0.00457	7.78E-02	8.44E-03	6.52E-07	3.99E-04	2.84E-03	1.23E-03	3.22E-02	3.11E-02	9.18E-02
1549	494461.06	3858651.99	0.01111	0.00458	0.00634	0.01132	0.009	0.013	0.0046	0.00458	7.75E-02	8.46E-03	6.60E-07	3.98E-04	2.86E-03	1.25E-03	3.22E-02	3.11E-02	9.15E-02
1550	494511.06	3858651.99	0.01101	0.00455	0.00628	0.0112	0.009	0.013	0.0045	0.00455	7.68E-02	8.40E-03	6.54E-07	3.94E-04	2.84E-03	1.26E-03	3.20E-02	3.09E-02	9.07E-02
1551	494561.06	3858651.99	0.01093	0.00453	0.00623	0.01111	0.009	0.014	0.0045	0.00453	7.62E-02	8.37E-03	6.49E-07	3.91E-04	2.83E-03	1.27E-03	3.18E-02	3.08E-02	9.01E-02
1552	494611.06	3858651.99	0.01083	0.0045	0.00618	0.01101	0.009	0.014	0.0045	0.0045	7.55E-02	8.31E-03	6.43E-07	3.88E-04	2.81E-03	1.29E-03	3.17E-02	3.06E-02	8.94E-02
1553	494661.06	3858651.99	0.01071	0.00446	0.00611	0.01087	0.009	0.014	0.0044	0.00446	7.47E-02	8.24E-03	6.36E-07	3.83E-04	2.79E-03	1.30E-03	3.14E-02	3.03E-02	8.84E-02
1554	494711.06	3858651.99	0.01055	0.00441	0.00603	0.01071	0.009	0.014	0.0044	0.00441	7.36E-02	8.14E-03	6.28E-07	3.77E-04	2.74E-03	1.31E-03	3.10E-02	3.00E-02	8.72E-02
1555	494761.06	3858651.99	0.01042	0.00437	0.00596	0.01057	0.009	0.014	0.0043	0.00437	7.26E-02	8.07E-03	6.20E-07	3.72E-04	2.72E-03	1.32E-03	3.08E-02	2.97E-02	8.62E-02
1556	494811.06	3858651.99	0.01024	0.00432	0.00587	0.0104	0.009	0.014	0.0043	0.00432	7.14E-02	7.98E-03	6.11E-07	3.66E-04	2.67E-03	1.32E-03	3.04E-02	2.94E-02	8.47E-02
1557	494861.06	3858651.99	0.01008	0.00428	0.00579	0.01023	0.008	0.014	0.0042	0.00428	7.03E-02	7.90E-03	6.03E-07	3.60E-04	2.63E-03	1.33E-03	3.00E-02	2.91E-02	8.34E-02
1558	494911.06	3858651.99	0.0099	0.00422	0.00569	0.01006	0.008	0.014	0.0042	0.00422	6.90E-02	7.79E-03	5.92E-07	3.54E-04	2.58E-03	1.33E-03	2.97E-02	2.87E-02	8.21E-02
1559	494961.06	3858651.99	0.00973	0.00418	0.00561	0.0099	0.008	0.014	0.0041	0.00418	6.78E-02	7.72E-03	5.84E-07	3.48E-04	2.54E-03	1.33E-03	2.93E-02	2.84E-02	8.07E-02
1560	495011.06	3858651.99	0.00959	0.00414	0.00554	0.00976	0.008	0.014	0.0041	0.00414	6.69E-02	7.65E-03	5.77E-07	3.44E-04	2.51E-03	1.34E-03	2.91E-02	2.82E-02	7.97E-02
1561	495061.06	3858651.99	0.00944	0.00409	0.00546	0.00962	0.008	0.014	0.0041	0.00409	6.58E-02	7.55E-03	5.68E-07	3.39E-04	2.48E-03	1.35E-03	2.88E-02	2.78E-02	7.85E-02
1562	495111.06	3858651.99	0.00927	0.00405	0.00538	0.00945	0.008	0.015	0.004	0.00405	6.46E-02	7.48E-03	5.60E-07	3.33E-04	2.43E-03	1.36E-03	2.85E-02	2.75E-02	7.72E-02

1563	495161.06	3858651.99	0.00915	0.00402	0.00532	0.00934	0.008	0.015	0.004	0.00402	6.38E-02	7.42E-03	5.54E-07	3.29E-04	2.41E-03	1.38E-03	2.83E-02	2.73E-02	7.63E-02
1564	495211.06	3858651.99	0.00902	0.00398	0.00526	0.00921	0.008	0.015	0.004	0.00398	6.29E-02	7.35E-03	5.48E-07	3.24E-04	2.38E-03	1.40E-03	2.80E-02	2.71E-02	7.53E-02
1565	495261.06	3858651.99	0.00896	0.00396	0.00522	0.00914	0.008	0.015	0.0039	0.00396	6.25E-02	7.31E-03	5.43E-07	3.22E-04	2.37E-03	1.44E-03	2.78E-02	2.69E-02	7.48E-02
1566	495311.06	3858651.99	0.00884	0.00394	0.00518	0.00906	0.007	0.016	0.0039	0.00394	6.16E-02	7.28E-03	5.39E-07	3.19E-04	2.35E-03	1.48E-03	2.77E-02	2.68E-02	7.40E-02
1567	495361.06	3858651.99	0.00879	0.00393	0.00514	0.00899	0.007	0.016	0.0039	0.00393	6.13E-02	7.26E-03	5.35E-07	3.16E-04	2.34E-03	1.53E-03	2.76E-02	2.67E-02	7.36E-02
1568	495411.06	3858651.99	0.00874	0.00391	0.00511	0.00894	0.007	0.017	0.0039	0.00391	6.09E-02	7.22E-03	5.32E-07	3.15E-04	2.33E-03	1.59E-03	2.76E-02	2.66E-02	7.34E-02
1569	495461.06	3858651.99	0.00872	0.0039	0.00508	0.00889	0.007	0.018	0.0039	0.0039	6.08E-02	7.20E-03	5.29E-07	3.13E-04	2.32E-03	1.66E-03	2.75E-02	2.65E-02	7.33E-02
1570	495511.06	3858651.99	0.00863	0.00388	0.00503	0.0088	0.007	0.018	0.0039	0.00388	6.02E-02	7.17E-03	5.24E-07	3.10E-04	2.30E-03	1.72E-03	2.73E-02	2.64E-02	7.26E-02
1571	495561.06	3858651.99	0.00856	0.00386	0.00499	0.00873	0.007	0.019	0.0038	0.00386	5.97E-02	7.13E-03	5.19E-07	3.07E-04	2.25E-03	1.81E-03	2.72E-02	2.62E-02	7.21E-02
1572	495611.06	3858651.99	0.00847	0.00384	0.00494	0.00864	0.007	0.02	0.0038	0.00384	5.91E-02	7.09E-03	5.14E-07	3.04E-04	2.23E-03	1.90E-03	2.70E-02	2.61E-02	7.15E-02
1573	495661.06	3858651.99	0.00843	0.00382	0.00491	0.00858	0.007	0.022	0.0038	0.00382	5.88E-02	7.06E-03	5.11E-07	3.02E-04	2.22E-03	2.02E-03	2.69E-02	2.60E-02	7.13E-02
1574	494311.06	3858701.99	0.01064	0.00453	0.00629	0.01094	0.008	0.013	0.0045	0.00453	7.42E-02	8.37E-03	6.55E-07	3.85E-04	2.59E-03	1.19E-03	3.17E-02	3.08E-02	8.77E-02
1575	494361.06	3858701.99	0.01111	0.00463	0.00633	0.01128	0.009	0.013	0.0046	0.00463	7.75E-02	8.55E-03	6.59E-07	3.97E-04	2.73E-03	1.25E-03	3.25E-02	3.15E-02	9.14E-02
1576	494411.06	3858701.99	0.0113	0.00468	0.00639	0.01146	0.009	0.014	0.0047	0.00468	7.88E-02	8.64E-03	6.65E-07	4.03E-04	2.82E-03	1.29E-03	3.29E-02	3.18E-02	9.31E-02
1577	494461.06	3858701.99	0.01124	0.00466	0.00635	0.0114	0.009	0.014	0.0046	0.00466	7.84E-02	8.61E-03	6.61E-07	4.01E-04	2.82E-03	1.31E-03	3.28E-02	3.17E-02	9.26E-02
1578	494511.06	3858701.99	0.01115	0.00466	0.00642	0.01134	0.009	0.014	0.0046	0.00466	7.77E-02	8.61E-03	6.68E-07	3.99E-04	2.83E-03	1.33E-03	3.28E-02	3.17E-02	9.20E-02
1579	494561.06	3858701.99	0.01106	0.00463	0.00637	0.01123	0.009	0.014	0.0046	0.00463	7.71E-02	8.55E-03	6.63E-07	3.95E-04	2.81E-03	1.34E-03	3.26E-02	3.15E-02	9.13E-02
1580	494611.06	3858701.99	0.01088	0.00457	0.00626	0.01104	0.009	0.014	0.0045	0.00457	7.59E-02	8.44E-03	6.52E-07	3.89E-04	2.77E-03	1.35E-03	3.22E-02	3.11E-02	8.99E-02
1581	494661.06	3858701.99	0.01082	0.00455	0.00622	0.01098	0.009	0.015	0.0045	0.00455	7.54E-02	8.40E-03	6.48E-07	3.86E-04	2.76E-03	1.38E-03	3.20E-02	3.09E-02	8.95E-02
1582	494711.06	3858701.99	0.0105	0.00445	0.00606	0.01063	0.009	0.015	0.0044	0.00445	7.32E-02	8.22E-03	6.31E-07	3.74E-04	2.67E-03	1.37E-03	3.13E-02	3.03E-02	8.69E-02
1583	494761.06	3858701.99	0.01051	0.00445	0.00605	0.01064	0.009	0.015	0.0044	0.00445	7.33E-02	8.22E-03	6.30E-07	3.74E-04	2.69E-03	1.41E-03	3.13E-02	3.03E-02	8.70E-02
1584	494811.06	3858701.99	0.01034	0.0044	0.00596	0.01046	0.008	0.015	0.0044	0.0044	7.21E-02	8.13E-03	6.20E-07	3.68E-04	2.64E-03	1.41E-03	3.10E-02	2.99E-02	8.57E-02
1585	494861.06	3858701.99	0.01019	0.00436	0.00588	0.0103	0.008	0.015	0.0043	0.00436	7.10E-02	8.05E-03	6.12E-07	3.63E-04	2.61E-03	1.41E-03	3.07E-02	2.96E-02	8.45E-02
1586	494911.06	3858701.99	0.01005	0.00432	0.00581	0.01017	0.008	0.015	0.0043	0.00432	7.01E-02	7.98E-03	6.05E-07	3.58E-04	2.58E-03	1.42E-03	3.04E-02	2.94E-02	8.34E-02
1587	494961.06	3858701.99	0.00982	0.00425	0.0057	0.00995	0.008	0.015	0.0042	0.00425	6.85E-02	7.85E-03	5.93E-07	3.50E-04	2.52E-03	1.42E-03	2.99E-02	2.89E-02	8.16E-02
1588	495011.06	3858701.99	0.00966	0.0042	0.00561	0.00979	0.008	0.015	0.0042	0.0042	6.73E-02	7.76E-03	5.84E-07	3.45E-04	2.48E-03	1.43E-03	2.95E-02	2.86E-02	8.03E-02
1589	495061.06	3858701.99	0.00957	0.00418	0.00556	0.0097	0.008	0.015	0.0042	0.00418	6.67E-02	7.72E-03	5.79E-07	3.41E-04	2.46E-03	1.45E-03	2.94E-02	2.84E-02	7.97E-02
1590	495111.06	3858701.99	0.00939	0.00412	0.00545	0.00953	0.008	0.016	0.0041	0.00412	6.55E-02	7.61E-03	5.67E-07	3.35E-04	2.42E-03	1.46E-03	2.90E-02	2.80E-02	7.83E-02
1591	495161.06	3858701.99	0.00929	0.00409	0.00539	0.00942	0.008	0.016	0.0041	0.00409	6.48E-02	7.55E-03	5.61E-07	3.32E-04	2.40E-03	1.49E-03	2.88E-02	2.78E-02	7.75E-02
1592	495211.06	3858701.99	0.00915	0.00406	0.00533	0.00929	0.008	0.016	0.004	0.00406	6.38E-02	7.50E-03	5.55E-07	3.27E-04	2.37E-03	1.51E-03	2.86E-02	2.76E-02	7.64E-02
1593	495261.06	3858701.99	0.0091	0.00404	0.00529	0.00922	0.008	0.017	0.004	0.00404	6.34E-02	7.46E-03	5.51E-07	3.25E-04	2.36E-03	1.56E-03	2.84E-02	2.75E-02	7.61E-02
1594	495311.06	3858701.99	0.00905	0.00402	0.00525	0.00916	0.008	0.017	0.004	0.00402	6.31E-02	7.42E-03	5.47E-07	3.22E-04	2.35E-03	1.61E-03	2.83E-02	2.73E-02	7.58E-02
1595	495361.06	3858701.99	0.00898	0.004	0.00521	0.00908	0.007	0.018	0.004	0.004	6.26E-02	7.39E-03	5.42E-07	3.20E-04	2.34E-03	1.67E-03	2.82E-02	2.72E-02	7.53E-02
1596	495411.06	3858701.99	0.00894	0.00399	0.00518	0.00903	0.007	0.018	0.004	0.00399	6.23E-02	7.37E-03	5.39E-07	3.18E-04	2.33E-03	1.74E-03	2.81E-02	2.71E-02	7.51E-02
1597	495461.06	3858701.99	0.00888	0.00398	0.00514	0.00897	0.007	0.019	0.004	0.00398	6.19E-02	7.35E-03	5.35E-07	3.16E-04	2.32E-03	1.81E-03	2.80E-02	2.71E-02	7.46E-02
1598	495511.06	3858701.99	0.00881	0.00395	0.0051	0.00889	0.007	0.02	0.0039	0.00395	6.14E-02	7.30E-03	5.31E-07	3.13E-04	2.31E-03	1.90E-03	2.78E-02	2.69E-02	7.42E-02
1599	495561.06	3858701.99	0.00872	0.00393	0.00505	0.0088	0.007	0.021	0.0039	0.00393	6.08E-02	7.26E-03	5.26E-07	3.10E-04	2.29E-03	1.99E-03	2.77E-02	2.67E-02	7.36E-02
1600	495611.06	3858701.99	0.00864	0.00391	0.005	0.00872	0.007	0.022	0.0039	0.00391	6.02E-02	7.22E-03	5.21E-07	3.07E-04	2.27E-03	2.11E-03	2.76E-02	2.66E-02	7.31E-02
1601	495661.06	3858701.99	0.00858	0.00389	0.00496	0.00865	0.007	0.024	0.0039	0.00389	5.98E-02	7.18E-03	5.16E-07	3.04E-04	2.26E-03	2.26E-03	2.74E-02	2.65E-02	7.28E-02
1602	494311.06	3858751.99	0.01086	0.00464	0.00642	0.01104	0.008	0.013	0.0046	0.00464	7.57E-02	8.57E-03	6.68E-07	3.89E-04	2.56E-03	1.25E-03	3.25E-02	3.16E-02	8.95E-02
1603	494361.06	3858751.99	0.01133	0.00476	0.00649	0.01149	0.009	0.014	0.0047	0.00476	7.90E-02	8.79E-03	6.76E-07	4.04E-04	2.73E-03	1.32E-03	3.35E-02	3.24E-02	9.34E-02
1604	494411.06	3858751.99	0.01144	0.0048	0.00654	0.01162	0.009	0.014	0.0048	0.0048	7.98E-02	8.87E-03	6.81E-07	4.09E-04	2.80E-03	1.36E-03	3.38E-02	3.26E-02	9.44E-02
1605	494461.06	3858751.99	0.01137	0.00478	0.00649	0.01155	0.009	0.015	0.0048	0.00478	7.93E-02	8.83E-03	6.76E-07	4.07E-04	2.81E-03	1.38E-03	3.37E-02	3.25E-02	9.38E-02
1606	494511.06	3858751.99	0.0113	0.00479	0.00659	0.01152	0.009	0.015	0.0048	0.00479	7.88E-02	8.85E-03	6.86E-07	4.05E-04	2.82E-03	1.41E-03	3.37E-02	3.26E-02	9.34E-02
1607	494561.06	3858751.99	0.0112	0.00473	0.00648	0.01135	0.009	0.015	0.0047	0.00473	7.81E-02	8.74E-03	6.75E-07	3.99E-04	2.79E-03	1.43E-03	3.33E-02	3.22E-02	9.26E-02
1608	494611.06	3858751.99	0.01104	0.00468	0.0064	0.01117	0.009	0.015	0.0047	0.00468	7.70E-02	8.64E-03	6.66E-07	3.93E-04	2.76E-03	1.45E-03	3.29E-02	3.18E-02	9.13E-02
1609	494661.06	3858751.99	0.01094	0.00464	0.00629	0.01106	0.009	0.016	0.0046	0.00464	7.63E-02	8.57E-03	6.55E-07	3.89E-04	2.73E-03	1.47E-03	3.27E-02	3.16E-02	9.05E-02
1610	494711.06	3858751.99	0.01075	0.00457	0.0062	0.01084	0.009	0.016	0.0045	0.00457	7.49E-02	8.44E-03	6.45E-07	3.82E-04	2.68E-03	1.49E-03	3.22E-02	3.11E-02	8.90E-02
1611	494761.06	3858751.99	0.01063	0.00455	0.00616	0.01074	0.009	0.016	0.0045	0.00455	7.41E-02	8.40E-03	6.41E-07	3.78E-04	2.67E-03	1.52E-03	3.20E-02	3.09E-02	8.82E-02
1612	494811.06	3858751.99	0.01045	0.00449	0.00606	0.01055	0.008	0.016	0.0045	0.00449	7.29E-02	8.29E-03	6.31E-07	3.71E-04	2.62E-03	1.52E-03	3.16E-02	3.05E-02	8.67E-02
1613	494861.06	3858751.99	0.01028	0.00444	0.00597	0.01037	0.008	0.016	0.0044	0.00444	7.17E-02	8.20E-03	6.22E-07	3.65E-04	2.58E-03	1.52E-03	3.12E-02	3.02E-02	8.54E-02
1614	494911.06	3858751.99	0.0101	0.00438	0.00587	0.01019	0.008	0.016	0.0044	0.00438	7.04E-02	8.09E-03	6.11E-07	3.59E-04	2.53E-03	1.53E-03	3.08E-02	2.98E-02	8.40E-02
1615	494961.06	3858751.99	0.00996	0.00434	0.00579	0.01004	0.008	0.016	0.0043	0.00434	6.94E-02	8.02E-03	6.03E-07	3.53E-04	2.50E-03	1.54E-03	3.05E-02	2.95E-02	8.29E-02
1616	495011.06	3858751.99	0.00985	0.00431	0.00573	0.00993	0.008	0.017	0.0043	0.00431	6.87E-02	7.96E-03	5.97E-07	3.49E-04	2.48E-03	1.56E-03	3.03E-02	2.93E-02	8.20E-02
1617	495061.06	3858751.99	0.0097	0.00426	0.00565	0.00978	0.008	0.017	0.0042	0.00426	6.76E-02	7.87E-03	5.88E-07	3.44E-04	2.45E-03	1.58E-03	3.00E-02	2.90E-02	8.09E-02
1618	495111.06	3858751.99	0.00953	0.00421	0.00555	0.00962	0.008	0.017	0.0042	0.00421	6.64E-02	7.78E-03	5.78E-07	3.39E-04	2.41E-03	1.59E-03	2.96E-02	2.86E-02	7.96E-02
1619	495161.06	3858751.99	0.00942	0.00418	0.00549	0.00951	0.008	0.017	0.0042	0.00418	6.57E-02	7.72E-03	5.72E-07	3.35E-04	2.39E-03	1.62E-03	2.94E-02	2.84E-02	7.87E-02
1620	495211.06	3858751.99	0.00929	0.00414	0.00541	0.00938	0.008	0.018	0.0041	0.00414	6.48E-02	7.65E-03	5.63E-07	3.30E-04	2.36E-03	1.66E-03	2.91E-02	2.82E-02	7.77E-02

1621	495261.06	3858751.99	0.00923	0.00412	0.00537	0.00931	0.008	0.018	0.0041	0.00412	6.43E-02	7.61E-03	5.59E-07	3.28E-04	2.35E-03	1.72E-03	2.90E-02	2.80E-02	7.73E-02
1622	495311.06	3858751.99	0.00917	0.0041	0.00533	0.00925	0.007	0.019	0.0041	0.0041	6.39E-02	7.57E-03	5.55E-07	3.26E-04	2.35E-03	1.78E-03	2.89E-02	2.79E-02	7.70E-02
1623	495361.06	3858751.99	0.0091	0.00408	0.00529	0.00917	0.007	0.02	0.0041	0.00408	6.34E-02	7.54E-03	5.51E-07	3.23E-04	2.33E-03	1.85E-03	2.88E-02	2.77E-02	7.65E-02
1624	495411.06	3858751.99	0.00907	0.00407	0.00526	0.00913	0.007	0.021	0.0041	0.00407	6.32E-02	7.52E-03	5.48E-07	3.21E-04	2.33E-03	1.93E-03	2.87E-02	2.77E-02	7.64E-02
1625	495461.06	3858751.99	0.00901	0.00406	0.00522	0.00906	0.007	0.021	0.004	0.00406	6.28E-02	7.50E-03	5.43E-07	3.19E-04	2.32E-03	2.02E-03	2.86E-02	2.76E-02	7.59E-02
1626	495511.06	3858751.99	0.00894	0.00403	0.00515	0.00898	0.007	0.023	0.004	0.00403	6.23E-02	7.44E-03	5.36E-07	3.16E-04	2.31E-03	2.12E-03	2.84E-02	2.74E-02	7.55E-02
1627	495561.06	3858751.99	0.00885	0.00401	0.0051	0.0089	0.007	0.024	0.004	0.00401	6.17E-02	7.41E-03	5.31E-07	3.13E-04	2.29E-03	2.24E-03	2.83E-02	2.73E-02	7.50E-02
1628	495611.06	3858751.99	0.00877	0.00398	0.00505	0.00881	0.007	0.025	0.004	0.00398	6.11E-02	7.35E-03	5.26E-07	3.10E-04	2.27E-03	2.38E-03	2.81E-02	2.71E-02	7.45E-02
1629	495661.06	3858751.99	0.0087	0.00396	0.00501	0.00873	0.007	0.027	0.0039	0.00396	6.07E-02	7.31E-03	5.22E-07	3.07E-04	2.26E-03	2.57E-03	2.79E-02	2.69E-02	7.41E-02
1630	494311.06	3858801.99	0.01115	0.00478	0.00657	0.01128	0.008	0.014	0.0047	0.00478	7.77E-02	8.83E-03	6.84E-07	3.97E-04	2.57E-03	1.32E-03	3.35E-02	3.25E-02	9.19E-02
1631	494361.06	3858801.99	0.01149	0.00489	0.00665	0.01166	0.009	0.015	0.0049	0.00489	8.01E-02	9.03E-03	6.92E-07	4.10E-04	2.73E-03	1.39E-03	3.44E-02	3.33E-02	9.48E-02
1632	494411.06	3858801.99	0.01151	0.00491	0.00665	0.0117	0.009	0.015	0.0049	0.00491	8.02E-02	9.07E-03	6.92E-07	4.12E-04	2.77E-03	1.43E-03	3.45E-02	3.34E-02	9.50E-02
1633	494461.06	3858801.99	0.01148	0.0049	0.00664	0.01169	0.009	0.016	0.0049	0.0049	8.00E-02	9.05E-03	6.91E-07	4.11E-04	2.79E-03	1.47E-03	3.45E-02	3.33E-02	9.49E-02
1634	494511.06	3858801.99	0.01141	0.00491	0.00673	0.01167	0.009	0.016	0.0049	0.00491	7.95E-02	9.07E-03	7.01E-07	4.11E-04	2.81E-03	1.51E-03	3.45E-02	3.34E-02	9.45E-02
1635	494561.06	3858801.99	0.01132	0.00488	0.00667	0.01157	0.009	0.016	0.0049	0.00488	7.89E-02	9.01E-03	6.94E-07	4.07E-04	2.80E-03	1.54E-03	3.44E-02	3.32E-02	9.39E-02
1636	494611.06	3858801.99	0.01121	0.00484	0.00659	0.01144	0.009	0.017	0.0048	0.00484	7.82E-02	8.94E-03	6.86E-07	4.03E-04	2.78E-03	1.57E-03	3.40E-02	3.29E-02	9.29E-02
1637	494661.06	3858801.99	0.01107	0.00478	0.00649	0.01126	0.009	0.017	0.0048	0.00478	7.72E-02	8.83E-03	6.76E-07	3.96E-04	2.74E-03	1.60E-03	3.37E-02	3.25E-02	9.19E-02
1638	494711.06	3858801.99	0.0109	0.00471	0.00637	0.01105	0.009	0.017	0.0047	0.00471	7.60E-02	8.70E-03	6.63E-07	3.89E-04	2.69E-03	1.63E-03	3.32E-02	3.20E-02	9.06E-02
1639	494761.06	3858801.99	0.01071	0.00464	0.00625	0.01083	0.008	0.018	0.0046	0.00464	7.47E-02	8.57E-03	6.51E-07	3.81E-04	2.64E-03	1.65E-03	3.27E-02	3.16E-02	8.91E-02
1640	494811.06	3858801.99	0.01052	0.00457	0.00613	0.01061	0.008	0.018	0.0046	0.00457	7.33E-02	8.44E-03	6.38E-07	3.73E-04	2.58E-03	1.66E-03	3.22E-02	3.11E-02	8.76E-02
1641	494861.06	3858801.99	0.01039	0.00453	0.00605	0.01047	0.008	0.018	0.0045	0.00453	7.24E-02	8.37E-03	6.30E-07	3.69E-04	2.56E-03	1.67E-03	3.19E-02	3.08E-02	8.65E-02
1642	494911.06	3858801.99	0.01022	0.00447	0.00595	0.01028	0.008	0.018	0.0044	0.00447	7.13E-02	8.26E-03	6.19E-07	3.62E-04	2.52E-03	1.68E-03	3.15E-02	3.04E-02	8.51E-02
1643	494961.06	3858801.99	0.01008	0.00443	0.00587	0.01014	0.008	0.018	0.0044	0.00443	7.03E-02	8.18E-03	6.11E-07	3.57E-04	2.48E-03	1.70E-03	3.12E-02	3.01E-02	8.40E-02
1644	495011.06	3858801.99	0.00993	0.00438	0.00578	0.00998	0.008	0.018	0.0044	0.00438	6.92E-02	8.09E-03	6.02E-07	3.51E-04	2.45E-03	1.72E-03	3.08E-02	2.98E-02	8.29E-02
1645	495061.06	3858801.99	0.00982	0.00435	0.00572	0.00987	0.008	0.019	0.0043	0.00435	6.85E-02	8.03E-03	5.95E-07	3.47E-04	2.43E-03	1.75E-03	3.06E-02	2.96E-02	8.21E-02
1646	495111.06	3858801.99	0.00964	0.00429	0.00562	0.0097	0.008	0.019	0.0043	0.00429	6.72E-02	7.92E-03	5.85E-07	3.41E-04	2.39E-03	1.77E-03	3.02E-02	2.92E-02	8.06E-02
1647	495161.06	3858801.99	0.0095	0.00425	0.00554	0.00956	0.008	0.019	0.0042	0.00425	6.62E-02	7.85E-03	5.77E-07	3.36E-04	2.36E-03	1.80E-03	2.99E-02	2.89E-02	7.96E-02
1648	495211.06	3858801.99	0.00941	0.00422	0.00549	0.00946	0.007	0.02	0.0042	0.00422	6.56E-02	7.79E-03	5.72E-07	3.33E-04	2.35E-03	1.86E-03	2.97E-02	2.87E-02	7.89E-02
1649	495261.06	3858801.99	0.00935	0.0042	0.00544	0.00939	0.007	0.021	0.0042	0.0042	6.52E-02	7.76E-03	5.66E-07	3.30E-04	2.34E-03	1.93E-03	2.95E-02	2.86E-02	7.85E-02
1650	495311.06	3858801.99	0.0093	0.00419	0.0054	0.00934	0.007	0.021	0.0042	0.00419	6.48E-02	7.74E-03	5.62E-07	3.29E-04	2.34E-03	2.01E-03	2.95E-02	2.85E-02	7.82E-02
1651	495361.06	3858801.99	0.00923	0.00417	0.00536	0.00926	0.007	0.022	0.0041	0.00417	6.43E-02	7.70E-03	5.58E-07	3.26E-04	2.33E-03	2.09E-03	2.93E-02	2.84E-02	7.78E-02
1652	495411.06	3858801.99	0.00921	0.00416	0.00533	0.00924	0.007	0.023	0.0041	0.00416	6.42E-02	7.68E-03	5.55E-07	3.25E-04	2.33E-03	2.19E-03	2.93E-02	2.83E-02	7.78E-02
1653	495461.06	3858801.99	0.00914	0.00414	0.00528	0.00916	0.007	0.024	0.0041	0.00414	6.37E-02	7.65E-03	5.50E-07	3.22E-04	2.32E-03	2.30E-03	2.92E-02	2.82E-02	7.74E-02
1654	495511.06	3858801.99	0.00906	0.00411	0.00523	0.00907	0.007	0.026	0.0041	0.00411	6.32E-02	7.59E-03	5.44E-07	3.19E-04	2.31E-03	2.42E-03	2.90E-02	2.79E-02	7.68E-02
1655	495561.06	3858801.99	0.00898	0.00409	0.00518	0.009	0.007	0.027	0.0041	0.00409	6.26E-02	7.55E-03	5.39E-07	3.17E-04	2.29E-03	2.57E-03	2.88E-02	2.78E-02	7.64E-02
1656	495611.06	3858801.99	0.00888	0.00406	0.00512	0.0089	0.007	0.029	0.004	0.00406	6.19E-02	7.50E-03	5.33E-07	3.13E-04	2.27E-03	2.75E-03	2.86E-02	2.76E-02	7.58E-02
1657	495661.06	3858801.99	0.00882	0.00404	0.00508	0.00883	0.007	0.032	0.004	0.00404	6.15E-02	7.46E-03	5.29E-07	3.11E-04	2.26E-03	2.99E-03	2.86E-02	2.75E-02	7.56E-02
1658	494311.06	3858851.99	0.01162	0.00502	0.00681	0.01178	0.009	0.015	0.005	0.00502	8.10E-02	9.27E-03	7.09E-07	4.15E-04	2.68E-03	1.43E-03	3.53E-02	3.41E-02	9.60E-02
1659	494361.06	3858851.99	0.01172	0.00508	0.00687	0.01199	0.009	0.016	0.005	0.00508	8.17E-02	9.38E-03	7.15E-07	4.22E-04	2.77E-03	1.49E-03	3.57E-02	3.45E-02	9.69E-02
1660	494411.06	3858851.99	0.01164	0.00505	0.00681	0.0119	0.009	0.016	0.005	0.00505	8.12E-02	9.33E-03	7.09E-07	4.19E-04	2.77E-03	1.53E-03	3.55E-02	3.43E-02	9.64E-02
1661	494461.06	3858851.99	0.01158	0.00503	0.00678	0.01186	0.009	0.017	0.005	0.00503	8.07E-02	9.29E-03	7.06E-07	4.17E-04	2.78E-03	1.57E-03	3.54E-02	3.42E-02	9.60E-02
1662	494511.06	3858851.99	0.01149	0.00503	0.00685	0.01181	0.009	0.017	0.005	0.00503	8.01E-02	9.29E-03	7.13E-07	4.16E-04	2.79E-03	1.61E-03	3.54E-02	3.42E-02	9.54E-02
1663	494561.06	3858851.99	0.01139	0.00499	0.00678	0.0117	0.009	0.018	0.005	0.00499	7.94E-02	9.22E-03	7.06E-07	4.12E-04	2.77E-03	1.66E-03	3.51E-02	3.39E-02	9.47E-02
1664	494611.06	3858851.99	0.01127	0.00494	0.00668	0.01154	0.009	0.018	0.0049	0.00494	7.86E-02	9.12E-03	6.95E-07	4.06E-04	2.74E-03	1.70E-03	3.48E-02	3.36E-02	9.37E-02
1665	494661.06	3858851.99	0.01113	0.00489	0.00658	0.01136	0.009	0.019	0.0049	0.00489	7.76E-02	9.03E-03	6.85E-07	4.00E-04	2.71E-03	1.75E-03	3.44E-02	3.33E-02	9.26E-02
1666	494711.06	3858851.99	0.01095	0.00481	0.00645	0.01113	0.008	0.019	0.0048	0.00481	7.63E-02	8.88E-03	6.71E-07	3.92E-04	2.66E-03	1.79E-03	3.39E-02	3.27E-02	9.12E-02
1667	494761.06	3858851.99	0.01077	0.00474	0.00632	0.0109	0.008	0.019	0.0047	0.00474	7.51E-02	8.75E-03	6.58E-07	3.84E-04	2.60E-03	1.83E-03	3.34E-02	3.22E-02	8.98E-02
1668	494811.06	3858851.99	0.01062	0.00468	0.00621	0.01071	0.008	0.02	0.0047	0.00468	7.40E-02	8.64E-03	6.46E-07	3.77E-04	2.56E-03	1.85E-03	3.29E-02	3.18E-02	8.86E-02
1669	494861.06	3858851.99	0.01049	0.00463	0.00613	0.01057	0.008	0.02	0.0046	0.00463	7.31E-02	8.55E-03	6.38E-07	3.72E-04	2.54E-03	1.88E-03	3.27E-02	3.15E-02	8.77E-02
1670	494911.06	3858851.99	0.01034	0.00458	0.00603	0.0104	0.008	0.02	0.0046	0.00458	7.21E-02	8.46E-03	6.28E-07	3.66E-04	2.50E-03	1.89E-03	3.22E-02	3.11E-02	8.64E-02
1671	494961.06	3858851.99	0.01019	0.00453	0.00594	0.01024	0.008	0.02	0.0045	0.00453	7.10E-02	8.37E-03	6.18E-07	3.60E-04	2.47E-03	1.92E-03	3.19E-02	3.08E-02	8.52E-02
1672	495011.06	3858851.99	0.01007	0.00448	0.00586	0.01011	0.008	0.021	0.0045	0.00448	7.02E-02	8.27E-03	6.10E-07	3.56E-04	2.44E-03	1.96E-03	3.16E-02	3.05E-02	8.44E-02
1673	495061.06	3858851.99	0.00993	0.00444	0.00577	0.00996	0.008	0.021	0.0044	0.00444	6.92E-02	8.20E-03	6.01E-07	3.51E-04	2.41E-03	1.99E-03	3.12E-02	3.02E-02	8.32E-02
1674	495111.06	3858851.99	0.0097	0.00437	0.00565	0.00973	0.008	0.021	0.0043	0.00437	6.76E-02	8.07E-03	5.88E-07	3.42E-04	2.36E-03	2.01E-03	3.08E-02	2.97E-02	8.14E-02
1675	495161.06	3858851.99	0.00957	0.00432	0.00557	0.0096	0.007	0.022	0.0043	0.00432	6.67E-02	7.98E-03	5.80E-07	3.38E-04	2.33E-03	2.07E-03	3.04E-02	2.94E-02	8.05E-02
1676	495211.06	3858851.99	0.00953	0.00431	0.00554	0.00956	0.007	0.023	0.0043	0.00431	6.64E-02	7.96E-03	5.77E-07	3.36E-04	2.33E-03	2.16E-03	3.03E-02	2.93E-02	8.02E-02
1677	495261.06	3858851.99	0.00947	0.00429	0.00549	0.00949	0.007	0.024	0.0043	0.00429	6.60E-02	7.92E-03	5.72E-07	3.34E-04	2.33E-03	2.24E-03	3.02E-02	2.92E-02	7.99E-02
1678	495311.06	3858851.99	0.00942	0.00428	0.00545	0.00944	0.007	0.025	0.0043	0.00428	6.57E-02	7.90E-03	5.67E-07	3.32E-04	2.33E-03	2.34E-03	3.01E-02	2.91E-02	7.96E-02

1679	495361.06	3858851.99	0.00937	0.00426	0.00541	0.00937	0.007	0.026	0.0042	0.00426	6.53E-02	7.87E-03	5.63E-07	3.30E-04	2.32E-03	2.44E-03	3.00E-02	2.90E-02	7.93E-02
1680	495411.06	3858851.99	0.00931	0.00424	0.00536	0.00931	0.007	0.027	0.0042	0.00424	6.49E-02	7.83E-03	5.58E-07	3.28E-04	2.32E-03	2.56E-03	2.98E-02	2.88E-02	7.89E-02
1681	495461.06	3858851.99	0.00926	0.00422	0.00532	0.00926	0.007	0.029	0.0042	0.00422	6.46E-02	7.79E-03	5.54E-07	3.26E-04	2.32E-03	2.70E-03	2.98E-02	2.87E-02	7.88E-02
1682	495511.06	3858851.99	0.00921	0.0042	0.00527	0.00917	0.007	0.03	0.0042	0.0042	6.42E-02	7.76E-03	5.49E-07	3.23E-04	2.31E-03	2.86E-03	2.95E-02	2.86E-02	7.84E-02
1683	495561.06	3858851.99	0.00906	0.00416	0.00521	0.00906	0.007	0.032	0.0041	0.00416	6.32E-02	7.68E-03	5.42E-07	3.19E-04	2.28E-03	3.02E-03	2.93E-02	2.83E-02	7.75E-02
1684	495611.06	3858851.99	0.00896	0.00413	0.00515	0.00896	0.007	0.035	0.0041	0.00413	6.25E-02	7.63E-03	5.36E-07	3.15E-04	2.26E-03	3.25E-03	2.91E-02	2.81E-02	7.70E-02
1685	495661.06	3858851.99	0.00891	0.00412	0.00511	0.0089	0.007	0.038	0.0041	0.00412	6.21E-02	7.61E-03	5.32E-07	3.13E-04	2.25E-03	3.58E-03	2.90E-02	2.80E-02	7.69E-02
1686	494311.06	3858901.99	0.01177	0.00517	0.00697	0.012	0.009	0.016	0.0051	0.00517	8.21E-02	9.55E-03	7.26E-07	4.22E-04	2.69E-03	1.52E-03	3.63E-02	3.52E-02	9.74E-02
1687	494361.06	3858901.99	0.01181	0.00521	0.00702	0.01215	0.009	0.017	0.0052	0.00521	8.23E-02	9.62E-03	7.31E-07	4.28E-04	2.76E-03	1.58E-03	3.66E-02	3.54E-02	9.79E-02
1688	494411.06	3858901.99	0.01174	0.0052	0.00697	0.01211	0.009	0.017	0.0052	0.0052	8.18E-02	9.60E-03	7.26E-07	4.26E-04	2.77E-03	1.63E-03	3.66E-02	3.54E-02	9.75E-02
1689	494461.06	3858901.99	0.01166	0.0052	0.00706	0.01209	0.009	0.018	0.0052	0.0052	8.13E-02	9.60E-03	7.35E-07	4.26E-04	2.79E-03	1.68E-03	3.66E-02	3.54E-02	9.70E-02
1690	494511.06	3858901.99	0.01158	0.00518	0.007	0.01202	0.009	0.019	0.0051	0.00518	8.07E-02	9.57E-03	7.29E-07	4.23E-04	2.79E-03	1.74E-03	3.64E-02	3.52E-02	9.65E-02
1691	494561.06	3858901.99	0.01146	0.00512	0.00689	0.01186	0.009	0.019	0.0051	0.00512	7.99E-02	9.46E-03	7.17E-07	4.17E-04	2.76E-03	1.80E-03	3.61E-02	3.48E-02	9.56E-02
1692	494611.06	3858901.99	0.0113	0.00504	0.00675	0.01161	0.009	0.02	0.005	0.00504	7.88E-02	9.31E-03	7.03E-07	4.09E-04	2.71E-03	1.86E-03	3.55E-02	3.43E-02	9.43E-02
1693	494661.06	3858901.99	0.01118	0.00499	0.00665	0.01146	0.009	0.021	0.005	0.00499	7.79E-02	9.22E-03	6.92E-07	4.03E-04	2.68E-03	1.93E-03	3.51E-02	3.39E-02	9.34E-02
1694	494711.06	3858901.99	0.01102	0.00492	0.00652	0.01123	0.008	0.021	0.0049	0.00492	7.68E-02	9.09E-03	6.79E-07	3.95E-04	2.63E-03	2.00E-03	3.46E-02	3.35E-02	9.21E-02
1695	494761.06	3858901.99	0.01084	0.00484	0.00639	0.01099	0.008	0.022	0.0048	0.00484	7.56E-02	8.94E-03	6.65E-07	3.87E-04	2.58E-03	2.07E-03	3.41E-02	3.29E-02	9.07E-02
1696	494811.06	3858901.99	0.0107	0.00479	0.00629	0.01082	0.008	0.023	0.0048	0.00479	7.46E-02	8.85E-03	6.55E-07	3.81E-04	2.54E-03	2.14E-03	3.37E-02	3.26E-02	8.96E-02
1697	494861.06	3858901.99	0.01059	0.00474	0.0062	0.01069	0.008	0.023	0.0047	0.00474	7.38E-02	8.75E-03	6.45E-07	3.76E-04	2.52E-03	2.18E-03	3.34E-02	3.22E-02	8.88E-02
1698	494911.06	3858901.99	0.01039	0.00466	0.00607	0.01046	0.008	0.023	0.0046	0.00466	7.24E-02	8.61E-03	6.32E-07	3.68E-04	2.47E-03	2.19E-03	3.29E-02	3.17E-02	8.73E-02
1699	494961.06	3858901.99	0.01026	0.00462	0.00598	0.01031	0.008	0.024	0.0046	0.00462	7.15E-02	8.53E-03	6.23E-07	3.63E-04	2.44E-03	2.24E-03	3.25E-02	3.14E-02	8.62E-02
1700	495011.06	3858901.99	0.01014	0.00457	0.0059	0.01017	0.008	0.024	0.0045	0.00457	7.07E-02	8.44E-03	6.14E-07	3.58E-04	2.41E-03	2.30E-03	3.22E-02	3.11E-02	8.53E-02
1701	495061.06	3858901.99	0.00997	0.00451	0.00579	0.00999	0.008	0.025	0.0045	0.00451	6.95E-02	8.33E-03	6.03E-07	3.52E-04	2.38E-03	2.35E-03	3.17E-02	3.07E-02	8.40E-02
1702	495111.06	3858901.99	0.00975	0.00444	0.00567	0.00976	0.007	0.025	0.0044	0.00444	6.80E-02	8.20E-03	5.90E-07	3.44E-04	2.32E-03	2.39E-03	3.12E-02	3.02E-02	8.23E-02
1703	495161.06	3858901.99	0.00965	0.0044	0.0056	0.00966	0.007	0.026	0.0044	0.0044	6.73E-02	8.13E-03	5.83E-07	3.40E-04	2.30E-03	2.48E-03	3.10E-02	2.99E-02	8.16E-02
1704	495211.06	3858901.99	0.00964	0.0044	0.00558	0.00965	0.007	0.028	0.0044	0.0044	6.72E-02	8.13E-03	5.81E-07	3.40E-04	2.32E-03	2.62E-03	3.10E-02	2.99E-02	8.17E-02
1705	495261.06	3858901.99	0.00959	0.00438	0.00553	0.0096	0.007	0.029	0.0044	0.00438	6.69E-02	8.09E-03	5.76E-07	3.38E-04	2.32E-03	2.74E-03	3.09E-02	2.98E-02	8.14E-02
1706	495311.06	3858901.99	0.00952	0.00436	0.00548	0.00952	0.007	0.03	0.0043	0.00436	6.64E-02	8.05E-03	5.71E-07	3.35E-04	2.31E-03	2.86E-03	3.07E-02	2.96E-02	8.10E-02
1707	495361.06	3858901.99	0.00946	0.00434	0.00544	0.00946	0.007	0.032	0.0043	0.00434	6.60E-02	8.02E-03	5.66E-07	3.33E-04	2.31E-03	2.99E-03	3.06E-02	2.95E-02	8.07E-02
1708	495411.06	3858901.99	0.00942	0.00433	0.0054	0.00942	0.007	0.034	0.0043	0.00433	6.57E-02	8.00E-03	5.62E-07	3.32E-04	2.31E-03	3.15E-03	3.05E-02	2.94E-02	8.06E-02
1709	495461.06	3858901.99	0.00934	0.0043	0.00535	0.00934	0.007	0.035	0.0043	0.0043	6.51E-02	7.94E-03	5.57E-07	3.29E-04	2.30E-03	3.31E-03	3.03E-02	2.92E-02	8.01E-02
1710	495511.06	3858901.99	0.00924	0.00427	0.00529	0.00924	0.007	0.037	0.0043	0.00427	6.44E-02	7.89E-03	5.51E-07	3.25E-04	2.28E-03	3.48E-03	3.01E-02	2.90E-02	7.95E-02
1711	495561.06	3858901.99	0.00916	0.00424	0.00523	0.00915	0.007	0.039	0.0042	0.00424	6.39E-02	7.83E-03	5.44E-07	3.22E-04	2.27E-03	3.71E-03	2.99E-02	2.88E-02	7.91E-02
1712	495611.06	3858901.99	0.00906	0.00421	0.00517	0.00904	0.007	0.043	0.0042	0.00421	6.32E-02	7.78E-03	5.38E-07	3.18E-04	2.25E-03	4.00E-03	2.97E-02	2.86E-02	7.86E-02
1713	495661.06	3858901.99	0.00901	0.0042	0.00514	0.00899	0.007	0.047	0.0042	0.0042	6.28E-02	7.76E-03	5.35E-07	3.16E-04	2.25E-03	4.46E-03	2.96E-02	2.86E-02	7.87E-02
1714	494311.06	3858951.99	0.01194	0.00538	0.0072	0.01236	0.009	0.017	0.0053	0.00538	8.32E-02	9.94E-03	7.50E-07	4.35E-04	2.74E-03	1.61E-03	3.78E-02	3.66E-02	9.92E-02
1715	494361.06	3858951.99	0.01189	0.00538	0.00718	0.01239	0.009	0.018	0.0053	0.00538	8.29E-02	9.94E-03	7.47E-07	4.36E-04	2.77E-03	1.67E-03	3.78E-02	3.66E-02	9.89E-02
1716	494411.06	3858951.99	0.01178	0.00533	0.00708	0.01226	0.009	0.018	0.0053	0.00533	8.21E-02	9.84E-03	7.37E-07	4.32E-04	2.76E-03	1.73E-03	3.75E-02	3.62E-02	9.81E-02
1717	494461.06	3858951.99	0.0117	0.00534	0.00716	0.01225	0.009	0.019	0.0053	0.00534	8.16E-02	9.86E-03	7.45E-07	4.31E-04	2.78E-03	1.80E-03	3.75E-02	3.63E-02	9.76E-02
1718	494511.06	3858951.99	0.01161	0.0053	0.00708	0.01214	0.009	0.02	0.0053	0.0053	8.09E-02	9.79E-03	7.37E-07	4.27E-04	2.76E-03	1.88E-03	3.73E-02	3.60E-02	9.70E-02
1719	494561.06	3858951.99	0.01149	0.00524	0.00697	0.01198	0.009	0.021	0.0052	0.00524	8.01E-02	9.68E-03	7.26E-07	4.22E-04	2.74E-03	1.97E-03	3.68E-02	3.56E-02	9.61E-02
1720	494611.06	3858951.99	0.01135	0.00517	0.00684	0.01176	0.009	0.022	0.0051	0.00517	7.91E-02	9.55E-03	7.12E-07	4.14E-04	2.69E-03	2.06E-03	3.64E-02	3.52E-02	9.51E-02
1721	494661.06	3858951.99	0.01122	0.00511	0.00672	0.01156	0.008	0.023	0.0051	0.00511	7.82E-02	9.44E-03	7.00E-07	4.07E-04	2.65E-03	2.17E-03	3.59E-02	3.47E-02	9.41E-02
1722	494711.06	3858951.99	0.01105	0.00502	0.00656	0.0113	0.008	0.024	0.005	0.00502	7.70E-02	9.27E-03	6.83E-07	3.98E-04	2.59E-03	2.29E-03	3.54E-02	3.41E-02	9.28E-02
1723	494761.06	3858951.99	0.0109	0.00495	0.00645	0.0111	0.008	0.026	0.0049	0.00495	7.60E-02	9.14E-03	6.71E-07	3.91E-04	2.55E-03	2.42E-03	3.49E-02	3.37E-02	9.17E-02
1724	494811.06	3858951.99	0.01078	0.0049	0.00635	0.01095	0.008	0.027	0.0049	0.0049	7.52E-02	9.05E-03	6.61E-07	3.85E-04	2.53E-03	2.55E-03	3.45E-02	3.33E-02	9.09E-02
1725	494861.06	3858951.99	0.01066	0.00485	0.00626	0.0108	0.008	0.028	0.0048	0.00485	7.43E-02	8.96E-03	6.52E-07	3.80E-04	2.50E-03	2.63E-03	3.42E-02	3.30E-02	9.00E-02
1726	494911.06	3858951.99	0.01051	0.00479	0.00614	0.01061	0.008	0.029	0.0048	0.00479	7.33E-02	8.85E-03	6.39E-07	3.73E-04	2.46E-03	2.70E-03	3.37E-02	3.26E-02	8.88E-02
1727	494961.06	3858951.99	0.0104	0.00475	0.00606	0.01049	0.008	0.03	0.0047	0.00475	7.25E-02	8.77E-03	6.31E-07	3.69E-04	2.44E-03	2.82E-03	3.34E-02	3.23E-02	8.81E-02
1728	495011.06	3858951.99	0.01018	0.00466	0.00592	0.01022	0.008	0.03	0.0046	0.00466	7.10E-02	8.61E-03	6.16E-07	3.60E-04	2.38E-03	2.86E-03	3.28E-02	3.17E-02	8.63E-02
1729	495061.06	3858951.99	0.00997	0.00457	0.00578	0.00998	0.007	0.031	0.0046	0.00457	6.95E-02	8.44E-03	6.02E-07	3.51E-04	2.32E-03	2.93E-03	3.22E-02	3.11E-02	8.47E-02
1730	495111.06	3858951.99	0.00978	0.00451	0.00568	0.00979	0.007	0.032	0.0045	0.00451	6.82E-02	8.33E-03	5.91E-07	3.45E-04	2.27E-03	3.02E-03	3.17E-02	3.07E-02	8.32E-02
1731	495161.06	3858951.99	0.0098	0.00451	0.00566	0.00981	0.007	0.034	0.0045	0.00451	6.83E-02	8.33E-03	5.89E-07	3.45E-04	2.30E-03	3.24E-03	3.18E-02	3.07E-02	8.37E-02
1732	495211.06	3858951.99	0.00974	0.0045	0.00562	0.00975	0.007	0.036	0.0045	0.0045	6.79E-02	8.31E-03	5.85E-07	3.43E-04	2.30E-03	3.42E-03	3.17E-02	3.06E-02	8.34E-02
1733	495261.06	3858951.99	0.00969	0.00448	0.00557	0.0097	0.007	0.038	0.0045	0.00448	6.76E-02	8.27E-03	5.80E-07	3.41E-04	2.30E-03	3.60E-03	3.15E-02	3.05E-02	8.31E-02
1734	495311.06	3858951.99	0.00958	0.00444	0.0055	0.00959	0.007	0.04	0.0044	0.00444	6.68E-02	8.20E-03	5.73E-07	3.38E-04	2.28E-03	3.73E-03	3.13E-02	3.02E-02	8.25E-02
1735	495361.06	3858951.99	0.00953	0.00442	0.00546	0.00954	0.007	0.042	0.0044	0.00442	6.64E-02	8.16E-03	5.68E-07	3.36E-04	2.29E-03	3.92E-03	3.12E-02	3.01E-02	8.23E-02
1736	495411.06	3858951.99	0.00949	0.00441	0.00543	0.00951	0.007	0.044	0.0044	0.00441	6.62E-02	8.14E-03	5.65E-07	3.35E-04	2.29E-03	4.13E-03	3.11E-02	3.00E-02	8.22E-02

1737	495461.06	3858951.99	0.00942	0.00439	0.00538	0.00943	0.007	0.046	0.0044	0.00439	6.57E-02	8.11E-03	5.60E-07	3.32E-04	2.29E-03	4.32E-03	3.10E-02	2.99E-02	8.18E-02
1738	495511.06	3858951.99	0.00937	0.00438	0.00534	0.00938	0.007	0.049	0.0044	0.00438	6.53E-02	8.09E-03	5.56E-07	3.30E-04	2.29E-03	4.57E-03	3.09E-02	2.98E-02	8.17E-02
1739	495561.06	3858951.99	0.00924	0.00433	0.00526	0.00924	0.007	0.051	0.0043	0.00433	6.44E-02	8.00E-03	5.48E-07	3.25E-04	2.26E-03	4.80E-03	3.05E-02	2.94E-02	8.09E-02
1740	495611.06	3858951.99	0.00915	0.0043	0.0052	0.00914	0.007	0.055	0.0043	0.0043	6.38E-02	7.94E-03	5.41E-07	3.22E-04	2.24E-03	5.18E-03	3.03E-02	2.92E-02	8.06E-02
1741	495661.06	3858951.99	0.0091	0.00428	0.00516	0.0091	0.007	0.062	0.0043	0.00428	6.34E-02	7.90E-03	5.37E-07	3.20E-04	2.24E-03	5.85E-03	3.03E-02	2.91E-02	8.09E-02
1742	494311.06	3859001.99	0.01201	0.00555	0.00736	0.01264	0.009	0.018	0.0055	0.00555	8.37E-02	1.03E-02	7.66E-07	4.45E-04	2.76E-03	1.70E-03	3.90E-02	3.77E-02	1.00E-01
1743	494361.06	3859001.99	0.01192	0.00552	0.00729	0.01257	0.009	0.019	0.0055	0.00552	8.31E-02	1.02E-02	7.59E-07	4.42E-04	2.76E-03	1.77E-03	3.88E-02	3.75E-02	9.95E-02
1744	494411.06	3859001.99	0.01182	0.00552	0.00734	0.01251	0.009	0.02	0.0055	0.00552	8.24E-02	1.02E-02	7.64E-07	4.40E-04	2.76E-03	1.84E-03	3.87E-02	3.75E-02	9.88E-02
1745	494461.06	3859001.99	0.01173	0.00548	0.00725	0.01241	0.009	0.021	0.0054	0.00548	8.18E-02	1.01E-02	7.55E-07	4.37E-04	2.76E-03	1.93E-03	3.85E-02	3.73E-02	9.82E-02
1746	494511.06	3859001.99	0.01163	0.00544	0.00716	0.01229	0.009	0.022	0.0054	0.00544	8.11E-02	1.00E-02	7.45E-07	4.33E-04	2.74E-03	2.03E-03	3.82E-02	3.70E-02	9.75E-02
1747	494561.06	3859001.99	0.0115	0.00537	0.00703	0.01208	0.009	0.023	0.0053	0.00537	8.02E-02	9.92E-03	7.32E-07	4.25E-04	2.71E-03	2.15E-03	3.77E-02	3.65E-02	9.66E-02
1748	494611.06	3859001.99	0.01137	0.0053	0.0069	0.01188	0.009	0.025	0.0053	0.0053	7.93E-02	9.79E-03	7.18E-07	4.18E-04	2.67E-03	2.30E-03	3.73E-02	3.60E-02	9.57E-02
1749	494661.06	3859001.99	0.01123	0.00522	0.00676	0.01165	0.008	0.026	0.0052	0.00522	7.83E-02	9.64E-03	7.04E-07	4.10E-04	2.62E-03	2.48E-03	3.67E-02	3.55E-02	9.47E-02
1750	494711.06	3859001.99	0.01107	0.00513	0.00661	0.01139	0.008	0.029	0.0051	0.00513	7.72E-02	9.47E-03	6.88E-07	4.01E-04	2.57E-03	2.69E-03	3.61E-02	3.49E-02	9.36E-02
1751	494761.06	3859001.99	0.01095	0.00507	0.0065	0.01122	0.008	0.031	0.005	0.00507	7.63E-02	9.36E-03	6.77E-07	3.95E-04	2.53E-03	2.95E-03	3.57E-02	3.45E-02	9.28E-02
1752	494811.06	3859001.99	0.01084	0.00503	0.00642	0.01109	0.008	0.034	0.005	0.00503	7.56E-02	9.29E-03	6.68E-07	3.90E-04	2.52E-03	3.23E-03	3.54E-02	3.42E-02	9.22E-02
1753	494861.06	3859001.99	0.01071	0.00497	0.0063	0.01091	0.008	0.036	0.0049	0.00497	7.47E-02	9.18E-03	6.56E-07	3.84E-04	2.48E-03	3.40E-03	3.49E-02	3.38E-02	9.13E-02
1754	494911.06	3859001.99	0.01057	0.0049	0.00619	0.01073	0.008	0.038	0.0049	0.0049	7.37E-02	9.05E-03	6.44E-07	3.78E-04	2.45E-03	3.58E-03	3.45E-02	3.33E-02	9.03E-02
1755	494961.06	3859001.99	0.01043	0.00484	0.00608	0.01054	0.008	0.04	0.0048	0.00484	7.27E-02	8.94E-03	6.33E-07	3.71E-04	2.41E-03	3.79E-03	3.41E-02	3.29E-02	8.94E-02
1756	495011.06	3859001.99	0.01012	0.0047	0.00587	0.01014	0.007	0.041	0.0047	0.0047	7.06E-02	8.68E-03	6.11E-07	3.57E-04	2.30E-03	3.83E-03	3.31E-02	3.20E-02	8.69E-02
1757	495061.06	3859001.99	0.01001	0.00466	0.0058	0.01003	0.007	0.044	0.0046	0.00466	6.98E-02	8.61E-03	6.04E-07	3.53E-04	2.29E-03	4.10E-03	3.29E-02	3.17E-02	8.63E-02
1758	495111.06	3859001.99	0.00984	0.00459	0.00569	0.00985	0.007	0.046	0.0046	0.00459	6.86E-02	8.48E-03	5.92E-07	3.47E-04	2.25E-03	4.28E-03	3.24E-02	3.12E-02	8.51E-02
1759	495161.06	3859001.99	0.00988	0.00461	0.0057	0.00991	0.007	0.05	0.0046	0.00461	6.89E-02	8.51E-03	5.93E-07	3.49E-04	2.28E-03	4.71E-03	3.25E-02	3.13E-02	8.59E-02
1760	495211.06	3859001.99	0.00981	0.00459	0.00564	0.00983	0.007	0.053	0.0046	0.00459	6.84E-02	8.48E-03	5.87E-07	3.46E-04	2.28E-03	4.98E-03	3.24E-02	3.12E-02	8.56E-02
1761	495261.06	3859001.99	0.00976	0.00457	0.0056	0.00978	0.007	0.056	0.0046	0.00457	6.80E-02	8.44E-03	5.83E-07	3.44E-04	2.28E-03	5.26E-03	3.22E-02	3.11E-02	8.55E-02
1762	495311.06	3859001.99	0.00968	0.00454	0.00554	0.0097	0.007	0.058	0.0045	0.00454	6.75E-02	8.39E-03	5.77E-07	3.41E-04	2.28E-03	5.48E-03	3.20E-02	3.09E-02	8.51E-02
1763	495361.06	3859001.99	0.00962	0.00453	0.0055	0.00966	0.007	0.061	0.0045	0.00453	6.71E-02	8.37E-03	5.73E-07	3.40E-04	2.28E-03	5.73E-03	3.20E-02	3.08E-02	8.49E-02
1764	495411.06	3859001.99	0.00956	0.00451	0.00545	0.00959	0.007	0.063	0.0045	0.00451	6.66E-02	8.33E-03	5.67E-07	3.38E-04	2.28E-03	5.95E-03	3.18E-02	3.07E-02	8.47E-02
1765	495461.06	3859001.99	0.0095	0.00449	0.00541	0.00954	0.007	0.066	0.0045	0.00449	6.62E-02	8.29E-03	5.63E-07	3.36E-04	2.27E-03	6.20E-03	3.17E-02	3.05E-02	8.45E-02
1766	495511.06	3859001.99	0.00939	0.00445	0.00534	0.00941	0.007	0.068	0.0044	0.00445	6.55E-02	8.22E-03	5.56E-07	3.31E-04	2.25E-03	6.38E-03	3.14E-02	3.03E-02	8.38E-02
1767	495561.06	3859001.99	0.00931	0.00442	0.00528	0.00933	0.007	0.071	0.0044	0.00442	6.49E-02	8.16E-03	5.50E-07	3.28E-04	2.24E-03	6.71E-03	3.12E-02	3.01E-02	8.35E-02
1768	495611.06	3859001.99	0.00922	0.00439	0.00522	0.00923	0.007	0.077	0.0044	0.00439	6.43E-02	8.11E-03	5.43E-07	3.25E-04	2.23E-03	7.23E-03	3.10E-02	2.99E-02	8.33E-02
1769	495661.06	3859001.99	0.00921	0.00438	0.0052	0.00923	0.007	0.088	0.0044	0.00438	6.42E-02	8.09E-03	5.41E-07	3.25E-04	2.24E-03	8.32E-03	3.10E-02	2.98E-02	8.44E-02
1770	494311.06	3859051.99	0.01203	0.00572	0.00747	0.01287	0.009	0.019	0.0057	0.00572	8.39E-02	1.06E-02	7.78E-07	4.53E-04	2.75E-03	1.79E-03	4.00E-02	3.89E-02	1.01E-01
1771	494361.06	3859051.99	0.01193	0.00573	0.00753	0.01284	0.009	0.02	0.0057	0.00573	8.32E-02	1.06E-02	7.84E-07	4.52E-04	2.76E-03	1.87E-03	4.01E-02	3.90E-02	1.00E-01
1772	494411.06	3859051.99	0.01183	0.00567	0.00742	0.0127	0.009	0.021	0.0056	0.00567	8.25E-02	1.05E-02	7.72E-07	4.47E-04	2.74E-03	1.95E-03	3.97E-02	3.86E-02	9.93E-02
1773	494461.06	3859051.99	0.01172	0.00562	0.00731	0.01254	0.009	0.022	0.0056	0.00562	8.17E-02	1.04E-02	7.61E-07	4.41E-04	2.73E-03	2.05E-03	3.94E-02	3.82E-02	9.85E-02
1774	494511.06	3859051.99	0.0116	0.00555	0.00718	0.01235	0.009	0.023	0.0055	0.00555	8.09E-02	1.03E-02	7.47E-07	4.35E-04	2.69E-03	2.17E-03	3.89E-02	3.77E-02	9.76E-02
1775	494561.06	3859051.99	0.01149	0.00549	0.00706	0.01218	0.009	0.025	0.0054	0.00549	8.01E-02	1.01E-02	7.35E-07	4.29E-04	2.67E-03	2.34E-03	3.85E-02	3.73E-02	9.69E-02
1776	494611.06	3859051.99	0.01137	0.00542	0.00693	0.01197	0.008	0.027	0.0054	0.00542	7.93E-02	1.00E-02	7.21E-07	4.21E-04	2.64E-03	2.57E-03	3.80E-02	3.69E-02	9.61E-02
1777	494661.06	3859051.99	0.01124	0.00534	0.0068	0.01176	0.008	0.031	0.0053	0.00534	7.84E-02	9.86E-03	7.08E-07	4.14E-04	2.59E-03	2.87E-03	3.76E-02	3.63E-02	9.53E-02
1778	494711.06	3859051.99	0.01111	0.00527	0.00667	0.01155	0.008	0.035	0.0052	0.00527	7.75E-02	9.73E-03	6.94E-07	4.07E-04	2.56E-03	3.29E-03	3.71E-02	3.58E-02	9.47E-02
1779	494761.06	3859051.99	0.01097	0.0052	0.00654	0.01135	0.008	0.041	0.0052	0.0052	7.65E-02	9.60E-03	6.81E-07	3.99E-04	2.52E-03	3.82E-03	3.66E-02	3.54E-02	9.40E-02
1780	494811.06	3859051.99	0.01086	0.00514	0.00644	0.01119	0.008	0.048	0.0051	0.00514	7.57E-02	9.49E-03	6.70E-07	3.94E-04	2.49E-03	4.46E-03	3.61E-02	3.50E-02	9.37E-02
1781	494861.06	3859051.99	0.01074	0.00508	0.00634	0.01103	0.008	0.053	0.0051	0.00508	7.49E-02	9.38E-03	6.60E-07	3.88E-04	2.47E-03	4.97E-03	3.58E-02	3.45E-02	9.33E-02
1782	494911.06	3859051.99	0.01059	0.00501	0.00621	0.01081	0.008	0.058	0.005	0.00501	7.38E-02	9.25E-03	6.46E-07	3.80E-04	2.42E-03	5.45E-03	3.52E-02	3.41E-02	9.25E-02
1783	494961.06	3859051.99	0.01039	0.0049	0.00605	0.01051	0.008	0.064	0.0049	0.0049	7.24E-02	9.05E-03	6.30E-07	3.70E-04	2.35E-03	5.98E-03	3.45E-02	3.33E-02	9.14E-02
1784	495011.06	3859051.99	0.01022	0.00483	0.00592	0.01029	0.007	0.069	0.0048	0.00483	7.13E-02	8.92E-03	6.16E-07	3.62E-04	2.30E-03	6.53E-03	3.40E-02	3.28E-02	9.05E-02
1785	495061.06	3859051.99	0.01008	0.00477	0.00582	0.01013	0.007	0.075	0.0047	0.00477	7.03E-02	8.81E-03	6.06E-07	3.57E-04	2.27E-03	7.05E-03	3.36E-02	3.24E-02	8.99E-02
1786	495111.06	3859051.99	0.00998	0.00473	0.00575	0.01003	0.007	0.081	0.0047	0.00473	6.96E-02	8.74E-03	5.99E-07	3.53E-04	2.26E-03	7.58E-03	3.33E-02	3.22E-02	8.96E-02
1787	495161.06	3859051.99	0.00997	0.00473	0.00573	0.01003	0.007	0.089	0.0047	0.00473	6.95E-02	8.74E-03	5.97E-07	3.53E-04	2.28E-03	8.35E-03	3.33E-02	3.22E-02	9.04E-02
1788	495211.06	3859051.99	0.00986	0.00469	0.00566	0.00992	0.007	0.092	0.0047	0.00469	6.87E-02	8.66E-03	5.89E-07	3.49E-04	2.26E-03	8.64E-03	3.30E-02	3.19E-02	8.98E-02
1789	495261.06	3859051.99	0.00982	0.00468	0.00563	0.00989	0.007	0.098	0.0047	0.00468	6.85E-02	8.64E-03	5.86E-07	3.48E-04	2.27E-03	9.20E-03	3.29E-02	3.18E-02	9.01E-02
1790	495311.06	3859051.99	0.00974	0.00465	0.00557	0.0098	0.007	0.1	0.0046	0.00465	6.79E-02	8.59E-03	5.80E-07	3.45E-04	2.26E-03	9.43E-03	3.27E-02	3.16E-02	8.96E-02
1791	495361.06	3859051.99	0.00967	0.00462	0.00552	0.00974	0.007	0.104	0.0046	0.00462	6.74E-02	8.53E-03	5.75E-07	3.43E-04	2.26E-03	9.74E-03	3.26E-02	3.14E-02	8.95E-02
1792	495411.06	3859051.99	0.00962	0.00461	0.00548	0.0097	0.007	0.108	0.0046	0.00461	6.71E-02	8.51E-03	5.71E-07	3.41E-04	2.27E-03	1.01E-02	3.25E-02	3.13E-02	8.95E-02
1793	495461.06	3859051.99	0.00957	0.00459	0.00544	0.00966	0.007	0.111	0.0046	0.00459	6.67E-02	8.48E-03	5.66E-07	3.40E-04	2.27E-03	1.05E-02	3.24E-02	3.12E-02	8.94E-02
1794	495511.06	3859051.99	0.00946	0.00455	0.00537	0.00953	0.007	0.112	0.0045	0.00455	6.60E-02	8.40E-03	5.59E-07	3.35E-04	2.25E-03	1.05E-02	3.21E-02	3.09E-02	8.86E-02

1795	495561.06	3859051.99	0.00937	0.00451	0.0053	0.00942	0.007	0.115	0.0045	0.00451	6.53E-02	8.33E-03	5.52E-07	3.32E-04	2.23E-03	1.08E-02	3.18E-02	3.07E-02	8.81E-02
1796	495611.06	3859051.99	0.00928	0.00448	0.00524	0.00933	0.007	0.121	0.0045	0.00448	6.47E-02	8.27E-03	5.46E-07	3.28E-04	2.22E-03	1.14E-02	3.16E-02	3.05E-02	8.80E-02
1797	495661.06	3859051.99	0.00925	0.00447	0.00522	0.00931	0.007	0.14	0.0045	0.00447	6.45E-02	8.26E-03	5.43E-07	3.28E-04	2.23E-03	1.31E-02	3.16E-02	3.04E-02	8.96E-02
1798	494311.06	3859101.99	0.01201	0.00593	0.00769	0.01314	0.009	0.02	0.0059	0.00593	8.37E-02	1.10E-02	8.01E-07	4.62E-04	2.74E-03	1.89E-03	4.14E-02	4.03E-02	1.01E-01
1799	494361.06	3859101.99	0.01191	0.00588	0.00758	0.01301	0.009	0.021	0.0058	0.00588	8.30E-02	1.09E-02	7.89E-07	4.58E-04	2.73E-03	1.96E-03	4.11E-02	4.00E-02	1.00E-01
1800	494411.06	3859101.99	0.01181	0.00584	0.00749	0.01289	0.009	0.022	0.0058	0.00584	8.23E-02	1.08E-02	7.80E-07	4.54E-04	2.72E-03	2.05E-03	4.08E-02	3.97E-02	9.95E-02
1801	494461.06	3859101.99	0.0117	0.00577	0.00737	0.01272	0.009	0.023	0.0057	0.00577	8.16E-02	1.07E-02	7.67E-07	4.48E-04	2.70E-03	2.17E-03	4.04E-02	3.92E-02	9.87E-02
1802	494511.06	3859101.99	0.01158	0.00569	0.00722	0.01249	0.009	0.025	0.0056	0.00569	8.07E-02	1.05E-02	7.52E-07	4.40E-04	2.67E-03	2.31E-03	3.99E-02	3.87E-02	9.79E-02
1803	494561.06	3859101.99	0.01147	0.00562	0.0071	0.01231	0.008	0.027	0.0056	0.00562	8.00E-02	1.04E-02	7.39E-07	4.33E-04	2.64E-03	2.52E-03	3.94E-02	3.82E-02	9.71E-02
1804	494611.06	3859101.99	0.01134	0.00553	0.00694	0.01205	0.008	0.03	0.0055	0.00553	7.91E-02	1.02E-02	7.22E-07	4.24E-04	2.60E-03	2.81E-03	3.88E-02	3.76E-02	9.63E-02
1805	494661.06	3859101.99	0.01123	0.00547	0.00683	0.01188	0.008	0.035	0.0054	0.00547	7.83E-02	1.01E-02	7.11E-07	4.18E-04	2.57E-03	3.27E-03	3.84E-02	3.72E-02	9.59E-02
1806	494711.06	3859101.99	0.01108	0.00537	0.00667	0.01161	0.008	0.043	0.0053	0.00537	7.72E-02	9.92E-03	6.94E-07	4.09E-04	2.52E-03	3.99E-03	3.78E-02	3.65E-02	9.53E-02
1807	494761.06	3859101.99	0.01099	0.00533	0.00659	0.0115	0.008	0.056	0.0053	0.00533	7.66E-02	9.84E-03	6.86E-07	4.05E-04	2.51E-03	5.27E-03	3.75E-02	3.62E-02	9.59E-02
1808	494811.06	3859101.99	0.01087	0.00526	0.00647	0.01131	0.008	0.078	0.0052	0.00526	7.58E-02	9.71E-03	6.74E-07	3.98E-04	2.48E-03	7.36E-03	3.70E-02	3.58E-02	9.70E-02
1809	494861.06	3859101.99	0.01075	0.0052	0.00637	0.01114	0.008	0.102	0.0052	0.0052	7.49E-02	9.60E-03	6.63E-07	3.92E-04	2.45E-03	9.57E-03	3.66E-02	3.54E-02	9.82E-02
1810	494911.06	3859101.99	0.01061	0.00512	0.00622	0.01091	0.008	0.126	0.0051	0.00512	7.40E-02	9.46E-03	6.48E-07	3.84E-04	2.40E-03	1.19E-02	3.61E-02	3.48E-02	9.93E-02
1811	494961.06	3859101.99	0.01041	0.00501	0.00606	0.0106	0.007	0.15	0.005	0.00501	7.26E-02	9.25E-03	6.31E-07	3.73E-04	2.33E-03	1.41E-02	3.53E-02	3.41E-02	9.98E-02
1812	495011.06	3859101.99	0.01019	0.0049	0.00589	0.01028	0.007	0.163	0.0049	0.0049	7.10E-02	9.05E-03	6.13E-07	3.62E-04	2.25E-03	1.53E-02	3.45E-02	3.33E-02	9.92E-02
1813	495061.06	3859101.99	0.01014	0.00488	0.00584	0.01023	0.007	0.186	0.0049	0.00488	7.07E-02	9.01E-03	6.08E-07	3.60E-04	2.26E-03	1.74E-02	3.44E-02	3.32E-02	1.01E-01
1814	495111.06	3859101.99	0.01003	0.00484	0.00577	0.01012	0.007	0.196	0.0048	0.00484	6.99E-02	8.94E-03	6.01E-07	3.56E-04	2.24E-03	1.84E-02	3.41E-02	3.29E-02	1.01E-01
1815	495161.06	3859101.99	0.01001	0.00483	0.00575	0.01012	0.007	0.211	0.0048	0.00483	6.98E-02	8.92E-03	5.99E-07	3.56E-04	2.26E-03	1.99E-02	3.41E-02	3.28E-02	1.02E-01
1816	495211.06	3859101.99	0.00991	0.00479	0.00568	0.01001	0.007	0.216	0.0048	0.00479	6.91E-02	8.85E-03	5.91E-07	3.52E-04	2.25E-03	2.03E-02	3.38E-02	3.26E-02	1.02E-01
1817	495261.06	3859101.99	0.00986	0.00478	0.00564	0.00997	0.007	0.224	0.0048	0.00478	6.87E-02	8.83E-03	5.87E-07	3.51E-04	2.26E-03	2.11E-02	3.37E-02	3.25E-02	1.02E-01
1818	495311.06	3859101.99	0.0098	0.00474	0.00558	0.00989	0.007	0.233	0.0047	0.00474	6.83E-02	8.75E-03	5.81E-07	3.48E-04	2.25E-03	2.19E-02	3.34E-02	3.22E-02	1.03E-01
1819	495361.06	3859101.99	0.00974	0.00474	0.00555	0.00987	0.007	0.238	0.0047	0.00474	6.79E-02	8.75E-03	5.78E-07	3.47E-04	2.26E-03	2.23E-02	3.34E-02	3.22E-02	1.03E-01
1820	495411.06	3859101.99	0.00967	0.00472	0.00551	0.00982	0.007	0.242	0.0047	0.00472	6.74E-02	8.72E-03	5.74E-07	3.46E-04	2.26E-03	2.28E-02	3.32E-02	3.21E-02	1.03E-01
1821	495461.06	3859101.99	0.00961	0.00467	0.00543	0.00971	0.007	0.248	0.0047	0.00467	6.70E-02	8.63E-03	5.65E-07	3.42E-04	2.25E-03	2.33E-02	3.29E-02	3.18E-02	1.03E-01
1822	495511.06	3859101.99	0.00953	0.00464	0.00538	0.00964	0.007	0.253	0.0046	0.00464	6.64E-02	8.57E-03	5.60E-07	3.39E-04	2.24E-03	2.38E-02	3.27E-02	3.16E-02	1.03E-01
1823	495561.06	3859101.99	0.00943	0.00462	0.00533	0.00955	0.007	0.253	0.0046	0.00462	6.57E-02	8.53E-03	5.55E-07	3.36E-04	2.23E-03	2.38E-02	3.26E-02	3.14E-02	1.02E-01
1824	495611.06	3859101.99	0.00933	0.00458	0.00526	0.00944	0.007	0.258	0.0046	0.00458	6.50E-02	8.46E-03	5.48E-07	3.32E-04	2.21E-03	2.42E-02	3.23E-02	3.11E-02	1.01E-01
1825	495661.06	3859101.99	0.00928	0.00457	0.00523	0.00939	0.007	0.281	0.0046	0.00457	6.47E-02	8.44E-03	5.44E-07	3.30E-04	2.22E-03	2.64E-02	3.22E-02	3.11E-02	1.03E-01
1826	494311.06	3859151.99	0.01198	0.0061	0.00774	0.01334	0.009	0.021	0.006	0.0061	8.35E-02	1.13E-02	8.06E-07	4.70E-04	2.71E-03	1.99E-03	4.26E-02	4.15E-02	1.01E-01
1827	494361.06	3859151.99	0.01188	0.00606	0.00765	0.01324	0.009	0.022	0.006	0.00606	8.28E-02	1.12E-02	7.96E-07	4.66E-04	2.70E-03	2.08E-03	4.23E-02	4.12E-02	1.00E-01
1828	494411.06	3859151.99	0.01177	0.00599	0.00752	0.01303	0.009	0.023	0.0059	0.00599	8.21E-02	1.11E-02	7.83E-07	4.59E-04	2.68E-03	2.17E-03	4.18E-02	4.07E-02	9.95E-02
1829	494461.06	3859151.99	0.01166	0.00591	0.00738	0.01283	0.008	0.024	0.0058	0.00591	8.13E-02	1.09E-02	7.68E-07	4.52E-04	2.66E-03	2.29E-03	4.13E-02	4.02E-02	9.87E-02
1830	494511.06	3859151.99	0.01154	0.00582	0.00723	0.01259	0.008	0.026	0.0058	0.00582	8.05E-02	1.07E-02	7.53E-07	4.43E-04	2.62E-03	2.44E-03	4.07E-02	3.96E-02	9.79E-02
1831	494561.06	3859151.99	0.01143	0.00576	0.00712	0.01243	0.008	0.029	0.0057	0.00576	7.97E-02	1.06E-02	7.41E-07	4.37E-04	2.60E-03	2.68E-03	4.03E-02	3.92E-02	9.72E-02
1832	494611.06	3859151.99	0.01131	0.00567	0.00697	0.01219	0.008	0.032	0.0056	0.00567	7.89E-02	1.05E-02	7.26E-07	4.29E-04	2.57E-03	3.03E-03	3.97E-02	3.86E-02	9.65E-02
1833	494661.06	3859151.99	0.01121	0.00561	0.00686	0.01202	0.008	0.038	0.0056	0.00561	7.82E-02	1.04E-02	7.14E-07	4.23E-04	2.55E-03	3.60E-03	3.93E-02	3.81E-02	9.63E-02
1834	494711.06	3859151.99	0.01111	0.00555	0.00676	0.01188	0.008	0.049	0.0055	0.00555	7.75E-02	1.03E-02	7.04E-07	4.18E-04	2.53E-03	4.59E-03	3.90E-02	3.77E-02	9.65E-02
1835	494761.06	3859151.99	0.01097	0.00546	0.00661	0.01162	0.008	0.071	0.0054	0.00546	7.65E-02	1.01E-02	6.88E-07	4.09E-04	2.48E-03	6.68E-03	3.83E-02	3.71E-02	9.73E-02
1836	494811.06	3859151.99	0.01085	0.00538	0.00648	0.0114	0.008	0.135	0.0053	0.00538	7.56E-02	9.94E-03	6.75E-07	4.01E-04	2.45E-03	1.27E-02	3.78E-02	3.66E-02	1.02E-01
1837	494861.06	3859151.99	0.01074	0.00532	0.00638	0.01125	0.008	0.245	0.0053	0.00532	7.49E-02	9.83E-03	6.64E-07	3.96E-04	2.43E-03	2.30E-02	3.74E-02	3.62E-02	1.12E-01
1838	494911.06	3859151.99	0.0106	0.00523	0.00624	0.01099	0.008	0.494	0.0052	0.00523	7.39E-02	9.66E-03	6.50E-07	3.87E-04	2.38E-03	4.64E-02	3.68E-02	3.56E-02	1.34E-01
1839	494961.06	3859151.99	0.01043	0.00511	0.00606	0.01066	0.007	0.489	0.0051	0.00511	7.27E-02	9.44E-03	6.31E-07	3.75E-04	2.30E-03	4.60E-02	3.59E-02	3.47E-02	1.32E-01
1840	495011.06	3859151.99	0.01023	0.00501	0.0059	0.01038	0.007	0.528	0.005	0.00501	7.13E-02	9.25E-03	6.14E-07	3.65E-04	2.24E-03	4.97E-02	3.53E-02	3.41E-02	1.34E-01
1841	495061.06	3859151.99	0.01015	0.00498	0.00584	0.01032	0.007	0.5	0.005	0.00498	7.08E-02	9.20E-03	6.08E-07	3.63E-04	2.24E-03	4.70E-02	3.51E-02	3.39E-02	1.31E-01
1842	495111.06	3859151.99	0.01007	0.00495	0.00578	0.01022	0.007	0.498	0.0049	0.00495	7.02E-02	9.14E-03	6.02E-07	3.60E-04	2.23E-03	4.68E-02	3.49E-02	3.37E-02	1.30E-01
1843	495161.06	3859151.99	0.01004	0.00495	0.00576	0.01023	0.007	0.472	0.0049	0.00495	7.00E-02	9.14E-03	6.00E-07	3.60E-04	2.25E-03	4.43E-02	3.49E-02	3.37E-02	1.27E-01
1844	495211.06	3859151.99	0.00996	0.00492	0.0057	0.01015	0.007	0.53	0.0049	0.00492	6.94E-02	9.09E-03	5.93E-07	3.57E-04	2.25E-03	4.98E-02	3.46E-02	3.35E-02	1.32E-01
1845	495261.06	3859151.99	0.00988	0.00489	0.00565	0.01007	0.007	0.471	0.0049	0.00489	6.89E-02	9.03E-03	5.88E-07	3.54E-04	2.24E-03	4.43E-02	3.44E-02	3.33E-02	1.26E-01
1846	495311.06	3859151.99	0.00982	0.00486	0.0056	0.01001	0.007	0.452	0.0048	0.00486	6.85E-02	8.98E-03	5.83E-07	3.52E-04	2.24E-03	4.25E-02	3.43E-02	3.30E-02	1.24E-01
1847	495361.06	3859151.99	0.00974	0.00483	0.00555	0.00994	0.007	0.478	0.0048	0.00483	6.79E-02	8.92E-03	5.78E-07	3.50E-04	2.24E-03	4.50E-02	3.41E-02	3.28E-02	1.26E-01
1848	495411.06	3859151.99	0.00971	0.00483	0.00554	0.00994	0.007	0.447	0.0048	0.00483	6.77E-02	8.92E-03	5.77E-07	3.50E-04	2.26E-03	4.20E-02	3.41E-02	3.28E-02	1.22E-01
1849	495461.06	3859151.99	0.00964	0.00481	0.00549	0.00988	0.007	0.466	0.0048	0.00481	6.72E-02	8.88E-03	5.72E-07	3.48E-04	2.25E-03	4.38E-02	3.39E-02	3.27E-02	1.24E-01
1850	495511.06	3859151.99	0.00954	0.00476	0.00541	0.00975	0.007	0.456	0.0047	0.00476	6.65E-02	8.79E-03	5.63E-07	3.43E-04	2.23E-03	4.28E-02	3.36E-02	3.24E-02	1.22E-01
1851	495561.06	3859151.99	0.00946	0.00473	0.00535	0.00965	0.007	0.439	0.0047	0.00473	6.60E-02	8.74E-03	5.57E-07	3.40E-04	2.22E-03	4.13E-02	3.33E-02	3.22E-02	1.20E-01
1852	495611.06	3859151.99	0.00938	0.00469	0.00529	0.00956	0.007	0.417	0.0047	0.00469	6.54E-02	8.66E-03	5.51E-07	3.36E-04	2.21E-03	3.92E-02	3.31E-02	3.19E-02	1.17E-01

1853	495661.06	3859151.99	0.00931	0.00466	0.00524	0.00948	0.007	0.387	0.0046	0.00466	6.49E-02	8.61E-03	5.46E-07	3.34E-04	2.20E-03	3.64E-02	3.29E-02	3.17E-02	1.14E-01
1854	494311.06	3859201.99	0.01192	0.00628	0.00782	0.01355	0.009	0.023	0.0062	0.00628	8.31E-02	1.16E-02	8.14E-07	4.77E-04	2.67E-03	2.12E-03	4.37E-02	4.27E-02	1.01E-01
1855	494361.06	3859201.99	0.01182	0.00623	0.00771	0.0134	0.008	0.024	0.0061	0.00623	8.24E-02	1.15E-02	8.03E-07	4.72E-04	2.66E-03	2.22E-03	4.34E-02	4.24E-02	1.00E-01
1856	494411.06	3859201.99	0.01171	0.00615	0.00754	0.01321	0.008	0.025	0.0061	0.00615	8.16E-02	1.14E-02	7.85E-07	4.65E-04	2.64E-03	2.32E-03	4.29E-02	4.18E-02	9.95E-02
1857	494461.06	3859201.99	0.0116	0.00606	0.00739	0.01296	0.008	0.026	0.006	0.00606	8.09E-02	1.12E-02	7.69E-07	4.56E-04	2.61E-03	2.44E-03	4.22E-02	4.12E-02	9.86E-02
1858	494511.06	3859201.99	0.01149	0.00599	0.00727	0.01278	0.008	0.028	0.0059	0.00599	8.01E-02	1.11E-02	7.57E-07	4.50E-04	2.59E-03	2.62E-03	4.18E-02	4.07E-02	9.79E-02
1859	494561.06	3859201.99	0.01138	0.00589	0.00711	0.01252	0.008	0.031	0.0058	0.00589	7.93E-02	1.09E-02	7.40E-07	4.41E-04	2.56E-03	2.87E-03	4.12E-02	4.01E-02	9.72E-02
1860	494611.06	3859201.99	0.01127	0.00581	0.00698	0.01231	0.008	0.035	0.0057	0.00581	7.86E-02	1.07E-02	7.27E-07	4.33E-04	2.53E-03	3.25E-03	4.07E-02	3.95E-02	9.67E-02
1861	494661.06	3859201.99	0.01116	0.00575	0.00687	0.01214	0.008	0.041	0.0057	0.00575	7.78E-02	1.06E-02	7.15E-07	4.27E-04	2.51E-03	3.87E-03	4.02E-02	3.91E-02	9.64E-02
1862	494711.06	3859201.99	0.01106	0.00568	0.00676	0.01198	0.008	0.052	0.0056	0.00568	7.71E-02	1.05E-02	7.04E-07	4.22E-04	2.49E-03	4.93E-03	3.98E-02	3.86E-02	9.66E-02
1863	494761.06	3859201.99	0.01094	0.00559	0.00661	0.01173	0.008	0.076	0.0055	0.00559	7.63E-02	1.03E-02	6.88E-07	4.13E-04	2.45E-03	7.15E-03	3.92E-02	3.80E-02	9.78E-02
1864	494811.06	3859201.99	0.01082	0.00551	0.00648	0.01152	0.008	0.14	0.0055	0.00551	7.54E-02	1.02E-02	6.75E-07	4.05E-04	2.42E-03	1.32E-02	3.87E-02	3.75E-02	1.03E-01
1865	494861.06	3859201.99	0.0107	0.00541	0.00634	0.01126	0.008	0.262	0.0054	0.00541	7.46E-02	9.99E-03	6.60E-07	3.96E-04	2.38E-03	2.46E-02	3.80E-02	3.68E-02	1.13E-01
1866	494911.06	3859201.99	0.01055	0.00532	0.00619	0.01101	0.007	0.213	0.0053	0.00532	7.36E-02	9.83E-03	6.44E-07	3.88E-04	2.33E-03	2.00E-02	3.74E-02	3.62E-02	1.07E-01
1867	494961.06	3859201.99	0.01039	0.00522	0.00604	0.01073	0.007	0.163	0.0052	0.00522	7.24E-02	9.64E-03	6.29E-07	3.78E-04	2.27E-03	1.53E-02	3.67E-02	3.55E-02	1.01E-01
1868	495011.06	3859201.99	0.01019	0.00509	0.00586	0.01038	0.007	0.144	0.0051	0.00509	7.10E-02	9.40E-03	6.10E-07	3.65E-04	2.19E-03	1.35E-02	3.58E-02	3.46E-02	9.77E-02
1869	495061.06	3859201.99	0.01018	0.00511	0.00586	0.01044	0.007	0.14	0.0051	0.00511	7.10E-02	9.44E-03	6.10E-07	3.67E-04	2.23E-03	1.31E-02	3.59E-02	3.47E-02	9.73E-02
1870	495111.06	3859201.99	0.01011	0.00509	0.00582	0.01039	0.007	0.137	0.0051	0.00509	7.05E-02	9.40E-03	6.06E-07	3.66E-04	2.23E-03	1.28E-02	3.58E-02	3.46E-02	9.65E-02
1871	495161.06	3859201.99	0.01004	0.00506	0.00577	0.01032	0.007	0.135	0.005	0.00506	7.00E-02	9.35E-03	6.01E-07	3.63E-04	2.24E-03	1.27E-02	3.56E-02	3.44E-02	9.58E-02
1872	495211.06	3859201.99	0.00995	0.00502	0.0057	0.01022	0.007	0.134	0.005	0.00502	6.94E-02	9.27E-03	5.93E-07	3.60E-04	2.22E-03	1.26E-02	3.54E-02	3.41E-02	9.51E-02
1873	495261.06	3859201.99	0.00989	0.005	0.00566	0.01017	0.007	0.132	0.005	0.005	6.90E-02	9.23E-03	5.89E-07	3.58E-04	2.23E-03	1.24E-02	3.52E-02	3.40E-02	9.44E-02
1874	495311.06	3859201.99	0.00982	0.00497	0.00561	0.01011	0.007	0.131	0.005	0.00497	6.85E-02	9.18E-03	5.84E-07	3.56E-04	2.23E-03	1.23E-02	3.51E-02	3.38E-02	9.38E-02
1875	495361.06	3859201.99	0.00976	0.00495	0.00557	0.01005	0.007	0.129	0.0049	0.00495	6.80E-02	9.14E-03	5.80E-07	3.54E-04	2.23E-03	1.22E-02	3.49E-02	3.37E-02	9.31E-02
1876	495411.06	3859201.99	0.00971	0.00494	0.00554	0.01004	0.007	0.127	0.0049	0.00494	6.77E-02	9.12E-03	5.77E-07	3.53E-04	2.25E-03	1.19E-02	3.49E-02	3.36E-02	9.26E-02
1877	495461.06	3859201.99	0.00963	0.00491	0.00549	0.00996	0.007	0.125	0.0049	0.00491	6.71E-02	9.07E-03	5.72E-07	3.51E-04	2.24E-03	1.18E-02	3.46E-02	3.34E-02	9.18E-02
1878	495511.06	3859201.99	0.00956	0.00488	0.00544	0.00988	0.007	0.123	0.0049	0.00488	6.66E-02	9.01E-03	5.66E-07	3.48E-04	2.23E-03	1.16E-02	3.44E-02	3.32E-02	9.11E-02
1879	495561.06	3859201.99	0.00946	0.00483	0.00536	0.00974	0.007	0.122	0.0048	0.00483	6.60E-02	8.92E-03	5.58E-07	3.43E-04	2.21E-03	1.15E-02	3.41E-02	3.28E-02	9.01E-02
1880	495611.06	3859201.99	0.00938	0.00479	0.0053	0.00964	0.007	0.119	0.0048	0.00479	6.54E-02	8.85E-03	5.52E-07	3.39E-04	2.20E-03	1.11E-02	3.38E-02	3.26E-02	8.91E-02
1881	495661.06	3859201.99	0.00931	0.00476	0.00524	0.00956	0.007	0.112	0.0047	0.00476	6.49E-02	8.79E-03	5.46E-07	3.36E-04	2.19E-03	1.05E-02	3.36E-02	3.24E-02	8.80E-02
1882	494311.06	3859251.99	0.01186	0.00646	0.00784	0.01376	0.008	0.024	0.0063	0.00646	8.27E-02	1.19E-02	8.16E-07	4.84E-04	2.62E-03	2.28E-03	4.49E-02	4.39E-02	1.01E-01
1883	494361.06	3859251.99	0.01175	0.00639	0.0077	0.01355	0.008	0.025	0.0063	0.00639	8.19E-02	1.18E-02	8.02E-07	4.77E-04	2.61E-03	2.40E-03	4.44E-02	4.35E-02	1.00E-01
1884	494411.06	3859251.99	0.01164	0.00629	0.00754	0.01328	0.008	0.027	0.0062	0.00629	8.12E-02	1.16E-02	7.85E-07	4.67E-04	2.58E-03	2.50E-03	4.37E-02	4.28E-02	9.93E-02
1885	494461.06	3859251.99	0.01153	0.00621	0.00742	0.01309	0.008	0.028	0.0061	0.00621	8.04E-02	1.15E-02	7.72E-07	4.61E-04	2.57E-03	2.63E-03	4.33E-02	4.22E-02	9.86E-02
1886	494511.06	3859251.99	0.01141	0.0061	0.00722	0.01282	0.008	0.03	0.006	0.0061	7.95E-02	1.13E-02	7.52E-07	4.51E-04	2.53E-03	2.79E-03	4.26E-02	4.15E-02	9.77E-02
1887	494561.06	3859251.99	0.01131	0.00603	0.0071	0.01262	0.008	0.032	0.0059	0.00603	7.89E-02	1.11E-02	7.39E-07	4.44E-04	2.52E-03	3.05E-03	4.21E-02	4.10E-02	9.71E-02
1888	494611.06	3859251.99	0.0112	0.00594	0.00696	0.0124	0.008	0.037	0.0059	0.00594	7.81E-02	1.10E-02	7.25E-07	4.36E-04	2.49E-03	3.43E-03	4.15E-02	4.04E-02	9.65E-02
1889	494661.06	3859251.99	0.0111	0.00589	0.00686	0.01226	0.008	0.043	0.0058	0.00589	7.74E-02	1.09E-02	7.14E-07	4.32E-04	2.48E-03	4.03E-03	4.12E-02	4.01E-02	9.63E-02
1890	494711.06	3859251.99	0.011	0.00582	0.00675	0.01208	0.008	0.054	0.0057	0.00582	7.67E-02	1.07E-02	7.03E-07	4.25E-04	2.46E-03	5.05E-03	4.07E-02	3.96E-02	9.65E-02
1891	494761.06	3859251.99	0.01087	0.00567	0.00654	0.01169	0.008	0.076	0.0056	0.00567	7.58E-02	1.05E-02	6.81E-07	4.11E-04	2.40E-03	7.19E-03	3.97E-02	3.86E-02	9.74E-02
1892	494811.06	3859251.99	0.01078	0.00564	0.00648	0.01162	0.008	0.135	0.0056	0.00564	7.52E-02	1.04E-02	6.75E-07	4.09E-04	2.39E-03	1.27E-02	3.95E-02	3.84E-02	1.02E-01
1893	494861.06	3859251.99	0.01064	0.0055	0.00629	0.01128	0.007	0.266	0.0055	0.0055	7.42E-02	1.02E-02	6.55E-07	3.97E-04	2.33E-03	2.50E-02	3.86E-02	3.74E-02	1.13E-01
1894	494911.06	3859251.99	0.0105	0.00541	0.00614	0.01102	0.007	0.187	0.0054	0.00541	7.32E-02	9.99E-03	6.39E-07	3.88E-04	2.28E-03	1.76E-02	3.80E-02	3.68E-02	1.05E-01
1895	494961.06	3859251.99	0.01039	0.00535	0.00604	0.01085	0.007	0.132	0.0053	0.00535	7.24E-02	9.88E-03	6.29E-07	3.82E-04	2.26E-03	1.24E-02	3.76E-02	3.64E-02	9.85E-02
1896	495011.06	3859251.99	0.01027	0.00528	0.00593	0.01067	0.007	0.106	0.0052	0.00528	7.16E-02	9.75E-03	6.17E-07	3.76E-04	2.23E-03	1.00E-02	3.71E-02	3.59E-02	9.52E-02
1897	495061.06	3859251.99	0.0102	0.00526	0.00589	0.01063	0.007	0.095	0.0052	0.00526	7.11E-02	9.71E-03	6.13E-07	3.74E-04	2.24E-03	8.94E-03	3.70E-02	3.58E-02	9.36E-02
1898	495111.06	3859251.99	0.01012	0.00522	0.00583	0.01053	0.007	0.088	0.0052	0.00522	7.06E-02	9.64E-03	6.07E-07	3.71E-04	2.23E-03	8.28E-03	3.67E-02	3.55E-02	9.23E-02
1899	495161.06	3859251.99	0.01004	0.00519	0.00578	0.01045	0.007	0.084	0.0052	0.00519	7.00E-02	9.59E-03	6.02E-07	3.68E-04	2.23E-03	7.87E-03	3.65E-02	3.53E-02	9.13E-02
1900	495211.06	3859251.99	0.00996	0.00515	0.00571	0.01035	0.007	0.081	0.0051	0.00515	6.94E-02	9.51E-03	5.94E-07	3.64E-04	2.22E-03	7.60E-03	3.62E-02	3.50E-02	9.03E-02
1901	495261.06	3859251.99	0.0099	0.00511	0.00565	0.01027	0.007	0.079	0.0051	0.00511	6.90E-02	9.44E-03	5.88E-07	3.61E-04	2.22E-03	7.38E-03	3.59E-02	3.47E-02	8.96E-02
1902	495311.06	3859251.99	0.00982	0.0051	0.00562	0.01024	0.007	0.077	0.0051	0.0051	6.85E-02	9.42E-03	5.85E-07	3.60E-04	2.23E-03	7.24E-03	3.59E-02	3.47E-02	8.90E-02
1903	495361.06	3859251.99	0.00975	0.00507	0.00557	0.01016	0.007	0.076	0.005	0.00507	6.80E-02	9.36E-03	5.80E-07	3.58E-04	2.22E-03	7.12E-03	3.57E-02	3.45E-02	8.83E-02
1904	495411.06	3859251.99	0.00969	0.00506	0.00554	0.01014	0.007	0.074	0.005	0.00506	6.76E-02	9.35E-03	5.77E-07	3.57E-04	2.23E-03	6.98E-03	3.56E-02	3.44E-02	8.77E-02
1905	495461.06	3859251.99	0.00962	0.00503	0.00549	0.01006	0.007	0.073	0.005	0.00503	6.71E-02	9.29E-03	5.72E-07	3.54E-04	2.23E-03	6.86E-03	3.54E-02	3.42E-02	8.70E-02
1906	495511.06	3859251.99	0.00952	0.00497	0.00541	0.00992	0.007	0.072	0.005	0.00497	6.64E-02	9.18E-03	5.63E-07	3.49E-04	2.21E-03	6.75E-03	3.51E-02	3.38E-02	8.61E-02
1907	495561.06	3859251.99	0.00945	0.00494	0.00535	0.00983	0.007	0.07	0.0049	0.00494	6.59E-02	9.12E-03	5.57E-07	3.46E-04	2.20E-03	6.60E-03	3.48E-02	3.36E-02	8.53E-02
1908	495611.06	3859251.99	0.00936	0.00489	0.00528	0.00971	0.007	0.068	0.0049	0.00489	6.53E-02	9.03E-03	5.50E-07	3.42E-04	2.18E-03	6.43E-03	3.45E-02	3.33E-02	8.45E-02
1909	495661.06	3859251.99	0.00928	0.00486	0.00523	0.00962	0.007	0.066	0.0048	0.00486	6.47E-02	8.98E-03	5.44E-07	3.39E-04	2.17E-03	6.18E-03	3.42E-02	3.30E-02	8.35E-02
1910	494311.06	3859301.99	0.01178	0.00664	0.00783	0.01394	0.008	0.026	0.0065	0.00664	8.21E-02	1.23E-02	8.15E-07	4.91E-04	2.57E-03	2.49E-03	4.61E-02	4.52E-02	1.01E-01

1911	494361.06	3859301.99	0.01167	0.00656	0.00769	0.01371	0.008	0.028	0.0064	0.00656	8.14E-02	1.21E-02	8.01E-07	4.83E-04	2.55E-03	2.61E-03	4.55E-02	4.46E-02	1.00E-01
1912	494411.06	3859301.99	0.01156	0.00645	0.00753	0.01344	0.008	0.029	0.0063	0.00645	8.06E-02	1.19E-02	7.84E-07	4.73E-04	2.53E-03	2.73E-03	4.49E-02	4.39E-02	9.92E-02
1913	494461.06	3859301.99	0.01145	0.00635	0.00737	0.01318	0.008	0.03	0.0062	0.00635	7.98E-02	1.17E-02	7.67E-07	4.64E-04	2.51E-03	2.85E-03	4.41E-02	4.32E-02	9.83E-02
1914	494511.06	3859301.99	0.01134	0.00626	0.00723	0.01293	0.008	0.032	0.0062	0.00626	7.91E-02	1.16E-02	7.53E-07	4.55E-04	2.49E-03	3.01E-03	4.36E-02	4.26E-02	9.76E-02
1915	494561.06	3859301.99	0.01123	0.00618	0.00711	0.01274	0.008	0.035	0.0061	0.00618	7.83E-02	1.14E-02	7.40E-07	4.48E-04	2.47E-03	3.27E-03	4.31E-02	4.20E-02	9.70E-02
1916	494611.06	3859301.99	0.01113	0.0061	0.00695	0.01254	0.008	0.039	0.006	0.0061	7.76E-02	1.13E-02	7.24E-07	4.41E-04	2.45E-03	3.64E-03	4.25E-02	4.15E-02	9.64E-02
1917	494661.06	3859301.99	0.01103	0.00602	0.00683	0.01234	0.008	0.045	0.0059	0.00602	7.69E-02	1.11E-02	7.11E-07	4.34E-04	2.43E-03	4.21E-03	4.20E-02	4.09E-02	9.62E-02
1918	494711.06	3859301.99	0.01092	0.00593	0.00669	0.01211	0.008	0.055	0.0059	0.00593	7.61E-02	1.10E-02	6.96E-07	4.26E-04	2.41E-03	5.20E-03	4.14E-02	4.03E-02	9.62E-02
1919	494761.06	3859301.99	0.01082	0.00585	0.00657	0.01192	0.008	0.076	0.0058	0.00585	7.54E-02	1.08E-02	6.84E-07	4.20E-04	2.38E-03	7.18E-03	4.09E-02	3.98E-02	9.73E-02
1920	494811.06	3859301.99	0.0107	0.00575	0.00643	0.01166	0.007	0.132	0.0057	0.00575	7.46E-02	1.06E-02	6.69E-07	4.10E-04	2.35E-03	1.24E-02	4.02E-02	3.91E-02	1.02E-01
1921	494861.06	3859301.99	0.01057	0.00562	0.00624	0.01133	0.007	0.185	0.0056	0.00562	7.37E-02	1.04E-02	6.50E-07	3.99E-04	2.29E-03	1.74E-02	3.94E-02	3.82E-02	1.05E-01
1922	494911.06	3859301.99	0.01046	0.00555	0.00613	0.01115	0.007	0.188	0.0055	0.00555	7.29E-02	1.03E-02	6.38E-07	3.92E-04	2.27E-03	1.77E-02	3.89E-02	3.77E-02	1.05E-01
1923	494961.06	3859301.99	0.01032	0.00543	0.00596	0.01082	0.007	0.123	0.0054	0.00543	7.19E-02	1.00E-02	6.20E-07	3.81E-04	2.21E-03	1.16E-02	3.80E-02	3.69E-02	9.73E-02
1924	495011.06	3859301.99	0.01022	0.00537	0.00587	0.01068	0.007	0.097	0.0053	0.00537	7.13E-02	9.92E-03	6.11E-07	3.76E-04	2.19E-03	9.16E-03	3.77E-02	3.65E-02	9.41E-02
1925	495061.06	3859301.99	0.01019	0.00538	0.00588	0.01074	0.007	0.085	0.0053	0.00538	7.10E-02	9.94E-03	6.12E-07	3.78E-04	2.23E-03	8.03E-03	3.78E-02	3.66E-02	9.28E-02
1926	495111.06	3859301.99	0.01008	0.00532	0.00579	0.01056	0.007	0.076	0.0053	0.00532	7.03E-02	9.83E-03	6.03E-07	3.72E-04	2.20E-03	7.13E-03	3.73E-02	3.62E-02	9.10E-02
1927	495161.06	3859301.99	0.01	0.00529	0.00574	0.0105	0.007	0.07	0.0053	0.00529	6.97E-02	9.77E-03	5.98E-07	3.70E-04	2.20E-03	6.59E-03	3.72E-02	3.60E-02	8.99E-02
1928	495211.06	3859301.99	0.00994	0.00528	0.00572	0.01049	0.007	0.066	0.0052	0.00528	6.93E-02	9.75E-03	5.95E-07	3.69E-04	2.22E-03	6.22E-03	3.71E-02	3.59E-02	8.91E-02
1929	495261.06	3859301.99	0.00987	0.00526	0.00568	0.01044	0.007	0.063	0.0052	0.00526	6.88E-02	9.71E-03	5.91E-07	3.67E-04	2.22E-03	5.94E-03	3.70E-02	3.58E-02	8.83E-02
1930	495311.06	3859301.99	0.00978	0.00521	0.0056	0.0103	0.007	0.061	0.0052	0.00521	6.82E-02	9.62E-03	5.83E-07	3.63E-04	2.20E-03	5.70E-03	3.66E-02	3.54E-02	8.73E-02
1931	495361.06	3859301.99	0.00972	0.00519	0.00557	0.01027	0.007	0.059	0.0052	0.00519	6.78E-02	9.59E-03	5.80E-07	3.61E-04	2.21E-03	5.52E-03	3.66E-02	3.53E-02	8.67E-02
1932	495411.06	3859301.99	0.00965	0.00516	0.00552	0.0102	0.007	0.057	0.0051	0.00516	6.73E-02	9.53E-03	5.75E-07	3.59E-04	2.21E-03	5.36E-03	3.63E-02	3.51E-02	8.60E-02
1933	495461.06	3859301.99	0.00958	0.00514	0.00548	0.01014	0.007	0.055	0.0051	0.00514	6.68E-02	9.49E-03	5.71E-07	3.57E-04	2.21E-03	5.21E-03	3.62E-02	3.50E-02	8.53E-02
1934	495511.06	3859301.99	0.0095	0.00509	0.00541	0.01002	0.007	0.054	0.0051	0.00509	6.62E-02	9.40E-03	5.63E-07	3.53E-04	2.20E-03	5.06E-03	3.59E-02	3.46E-02	8.45E-02
1935	495561.06	3859301.99	0.0094	0.00503	0.00532	0.00986	0.007	0.052	0.005	0.00503	6.55E-02	9.29E-03	5.54E-07	3.47E-04	2.17E-03	4.93E-03	3.54E-02	3.42E-02	8.35E-02
1936	495611.06	3859301.99	0.00932	0.00499	0.00526	0.00976	0.007	0.051	0.005	0.00499	6.50E-02	9.22E-03	5.48E-07	3.44E-04	2.16E-03	4.79E-03	3.51E-02	3.39E-02	8.27E-02
1937	495661.06	3859301.99	0.00925	0.00495	0.00521	0.00967	0.007	0.049	0.0049	0.00495	6.45E-02	9.14E-03	5.42E-07	3.40E-04	2.15E-03	4.63E-03	3.49E-02	3.37E-02	8.20E-02
1938	494311.06	3859351.99	0.01165	0.0068	0.00778	0.01405	0.008	0.029	0.0067	0.0068	8.12E-02	1.26E-02	8.10E-07	4.95E-04	2.51E-03	2.74E-03	4.71E-02	4.62E-02	1.00E-01
1939	494361.06	3859351.99	0.01156	0.00671	0.00764	0.01381	0.008	0.031	0.0066	0.00671	8.06E-02	1.24E-02	7.95E-07	4.86E-04	2.49E-03	2.91E-03	4.66E-02	4.56E-02	9.98E-02
1940	494411.06	3859351.99	0.01147	0.00659	0.00746	0.01351	0.008	0.033	0.0065	0.00659	8.00E-02	1.22E-02	7.77E-07	4.75E-04	2.47E-03	3.06E-03	4.58E-02	4.48E-02	9.91E-02
1941	494461.06	3859351.99	0.01135	0.00649	0.00731	0.01326	0.008	0.034	0.0064	0.00649	7.91E-02	1.20E-02	7.61E-07	4.67E-04	2.45E-03	3.18E-03	4.51E-02	4.41E-02	9.82E-02
1942	494511.06	3859351.99	0.01125	0.0064	0.00718	0.01303	0.008	0.036	0.0063	0.0064	7.84E-02	1.18E-02	7.47E-07	4.59E-04	2.43E-03	3.36E-03	4.45E-02	4.35E-02	9.75E-02
1943	494561.06	3859351.99	0.01115	0.00633	0.00706	0.01285	0.008	0.039	0.0062	0.00633	7.77E-02	1.17E-02	7.35E-07	4.52E-04	2.42E-03	3.63E-03	4.41E-02	4.30E-02	9.70E-02
1944	494611.06	3859351.99	0.01105	0.00625	0.00694	0.01265	0.008	0.043	0.0061	0.00625	7.70E-02	1.15E-02	7.22E-07	4.45E-04	2.41E-03	4.00E-03	4.35E-02	4.25E-02	9.64E-02
1945	494661.06	3859351.99	0.01094	0.00617	0.00682	0.01244	0.008	0.049	0.0061	0.00617	7.63E-02	1.14E-02	7.10E-07	4.38E-04	2.39E-03	4.58E-03	4.30E-02	4.20E-02	9.61E-02
1946	494711.06	3859351.99	0.01084	0.00607	0.00665	0.01219	0.008	0.059	0.006	0.00607	7.56E-02	1.12E-02	6.92E-07	4.29E-04	2.36E-03	5.54E-03	4.23E-02	4.13E-02	9.61E-02
1947	494761.06	3859351.99	0.01073	0.00593	0.00648	0.01188	0.007	0.079	0.0059	0.00593	7.48E-02	1.10E-02	6.75E-07	4.18E-04	2.33E-03	7.47E-03	4.14E-02	4.03E-02	9.71E-02
1948	494811.06	3859351.99	0.0106	0.00581	0.00629	0.01154	0.007	0.138	0.0057	0.00581	7.39E-02	1.07E-02	6.55E-07	4.06E-04	2.27E-03	1.29E-02	4.06E-02	3.95E-02	1.01E-01
1949	494861.06	3859351.99	0.0105	0.00574	0.00619	0.01138	0.007	0.245	0.0057	0.00574	7.32E-02	1.06E-02	6.44E-07	4.01E-04	2.26E-03	2.31E-02	4.02E-02	3.90E-02	1.11E-01
1950	494911.06	3859351.99	0.01041	0.00569	0.00612	0.01126	0.007	0.19	0.0056	0.00569	7.26E-02	1.05E-02	6.37E-07	3.96E-04	2.25E-03	1.79E-02	3.98E-02	3.87E-02	1.05E-01
1951	494961.06	3859351.99	0.01031	0.00562	0.00601	0.01108	0.007	0.128	0.0056	0.00562	7.19E-02	1.04E-02	6.26E-07	3.90E-04	2.22E-03	1.20E-02	3.94E-02	3.82E-02	9.81E-02
1952	495011.06	3859351.99	0.01022	0.00556	0.00593	0.01094	0.007	0.099	0.0055	0.00556	7.13E-02	1.03E-02	6.17E-07	3.85E-04	2.21E-03	9.32E-03	3.90E-02	3.78E-02	9.46E-02
1953	495061.06	3859351.99	0.01015	0.00556	0.00592	0.01095	0.007	0.084	0.0055	0.00556	7.08E-02	1.03E-02	6.16E-07	3.85E-04	2.23E-03	7.93E-03	3.90E-02	3.78E-02	9.27E-02
1954	495111.06	3859351.99	0.01006	0.0055	0.00583	0.0108	0.007	0.074	0.0055	0.0055	7.01E-02	1.02E-02	6.07E-07	3.80E-04	2.22E-03	6.95E-03	3.86E-02	3.74E-02	9.11E-02
1955	495161.06	3859351.99	0.00998	0.00546	0.00577	0.01071	0.007	0.067	0.0054	0.00546	6.96E-02	1.01E-02	6.01E-07	3.77E-04	2.21E-03	6.30E-03	3.83E-02	3.71E-02	8.98E-02
1956	495211.06	3859351.99	0.0099	0.00542	0.00571	0.01062	0.007	0.062	0.0054	0.00542	6.90E-02	1.00E-02	5.94E-07	3.74E-04	2.21E-03	5.81E-03	3.80E-02	3.69E-02	8.86E-02
1957	495261.06	3859351.99	0.00983	0.0054	0.00567	0.01056	0.007	0.058	0.0054	0.0054	6.85E-02	9.97E-03	5.90E-07	3.72E-04	2.21E-03	5.45E-03	3.79E-02	3.67E-02	8.77E-02
1958	495311.06	3859351.99	0.00974	0.00535	0.0056	0.01043	0.007	0.055	0.0053	0.00535	6.79E-02	9.88E-03	5.83E-07	3.67E-04	2.20E-03	5.15E-03	3.76E-02	3.64E-02	8.67E-02
1959	495361.06	3859351.99	0.00967	0.00531	0.00554	0.01035	0.007	0.052	0.0053	0.00531	6.74E-02	9.81E-03	5.77E-07	3.64E-04	2.19E-03	4.90E-03	3.73E-02	3.61E-02	8.59E-02
1960	495411.06	3859351.99	0.0096	0.00529	0.0055	0.01029	0.007	0.05	0.0052	0.00529	6.69E-02	9.77E-03	5.73E-07	3.62E-04	2.19E-03	4.70E-03	3.71E-02	3.60E-02	8.51E-02
1961	495461.06	3859351.99	0.00953	0.00527	0.00547	0.01025	0.007	0.048	0.0052	0.00527	6.64E-02	9.73E-03	5.69E-07	3.61E-04	2.20E-03	4.53E-03	3.71E-02	3.58E-02	8.45E-02
1962	495511.06	3859351.99	0.00944	0.00521	0.00539	0.01009	0.007	0.046	0.0052	0.00521	6.58E-02	9.62E-03	5.61E-07	3.55E-04	2.18E-03	4.35E-03	3.66E-02	3.54E-02	8.35E-02
1963	495561.06	3859351.99	0.00936	0.00516	0.00532	0.00997	0.007	0.045	0.0051	0.00516	6.53E-02	9.53E-03	5.54E-07	3.51E-04	2.16E-03	4.21E-03	3.63E-02	3.51E-02	8.27E-02
1964	495611.06	3859351.99	0.00929	0.00512	0.00526	0.00988	0.007	0.043	0.0051	0.00512	6.48E-02	9.46E-03	5.48E-07	3.48E-04	2.16E-03	4.08E-03	3.60E-02	3.48E-02	8.20E-02
1965	495661.06	3859351.99	0.0092	0.00506	0.00518	0.00973	0.007	0.042	0.005	0.00506	6.41E-02	9.35E-03	5.39E-07	3.42E-04	2.13E-03	3.93E-03	3.56E-02	3.44E-02	8.11E-02
1966	494311.06	3859401.99	0.01151	0.00698	0.00773	0.0142	0.008	0.033	0.0068	0.00698	8.02E-02	1.29E-02	8.05E-07	5.00E-04	2.45E-03	3.12E-03	4.83E-02	4.75E-02	1.00E-01
1967	494361.06	3859401.99	0.01142	0.00686	0.00756	0.0139	0.008	0.036	0.0067	0.00686	7.96E-02	1.27E-02	7.87E-07	4.89E-04	2.43E-03	3.37E-03	4.75E-02	4.66E-02	9.95E-02
1968	494411.06	3859401.99	0.01134	0.00674	0.00738	0.01358	0.008	0.039	0.0066	0.00674	7.91E-02	1.24E-02	7.68E-07	4.78E-04	2.41E-03	3.62E-03	4.67E-02	4.58E-02	9.89E-02

1969	494461.06	3859401.99	0.01125	0.00664	0.00724	0.01334	0.008	0.04	0.0065	0.00664	7.84E-02	1.23E-02	7.54E-07	4.70E-04	2.39E-03	3.81E-03	4.61E-02	4.52E-02	9.83E-02
1970	494511.06	3859401.99	0.01115	0.00657	0.00714	0.01317	0.008	0.043	0.0064	0.00657	7.77E-02	1.21E-02	7.43E-07	4.64E-04	2.39E-03	4.04E-03	4.56E-02	4.47E-02	9.77E-02
1971	494561.06	3859401.99	0.01105	0.00649	0.00702	0.01297	0.008	0.046	0.0064	0.00649	7.70E-02	1.20E-02	7.31E-07	4.56E-04	2.38E-03	4.36E-03	4.51E-02	4.41E-02	9.72E-02
1972	494611.06	3859401.99	0.01095	0.0064	0.00689	0.01274	0.008	0.051	0.0063	0.0064	7.63E-02	1.18E-02	7.17E-07	4.48E-04	2.36E-03	4.80E-03	4.45E-02	4.35E-02	9.67E-02
1973	494661.06	3859401.99	0.01085	0.00633	0.00679	0.01257	0.007	0.058	0.0062	0.00633	7.56E-02	1.17E-02	7.07E-07	4.42E-04	2.35E-03	5.44E-03	4.41E-02	4.30E-02	9.66E-02
1974	494711.06	3859401.99	0.01075	0.00625	0.00667	0.01237	0.007	0.068	0.0061	0.00625	7.49E-02	1.15E-02	6.94E-07	4.35E-04	2.33E-03	6.41E-03	4.35E-02	4.25E-02	9.67E-02
1975	494761.06	3859401.99	0.01064	0.00609	0.00647	0.01202	0.007	0.088	0.006	0.00609	7.42E-02	1.12E-02	6.74E-07	4.23E-04	2.30E-03	8.26E-03	4.25E-02	4.14E-02	9.75E-02
1976	494811.06	3859401.99	0.01054	0.00601	0.00633	0.01179	0.007	0.141	0.0059	0.00601	7.35E-02	1.11E-02	6.59E-07	4.15E-04	2.27E-03	1.33E-02	4.19E-02	4.09E-02	1.02E-01
1977	494861.06	3859401.99	0.01043	0.0059	0.00618	0.0115	0.007	0.25	0.0058	0.0059	7.27E-02	1.09E-02	6.43E-07	4.05E-04	2.24E-03	2.35E-02	4.12E-02	4.01E-02	1.11E-01
1978	494911.06	3859401.99	0.01034	0.00581	0.00606	0.01129	0.007	0.196	0.0057	0.00581	7.21E-02	1.07E-02	6.31E-07	3.97E-04	2.22E-03	1.84E-02	4.06E-02	3.95E-02	1.05E-01
1979	494961.06	3859401.99	0.01024	0.00577	0.006	0.01119	0.007	0.133	0.0057	0.00577	7.14E-02	1.07E-02	6.25E-07	3.94E-04	2.21E-03	1.25E-02	4.03E-02	3.92E-02	9.82E-02
1980	495011.06	3859401.99	0.01016	0.00572	0.00593	0.0111	0.007	0.104	0.0057	0.00572	7.08E-02	1.06E-02	6.17E-07	3.91E-04	2.20E-03	9.75E-03	4.00E-02	3.89E-02	9.49E-02
1981	495061.06	3859401.99	0.01009	0.00567	0.00587	0.011	0.007	0.087	0.0056	0.00567	7.03E-02	1.05E-02	6.11E-07	3.87E-04	2.21E-03	8.17E-03	3.97E-02	3.86E-02	9.28E-02
1982	495111.06	3859401.99	0.00999	0.00561	0.00579	0.01084	0.007	0.075	0.0056	0.00561	6.96E-02	1.04E-02	6.03E-07	3.82E-04	2.19E-03	7.07E-03	3.93E-02	3.81E-02	9.08E-02
1983	495161.06	3859401.99	0.00991	0.00559	0.00574	0.01079	0.007	0.067	0.0055	0.00559	6.91E-02	1.03E-02	5.98E-07	3.80E-04	2.19E-03	6.32E-03	3.92E-02	3.80E-02	8.95E-02
1984	495211.06	3859401.99	0.00984	0.00557	0.0057	0.01073	0.007	0.061	0.0055	0.00557	6.86E-02	1.03E-02	5.93E-07	3.78E-04	2.19E-03	5.77E-03	3.90E-02	3.79E-02	8.84E-02
1985	495261.06	3859401.99	0.00976	0.00553	0.00565	0.01064	0.007	0.057	0.0055	0.00553	6.80E-02	1.02E-02	5.88E-07	3.74E-04	2.19E-03	5.33E-03	3.88E-02	3.76E-02	8.73E-02
1986	495311.06	3859401.99	0.00968	0.00548	0.00559	0.01054	0.007	0.053	0.0054	0.00548	6.75E-02	1.01E-02	5.82E-07	3.71E-04	2.18E-03	4.96E-03	3.85E-02	3.73E-02	8.63E-02
1987	495361.06	3859401.99	0.00961	0.00546	0.00555	0.0105	0.007	0.05	0.0054	0.00546	6.70E-02	1.01E-02	5.78E-07	3.70E-04	2.19E-03	4.69E-03	3.83E-02	3.71E-02	8.55E-02
1988	495411.06	3859401.99	0.00954	0.00543	0.00551	0.01042	0.007	0.047	0.0054	0.00543	6.65E-02	1.00E-02	5.74E-07	3.67E-04	2.18E-03	4.44E-03	3.81E-02	3.69E-02	8.47E-02
1989	495461.06	3859401.99	0.00946	0.00538	0.00544	0.01031	0.007	0.045	0.0053	0.00538	6.60E-02	9.94E-03	5.66E-07	3.63E-04	2.17E-03	4.22E-03	3.78E-02	3.66E-02	8.39E-02
1990	495511.06	3859401.99	0.00938	0.00532	0.00536	0.01016	0.007	0.043	0.0053	0.00532	6.54E-02	9.83E-03	5.58E-07	3.58E-04	2.16E-03	4.02E-03	3.74E-02	3.62E-02	8.30E-02
1991	495561.06	3859401.99	0.00929	0.00525	0.00527	0.00999	0.007	0.041	0.0052	0.00525	6.48E-02	9.70E-03	5.49E-07	3.52E-04	2.13E-03	3.85E-03	3.69E-02	3.57E-02	8.20E-02
1992	495611.06	3859401.99	0.00921	0.00521	0.00521	0.00989	0.007	0.039	0.0052	0.00521	6.42E-02	9.62E-03	5.42E-07	3.48E-04	2.12E-03	3.70E-03	3.66E-02	3.54E-02	8.12E-02
1993	495661.06	3859401.99	0.00914	0.00517	0.00516	0.0098	0.007	0.038	0.0051	0.00517	6.37E-02	9.55E-03	5.37E-07	3.45E-04	2.11E-03	3.55E-03	3.64E-02	3.52E-02	8.05E-02
1994	494311.06	3859451.99	0.01136	0.00713	0.00762	0.01424	0.008	0.039	0.007	0.00713	7.92E-02	1.32E-02	7.93E-07	5.01E-04	2.38E-03	3.64E-03	4.93E-02	4.85E-02	9.97E-02
1995	494361.06	3859451.99	0.01128	0.00701	0.00746	0.01395	0.008	0.044	0.0069	0.00701	7.86E-02	1.29E-02	7.77E-07	4.91E-04	2.37E-03	4.14E-03	4.85E-02	4.77E-02	9.95E-02
1996	494411.06	3859451.99	0.01121	0.00686	0.00726	0.01357	0.007	0.05	0.0067	0.00686	7.82E-02	1.27E-02	7.56E-07	4.78E-04	2.34E-03	4.67E-03	4.75E-02	4.66E-02	9.92E-02
1997	494461.06	3859451.99	0.01111	0.00679	0.00717	0.01341	0.007	0.055	0.0067	0.00679	7.75E-02	1.25E-02	7.46E-07	4.72E-04	2.34E-03	5.14E-03	4.71E-02	4.62E-02	9.89E-02
1998	494511.06	3859451.99	0.01102	0.0067	0.00704	0.01318	0.007	0.059	0.0066	0.0067	7.68E-02	1.24E-02	7.33E-07	4.64E-04	2.32E-03	5.58E-03	4.65E-02	4.56E-02	9.85E-02
1999	494561.06	3859451.99	0.01093	0.00662	0.00693	0.01298	0.007	0.066	0.0065	0.00662	7.62E-02	1.22E-02	7.21E-07	4.57E-04	2.32E-03	6.20E-03	4.59E-02	4.50E-02	9.83E-02
2000	494611.06	3859451.99	0.01084	0.00657	0.00685	0.01285	0.007	0.074	0.0064	0.00657	7.56E-02	1.21E-02	7.13E-07	4.52E-04	2.31E-03	6.99E-03	4.56E-02	4.47E-02	9.83E-02
2001	494661.06	3859451.99	0.01075	0.00647	0.00672	0.01262	0.007	0.082	0.0064	0.00647	7.49E-02	1.19E-02	7.00E-07	4.44E-04	2.30E-03	7.74E-03	4.50E-02	4.40E-02	9.84E-02
2002	494711.06	3859451.99	0.01065	0.00638	0.00659	0.01238	0.007	0.093	0.0063	0.00638	7.42E-02	1.18E-02	6.86E-07	4.36E-04	2.28E-03	8.73E-03	4.44E-02	4.34E-02	9.84E-02
2003	494761.06	3859451.99	0.01055	0.0063	0.00648	0.01219	0.007	0.112	0.0062	0.0063	7.36E-02	1.16E-02	6.75E-07	4.29E-04	2.27E-03	1.05E-02	4.38E-02	4.28E-02	9.94E-02
2004	494811.06	3859451.99	0.01045	0.00618	0.00634	0.01191	0.007	0.163	0.0061	0.00618	7.29E-02	1.14E-02	6.60E-07	4.19E-04	2.24E-03	1.53E-02	4.30E-02	4.20E-02	1.03E-01
2005	494861.06	3859451.99	0.01035	0.00609	0.00619	0.01168	0.007	0.203	0.006	0.00609	7.22E-02	1.12E-02	6.44E-07	4.11E-04	2.22E-03	1.91E-02	4.24E-02	4.14E-02	1.06E-01
2006	494911.06	3859451.99	0.01026	0.00601	0.00609	0.01151	0.007	0.213	0.0059	0.00601	7.15E-02	1.11E-02	6.34E-07	4.05E-04	2.21E-03	2.00E-02	4.19E-02	4.09E-02	1.06E-01
2007	494961.06	3859451.99	0.01017	0.00595	0.00602	0.01139	0.007	0.147	0.0059	0.00595	7.09E-02	1.10E-02	6.27E-07	4.01E-04	2.20E-03	1.39E-02	4.15E-02	4.05E-02	9.94E-02
2008	495011.06	3859451.99	0.01008	0.0059	0.00594	0.01125	0.007	0.114	0.0058	0.0059	7.03E-02	1.09E-02	6.18E-07	3.96E-04	2.19E-03	1.07E-02	4.12E-02	4.01E-02	9.55E-02
2009	495061.06	3859451.99	0.01	0.00584	0.00586	0.01111	0.007	0.093	0.0058	0.00584	6.97E-02	1.08E-02	6.10E-07	3.91E-04	2.18E-03	8.74E-03	4.08E-02	3.97E-02	9.29E-02
2010	495111.06	3859451.99	0.00991	0.00578	0.00579	0.01098	0.007	0.079	0.0057	0.00578	6.91E-02	1.07E-02	6.03E-07	3.86E-04	2.17E-03	7.43E-03	4.04E-02	3.93E-02	9.08E-02
2011	495161.06	3859451.99	0.00984	0.00574	0.00573	0.0109	0.007	0.069	0.0057	0.00574	6.86E-02	1.06E-02	5.97E-07	3.84E-04	2.17E-03	6.53E-03	4.02E-02	3.90E-02	8.94E-02
2012	495211.06	3859451.99	0.00976	0.00571	0.00569	0.01084	0.007	0.062	0.0056	0.00571	6.80E-02	1.05E-02	5.92E-07	3.82E-04	2.17E-03	5.86E-03	4.00E-02	3.88E-02	8.81E-02
2013	495261.06	3859451.99	0.00969	0.00568	0.00565	0.01077	0.007	0.057	0.0056	0.00568	6.76E-02	1.05E-02	5.88E-07	3.79E-04	2.17E-03	5.34E-03	3.97E-02	3.86E-02	8.71E-02
2014	495311.06	3859451.99	0.00961	0.00564	0.00559	0.01066	0.007	0.052	0.0056	0.00564	6.70E-02	1.04E-02	5.82E-07	3.75E-04	2.17E-03	4.91E-03	3.95E-02	3.84E-02	8.60E-02
2015	495361.06	3859451.99	0.00953	0.0056	0.00553	0.01057	0.007	0.048	0.0055	0.0056	6.64E-02	1.03E-02	5.76E-07	3.72E-04	2.16E-03	4.56E-03	3.92E-02	3.81E-02	8.50E-02
2016	495411.06	3859451.99	0.00945	0.00555	0.00547	0.01046	0.007	0.045	0.0055	0.00555	6.59E-02	1.03E-02	5.69E-07	3.68E-04	2.16E-03	4.26E-03	3.89E-02	3.77E-02	8.41E-02
2017	495461.06	3859451.99	0.00938	0.00551	0.00542	0.01037	0.007	0.043	0.0055	0.00551	6.54E-02	1.02E-02	5.64E-07	3.65E-04	2.15E-03	4.03E-03	3.86E-02	3.75E-02	8.33E-02
2018	495511.06	3859451.99	0.0093	0.00544	0.00533	0.0102	0.007	0.041	0.0054	0.00544	6.48E-02	1.00E-02	5.55E-07	3.59E-04	2.13E-03	3.81E-03	3.82E-02	3.70E-02	8.24E-02
2019	495561.06	3859451.99	0.00922	0.00539	0.00526	0.01009	0.007	0.039	0.0053	0.00539	6.43E-02	9.95E-03	5.48E-07	3.55E-04	2.12E-03	3.63E-03	3.78E-02	3.67E-02	8.15E-02
2020	495611.06	3859451.99	0.00915	0.00534	0.0052	0.00997	0.007	0.037	0.0053	0.00534	6.38E-02	9.86E-03	5.41E-07	3.51E-04	2.11E-03	3.46E-03	3.75E-02	3.63E-02	8.07E-02
2021	495661.06	3859451.99	0.00907	0.0053	0.00514	0.00987	0.007	0.035	0.0053	0.0053	6.32E-02	9.79E-03	5.35E-07	3.47E-04	2.10E-03	3.32E-03	3.72E-02	3.60E-02	7.99E-02
2022	494311.06	3859501.99	0.01121	0.00729	0.00752	0.01431	0.007	0.046	0.0071	0.00729	7.82E-02	1.35E-02	7.83E-07	5.04E-04	2.31E-03	4.32E-03	5.04E-02	4.96E-02	9.96E-02
2023	494361.06	3859501.99	0.01113	0.00717	0.00736	0.01401	0.007	0.058	0.007	0.00717	7.76E-02	1.32E-02	7.66E-07	4.93E-04	2.30E-03	5.47E-03	4.96E-02	4.88E-02	9.99E-02
2024	494411.06	3859501.99	0.01106	0.00698	0.00713	0.01355	0.007	0.075	0.0068	0.00698	7.71E-02	1.29E-02	7.42E-07	4.77E-04	2.27E-03	7.09E-03	4.83E-02	4.75E-02	1.01E-01
2025	494461.06	3859501.99	0.01096	0.00696	0.00709	0.01349	0.007	0.096	0.0068	0.00696	7.64E-02	1.29E-02	7.38E-07	4.75E-04	2.28E-03	9.02E-03	4.82E-02	4.73E-02	1.02E-01
2026	494511.06	3859501.99	0.01088	0.00685	0.00695	0.01322	0.007	0.115	0.0067	0.00685	7.59E-02	1.27E-02	7.24E-07	4.65E-04	2.27E-03	1.08E-02	4.75E-02	4.66E-02	1.03E-01

2027	494561.06	3859501.99	0.01079	0.00676	0.00684	0.013	0.007	0.137	0.0066	0.00676	7.52E-02	1.25E-02	7.12E-07	4.58E-04	2.26E-03	1.29E-02	4.68E-02	4.60E-02	1.04E-01
2028	494611.06	3859501.99	0.01069	0.00674	0.0068	0.01295	0.007	0.159	0.0066	0.00674	7.45E-02	1.24E-02	7.08E-07	4.56E-04	2.26E-03	1.49E-02	4.68E-02	4.58E-02	1.06E-01
2029	494661.06	3859501.99	0.01061	0.00663	0.00666	0.01269	0.007	0.171	0.0065	0.00663	7.40E-02	1.22E-02	6.93E-07	4.47E-04	2.25E-03	1.60E-02	4.60E-02	4.51E-02	1.06E-01
2030	494711.06	3859501.99	0.01054	0.0065	0.0065	0.01238	0.007	0.179	0.0064	0.0065	7.35E-02	1.20E-02	6.77E-07	4.36E-04	2.22E-03	1.68E-02	4.51E-02	4.42E-02	1.06E-01
2031	494761.06	3859501.99	0.01045	0.00646	0.00645	0.01229	0.007	0.197	0.0063	0.00646	7.29E-02	1.19E-02	6.71E-07	4.33E-04	2.22E-03	1.85E-02	4.49E-02	4.39E-02	1.07E-01
2032	494811.06	3859501.99	0.01034	0.00631	0.00626	0.01193	0.007	0.231	0.0062	0.00631	7.21E-02	1.17E-02	6.52E-07	4.20E-04	2.19E-03	2.17E-02	4.39E-02	4.29E-02	1.09E-01
2033	494861.06	3859501.99	0.01025	0.00624	0.00617	0.01176	0.007	0.26	0.0061	0.00624	7.15E-02	1.15E-02	6.42E-07	4.14E-04	2.18E-03	2.44E-02	4.34E-02	4.24E-02	1.11E-01
2034	494911.06	3859501.99	0.01016	0.00619	0.0061	0.01165	0.007	0.254	0.0061	0.00619	7.08E-02	1.14E-02	6.35E-07	4.10E-04	2.18E-03	2.39E-02	4.31E-02	4.21E-02	1.10E-01
2035	494961.06	3859501.99	0.01007	0.0061	0.006	0.01145	0.007	0.169	0.006	0.0061	7.02E-02	1.13E-02	6.25E-07	4.03E-04	2.17E-03	1.59E-02	4.25E-02	4.15E-02	1.01E-01
2036	495011.06	3859501.99	0.00999	0.00606	0.00594	0.01134	0.007	0.124	0.006	0.00606	6.96E-02	1.12E-02	6.18E-07	3.99E-04	2.16E-03	1.17E-02	4.22E-02	4.12E-02	9.61E-02
2037	495061.06	3859501.99	0.00991	0.00601	0.00588	0.01124	0.007	0.098	0.0059	0.00601	6.91E-02	1.11E-02	6.12E-07	3.96E-04	2.16E-03	9.21E-03	4.19E-02	4.09E-02	9.30E-02
2038	495111.06	3859501.99	0.00982	0.00593	0.00576	0.01106	0.007	0.08	0.0058	0.00593	6.85E-02	1.10E-02	6.00E-07	3.89E-04	2.14E-03	7.56E-03	4.14E-02	4.03E-02	9.06E-02
2039	495161.06	3859501.99	0.00974	0.00589	0.00571	0.01097	0.007	0.069	0.0058	0.00589	6.79E-02	1.09E-02	5.94E-07	3.86E-04	2.14E-03	6.50E-03	4.11E-02	4.01E-02	8.89E-02
2040	495211.06	3859501.99	0.00966	0.00586	0.00567	0.01091	0.007	0.061	0.0058	0.00586	6.73E-02	1.08E-02	5.90E-07	3.84E-04	2.14E-03	5.75E-03	4.10E-02	3.98E-02	8.76E-02
2041	495261.06	3859501.99	0.00959	0.00582	0.00562	0.01082	0.007	0.055	0.0057	0.00582	6.69E-02	1.07E-02	5.85E-07	3.81E-04	2.14E-03	5.17E-03	4.07E-02	3.96E-02	8.64E-02
2042	495311.06	3859501.99	0.00951	0.00578	0.00557	0.01074	0.007	0.05	0.0057	0.00578	6.63E-02	1.07E-02	5.80E-07	3.78E-04	2.14E-03	4.72E-03	4.05E-02	3.93E-02	8.54E-02
2043	495361.06	3859501.99	0.00944	0.00574	0.00551	0.01064	0.007	0.046	0.0057	0.00574	6.58E-02	1.06E-02	5.74E-07	3.74E-04	2.13E-03	4.36E-03	4.01E-02	3.90E-02	8.44E-02
2044	495411.06	3859501.99	0.00936	0.00569	0.00546	0.01054	0.007	0.043	0.0056	0.00569	6.53E-02	1.05E-02	5.68E-07	3.71E-04	2.13E-03	4.07E-03	3.98E-02	3.87E-02	8.35E-02
2045	495461.06	3859501.99	0.00929	0.00565	0.0054	0.01043	0.007	0.041	0.0056	0.00565	6.48E-02	1.04E-02	5.62E-07	3.67E-04	2.12E-03	3.83E-03	3.95E-02	3.84E-02	8.26E-02
2046	495511.06	3859501.99	0.00921	0.00554	0.00528	0.01021	0.007	0.038	0.0055	0.00554	6.42E-02	1.02E-02	5.50E-07	3.59E-04	2.10E-03	3.60E-03	3.88E-02	3.77E-02	8.17E-02
2047	495561.06	3859501.99	0.00914	0.00553	0.00525	0.01016	0.007	0.037	0.0055	0.00553	6.37E-02	1.02E-02	5.47E-07	3.58E-04	2.10E-03	3.44E-03	3.88E-02	3.76E-02	8.10E-02
2048	495611.06	3859501.99	0.00906	0.00547	0.00519	0.01004	0.007	0.035	0.0054	0.00547	6.32E-02	1.01E-02	5.40E-07	3.53E-04	2.09E-03	3.28E-03	3.84E-02	3.72E-02	8.02E-02
2049	495661.06	3859501.99	0.00899	0.00542	0.00512	0.00991	0.007	0.033	0.0054	0.00542	6.27E-02	1.00E-02	5.33E-07	3.49E-04	2.07E-03	3.13E-03	3.80E-02	3.69E-02	7.94E-02
2050	494311.06	3859551.99	0.01104	0.00745	0.0074	0.01433	0.007	0.052	0.0073	0.00745	7.70E-02	1.38E-02	7.70E-07	5.04E-04	2.25E-03	4.89E-03	5.15E-02	5.07E-02	9.92E-02
2051	494361.06	3859551.99	0.01097	0.00728	0.00722	0.01397	0.007	0.073	0.0071	0.00728	7.65E-02	1.34E-02	7.52E-07	4.92E-04	2.23E-03	6.90E-03	5.03E-02	4.95E-02	1.00E-01
2052	494411.06	3859551.99	0.01091	0.0071	0.007	0.0135	0.007	0.131	0.0069	0.0071	7.61E-02	1.31E-02	7.29E-07	4.75E-04	2.21E-03	1.23E-02	4.91E-02	4.83E-02	1.05E-01
2053	494461.06	3859551.99	0.0108	0.00711	0.00699	0.0135	0.007	0.258	0.007	0.00711	7.53E-02	1.31E-02	7.28E-07	4.75E-04	2.22E-03	2.43E-02	4.92E-02	4.83E-02	1.16E-01
2054	494511.06	3859551.99	0.01072	0.007	0.00686	0.01324	0.007	0.573	0.0069	0.007	7.47E-02	1.29E-02	7.14E-07	4.66E-04	2.21E-03	5.38E-02	4.85E-02	4.76E-02	1.45E-01
2055	494561.06	3859551.99	0.01063	0.00692	0.00676	0.01304	0.007	0.565	0.0068	0.00692	7.41E-02	1.28E-02	7.04E-07	4.59E-04	2.20E-03	5.31E-02	4.79E-02	4.71E-02	1.44E-01
2056	494611.06	3859551.99	0.01054	0.00686	0.00669	0.0129	0.007	0.574	0.0067	0.00686	7.35E-02	1.27E-02	6.96E-07	4.54E-04	2.20E-03	5.40E-02	4.75E-02	4.66E-02	1.44E-01
2057	494661.06	3859551.99	0.01046	0.00679	0.0066	0.01273	0.007	0.567	0.0066	0.00679	7.29E-02	1.25E-02	6.87E-07	4.48E-04	2.20E-03	5.33E-02	4.70E-02	4.62E-02	1.42E-01
2058	494711.06	3859551.99	0.0104	0.0066	0.00638	0.0123	0.007	0.562	0.0065	0.0066	7.25E-02	1.22E-02	6.64E-07	4.33E-04	2.17E-03	5.28E-02	4.58E-02	4.49E-02	1.41E-01
2059	494761.06	3859551.99	0.0103	0.00661	0.00638	0.01232	0.007	0.597	0.0065	0.00661	7.18E-02	1.22E-02	6.64E-07	4.34E-04	2.17E-03	5.62E-02	4.59E-02	4.49E-02	1.44E-01
2060	494811.06	3859551.99	0.01023	0.00648	0.00623	0.01201	0.007	0.593	0.0064	0.00648	7.13E-02	1.20E-02	6.49E-07	4.23E-04	2.15E-03	5.57E-02	4.50E-02	4.41E-02	1.43E-01
2061	494861.06	3859551.99	0.01014	0.00641	0.00614	0.01185	0.007	0.496	0.0063	0.00641	7.07E-02	1.18E-02	6.39E-07	4.17E-04	2.15E-03	4.66E-02	4.45E-02	4.36E-02	1.33E-01
2062	494911.06	3859551.99	0.01005	0.00633	0.00604	0.01166	0.007	0.256	0.0062	0.00633	7.01E-02	1.17E-02	6.29E-07	4.10E-04	2.13E-03	2.40E-02	4.40E-02	4.30E-02	1.09E-01
2063	494961.06	3859551.99	0.00996	0.00628	0.00598	0.01155	0.007	0.155	0.0062	0.00628	6.94E-02	1.16E-02	6.23E-07	4.07E-04	2.13E-03	1.45E-02	4.37E-02	4.27E-02	9.91E-02
2064	495011.06	3859551.99	0.00988	0.00624	0.00593	0.01146	0.007	0.112	0.0061	0.00624	6.89E-02	1.15E-02	6.17E-07	4.03E-04	2.13E-03	1.05E-02	4.34E-02	4.24E-02	9.44E-02
2065	495061.06	3859551.99	0.0098	0.00618	0.00586	0.01132	0.007	0.088	0.0061	0.00618	6.83E-02	1.14E-02	6.10E-07	3.98E-04	2.12E-03	8.27E-03	4.30E-02	4.20E-02	9.15E-02
2066	495111.06	3859551.99	0.00971	0.0061	0.00577	0.01116	0.007	0.073	0.006	0.0061	6.77E-02	1.13E-02	6.01E-07	3.93E-04	2.11E-03	6.88E-03	4.25E-02	4.15E-02	8.94E-02
2067	495161.06	3859551.99	0.00964	0.00606	0.00572	0.01107	0.007	0.064	0.006	0.00606	6.72E-02	1.12E-02	5.95E-07	3.90E-04	2.11E-03	5.97E-03	4.22E-02	4.12E-02	8.79E-02
2068	495211.06	3859551.99	0.00956	0.00603	0.00568	0.01101	0.007	0.057	0.0059	0.00603	6.66E-02	1.11E-02	5.91E-07	3.88E-04	2.11E-03	5.32E-03	4.21E-02	4.10E-02	8.67E-02
2069	495261.06	3859551.99	0.00948	0.00597	0.00561	0.01088	0.007	0.051	0.0059	0.00597	6.61E-02	1.10E-02	5.84E-07	3.83E-04	2.11E-03	4.81E-03	4.17E-02	4.06E-02	8.55E-02
2070	495311.06	3859551.99	0.00941	0.00592	0.00555	0.01077	0.007	0.047	0.0058	0.00592	6.56E-02	1.09E-02	5.78E-07	3.79E-04	2.10E-03	4.41E-03	4.13E-02	4.03E-02	8.45E-02
2071	495361.06	3859551.99	0.00934	0.00588	0.0055	0.01068	0.007	0.044	0.0058	0.00588	6.51E-02	1.09E-02	5.73E-07	3.76E-04	2.10E-03	4.10E-03	4.10E-02	4.00E-02	8.36E-02
2072	495411.06	3859551.99	0.00926	0.00584	0.00546	0.0106	0.007	0.041	0.0058	0.00584	6.46E-02	1.08E-02	5.68E-07	3.73E-04	2.10E-03	3.85E-03	4.08E-02	3.97E-02	8.28E-02
2073	495461.06	3859551.99	0.00919	0.00577	0.00537	0.01044	0.007	0.039	0.0057	0.00577	6.41E-02	1.07E-02	5.59E-07	3.67E-04	2.09E-03	3.63E-03	4.03E-02	3.92E-02	8.19E-02
2074	495511.06	3859551.99	0.0091	0.0057	0.00527	0.01028	0.007	0.036	0.0056	0.0057	6.34E-02	1.05E-02	5.49E-07	3.62E-04	2.07E-03	3.43E-03	3.98E-02	3.88E-02	8.09E-02
2075	495561.06	3859551.99	0.00903	0.00565	0.00522	0.01018	0.007	0.035	0.0056	0.00565	6.30E-02	1.04E-02	5.43E-07	3.58E-04	2.06E-03	3.27E-03	3.95E-02	3.84E-02	8.02E-02
2076	495611.06	3859551.99	0.00896	0.0056	0.00516	0.01007	0.007	0.033	0.0055	0.0056	6.25E-02	1.03E-02	5.37E-07	3.54E-04	2.06E-03	3.12E-03	3.92E-02	3.81E-02	7.94E-02
2077	495661.06	3859551.99	0.00889	0.00554	0.00509	0.00994	0.007	0.032	0.0055	0.00554	6.20E-02	1.02E-02	5.30E-07	3.50E-04	2.05E-03	2.99E-03	3.88E-02	3.77E-02	7.88E-02
2078	494311.06	3859601.99	0.01087	0.00763	0.00729	0.01437	0.007	0.056	0.0075	0.00763	7.58E-02	1.41E-02	7.59E-07	5.06E-04	2.18E-03	5.24E-03	5.28E-02	5.19E-02	9.87E-02
2079	494361.06	3859601.99	0.01082	0.00739	0.00705	0.01385	0.007	0.079	0.0072	0.00739	7.54E-02	1.36E-02	7.34E-07	4.87E-04	2.16E-03	7.46E-03	5.12E-02	5.03E-02	1.00E-01
2080	494411.06	3859601.99	0.01074	0.00727	0.0069	0.01355	0.007	0.143	0.0071	0.00727	7.49E-02	1.34E-02	7.18E-07	4.77E-04	2.15E-03	1.34E-02	5.03E-02	4.94E-02	1.05E-01
2081	494461.06	3859601.99	0.01063	0.00727	0.00689	0.01351	0.007	0.269	0.0071	0.00727	7.41E-02	1.34E-02	7.17E-07	4.75E-04	2.16E-03	2.52E-02	5.03E-02	4.94E-02	1.16E-01
2082	494511.06	3859601.99	0.01056	0.00712	0.00673	0.01317	0.007	0.232	0.007	0.00712	7.36E-02	1.32E-02	7.01E-07	4.64E-04	2.15E-03	2.18E-02	4.93E-02	4.84E-02	1.12E-01
2083	494561.06	3859601.99	0.01046	0.00709	0.00669	0.0131	0.007	0.187	0.0069	0.00709	7.29E-02	1.31E-02	6.96E-07	4.61E-04	2.15E-03	1.76E-02	4.91E-02	4.82E-02	1.07E-01
2084	494611.06	3859601.99	0.01037	0.00704	0.00663	0.01297	0.007	0.17	0.0069	0.00704	7.23E-02	1.30E-02	6.90E-07	4.56E-04	2.15E-03	1.59E-02	4.87E-02	4.79E-02	1.05E-01

2085	494661.06	3859601.99	0.0103	0.00687	0.00646	0.01262	0.007	0.164	0.0067	0.00687	7.18E-02	1.27E-02	6.73E-07	4.44E-04	2.13E-03	1.54E-02	4.77E-02	4.67E-02	1.03E-01
2086	494711.06	3859601.99	0.01024	0.00675	0.00631	0.01233	0.007	0.159	0.0066	0.00675	7.14E-02	1.25E-02	6.57E-07	4.34E-04	2.11E-03	1.49E-02	4.68E-02	4.59E-02	1.02E-01
2087	494761.06	3859601.99	0.01013	0.0068	0.00635	0.0124	0.007	0.151	0.0067	0.0068	7.06E-02	1.26E-02	6.61E-07	4.36E-04	2.13E-03	1.42E-02	4.71E-02	4.62E-02	1.01E-01
2088	494811.06	3859601.99	0.01007	0.00665	0.00619	0.01208	0.007	0.146	0.0065	0.00665	7.02E-02	1.23E-02	6.44E-07	4.25E-04	2.11E-03	1.37E-02	4.61E-02	4.52E-02	9.96E-02
2089	494861.06	3859601.99	0.00999	0.00659	0.00612	0.01194	0.007	0.128	0.0065	0.00659	6.96E-02	1.22E-02	6.37E-07	4.20E-04	2.11E-03	1.21E-02	4.57E-02	4.48E-02	9.73E-02
2090	494911.06	3859601.99	0.00992	0.00648	0.006	0.0117	0.007	0.109	0.0064	0.00648	6.92E-02	1.20E-02	6.25E-07	4.12E-04	2.09E-03	1.02E-02	4.50E-02	4.41E-02	9.48E-02
2091	494961.06	3859601.99	0.00983	0.00647	0.00599	0.01168	0.007	0.093	0.0064	0.00647	6.85E-02	1.19E-02	6.24E-07	4.11E-04	2.10E-03	8.72E-03	4.50E-02	4.40E-02	9.27E-02
2092	495011.06	3859601.99	0.00976	0.00636	0.00586	0.01144	0.007	0.08	0.0062	0.00636	6.80E-02	1.17E-02	6.10E-07	4.03E-04	2.08E-03	7.49E-03	4.42E-02	4.32E-02	9.07E-02
2093	495061.06	3859601.99	0.00968	0.00633	0.00583	0.01138	0.007	0.069	0.0062	0.00633	6.75E-02	1.17E-02	6.07E-07	4.01E-04	2.09E-03	6.53E-03	4.41E-02	4.30E-02	8.92E-02
2094	495111.06	3859601.99	0.0096	0.00625	0.00574	0.0112	0.007	0.061	0.0061	0.00625	6.69E-02	1.15E-02	5.98E-07	3.94E-04	2.08E-03	5.77E-03	4.35E-02	4.25E-02	8.77E-02
2095	495161.06	3859601.99	0.00953	0.00622	0.0057	0.01112	0.007	0.055	0.0061	0.00622	6.64E-02	1.15E-02	5.93E-07	3.91E-04	2.08E-03	5.20E-03	4.33E-02	4.23E-02	8.66E-02
2096	495211.06	3859601.99	0.00945	0.00617	0.00564	0.01101	0.007	0.051	0.0061	0.00617	6.59E-02	1.14E-02	5.87E-07	3.88E-04	2.07E-03	4.75E-03	4.29E-02	4.20E-02	8.55E-02
2097	495261.06	3859601.99	0.00937	0.00613	0.00559	0.01092	0.007	0.047	0.006	0.00613	6.53E-02	1.13E-02	5.82E-07	3.84E-04	2.07E-03	4.38E-03	4.27E-02	4.17E-02	8.45E-02
2098	495311.06	3859601.99	0.0093	0.00609	0.00555	0.01084	0.007	0.044	0.006	0.00609	6.48E-02	1.12E-02	5.78E-07	3.82E-04	2.07E-03	4.09E-03	4.24E-02	4.14E-02	8.37E-02
2099	495361.06	3859601.99	0.00923	0.00604	0.00549	0.01072	0.007	0.041	0.0059	0.00604	6.43E-02	1.12E-02	5.72E-07	3.77E-04	2.06E-03	3.84E-03	4.21E-02	4.11E-02	8.28E-02
2100	495411.06	3859601.99	0.00916	0.006	0.00544	0.01063	0.007	0.039	0.0059	0.006	6.39E-02	1.11E-02	5.66E-07	3.74E-04	2.06E-03	3.64E-03	4.18E-02	4.08E-02	8.20E-02
2101	495461.06	3859601.99	0.00908	0.00591	0.00534	0.01045	0.007	0.037	0.0058	0.00591	6.33E-02	1.09E-02	5.56E-07	3.68E-04	2.05E-03	3.44E-03	4.12E-02	4.02E-02	8.11E-02
2102	495511.06	3859601.99	0.009	0.00583	0.00526	0.01028	0.007	0.035	0.0057	0.00583	6.27E-02	1.08E-02	5.48E-07	3.62E-04	2.04E-03	3.27E-03	4.07E-02	3.96E-02	8.02E-02
2103	495561.06	3859601.99	0.00894	0.0058	0.00523	0.01023	0.007	0.033	0.0057	0.0058	6.23E-02	1.07E-02	5.44E-07	3.60E-04	2.04E-03	3.13E-03	4.05E-02	3.94E-02	7.97E-02
2104	495611.06	3859601.99	0.00886	0.00571	0.00513	0.01004	0.006	0.032	0.0056	0.00571	6.18E-02	1.05E-02	5.34E-07	3.53E-04	2.02E-03	2.99E-03	4.00E-02	3.88E-02	7.88E-02
2105	495661.06	3859601.99	0.0088	0.00568	0.00509	0.00996	0.006	0.031	0.0056	0.00568	6.14E-02	1.05E-02	5.30E-07	3.51E-04	2.02E-03	2.88E-03	3.97E-02	3.86E-02	7.82E-02
2106	494311.06	3859651.99	0.0107	0.00776	0.0071	0.01426	0.007	0.057	0.0076	0.00776	7.46E-02	1.43E-02	7.39E-07	5.02E-04	2.11E-03	5.32E-03	5.36E-02	5.28E-02	9.77E-02
2107	494361.06	3859651.99	0.01065	0.00754	0.00689	0.01379	0.007	0.079	0.0074	0.00754	7.42E-02	1.39E-02	7.17E-07	4.85E-04	2.09E-03	7.41E-03	5.21E-02	5.13E-02	9.90E-02
2108	494411.06	3859651.99	0.01056	0.00745	0.0068	0.01357	0.007	0.138	0.0073	0.00745	7.36E-02	1.38E-02	7.08E-07	4.78E-04	2.09E-03	1.30E-02	5.15E-02	5.07E-02	1.04E-01
2109	494461.06	3859651.99	0.01045	0.00743	0.00678	0.01352	0.007	0.254	0.0073	0.00743	7.29E-02	1.37E-02	7.06E-07	4.76E-04	2.10E-03	2.38E-02	5.14E-02	5.05E-02	1.14E-01
2110	494511.06	3859651.99	0.01037	0.00734	0.00668	0.01329	0.007	0.201	0.0072	0.00734	7.23E-02	1.36E-02	6.95E-07	4.68E-04	2.10E-03	1.89E-02	5.08E-02	4.99E-02	1.08E-01
2111	494561.06	3859651.99	0.01028	0.00727	0.00661	0.01313	0.007	0.142	0.0071	0.00727	7.17E-02	1.34E-02	6.88E-07	4.62E-04	2.09E-03	1.33E-02	5.04E-02	4.94E-02	1.02E-01
2112	494611.06	3859651.99	0.0102	0.0072	0.00654	0.01297	0.007	0.115	0.007	0.0072	7.11E-02	1.33E-02	6.81E-07	4.56E-04	2.09E-03	1.08E-02	4.99E-02	4.90E-02	9.87E-02
2113	494661.06	3859651.99	0.01014	0.007	0.00635	0.01258	0.007	0.1	0.0069	0.007	7.07E-02	1.29E-02	6.61E-07	4.43E-04	2.08E-03	9.43E-03	4.85E-02	4.76E-02	9.65E-02
2114	494711.06	3859651.99	0.01005	0.00694	0.00629	0.01244	0.007	0.092	0.0068	0.00694	7.01E-02	1.28E-02	6.55E-07	4.38E-04	2.07E-03	8.66E-03	4.81E-02	4.72E-02	9.50E-02
2115	494761.06	3859651.99	0.00997	0.00692	0.00625	0.01234	0.007	0.086	0.0068	0.00692	6.95E-02	1.28E-02	6.51E-07	4.34E-04	2.07E-03	8.11E-03	4.80E-02	4.71E-02	9.38E-02
2116	494811.06	3859651.99	0.0099	0.00682	0.00614	0.01212	0.007	0.08	0.0067	0.00682	6.90E-02	1.26E-02	6.39E-07	4.27E-04	2.06E-03	7.56E-03	4.73E-02	4.64E-02	9.26E-02
2117	494861.06	3859651.99	0.00982	0.00676	0.00608	0.01199	0.007	0.074	0.0066	0.00676	6.85E-02	1.25E-02	6.33E-07	4.22E-04	2.06E-03	6.99E-03	4.69E-02	4.60E-02	9.14E-02
2118	494911.06	3859651.99	0.00974	0.00668	0.006	0.01182	0.007	0.068	0.0066	0.00668	6.79E-02	1.23E-02	6.25E-07	4.16E-04	2.06E-03	6.43E-03	4.64E-02	4.54E-02	9.01E-02
2119	494961.06	3859651.99	0.00967	0.00662	0.00593	0.01169	0.007	0.063	0.0065	0.00662	6.74E-02	1.22E-02	6.17E-07	4.11E-04	2.05E-03	5.96E-03	4.60E-02	4.50E-02	8.90E-02
2120	495011.06	3859651.99	0.00959	0.00656	0.00586	0.01154	0.007	0.059	0.0064	0.00656	6.69E-02	1.21E-02	6.10E-07	4.06E-04	2.05E-03	5.54E-03	4.56E-02	4.46E-02	8.79E-02
2121	495061.06	3859651.99	0.00951	0.00651	0.00581	0.01144	0.007	0.055	0.0064	0.00651	6.63E-02	1.20E-02	6.05E-07	4.03E-04	2.05E-03	5.17E-03	4.52E-02	4.43E-02	8.69E-02
2122	495111.06	3859651.99	0.00944	0.00644	0.00573	0.01128	0.007	0.051	0.0063	0.00644	6.58E-02	1.19E-02	5.97E-07	3.97E-04	2.04E-03	4.82E-03	4.47E-02	4.38E-02	8.59E-02
2123	495161.06	3859651.99	0.00937	0.00638	0.00567	0.01116	0.007	0.048	0.0063	0.00638	6.53E-02	1.18E-02	5.90E-07	3.93E-04	2.04E-03	4.51E-03	4.44E-02	4.34E-02	8.50E-02
2124	495211.06	3859651.99	0.0093	0.00634	0.00563	0.01106	0.007	0.045	0.0062	0.00634	6.48E-02	1.17E-02	5.86E-07	3.89E-04	2.04E-03	4.23E-03	4.41E-02	4.31E-02	8.42E-02
2125	495261.06	3859651.99	0.00923	0.00628	0.00557	0.01094	0.006	0.042	0.0062	0.00628	6.43E-02	1.16E-02	5.80E-07	3.85E-04	2.03E-03	3.99E-03	4.37E-02	4.27E-02	8.34E-02
2126	495311.06	3859651.99	0.00916	0.00623	0.00551	0.01084	0.006	0.04	0.0061	0.00623	6.39E-02	1.15E-02	5.74E-07	3.82E-04	2.03E-03	3.78E-03	4.34E-02	4.24E-02	8.26E-02
2127	495361.06	3859651.99	0.00909	0.00619	0.00547	0.01075	0.006	0.038	0.0061	0.00619	6.34E-02	1.14E-02	5.69E-07	3.78E-04	2.03E-03	3.60E-03	4.31E-02	4.21E-02	8.18E-02
2128	495411.06	3859651.99	0.00902	0.00614	0.00541	0.01063	0.006	0.037	0.006	0.00614	6.29E-02	1.13E-02	5.63E-07	3.74E-04	2.02E-03	3.43E-03	4.27E-02	4.18E-02	8.10E-02
2129	495461.06	3859651.99	0.00896	0.00605	0.00532	0.01046	0.006	0.035	0.006	0.00605	6.25E-02	1.12E-02	5.54E-07	3.68E-04	2.01E-03	3.27E-03	4.22E-02	4.11E-02	8.03E-02
2130	495511.06	3859651.99	0.00889	0.00598	0.00524	0.01029	0.006	0.033	0.0059	0.00598	6.20E-02	1.10E-02	5.46E-07	3.62E-04	2.00E-03	3.12E-03	4.17E-02	4.07E-02	7.95E-02
2131	495561.06	3859651.99	0.00882	0.00594	0.00519	0.01021	0.006	0.032	0.0058	0.00594	6.15E-02	1.10E-02	5.40E-07	3.59E-04	2.00E-03	3.00E-03	4.14E-02	4.04E-02	7.88E-02
2132	495611.06	3859651.99	0.00875	0.00588	0.00513	0.01009	0.006	0.031	0.0058	0.00588	6.10E-02	1.09E-02	5.34E-07	3.55E-04	1.99E-03	2.88E-03	4.10E-02	4.00E-02	7.81E-02
2133	495661.06	3859651.99	0.00868	0.00582	0.00507	0.00997	0.006	0.03	0.0057	0.00582	6.05E-02	1.07E-02	5.28E-07	3.51E-04	1.98E-03	2.78E-03	4.06E-02	3.96E-02	7.74E-02
2134	494311.06	3859701.99	0.01056	0.00774	0.0068	0.01388	0.006	0.056	0.0076	0.00774	7.36E-02	1.43E-02	7.08E-07	4.89E-04	2.02E-03	5.31E-03	5.36E-02	5.26E-02	9.67E-02
2135	494361.06	3859701.99	0.01048	0.00765	0.0067	0.01364	0.006	0.078	0.0075	0.00765	7.31E-02	1.41E-02	6.98E-07	4.80E-04	2.02E-03	7.30E-03	5.29E-02	5.20E-02	9.79E-02
2136	494411.06	3859701.99	0.01038	0.00759	0.00665	0.01349	0.006	0.135	0.0074	0.00759	7.24E-02	1.40E-02	6.92E-07	4.75E-04	2.03E-03	1.27E-02	5.25E-02	5.16E-02	1.02E-01
2137	494461.06	3859701.99	0.01026	0.00761	0.00666	0.01349	0.006	0.182	0.0074	0.00761	7.15E-02	1.41E-02	6.93E-07	4.75E-04	2.03E-03	1.71E-02	5.26E-02	5.17E-02	1.06E-01
2138	494511.06	3859701.99	0.01018	0.00752	0.00658	0.01329	0.006	0.195	0.0073	0.00752	7.10E-02	1.39E-02	6.85E-07	4.68E-04	2.03E-03	1.83E-02	5.20E-02	5.11E-02	1.07E-01
2139	494561.06	3859701.99	0.01009	0.00745	0.00652	0.01314	0.007	0.132	0.0073	0.00745	7.03E-02	1.38E-02	6.79E-07	4.62E-04	2.04E-03	1.24E-02	5.16E-02	5.07E-02	1.00E-01
2140	494611.06	3859701.99	0.01001	0.00739	0.00645	0.01298	0.007	0.103	0.0072	0.00739	6.98E-02	1.36E-02	6.71E-07	4.57E-04	2.04E-03	9.70E-03	5.12E-02	5.03E-02	9.65E-02
2141	494661.06	3859701.99	0.00996	0.00719	0.00626	0.01257	0.006	0.086	0.007	0.00719	6.94E-02	1.33E-02	6.52E-07	4.42E-04	2.02E-03	8.06E-03	4.98E-02	4.89E-02	9.42E-02
2142	494711.06	3859701.99	0.00987	0.00716	0.00623	0.01249	0.006	0.077	0.007	0.00716	6.88E-02	1.32E-02	6.49E-07	4.40E-04	2.02E-03	7.20E-03	4.96E-02	4.87E-02	9.26E-02

2143	494761.06	3859701.99	0.0098	0.00706	0.00614	0.01228	0.006	0.07	0.0069	0.00706	6.83E-02	1.30E-02	6.39E-07	4.32E-04	2.02E-03	6.54E-03	4.90E-02	4.80E-02	9.13E-02
2144	494811.06	3859701.99	0.00973	0.00696	0.00605	0.01207	0.006	0.064	0.0068	0.00696	6.78E-02	1.29E-02	6.30E-07	4.25E-04	2.01E-03	5.99E-03	4.83E-02	4.73E-02	9.00E-02
2145	494861.06	3859701.99	0.00964	0.00694	0.00603	0.01201	0.006	0.059	0.0068	0.00694	6.72E-02	1.28E-02	6.28E-07	4.23E-04	2.01E-03	5.59E-03	4.81E-02	4.72E-02	8.90E-02
2146	494911.06	3859701.99	0.00957	0.00686	0.00595	0.01184	0.006	0.055	0.0067	0.00686	6.67E-02	1.27E-02	6.19E-07	4.17E-04	2.01E-03	5.21E-03	4.76E-02	4.66E-02	8.80E-02
2147	494961.06	3859701.99	0.00949	0.00679	0.00588	0.01168	0.006	0.052	0.0067	0.00679	6.62E-02	1.25E-02	6.12E-07	4.11E-04	2.01E-03	4.91E-03	4.71E-02	4.62E-02	8.70E-02
2148	495011.06	3859701.99	0.00942	0.00674	0.00583	0.01158	0.006	0.05	0.0066	0.00674	6.57E-02	1.24E-02	6.07E-07	4.08E-04	2.01E-03	4.66E-03	4.68E-02	4.58E-02	8.61E-02
2149	495061.06	3859701.99	0.00934	0.00668	0.00577	0.01144	0.006	0.047	0.0065	0.00668	6.51E-02	1.23E-02	6.01E-07	4.03E-04	2.00E-03	4.42E-03	4.63E-02	4.54E-02	8.52E-02
2150	495111.06	3859701.99	0.00927	0.00661	0.0057	0.01131	0.006	0.045	0.0065	0.00661	6.46E-02	1.22E-02	5.93E-07	3.98E-04	2.00E-03	4.21E-03	4.59E-02	4.49E-02	8.44E-02
2151	495161.06	3859701.99	0.00921	0.00654	0.00564	0.01117	0.006	0.043	0.0064	0.00654	6.42E-02	1.21E-02	5.87E-07	3.93E-04	1.99E-03	4.01E-03	4.54E-02	4.45E-02	8.36E-02
2152	495211.06	3859701.99	0.00914	0.00647	0.00557	0.01102	0.006	0.041	0.0064	0.00647	6.37E-02	1.19E-02	5.80E-07	3.88E-04	1.99E-03	3.83E-03	4.50E-02	4.40E-02	8.29E-02
2153	495261.06	3859701.99	0.00907	0.00645	0.00554	0.01096	0.006	0.039	0.0063	0.00645	6.32E-02	1.19E-02	5.77E-07	3.86E-04	1.99E-03	3.68E-03	4.48E-02	4.39E-02	8.21E-02
2154	495311.06	3859701.99	0.009	0.00638	0.00547	0.01083	0.006	0.037	0.0063	0.00638	6.27E-02	1.18E-02	5.69E-07	3.81E-04	1.99E-03	3.52E-03	4.44E-02	4.34E-02	8.14E-02
2155	495361.06	3859701.99	0.00894	0.00632	0.00542	0.01071	0.006	0.036	0.0062	0.00632	6.23E-02	1.17E-02	5.64E-07	3.77E-04	1.98E-03	3.38E-03	4.40E-02	4.30E-02	8.08E-02
2156	495411.06	3859701.99	0.00888	0.00625	0.00534	0.01056	0.006	0.034	0.0061	0.00625	6.19E-02	1.15E-02	5.56E-07	3.72E-04	1.97E-03	3.24E-03	4.35E-02	4.25E-02	8.00E-02
2157	495461.06	3859701.99	0.00881	0.00619	0.00528	0.01043	0.006	0.033	0.0061	0.00619	6.14E-02	1.14E-02	5.50E-07	3.67E-04	1.97E-03	3.12E-03	4.31E-02	4.21E-02	7.93E-02
2158	495511.06	3859701.99	0.00876	0.00608	0.00518	0.01023	0.006	0.032	0.006	0.00608	6.11E-02	1.12E-02	5.39E-07	3.60E-04	1.96E-03	2.98E-03	4.24E-02	4.13E-02	7.86E-02
2159	495561.06	3859701.99	0.00869	0.00607	0.00516	0.0102	0.006	0.031	0.006	0.00607	6.06E-02	1.12E-02	5.37E-07	3.59E-04	1.96E-03	2.89E-03	4.23E-02	4.13E-02	7.80E-02
2160	495611.06	3859701.99	0.00863	0.00602	0.00511	0.01009	0.006	0.03	0.0059	0.00602	6.02E-02	1.11E-02	5.32E-07	3.55E-04	1.96E-03	2.79E-03	4.19E-02	4.09E-02	7.74E-02
2161	495661.06	3859701.99	0.00857	0.00596	0.00505	0.00998	0.006	0.029	0.0059	0.00596	5.97E-02	1.10E-02	5.26E-07	3.51E-04	1.95E-03	2.69E-03	4.16E-02	4.05E-02	7.68E-02
2162	494311.06	3859751.99	0.01035	0.00797	0.00669	0.0139	0.006	0.057	0.0078	0.00797	7.22E-02	1.47E-02	6.96E-07	4.89E-04	1.95E-03	5.39E-03	5.52E-02	5.42E-02	9.57E-02
2163	494361.06	3859751.99	0.01027	0.00787	0.00661	0.01369	0.006	0.078	0.0077	0.00787	7.16E-02	1.45E-02	6.88E-07	4.82E-04	1.96E-03	7.38E-03	5.45E-02	5.35E-02	9.69E-02
2164	494411.06	3859751.99	0.01019	0.00776	0.00651	0.01344	0.006	0.135	0.0076	0.00776	7.10E-02	1.43E-02	6.78E-07	4.73E-04	1.96E-03	1.26E-02	5.37E-02	5.28E-02	1.01E-01
2165	494461.06	3859751.99	0.01007	0.00776	0.0065	0.0134	0.006	0.184	0.0076	0.00776	7.02E-02	1.43E-02	6.77E-07	4.72E-04	1.97E-03	1.73E-02	5.37E-02	5.28E-02	1.05E-01
2166	494511.06	3859751.99	0.00998	0.00772	0.00647	0.01329	0.006	0.193	0.0075	0.00772	6.96E-02	1.43E-02	6.74E-07	4.68E-04	1.97E-03	1.82E-02	5.34E-02	5.25E-02	1.05E-01
2167	494561.06	3859751.99	0.00989	0.00764	0.0064	0.0131	0.006	0.13	0.0075	0.00764	6.90E-02	1.41E-02	6.66E-07	4.61E-04	1.97E-03	1.22E-02	5.29E-02	5.20E-02	9.86E-02
2168	494611.06	3859751.99	0.00982	0.00753	0.00631	0.01287	0.006	0.099	0.0074	0.00753	6.85E-02	1.39E-02	6.57E-07	4.53E-04	1.97E-03	9.34E-03	5.21E-02	5.12E-02	9.51E-02
2169	494661.06	3859751.99	0.00977	0.00734	0.00617	0.01255	0.006	0.082	0.0072	0.00734	6.81E-02	1.36E-02	6.42E-07	4.42E-04	1.97E-03	7.70E-03	5.09E-02	4.99E-02	9.27E-02
2170	494711.06	3859751.99	0.00968	0.00734	0.00614	0.01247	0.006	0.072	0.0072	0.00734	6.75E-02	1.36E-02	6.39E-07	4.39E-04	1.97E-03	6.77E-03	5.08E-02	4.99E-02	9.11E-02
2171	494761.06	3859751.99	0.0096	0.00728	0.00609	0.01234	0.006	0.065	0.0071	0.00728	6.69E-02	1.34E-02	6.34E-07	4.34E-04	1.97E-03	6.07E-03	5.04E-02	4.95E-02	8.98E-02
2172	494811.06	3859751.99	0.00953	0.00719	0.00601	0.01215	0.006	0.059	0.007	0.00719	6.64E-02	1.33E-02	6.26E-07	4.28E-04	1.97E-03	5.53E-03	4.98E-02	4.89E-02	8.86E-02
2173	494861.06	3859751.99	0.00945	0.00712	0.00596	0.01201	0.006	0.054	0.007	0.00712	6.59E-02	1.32E-02	6.20E-07	4.23E-04	1.96E-03	5.12E-03	4.94E-02	4.84E-02	8.75E-02
2174	494911.06	3859751.99	0.00938	0.00706	0.0059	0.01187	0.006	0.051	0.0069	0.00706	6.54E-02	1.30E-02	6.14E-07	4.18E-04	1.96E-03	4.79E-03	4.89E-02	4.80E-02	8.65E-02
2175	494961.06	3859751.99	0.0093	0.00699	0.00584	0.01173	0.006	0.048	0.0068	0.00699	6.48E-02	1.29E-02	6.08E-07	4.13E-04	1.96E-03	4.52E-03	4.85E-02	4.75E-02	8.56E-02
2176	495011.06	3859751.99	0.00924	0.00692	0.00578	0.01159	0.006	0.046	0.0068	0.00692	6.44E-02	1.28E-02	6.02E-07	4.08E-04	1.96E-03	4.29E-03	4.80E-02	4.71E-02	8.48E-02
2177	495061.06	3859751.99	0.00916	0.00687	0.00573	0.01148	0.006	0.044	0.0067	0.00687	6.39E-02	1.27E-02	5.97E-07	4.04E-04	1.96E-03	4.09E-03	4.77E-02	4.67E-02	8.40E-02
2178	495111.06	3859751.99	0.00909	0.0068	0.00567	0.01134	0.006	0.042	0.0067	0.0068	6.34E-02	1.26E-02	5.90E-07	3.99E-04	1.96E-03	3.91E-03	4.72E-02	4.62E-02	8.31E-02
2179	495161.06	3859751.99	0.00903	0.00673	0.0056	0.0112	0.006	0.04	0.0066	0.00673	6.30E-02	1.24E-02	5.83E-07	3.94E-04	1.95E-03	3.75E-03	4.67E-02	4.58E-02	8.24E-02
2180	495211.06	3859751.99	0.00897	0.00666	0.00554	0.01105	0.006	0.038	0.0065	0.00666	6.25E-02	1.23E-02	5.77E-07	3.89E-04	1.95E-03	3.60E-03	4.62E-02	4.53E-02	8.17E-02
2181	495261.06	3859751.99	0.0089	0.00661	0.00549	0.01095	0.006	0.037	0.0065	0.00661	6.20E-02	1.22E-02	5.72E-07	3.85E-04	1.95E-03	3.47E-03	4.59E-02	4.49E-02	8.10E-02
2182	495311.06	3859751.99	0.00884	0.00654	0.00543	0.01082	0.006	0.036	0.0064	0.00654	6.16E-02	1.21E-02	5.65E-07	3.81E-04	1.94E-03	3.34E-03	4.54E-02	4.45E-02	8.03E-02
2183	495361.06	3859751.99	0.00877	0.00648	0.00537	0.0107	0.006	0.034	0.0064	0.00648	6.11E-02	1.20E-02	5.59E-07	3.77E-04	1.94E-03	3.22E-03	4.51E-02	4.41E-02	7.96E-02
2184	495411.06	3859751.99	0.00871	0.00643	0.00532	0.01059	0.006	0.033	0.0063	0.00643	6.07E-02	1.19E-02	5.54E-07	3.73E-04	1.93E-03	3.11E-03	4.46E-02	4.37E-02	7.89E-02
2185	495461.06	3859751.99	0.00866	0.00634	0.00525	0.01043	0.006	0.032	0.0062	0.00634	6.04E-02	1.17E-02	5.47E-07	3.67E-04	1.93E-03	3.00E-03	4.41E-02	4.31E-02	7.84E-02
2186	495511.06	3859751.99	0.0086	0.00626	0.00517	0.01028	0.006	0.031	0.0062	0.00626	6.00E-02	1.16E-02	5.38E-07	3.62E-04	1.92E-03	2.89E-03	4.36E-02	4.26E-02	7.77E-02
2187	495561.06	3859751.99	0.00854	0.00621	0.00512	0.01017	0.006	0.03	0.0061	0.00621	5.95E-02	1.15E-02	5.33E-07	3.58E-04	1.92E-03	2.79E-03	4.32E-02	4.22E-02	7.71E-02
2188	495611.06	3859751.99	0.00848	0.00615	0.00507	0.01007	0.006	0.029	0.0061	0.00615	5.91E-02	1.14E-02	5.28E-07	3.54E-04	1.91E-03	2.71E-03	4.29E-02	4.18E-02	7.65E-02
2189	495661.06	3859751.99	0.00842	0.00611	0.00503	0.00998	0.006	0.028	0.006	0.00611	5.87E-02	1.13E-02	5.24E-07	3.51E-04	1.91E-03	2.63E-03	4.26E-02	4.15E-02	7.59E-02
2190	494311.06	3859801.99	0.01013	0.0082	0.00656	0.01389	0.006	0.059	0.008	0.0082	7.06E-02	1.51E-02	6.83E-07	4.89E-04	1.88E-03	5.51E-03	5.68E-02	5.58E-02	9.47E-02
2191	494361.06	3859801.99	0.01006	0.00807	0.00646	0.01362	0.006	0.079	0.0079	0.00807	7.01E-02	1.49E-02	6.73E-07	4.79E-04	1.89E-03	7.43E-03	5.58E-02	5.49E-02	9.58E-02
2192	494411.06	3859801.99	0.00999	0.00792	0.00636	0.01334	0.006	0.134	0.0078	0.00792	6.96E-02	1.46E-02	6.62E-07	4.70E-04	1.89E-03	1.26E-02	5.49E-02	5.39E-02	1.00E-01
2193	494461.06	3859801.99	0.00988	0.00791	0.00634	0.01327	0.006	0.193	0.0077	0.00791	6.89E-02	1.46E-02	6.60E-07	4.67E-04	1.90E-03	1.81E-02	5.48E-02	5.38E-02	1.05E-01
2194	494511.06	3859801.99	0.00977	0.00792	0.00634	0.01322	0.006	0.189	0.0077	0.00792	6.81E-02	1.46E-02	6.60E-07	4.65E-04	1.91E-03	1.77E-02	5.48E-02	5.39E-02	1.04E-01
2195	494561.06	3859801.99	0.00969	0.00783	0.00627	0.01304	0.006	0.129	0.0077	0.00783	6.76E-02	1.45E-02	6.53E-07	4.59E-04	1.91E-03	1.21E-02	5.42E-02	5.32E-02	9.74E-02
2196	494611.06	3859801.99	0.00964	0.00767	0.00615	0.01275	0.006	0.099	0.0075	0.00767	6.72E-02	1.42E-02	6.40E-07	4.49E-04	1.91E-03	9.27E-03	5.31E-02	5.22E-02	9.39E-02
2197	494661.06	3859801.99	0.00956	0.00758	0.00608	0.01256	0.006	0.082	0.0074	0.00758	6.66E-02	1.40E-02	6.33E-07	4.42E-04	1.91E-03	7.67E-03	5.24E-02	5.15E-02	9.16E-02
2198	494711.06	3859801.99	0.0095	0.00747	0.006	0.01234	0.006	0.07	0.0073	0.00747	6.62E-02	1.38E-02	6.25E-07	4.34E-04	1.91E-03	6.62E-03	5.17E-02	5.08E-02	8.99E-02
2199	494761.06	3859801.99	0.0094	0.00746	0.00599	0.0123	0.006	0.063	0.0073	0.00746	6.55E-02	1.38E-02	6.24E-07	4.33E-04	1.91E-03	5.95E-03	5.17E-02	5.07E-02	8.85E-02
2200	494811.06	3859801.99	0.00933	0.00738	0.00592	0.01213	0.006	0.058	0.0072	0.00738	6.50E-02	1.36E-02	6.16E-07	4.27E-04	1.91E-03	5.41E-03	5.11E-02	5.02E-02	8.73E-02

2201	494861.06	3859801.99	0.00925	0.00732	0.00588	0.012	0.006	0.053	0.0072	0.00732	6.45E-02	1.35E-02	6.12E-07	4.22E-04	1.91E-03	5.01E-03	5.07E-02	4.98E-02	8.62E-02
2202	494911.06	3859801.99	0.00919	0.00723	0.0058	0.01183	0.006	0.05	0.0071	0.00723	6.41E-02	1.34E-02	6.04E-07	4.16E-04	1.91E-03	4.66E-03	5.01E-02	4.92E-02	8.53E-02
2203	494961.06	3859801.99	0.00912	0.00716	0.00575	0.01169	0.006	0.047	0.007	0.00716	6.36E-02	1.32E-02	5.99E-07	4.11E-04	1.91E-03	4.39E-03	4.96E-02	4.87E-02	8.44E-02
2204	495011.06	3859801.99	0.00905	0.00709	0.00569	0.01155	0.006	0.044	0.0069	0.00709	6.31E-02	1.31E-02	5.92E-07	4.07E-04	1.91E-03	4.16E-03	4.92E-02	4.82E-02	8.36E-02
2205	495061.06	3859801.99	0.00898	0.00703	0.00564	0.01144	0.006	0.042	0.0069	0.00703	6.26E-02	1.30E-02	5.87E-07	4.03E-04	1.91E-03	3.96E-03	4.87E-02	4.78E-02	8.28E-02
2206	495111.06	3859801.99	0.00892	0.00695	0.00558	0.01129	0.006	0.04	0.0068	0.00695	6.22E-02	1.28E-02	5.81E-07	3.97E-04	1.91E-03	3.78E-03	4.83E-02	4.73E-02	8.21E-02
2207	495161.06	3859801.99	0.00886	0.00688	0.00552	0.01114	0.006	0.038	0.0067	0.00688	6.18E-02	1.27E-02	5.75E-07	3.92E-04	1.90E-03	3.61E-03	4.78E-02	4.68E-02	8.14E-02
2208	495211.06	3859801.99	0.00879	0.00683	0.00547	0.01104	0.006	0.037	0.0067	0.00683	6.13E-02	1.26E-02	5.69E-07	3.89E-04	1.90E-03	3.48E-03	4.73E-02	4.64E-02	8.06E-02
2209	495261.06	3859801.99	0.00873	0.00675	0.00541	0.0109	0.006	0.036	0.0066	0.00675	6.09E-02	1.25E-02	5.63E-07	3.84E-04	1.90E-03	3.34E-03	4.68E-02	4.59E-02	7.99E-02
2210	495311.06	3859801.99	0.00867	0.0067	0.00537	0.0108	0.006	0.034	0.0066	0.0067	6.04E-02	1.24E-02	5.59E-07	3.80E-04	1.90E-03	3.23E-03	4.66E-02	4.56E-02	7.93E-02
2211	495361.06	3859801.99	0.00861	0.00664	0.00531	0.01067	0.006	0.033	0.0065	0.00664	6.00E-02	1.23E-02	5.53E-07	3.76E-04	1.89E-03	3.12E-03	4.61E-02	4.52E-02	7.86E-02
2212	495411.06	3859801.99	0.00855	0.00656	0.00525	0.01053	0.006	0.032	0.0064	0.00656	5.96E-02	1.21E-02	5.47E-07	3.71E-04	1.89E-03	3.01E-03	4.56E-02	4.46E-02	7.79E-02
2213	495461.06	3859801.99	0.00849	0.0065	0.0052	0.01042	0.006	0.031	0.0064	0.0065	5.92E-02	1.20E-02	5.41E-07	3.67E-04	1.88E-03	2.92E-03	4.52E-02	4.42E-02	7.74E-02
2214	495511.06	3859801.99	0.00844	0.00642	0.00512	0.01026	0.006	0.03	0.0063	0.00642	5.88E-02	1.19E-02	5.33E-07	3.61E-04	1.88E-03	2.81E-03	4.46E-02	4.37E-02	7.67E-02
2215	495561.06	3859801.99	0.00838	0.00636	0.00508	0.01017	0.006	0.029	0.0063	0.00636	5.84E-02	1.17E-02	5.29E-07	3.58E-04	1.88E-03	2.73E-03	4.43E-02	4.32E-02	7.62E-02
2216	495611.06	3859801.99	0.00832	0.00634	0.00506	0.01011	0.006	0.028	0.0062	0.00634	5.80E-02	1.17E-02	5.27E-07	3.56E-04	1.88E-03	2.66E-03	4.41E-02	4.31E-02	7.56E-02
2217	495661.06	3859801.99	0.00827	0.00626	0.00499	0.00998	0.006	0.027	0.0062	0.00626	5.77E-02	1.16E-02	5.19E-07	3.51E-04	1.87E-03	2.57E-03	4.36E-02	4.26E-02	7.50E-02
2218	494311.06	3859851.99	0.00992	0.0084	0.00641	0.01378	0.006	0.061	0.0082	0.0084	6.92E-02	1.55E-02	6.67E-07	4.85E-04	1.80E-03	5.70E-03	5.82E-02	5.71E-02	9.37E-02
2219	494361.06	3859851.99	0.00984	0.00828	0.00633	0.01356	0.006	0.08	0.0081	0.00828	6.86E-02	1.53E-02	6.59E-07	4.77E-04	1.81E-03	7.55E-03	5.74E-02	5.63E-02	9.48E-02
2220	494411.06	3859851.99	0.00977	0.00815	0.00624	0.01331	0.006	0.134	0.008	0.00815	6.81E-02	1.51E-02	6.50E-07	4.68E-04	1.82E-03	1.26E-02	5.65E-02	5.54E-02	9.91E-02
2221	494461.06	3859851.99	0.00968	0.00806	0.00617	0.01311	0.006	0.187	0.0079	0.00806	6.75E-02	1.49E-02	6.42E-07	4.61E-04	1.82E-03	1.76E-02	5.58E-02	5.48E-02	1.03E-01
2222	494511.06	3859851.99	0.00959	0.00802	0.00615	0.01302	0.006	0.195	0.0078	0.00802	6.69E-02	1.48E-02	6.40E-07	4.58E-04	1.83E-03	1.83E-02	5.55E-02	5.45E-02	1.03E-01
2223	494561.06	3859851.99	0.00949	0.00801	0.00613	0.01295	0.006	0.13	0.0078	0.00801	6.62E-02	1.48E-02	6.38E-07	4.56E-04	1.84E-03	1.22E-02	5.55E-02	5.45E-02	9.65E-02
2224	494611.06	3859851.99	0.00944	0.00783	0.00601	0.01264	0.006	0.1	0.0077	0.00783	6.58E-02	1.45E-02	6.26E-07	4.45E-04	1.84E-03	9.39E-03	5.43E-02	5.32E-02	9.30E-02
2225	494661.06	3859851.99	0.00935	0.00779	0.00598	0.01253	0.006	0.083	0.0076	0.00779	6.52E-02	1.44E-02	6.23E-07	4.41E-04	1.85E-03	7.79E-03	5.39E-02	5.30E-02	9.06E-02
2226	494711.06	3859851.99	0.00929	0.00766	0.00589	0.0123	0.006	0.071	0.0075	0.00766	6.48E-02	1.41E-02	6.13E-07	4.33E-04	1.85E-03	6.70E-03	5.31E-02	5.21E-02	8.89E-02
2227	494761.06	3859851.99	0.0092	0.00765	0.00588	0.01224	0.006	0.064	0.0075	0.00765	6.41E-02	1.41E-02	6.12E-07	4.31E-04	1.85E-03	6.01E-03	5.29E-02	5.20E-02	8.75E-02
2228	494811.06	3859851.99	0.00913	0.00756	0.00582	0.01208	0.006	0.058	0.0074	0.00756	6.37E-02	1.40E-02	6.06E-07	4.25E-04	1.85E-03	5.46E-03	5.24E-02	5.14E-02	8.63E-02
2229	494861.06	3859851.99	0.00905	0.00751	0.00578	0.01197	0.006	0.054	0.0073	0.00751	6.31E-02	1.39E-02	6.02E-07	4.21E-04	1.86E-03	5.05E-03	5.20E-02	5.11E-02	8.52E-02
2230	494911.06	3859851.99	0.00899	0.00742	0.00571	0.0118	0.006	0.05	0.0073	0.00742	6.27E-02	1.37E-02	5.94E-07	4.15E-04	1.86E-03	4.69E-03	5.14E-02	5.05E-02	8.43E-02
2231	494961.06	3859851.99	0.00892	0.00735	0.00566	0.01166	0.006	0.047	0.0072	0.00735	6.22E-02	1.36E-02	5.89E-07	4.10E-04	1.86E-03	4.40E-03	5.09E-02	5.00E-02	8.34E-02
2232	495011.06	3859851.99	0.00886	0.00728	0.00561	0.01153	0.006	0.044	0.0071	0.00728	6.18E-02	1.34E-02	5.84E-07	4.06E-04	1.86E-03	4.16E-03	5.04E-02	4.95E-02	8.26E-02
2233	495061.06	3859851.99	0.00879	0.00722	0.00556	0.01142	0.006	0.042	0.0071	0.00722	6.13E-02	1.33E-02	5.79E-07	4.02E-04	1.86E-03	3.95E-03	5.00E-02	4.91E-02	8.18E-02
2234	495111.06	3859851.99	0.00873	0.00713	0.0055	0.01126	0.006	0.04	0.007	0.00713	6.09E-02	1.32E-02	5.73E-07	3.96E-04	1.85E-03	3.76E-03	4.95E-02	4.85E-02	8.10E-02
2235	495161.06	3859851.99	0.00867	0.00706	0.00544	0.01112	0.006	0.038	0.0069	0.00706	6.04E-02	1.30E-02	5.66E-07	3.91E-04	1.85E-03	3.59E-03	4.90E-02	4.80E-02	8.03E-02
2236	495211.06	3859851.99	0.00861	0.00699	0.00539	0.011	0.006	0.037	0.0069	0.00699	6.00E-02	1.29E-02	5.61E-07	3.87E-04	1.85E-03	3.44E-03	4.85E-02	4.75E-02	7.96E-02
2237	495261.06	3859851.99	0.00855	0.00692	0.00534	0.01088	0.006	0.035	0.0068	0.00692	5.96E-02	1.28E-02	5.56E-07	3.83E-04	1.85E-03	3.31E-03	4.80E-02	4.71E-02	7.89E-02
2238	495311.06	3859851.99	0.00849	0.00687	0.0053	0.01077	0.006	0.034	0.0067	0.00687	5.92E-02	1.27E-02	5.52E-07	3.79E-04	1.85E-03	3.19E-03	4.77E-02	4.67E-02	7.83E-02
2239	495361.06	3859851.99	0.00843	0.00681	0.00525	0.01066	0.006	0.033	0.0067	0.00681	5.88E-02	1.26E-02	5.47E-07	3.75E-04	1.85E-03	3.08E-03	4.73E-02	4.63E-02	7.76E-02
2240	495411.06	3859851.99	0.00838	0.00673	0.00519	0.01053	0.006	0.032	0.0066	0.00673	5.84E-02	1.24E-02	5.40E-07	3.71E-04	1.84E-03	2.97E-03	4.67E-02	4.58E-02	7.70E-02
2241	495461.06	3859851.99	0.00833	0.00666	0.00514	0.0104	0.006	0.03	0.0065	0.00666	5.81E-02	1.23E-02	5.35E-07	3.66E-04	1.84E-03	2.87E-03	4.63E-02	4.53E-02	7.64E-02
2242	495511.06	3859851.99	0.00828	0.00658	0.00507	0.01026	0.006	0.029	0.0065	0.00658	5.77E-02	1.22E-02	5.28E-07	3.61E-04	1.84E-03	2.77E-03	4.57E-02	4.47E-02	7.58E-02
2243	495561.06	3859851.99	0.00822	0.00654	0.00504	0.01018	0.006	0.029	0.0064	0.00654	5.73E-02	1.21E-02	5.25E-07	3.58E-04	1.84E-03	2.69E-03	4.54E-02	4.45E-02	7.52E-02
2244	495611.06	3859851.99	0.00816	0.00649	0.005	0.01009	0.006	0.028	0.0064	0.00649	5.69E-02	1.20E-02	5.21E-07	3.55E-04	1.83E-03	2.61E-03	4.51E-02	4.41E-02	7.47E-02
2245	495661.06	3859851.99	0.00811	0.00642	0.00494	0.00996	0.006	0.027	0.0063	0.00642	5.65E-02	1.19E-02	5.14E-07	3.51E-04	1.83E-03	2.53E-03	4.46E-02	4.37E-02	7.41E-02
2246	494311.06	3859901.99	0.0097	0.00858	0.00627	0.01364	0.005	0.065	0.0084	0.00858	6.76E-02	1.58E-02	6.53E-07	4.80E-04	1.72E-03	6.07E-03	5.95E-02	5.83E-02	9.29E-02
2247	494361.06	3859901.99	0.00964	0.00841	0.00616	0.01334	0.006	0.083	0.0082	0.00841	6.72E-02	1.55E-02	6.41E-07	4.70E-04	1.73E-03	7.83E-03	5.83E-02	5.72E-02	9.39E-02
2248	494411.06	3859901.99	0.00954	0.00835	0.00612	0.01321	0.006	0.136	0.0082	0.00835	6.65E-02	1.54E-02	6.37E-07	4.65E-04	1.74E-03	1.28E-02	5.80E-02	5.68E-02	9.81E-02
2249	494461.06	3859901.99	0.00947	0.00826	0.00605	0.01303	0.006	0.183	0.0081	0.00826	6.60E-02	1.53E-02	6.30E-07	4.59E-04	1.75E-03	1.72E-02	5.72E-02	5.62E-02	1.02E-01
2250	494511.06	3859901.99	0.00938	0.0082	0.00601	0.01289	0.006	0.2	0.008	0.0082	6.54E-02	1.51E-02	6.26E-07	4.54E-04	1.76E-03	1.88E-02	5.68E-02	5.58E-02	1.03E-01
2251	494561.06	3859901.99	0.00927	0.00821	0.00601	0.01286	0.006	0.134	0.008	0.00821	6.46E-02	1.52E-02	6.26E-07	4.53E-04	1.77E-03	1.26E-02	5.69E-02	5.58E-02	9.56E-02
2252	494611.06	3859901.99	0.00923	0.00802	0.00589	0.01255	0.006	0.103	0.0078	0.00802	6.43E-02	1.48E-02	6.13E-07	4.42E-04	1.77E-03	9.71E-03	5.55E-02	5.45E-02	9.21E-02
2253	494661.06	3859901.99	0.00913	0.00801	0.00588	0.0125	0.006	0.086	0.0078	0.00801	6.37E-02	1.48E-02	6.12E-07	4.40E-04	1.78E-03	8.09E-03	5.55E-02	5.45E-02	8.98E-02
2254	494711.06	3859901.99	0.00909	0.00783	0.00577	0.0122	0.006	0.074	0.0077	0.00783	6.34E-02	1.45E-02	6.01E-07	4.29E-04	1.78E-03	6.93E-03	5.43E-02	5.32E-02	8.80E-02
2255	494761.06	3859901.99	0.00901	0.0078	0.00574	0.01213	0.006	0.066	0.0076	0.0078	6.28E-02	1.44E-02	5.98E-07	4.27E-04	1.79E-03	6.19E-03	5.41E-02	5.30E-02	8.67E-02
2256	494811.06	3859901.99	0.00892	0.00777	0.00572	0.01205	0.006	0.06	0.0076	0.00777	6.22E-02	1.44E-02	5.95E-07	4.24E-04	1.80E-03	5.65E-03	5.38E-02	5.28E-02	8.54E-02
2257	494861.06	3859901.99	0.00885	0.00771	0.00568	0.01193	0.006	0.055	0.0075	0.00771	6.17E-02	1.42E-02	5.91E-07	4.20E-04	1.80E-03	5.20E-03	5.34E-02	5.24E-02	8.44E-02
2258	494911.06	3859901.99	0.00879	0.00761	0.00561	0.01175	0.006	0.051	0.0075	0.00761	6.13E-02	1.41E-02	5.84E-07	4.14E-04	1.80E-03	4.80E-03	5.28E-02	5.17E-02	8.34E-02

2259	494961.06	3859901.99	0.00872	0.00755	0.00557	0.01164	0.006	0.048	0.0074	0.00755	6.08E-02	1.39E-02	5.80E-07	4.10E-04	1.80E-03	4.49E-03	5.24E-02	5.13E-02	8.25E-02
2260	495011.06	3859901.99	0.00866	0.00747	0.00551	0.01148	0.006	0.045	0.0073	0.00747	6.04E-02	1.38E-02	5.74E-07	4.04E-04	1.80E-03	4.22E-03	5.17E-02	5.08E-02	8.15E-02
2261	495061.06	3859901.99	0.0086	0.00739	0.00546	0.01135	0.006	0.043	0.0072	0.00739	6.00E-02	1.36E-02	5.68E-07	3.99E-04	1.80E-03	3.99E-03	5.12E-02	5.03E-02	8.08E-02
2262	495111.06	3859901.99	0.00855	0.0073	0.0054	0.0112	0.006	0.04	0.0071	0.0073	5.96E-02	1.35E-02	5.62E-07	3.94E-04	1.80E-03	3.79E-03	5.06E-02	4.96E-02	8.00E-02
2263	495161.06	3859901.99	0.00849	0.00722	0.00534	0.01105	0.006	0.038	0.0071	0.00722	5.92E-02	1.33E-02	5.56E-07	3.89E-04	1.80E-03	3.60E-03	5.00E-02	4.91E-02	7.92E-02
2264	495211.06	3859901.99	0.00843	0.00717	0.00531	0.01096	0.006	0.037	0.007	0.00717	5.88E-02	1.32E-02	5.53E-07	3.86E-04	1.80E-03	3.45E-03	4.97E-02	4.88E-02	7.86E-02
2265	495261.06	3859901.99	0.00838	0.00707	0.00524	0.0108	0.006	0.035	0.0069	0.00707	5.84E-02	1.31E-02	5.46E-07	3.80E-04	1.80E-03	3.29E-03	4.90E-02	4.81E-02	7.79E-02
2266	495311.06	3859901.99	0.00832	0.00702	0.00521	0.01071	0.006	0.034	0.0069	0.00702	5.80E-02	1.30E-02	5.42E-07	3.77E-04	1.80E-03	3.17E-03	4.87E-02	4.77E-02	7.73E-02
2267	495361.06	3859901.99	0.00826	0.00695	0.00516	0.01059	0.006	0.032	0.0068	0.00695	5.76E-02	1.28E-02	5.37E-07	3.73E-04	1.80E-03	3.05E-03	4.83E-02	4.73E-02	7.66E-02
2268	495411.06	3859901.99	0.00821	0.00687	0.0051	0.01046	0.006	0.031	0.0067	0.00687	5.72E-02	1.27E-02	5.31E-07	3.68E-04	1.80E-03	2.93E-03	4.77E-02	4.67E-02	7.60E-02
2269	495461.06	3859901.99	0.00816	0.0068	0.00505	0.01034	0.006	0.03	0.0067	0.0068	5.69E-02	1.26E-02	5.26E-07	3.64E-04	1.80E-03	2.83E-03	4.73E-02	4.62E-02	7.55E-02
2270	495511.06	3859901.99	0.00811	0.00675	0.00502	0.01025	0.006	0.029	0.0066	0.00675	5.65E-02	1.25E-02	5.23E-07	3.61E-04	1.79E-03	2.74E-03	4.69E-02	4.59E-02	7.49E-02
2271	495561.06	3859901.99	0.00805	0.00671	0.00498	0.01016	0.006	0.028	0.0066	0.00671	5.61E-02	1.24E-02	5.18E-07	3.58E-04	1.79E-03	2.66E-03	4.66E-02	4.56E-02	7.42E-02
2272	495611.06	3859901.99	0.008	0.00663	0.00493	0.01004	0.006	0.027	0.0065	0.00663	5.58E-02	1.22E-02	5.13E-07	3.53E-04	1.79E-03	2.57E-03	4.61E-02	4.51E-02	7.37E-02
2273	495661.06	3859901.99	0.00795	0.00656	0.00487	0.00992	0.006	0.026	0.0064	0.00656	5.54E-02	1.21E-02	5.07E-07	3.49E-04	1.79E-03	2.49E-03	4.56E-02	4.46E-02	7.31E-02
2274	494311.06	3859951.99	0.00947	0.0088	0.00615	0.01352	0.005	0.073	0.0086	0.0088	6.60E-02	1.63E-02	6.40E-07	4.76E-04	1.65E-03	6.82E-03	6.11E-02	5.98E-02	9.25E-02
2275	494361.06	3859951.99	0.0094	0.00867	0.00607	0.0133	0.005	0.092	0.0085	0.00867	6.55E-02	1.60E-02	6.32E-07	4.68E-04	1.66E-03	8.64E-03	6.02E-02	5.90E-02	9.36E-02
2276	494411.06	3859951.99	0.00932	0.00856	0.006	0.0131	0.005	0.143	0.0084	0.00856	6.50E-02	1.58E-02	6.25E-07	4.61E-04	1.67E-03	1.34E-02	5.94E-02	5.82E-02	9.75E-02
2277	494461.06	3859951.99	0.00925	0.00846	0.00594	0.01292	0.005	0.193	0.0083	0.00846	6.45E-02	1.56E-02	6.18E-07	4.55E-04	1.68E-03	1.82E-02	5.87E-02	5.75E-02	1.02E-01
2278	494511.06	3859951.99	0.00916	0.0084	0.0059	0.01279	0.005	0.21	0.0082	0.0084	6.39E-02	1.55E-02	6.14E-07	4.50E-04	1.69E-03	1.98E-02	5.83E-02	5.71E-02	1.02E-01
2279	494561.06	3859951.99	0.00904	0.00844	0.00591	0.01278	0.005	0.142	0.0083	0.00844	6.30E-02	1.56E-02	6.15E-07	4.50E-04	1.70E-03	1.34E-02	5.85E-02	5.74E-02	9.53E-02
2280	494611.06	3859951.99	0.009	0.00826	0.00581	0.01251	0.005	0.111	0.0081	0.00826	6.27E-02	1.53E-02	6.05E-07	4.40E-04	1.70E-03	1.05E-02	5.72E-02	5.62E-02	9.17E-02
2281	494661.06	3859951.99	0.00891	0.00824	0.00579	0.01244	0.005	0.092	0.0081	0.00824	6.21E-02	1.52E-02	6.03E-07	4.38E-04	1.71E-03	8.68E-03	5.71E-02	5.60E-02	8.92E-02
2282	494711.06	3859951.99	0.00887	0.00808	0.00569	0.0122	0.005	0.079	0.0079	0.00808	6.18E-02	1.49E-02	5.92E-07	4.29E-04	1.72E-03	7.40E-03	5.60E-02	5.49E-02	8.74E-02
2283	494761.06	3859951.99	0.00879	0.00802	0.00566	0.01208	0.006	0.07	0.0079	0.00802	6.13E-02	1.48E-02	5.89E-07	4.25E-04	1.73E-03	6.55E-03	5.56E-02	5.45E-02	8.59E-02
2284	494811.06	3859951.99	0.00872	0.00796	0.00561	0.01195	0.006	0.063	0.0078	0.00796	6.08E-02	1.47E-02	5.84E-07	4.21E-04	1.73E-03	5.89E-03	5.51E-02	5.41E-02	8.45E-02
2285	494861.06	3859951.99	0.00864	0.00792	0.00558	0.01187	0.006	0.057	0.0078	0.00792	6.02E-02	1.46E-02	5.81E-07	4.18E-04	1.74E-03	5.39E-03	5.49E-02	5.39E-02	8.35E-02
2286	494911.06	3859951.99	0.00859	0.00782	0.00552	0.0117	0.006	0.053	0.0076	0.00782	5.99E-02	1.44E-02	5.75E-07	4.12E-04	1.74E-03	4.95E-03	5.41E-02	5.32E-02	8.24E-02
2287	494961.06	3859951.99	0.00853	0.00772	0.00546	0.01154	0.006	0.049	0.0076	0.00772	5.95E-02	1.43E-02	5.68E-07	4.06E-04	1.75E-03	4.59E-03	5.35E-02	5.25E-02	8.15E-02
2288	495011.06	3859951.99	0.00847	0.00764	0.00541	0.0114	0.006	0.046	0.0075	0.00764	5.91E-02	1.41E-02	5.63E-07	4.01E-04	1.75E-03	4.29E-03	5.29E-02	5.20E-02	8.06E-02
2289	495061.06	3859951.99	0.00841	0.00757	0.00536	0.01128	0.006	0.043	0.0074	0.00757	5.86E-02	1.40E-02	5.58E-07	3.97E-04	1.75E-03	4.05E-03	5.24E-02	5.15E-02	7.98E-02
2290	495111.06	3859951.99	0.00836	0.00747	0.0053	0.01113	0.006	0.041	0.0073	0.00747	5.83E-02	1.38E-02	5.52E-07	3.92E-04	1.75E-03	3.82E-03	5.18E-02	5.08E-02	7.90E-02
2291	495161.06	3859951.99	0.00831	0.00738	0.00525	0.01098	0.006	0.039	0.0072	0.00738	5.79E-02	1.36E-02	5.47E-07	3.86E-04	1.75E-03	3.62E-03	5.12E-02	5.02E-02	7.84E-02
2292	495211.06	3859951.99	0.00826	0.0073	0.00519	0.01084	0.006	0.037	0.0071	0.0073	5.76E-02	1.35E-02	5.40E-07	3.82E-04	1.75E-03	3.44E-03	5.06E-02	4.96E-02	7.76E-02
2293	495261.06	3859951.99	0.0082	0.00723	0.00515	0.01073	0.006	0.035	0.0071	0.00723	5.72E-02	1.34E-02	5.36E-07	3.78E-04	1.75E-03	3.29E-03	5.02E-02	4.92E-02	7.69E-02
2294	495311.06	3859951.99	0.00814	0.00719	0.00512	0.01065	0.006	0.034	0.007	0.00719	5.67E-02	1.33E-02	5.33E-07	3.75E-04	1.75E-03	3.16E-03	4.99E-02	4.89E-02	7.63E-02
2295	495361.06	3859951.99	0.00809	0.00713	0.00508	0.01054	0.006	0.032	0.007	0.00713	5.64E-02	1.32E-02	5.29E-07	3.71E-04	1.75E-03	3.04E-03	4.95E-02	4.85E-02	7.57E-02
2296	495411.06	3859951.99	0.00804	0.00705	0.00503	0.01042	0.006	0.031	0.0069	0.00705	5.61E-02	1.30E-02	5.24E-07	3.67E-04	1.75E-03	2.92E-03	4.89E-02	4.79E-02	7.51E-02
2297	495461.06	3859951.99	0.00799	0.00697	0.00498	0.0103	0.006	0.03	0.0068	0.00697	5.57E-02	1.29E-02	5.18E-07	3.63E-04	1.75E-03	2.81E-03	4.84E-02	4.74E-02	7.45E-02
2298	495511.06	3859951.99	0.00794	0.0069	0.00493	0.01018	0.006	0.029	0.0068	0.0069	5.54E-02	1.27E-02	5.13E-07	3.58E-04	1.75E-03	2.71E-03	4.79E-02	4.69E-02	7.39E-02
2299	495561.06	3859951.99	0.00788	0.00687	0.00491	0.01012	0.006	0.028	0.0067	0.00687	5.49E-02	1.27E-02	5.11E-07	3.56E-04	1.75E-03	2.63E-03	4.77E-02	4.67E-02	7.33E-02
2300	495611.06	3859951.99	0.00784	0.0068	0.00486	0.01001	0.006	0.027	0.0067	0.0068	5.47E-02	1.26E-02	5.06E-07	3.52E-04	1.75E-03	2.54E-03	4.72E-02	4.62E-02	7.28E-02
2301	495661.06	3859951.99	0.00779	0.00671	0.0048	0.00987	0.006	0.026	0.0066	0.00671	5.43E-02	1.24E-02	5.00E-07	3.47E-04	1.74E-03	2.45E-03	4.66E-02	4.56E-02	7.22E-02
2302	494311.06	3860001.99	0.00923	0.00902	0.00606	0.01339	0.005	0.093	0.0089	0.00902	6.43E-02	1.67E-02	6.31E-07	4.71E-04	1.58E-03	8.76E-03	6.27E-02	6.13E-02	9.32E-02
2303	494361.06	3860001.99	0.00916	0.00891	0.00599	0.0132	0.005	0.12	0.0087	0.00891	6.39E-02	1.65E-02	6.24E-07	4.65E-04	1.59E-03	1.13E-02	6.19E-02	6.06E-02	9.50E-02
2304	494411.06	3860001.99	0.0091	0.00876	0.0059	0.01296	0.005	0.17	0.0086	0.00876	6.34E-02	1.62E-02	6.14E-07	4.56E-04	1.60E-03	1.60E-02	6.08E-02	5.96E-02	9.89E-02
2305	494461.06	3860001.99	0.00902	0.00868	0.00586	0.01282	0.005	0.234	0.0085	0.00868	6.29E-02	1.60E-02	6.10E-07	4.51E-04	1.61E-03	2.20E-02	6.03E-02	5.90E-02	1.04E-01
2306	494511.06	3860001.99	0.00895	0.00857	0.00579	0.01263	0.005	0.24	0.0084	0.00857	6.24E-02	1.58E-02	6.03E-07	4.45E-04	1.62E-03	2.26E-02	5.95E-02	5.83E-02	1.04E-01
2307	494561.06	3860001.99	0.00882	0.00865	0.00582	0.01267	0.005	0.162	0.0085	0.00865	6.15E-02	1.60E-02	6.06E-07	4.46E-04	1.63E-03	1.53E-02	6.00E-02	5.88E-02	9.60E-02
2308	494611.06	3860001.99	0.00877	0.00853	0.00574	0.01247	0.005	0.123	0.0084	0.00853	6.11E-02	1.58E-02	5.98E-07	4.39E-04	1.64E-03	1.16E-02	5.92E-02	5.80E-02	9.17E-02
2309	494661.06	3860001.99	0.00869	0.00846	0.0057	0.01234	0.005	0.099	0.0083	0.00846	6.06E-02	1.56E-02	5.93E-07	4.34E-04	1.64E-03	9.32E-03	5.87E-02	5.75E-02	8.87E-02
2310	494711.06	3860001.99	0.00867	0.00823	0.00557	0.01204	0.005	0.083	0.0081	0.00823	6.04E-02	1.52E-02	5.80E-07	4.24E-04	1.65E-03	7.76E-03	5.71E-02	5.60E-02	8.66E-02
2311	494761.06	3860001.99	0.00858	0.00824	0.00557	0.012	0.005	0.072	0.0081	0.00824	5.98E-02	1.52E-02	5.80E-07	4.22E-04	1.66E-03	6.81E-03	5.71E-02	5.60E-02	8.50E-02
2312	494811.06	3860001.99	0.0085	0.00818	0.00553	0.01189	0.005	0.065	0.008	0.00818	5.93E-02	1.51E-02	5.76E-07	4.18E-04	1.66E-03	6.08E-03	5.68E-02	5.56E-02	8.37E-02
2313	494861.06	3860001.99	0.00843	0.00814	0.00551	0.0118	0.005	0.059	0.008	0.00814	5.88E-02	1.50E-02	5.74E-07	4.15E-04	1.67E-03	5.52E-03	5.65E-02	5.54E-02	8.25E-02
2314	494911.06	3860001.99	0.00841	0.00794	0.00539	0.01153	0.005	0.053	0.0078	0.00794	5.86E-02	1.47E-02	5.61E-07	4.06E-04	1.68E-03	5.00E-03	5.51E-02	5.40E-02	8.14E-02
2315	494961.06	3860001.99	0.00834	0.0079	0.00536	0.01144	0.005	0.049	0.0077	0.0079	5.81E-02	1.46E-02	5.58E-07	4.03E-04	1.68E-03	4.64E-03	5.48E-02	5.37E-02	8.05E-02
2316	495011.06	3860001.99	0.00829	0.0078	0.00531	0.01129	0.005	0.046	0.0076	0.0078	5.78E-02	1.44E-02	5.53E-07	3.97E-04	1.69E-03	4.31E-03	5.41E-02	5.30E-02	7.96E-02

2317	495061.06	3860001.99	0.00822	0.00776	0.00528	0.01121	0.005	0.043	0.0076	0.00776	5.73E-02	1.43E-02	5.50E-07	3.95E-04	1.69E-03	4.07E-03	5.38E-02	5.28E-02	7.88E-02
2318	495111.06	3860001.99	0.00817	0.00766	0.00522	0.01106	0.005	0.041	0.0075	0.00766	5.70E-02	1.41E-02	5.43E-07	3.89E-04	1.70E-03	3.83E-03	5.31E-02	5.21E-02	7.81E-02
2319	495161.06	3860001.99	0.00812	0.00757	0.00516	0.01092	0.005	0.039	0.0074	0.00757	5.66E-02	1.40E-02	5.37E-07	3.84E-04	1.70E-03	3.62E-03	5.25E-02	5.15E-02	7.73E-02
2320	495211.06	3860001.99	0.00806	0.00753	0.00514	0.01084	0.005	0.037	0.0074	0.00753	5.62E-02	1.39E-02	5.35E-07	3.82E-04	1.70E-03	3.46E-03	5.21E-02	5.12E-02	7.66E-02
2321	495261.06	3860001.99	0.00801	0.00744	0.00508	0.01071	0.005	0.035	0.0073	0.00744	5.58E-02	1.37E-02	5.29E-07	3.77E-04	1.70E-03	3.30E-03	5.16E-02	5.06E-02	7.60E-02
2322	495311.06	3860001.99	0.00796	0.00738	0.00505	0.0106	0.005	0.034	0.0072	0.00738	5.55E-02	1.36E-02	5.26E-07	3.73E-04	1.70E-03	3.16E-03	5.12E-02	5.02E-02	7.53E-02
2323	495361.06	3860001.99	0.00792	0.00726	0.00498	0.01043	0.005	0.032	0.0071	0.00726	5.52E-02	1.34E-02	5.18E-07	3.67E-04	1.70E-03	3.00E-03	5.04E-02	4.94E-02	7.47E-02
2324	495411.06	3860001.99	0.00786	0.00723	0.00496	0.01037	0.005	0.031	0.0071	0.00723	5.48E-02	1.34E-02	5.16E-07	3.65E-04	1.70E-03	2.90E-03	5.02E-02	4.92E-02	7.41E-02
2325	495461.06	3860001.99	0.00781	0.00716	0.00491	0.01026	0.005	0.03	0.007	0.00716	5.44E-02	1.32E-02	5.11E-07	3.61E-04	1.70E-03	2.79E-03	4.97E-02	4.87E-02	7.35E-02
2326	495511.06	3860001.99	0.00776	0.0071	0.00487	0.01016	0.005	0.029	0.007	0.0071	5.41E-02	1.31E-02	5.07E-07	3.58E-04	1.70E-03	2.69E-03	4.92E-02	4.83E-02	7.29E-02
2327	495561.06	3860001.99	0.00771	0.00705	0.00484	0.01009	0.005	0.028	0.0069	0.00705	5.38E-02	1.30E-02	5.04E-07	3.55E-04	1.70E-03	2.60E-03	4.90E-02	4.79E-02	7.25E-02
2328	495611.06	3860001.99	0.00767	0.00697	0.00479	0.00996	0.005	0.027	0.0068	0.00697	5.35E-02	1.29E-02	4.99E-07	3.51E-04	1.70E-03	2.50E-03	4.84E-02	4.74E-02	7.19E-02
2329	495661.06	3860001.99	0.00763	0.00689	0.00474	0.00985	0.005	0.026	0.0068	0.00689	5.32E-02	1.27E-02	4.93E-07	3.47E-04	1.70E-03	2.42E-03	4.78E-02	4.69E-02	7.14E-02
2330	494411.06	3860051.99	0.00886	0.00901	0.00584	0.01286	0.005	0.51	0.0088	0.00901	6.18E-02	1.66E-02	6.08E-07	4.53E-04	1.53E-03	4.80E-02	6.26E-02	6.13E-02	1.30E-01
2331	494461.06	3860051.99	0.00879	0.0089	0.00578	0.01269	0.005	0.487	0.0087	0.0089	6.13E-02	1.64E-02	6.02E-07	4.47E-04	1.54E-03	4.58E-02	6.19E-02	6.05E-02	1.27E-01
2332	494511.06	3860051.99	0.00872	0.0088	0.00572	0.01253	0.005	0.28	0.0086	0.0088	6.08E-02	1.63E-02	5.95E-07	4.41E-04	1.55E-03	2.64E-02	6.11E-02	5.98E-02	1.07E-01
2333	494561.06	3860051.99	0.00862	0.00881	0.00571	0.01248	0.005	0.166	0.0086	0.00881	6.01E-02	1.63E-02	5.94E-07	4.39E-04	1.56E-03	1.56E-02	6.12E-02	5.99E-02	9.53E-02
2334	494611.06	3860051.99	0.00854	0.00876	0.00567	0.01237	0.005	0.121	0.0086	0.00876	5.95E-02	1.62E-02	5.90E-07	4.35E-04	1.57E-03	1.14E-02	6.08E-02	5.96E-02	9.04E-02
2335	494661.06	3860051.99	0.00847	0.00869	0.00563	0.01224	0.005	0.098	0.0085	0.00869	5.91E-02	1.60E-02	5.86E-07	4.31E-04	1.58E-03	9.19E-03	6.03E-02	5.91E-02	8.75E-02
2336	494711.06	3860051.99	0.00843	0.00852	0.00554	0.01202	0.005	0.083	0.0084	0.00852	5.88E-02	1.57E-02	5.77E-07	4.23E-04	1.59E-03	7.76E-03	5.92E-02	5.79E-02	8.55E-02
2337	494761.06	3860051.99	0.00836	0.00846	0.0055	0.01191	0.005	0.072	0.0083	0.00846	5.83E-02	1.56E-02	5.73E-07	4.19E-04	1.59E-03	6.79E-03	5.87E-02	5.75E-02	8.39E-02
2338	494811.06	3860051.99	0.00828	0.00844	0.00548	0.01184	0.005	0.065	0.0083	0.00844	5.77E-02	1.56E-02	5.71E-07	4.17E-04	1.60E-03	6.08E-03	5.86E-02	5.74E-02	8.26E-02
2339	494861.06	3860051.99	0.0082	0.00841	0.00545	0.01175	0.005	0.059	0.0082	0.00841	5.72E-02	1.55E-02	5.67E-07	4.14E-04	1.61E-03	5.53E-03	5.83E-02	5.72E-02	8.14E-02
2340	494911.06	3860051.99	0.00816	0.00828	0.00539	0.01158	0.005	0.054	0.0081	0.00828	5.69E-02	1.53E-02	5.61E-07	4.08E-04	1.62E-03	5.06E-03	5.75E-02	5.63E-02	8.04E-02
2341	494961.06	3860051.99	0.00812	0.00815	0.00531	0.0114	0.005	0.05	0.008	0.00815	5.66E-02	1.51E-02	5.53E-07	4.01E-04	1.62E-03	4.66E-03	5.65E-02	5.54E-02	7.95E-02
2342	495011.06	3860051.99	0.00808	0.00804	0.00525	0.01125	0.005	0.046	0.0079	0.00804	5.63E-02	1.48E-02	5.47E-07	3.96E-04	1.63E-03	4.33E-03	5.58E-02	5.47E-02	7.86E-02
2343	495061.06	3860051.99	0.00802	0.00796	0.0052	0.01112	0.005	0.043	0.0078	0.00796	5.59E-02	1.47E-02	5.41E-07	3.91E-04	1.63E-03	4.05E-03	5.52E-02	5.41E-02	7.78E-02
2344	495111.06	3860051.99	0.00798	0.00784	0.00514	0.01096	0.005	0.04	0.0077	0.00784	5.56E-02	1.45E-02	5.35E-07	3.86E-04	1.64E-03	3.80E-03	5.44E-02	5.33E-02	7.70E-02
2345	495161.06	3860051.99	0.00793	0.00776	0.00509	0.01084	0.005	0.038	0.0076	0.00776	5.53E-02	1.43E-02	5.30E-07	3.82E-04	1.64E-03	3.60E-03	5.38E-02	5.28E-02	7.63E-02
2346	495211.06	3860051.99	0.00789	0.00767	0.00504	0.01071	0.005	0.036	0.0075	0.00767	5.50E-02	1.42E-02	5.25E-07	3.77E-04	1.64E-03	3.41E-03	5.32E-02	5.22E-02	7.57E-02
2347	495261.06	3860051.99	0.00783	0.00761	0.005	0.01062	0.005	0.035	0.0075	0.00761	5.46E-02	1.41E-02	5.21E-07	3.74E-04	1.65E-03	3.26E-03	5.28E-02	5.17E-02	7.50E-02
2348	495311.06	3860051.99	0.00778	0.00756	0.00497	0.01053	0.005	0.033	0.0074	0.00756	5.42E-02	1.40E-02	5.17E-07	3.71E-04	1.65E-03	3.12E-03	5.24E-02	5.14E-02	7.44E-02
2349	495361.06	3860051.99	0.00773	0.0075	0.00494	0.01044	0.005	0.032	0.0073	0.0075	5.39E-02	1.39E-02	5.14E-07	3.67E-04	1.65E-03	2.98E-03	5.20E-02	5.10E-02	7.38E-02
2350	495411.06	3860051.99	0.00768	0.00743	0.00489	0.01033	0.005	0.03	0.0073	0.00743	5.35E-02	1.37E-02	5.09E-07	3.64E-04	1.65E-03	2.86E-03	5.15E-02	5.05E-02	7.31E-02
2351	495461.06	3860051.99	0.00764	0.00735	0.00485	0.01022	0.005	0.029	0.0072	0.00735	5.33E-02	1.36E-02	5.05E-07	3.60E-04	1.66E-03	2.74E-03	5.10E-02	5.00E-02	7.26E-02
2352	495511.06	3860051.99	0.00759	0.0073	0.00482	0.01014	0.005	0.028	0.0072	0.0073	5.29E-02	1.35E-02	5.02E-07	3.57E-04	1.66E-03	2.64E-03	5.07E-02	4.96E-02	7.21E-02
2353	495561.06	3860051.99	0.00754	0.00723	0.00478	0.01004	0.005	0.027	0.0071	0.00723	5.26E-02	1.34E-02	4.98E-07	3.53E-04	1.66E-03	2.55E-03	5.02E-02	4.92E-02	7.15E-02
2354	495611.06	3860051.99	0.0075	0.00716	0.00473	0.00992	0.005	0.026	0.007	0.00716	5.23E-02	1.32E-02	4.92E-07	3.49E-04	1.66E-03	2.45E-03	4.97E-02	4.87E-02	7.10E-02
2355	495661.06	3860051.99	0.00746	0.00707	0.00468	0.00979	0.005	0.025	0.0069	0.00707	5.20E-02	1.31E-02	4.87E-07	3.45E-04	1.66E-03	2.36E-03	4.90E-02	4.81E-02	7.04E-02
2356	494411.06	3860101.99	0.00866	0.00916	0.00573	0.01264	0.005	0.268	0.009	0.00916	6.04E-02	1.69E-02	5.97E-07	4.45E-04	1.46E-03	2.52E-02	6.37E-02	6.23E-02	1.06E-01
2357	494461.06	3860101.99	0.00856	0.00915	0.00572	0.01257	0.005	0.194	0.009	0.00915	5.97E-02	1.69E-02	5.95E-07	4.42E-04	1.47E-03	1.83E-02	6.36E-02	6.22E-02	9.81E-02
2358	494511.06	3860101.99	0.00851	0.00899	0.00564	0.01236	0.005	0.153	0.0088	0.00899	5.93E-02	1.66E-02	5.87E-07	4.35E-04	1.48E-03	1.44E-02	6.26E-02	6.11E-02	9.36E-02
2359	494561.06	3860101.99	0.00843	0.00895	0.0056	0.01226	0.005	0.124	0.0088	0.00895	5.88E-02	1.65E-02	5.83E-07	4.32E-04	1.49E-03	1.17E-02	6.22E-02	6.09E-02	9.03E-02
2360	494611.06	3860101.99	0.00833	0.00896	0.00559	0.01221	0.005	0.104	0.0088	0.00896	5.81E-02	1.65E-02	5.82E-07	4.30E-04	1.50E-03	9.80E-03	6.22E-02	6.09E-02	8.76E-02
2361	494661.06	3860101.99	0.00826	0.0089	0.00556	0.0121	0.005	0.09	0.0087	0.0089	5.76E-02	1.64E-02	5.79E-07	4.26E-04	1.51E-03	8.42E-03	6.19E-02	6.05E-02	8.57E-02
2362	494711.06	3860101.99	0.00821	0.00875	0.00548	0.01191	0.005	0.078	0.0086	0.00875	5.72E-02	1.62E-02	5.71E-07	4.19E-04	1.52E-03	7.36E-03	6.08E-02	5.95E-02	8.40E-02
2363	494761.06	3860101.99	0.00815	0.00869	0.00544	0.0118	0.005	0.07	0.0085	0.00869	5.68E-02	1.60E-02	5.66E-07	4.15E-04	1.53E-03	6.55E-03	6.03E-02	5.91E-02	8.26E-02
2364	494811.06	3860101.99	0.00808	0.00863	0.0054	0.01169	0.005	0.063	0.0085	0.00863	5.63E-02	1.59E-02	5.62E-07	4.11E-04	1.54E-03	5.92E-03	5.99E-02	5.87E-02	8.14E-02
2365	494861.06	3860101.99	0.00797	0.00868	0.00542	0.01169	0.005	0.058	0.0085	0.00868	5.56E-02	1.60E-02	5.64E-07	4.11E-04	1.54E-03	5.43E-03	6.03E-02	5.90E-02	8.03E-02
2366	494911.06	3860101.99	0.00798	0.00843	0.00529	0.01141	0.005	0.053	0.0083	0.00843	5.56E-02	1.56E-02	5.51E-07	4.02E-04	1.55E-03	4.94E-03	5.85E-02	5.73E-02	7.92E-02
2367	494961.06	3860101.99	0.00792	0.00836	0.00525	0.0113	0.005	0.049	0.0082	0.00836	5.52E-02	1.54E-02	5.47E-07	3.98E-04	1.56E-03	4.58E-03	5.80E-02	5.68E-02	7.83E-02
2368	495011.06	3860101.99	0.00788	0.00824	0.00519	0.01115	0.005	0.045	0.0081	0.00824	5.49E-02	1.52E-02	5.40E-07	3.92E-04	1.57E-03	4.25E-03	5.72E-02	5.60E-02	7.75E-02
2369	495061.06	3860101.99	0.00783	0.00814	0.00513	0.01101	0.005	0.042	0.008	0.00814	5.46E-02	1.50E-02	5.34E-07	3.88E-04	1.57E-03	3.97E-03	5.65E-02	5.54E-02	7.67E-02
2370	495111.06	3860101.99	0.0078	0.00802	0.00507	0.01085	0.005	0.04	0.0079	0.00802	5.44E-02	1.48E-02	5.28E-07	3.82E-04	1.58E-03	3.72E-03	5.56E-02	5.45E-02	7.60E-02
2371	495161.06	3860101.99	0.00774	0.00796	0.00503	0.01076	0.005	0.037	0.0078	0.00796	5.40E-02	1.47E-02	5.24E-07	3.79E-04	1.58E-03	3.52E-03	5.53E-02	5.41E-02	7.53E-02
2372	495211.06	3860101.99	0.00769	0.00789	0.00499	0.01065	0.005	0.036	0.0077	0.00789	5.36E-02	1.46E-02	5.19E-07	3.75E-04	1.59E-03	3.34E-03	5.47E-02	5.37E-02	7.45E-02
2373	495261.06	3860101.99	0.00765	0.00781	0.00494	0.01054	0.005	0.034	0.0077	0.00781	5.33E-02	1.44E-02	5.14E-07	3.71E-04	1.59E-03	3.18E-03	5.42E-02	5.31E-02	7.40E-02
2374	495311.06	3860101.99	0.0076	0.00774	0.00491	0.01044	0.005	0.032	0.0076	0.00774	5.30E-02	1.43E-02	5.11E-07	3.67E-04	1.59E-03	3.03E-03	5.37E-02	5.26E-02	7.33E-02

2375	495361.06	3860101.99	0.00755	0.0077	0.00488	0.01037	0.005	0.031	0.0075	0.0077	5.26E-02	1.42E-02	5.08E-07	3.65E-04	1.60E-03	2.90E-03	5.34E-02	5.24E-02	7.28E-02
2376	495411.06	3860101.99	0.0075	0.00762	0.00483	0.01026	0.005	0.03	0.0075	0.00762	5.23E-02	1.41E-02	5.03E-07	3.61E-04	1.60E-03	2.78E-03	5.29E-02	5.18E-02	7.21E-02
2377	495461.06	3860101.99	0.00747	0.00751	0.00478	0.01013	0.005	0.028	0.0074	0.00751	5.21E-02	1.39E-02	4.98E-07	3.57E-04	1.60E-03	2.65E-03	5.21E-02	5.11E-02	7.16E-02
2378	495511.06	3860101.99	0.00742	0.00747	0.00475	0.01006	0.005	0.027	0.0073	0.00747	5.17E-02	1.38E-02	4.95E-07	3.54E-04	1.61E-03	2.56E-03	5.19E-02	5.08E-02	7.11E-02
2379	495561.06	3860101.99	0.00737	0.00743	0.00472	0.00999	0.005	0.026	0.0073	0.00743	5.14E-02	1.37E-02	4.91E-07	3.52E-04	1.61E-03	2.47E-03	5.15E-02	5.05E-02	7.05E-02
2380	495611.06	3860101.99	0.00734	0.00733	0.00467	0.00986	0.005	0.025	0.0072	0.00733	5.12E-02	1.35E-02	4.86E-07	3.47E-04	1.61E-03	2.37E-03	5.09E-02	4.98E-02	7.01E-02
2381	495661.06	3860101.99	0.00729	0.00726	0.00463	0.00977	0.005	0.024	0.0071	0.00726	5.08E-02	1.34E-02	4.82E-07	3.44E-04	1.61E-03	2.29E-03	5.04E-02	4.94E-02	6.95E-02
2382	494861.06	3860151.99	0.00774	0.00898	0.00539	0.01158	0.005	0.055	0.0088	0.00898	5.40E-02	1.66E-02	5.61E-07	4.08E-04	1.47E-03	5.20E-03	6.24E-02	6.11E-02	7.89E-02
2383	494911.06	3860151.99	0.00776	0.00868	0.00525	0.01132	0.005	0.05	0.0085	0.00868	5.41E-02	1.60E-02	5.47E-07	3.98E-04	1.49E-03	4.75E-03	6.03E-02	5.90E-02	7.80E-02
2384	494961.06	3860151.99	0.00772	0.00858	0.0052	0.01118	0.005	0.047	0.0084	0.00858	5.38E-02	1.58E-02	5.41E-07	3.93E-04	1.49E-03	4.39E-03	5.96E-02	5.83E-02	7.72E-02
2385	495011.06	3860151.99	0.00768	0.00846	0.00514	0.01105	0.005	0.043	0.0083	0.00846	5.35E-02	1.56E-02	5.35E-07	3.89E-04	1.50E-03	4.08E-03	5.87E-02	5.75E-02	7.63E-02
2386	495061.06	3860151.99	0.00764	0.00835	0.00508	0.01091	0.005	0.041	0.0082	0.00835	5.33E-02	1.54E-02	5.29E-07	3.84E-04	1.51E-03	3.81E-03	5.80E-02	5.68E-02	7.56E-02
2387	495111.06	3860151.99	0.00759	0.00827	0.00503	0.01079	0.005	0.038	0.0081	0.00827	5.29E-02	1.53E-02	5.24E-07	3.80E-04	1.52E-03	3.58E-03	5.74E-02	5.62E-02	7.48E-02
2388	495161.06	3860151.99	0.00755	0.00819	0.00499	0.01069	0.005	0.036	0.008	0.00819	5.26E-02	1.51E-02	5.19E-07	3.76E-04	1.53E-03	3.38E-03	5.69E-02	5.57E-02	7.43E-02
2389	495211.06	3860151.99	0.0075	0.0081	0.00494	0.01057	0.005	0.034	0.0079	0.0081	5.23E-02	1.50E-02	5.14E-07	3.72E-04	1.53E-03	3.21E-03	5.63E-02	5.51E-02	7.35E-02
2390	495261.06	3860151.99	0.00746	0.00804	0.0049	0.01048	0.005	0.032	0.0079	0.00804	5.20E-02	1.48E-02	5.10E-07	3.69E-04	1.54E-03	3.05E-03	5.58E-02	5.47E-02	7.29E-02
2391	495311.06	3860151.99	0.00741	0.00797	0.00486	0.01038	0.005	0.031	0.0078	0.00797	5.17E-02	1.47E-02	5.06E-07	3.65E-04	1.54E-03	2.91E-03	5.53E-02	5.42E-02	7.23E-02
2392	495361.06	3860151.99	0.00736	0.00791	0.00483	0.01029	0.005	0.03	0.0077	0.00791	5.13E-02	1.46E-02	5.03E-07	3.62E-04	1.54E-03	2.79E-03	5.48E-02	5.38E-02	7.17E-02
2393	495411.06	3860151.99	0.00732	0.00783	0.00479	0.01019	0.005	0.028	0.0077	0.00783	5.10E-02	1.45E-02	4.99E-07	3.59E-04	1.55E-03	2.67E-03	5.43E-02	5.32E-02	7.12E-02
2394	495461.06	3860151.99	0.00728	0.00776	0.00475	0.01009	0.005	0.027	0.0076	0.00776	5.08E-02	1.43E-02	4.95E-07	3.55E-04	1.55E-03	2.56E-03	5.38E-02	5.28E-02	7.06E-02
2395	495511.06	3860151.99	0.00724	0.00767	0.0047	0.00999	0.005	0.026	0.0075	0.00767	5.05E-02	1.42E-02	4.89E-07	3.52E-04	1.56E-03	2.46E-03	5.32E-02	5.22E-02	7.01E-02
2396	495561.06	3860151.99	0.0072	0.00761	0.00467	0.00991	0.005	0.025	0.0075	0.00761	5.02E-02	1.41E-02	4.86E-07	3.49E-04	1.56E-03	2.37E-03	5.29E-02	5.17E-02	6.96E-02
2397	495611.06	3860151.99	0.00716	0.00753	0.00462	0.0098	0.005	0.024	0.0074	0.00753	4.99E-02	1.39E-02	4.81E-07	3.45E-04	1.56E-03	2.29E-03	5.23E-02	5.12E-02	6.91E-02
2398	495661.06	3860151.99	0.00713	0.00745	0.00458	0.0097	0.005	0.024	0.0073	0.00745	4.97E-02	1.38E-02	4.77E-07	3.41E-04	1.56E-03	2.21E-03	5.17E-02	5.07E-02	6.86E-02
2399	495718.25	3859442.96	0.009	0.00522	0.00507	0.00973	0.007	0.034	0.0052	0.00522	6.27E-02	9.64E-03	5.28E-07	3.42E-04	2.09E-03	3.20E-03	3.67E-02	3.55E-02	7.92E-02
2400	495818.25	3859442.96	0.00885	0.00512	0.00495	0.00951	0.007	0.032	0.0051	0.00512	6.17E-02	9.46E-03	5.15E-07	3.35E-04	2.06E-03	2.98E-03	3.61E-02	3.48E-02	7.78E-02
2401	495918.25	3859442.96	0.00871	0.00505	0.00485	0.00933	0.007	0.03	0.005	0.00505	6.07E-02	9.33E-03	5.05E-07	3.28E-04	2.05E-03	2.79E-03	3.56E-02	3.43E-02	7.64E-02
2402	496018.25	3859442.96	0.00858	0.00499	0.00477	0.00918	0.007	0.028	0.005	0.00499	5.98E-02	9.22E-03	4.97E-07	3.23E-04	2.04E-03	2.63E-03	3.51E-02	3.39E-02	7.52E-02
2403	496118.25	3859442.96	0.00849	0.00498	0.00475	0.00916	0.007	0.027	0.005	0.00498	5.92E-02	9.20E-03	4.95E-07	3.22E-04	2.06E-03	2.51E-03	3.51E-02	3.39E-02	7.45E-02
2404	496218.25	3859442.96	0.00839	0.00497	0.00472	0.00912	0.007	0.026	0.0049	0.00497	5.85E-02	9.18E-03	4.91E-07	3.21E-04	2.07E-03	2.40E-03	3.50E-02	3.38E-02	7.37E-02
2405	496318.25	3859442.96	0.00827	0.00492	0.00464	0.00898	0.007	0.024	0.0049	0.00492	5.77E-02	9.09E-03	4.83E-07	3.16E-04	2.06E-03	2.28E-03	3.46E-02	3.35E-02	7.26E-02
2406	496418.25	3859442.96	0.00816	0.00486	0.00456	0.00884	0.007	0.023	0.0048	0.00486	5.69E-02	8.98E-03	4.75E-07	3.11E-04	2.05E-03	2.18E-03	3.42E-02	3.30E-02	7.16E-02
2407	495718.25	3859542.96	0.00883	0.00546	0.00503	0.00981	0.007	0.031	0.0054	0.00546	6.16E-02	1.01E-02	5.24E-07	3.45E-04	2.04E-03	2.88E-03	3.83E-02	3.71E-02	7.81E-02
2408	495818.25	3859542.96	0.00869	0.00538	0.00493	0.00963	0.006	0.029	0.0053	0.00538	6.06E-02	9.94E-03	5.13E-07	3.39E-04	2.03E-03	2.68E-03	3.78E-02	3.66E-02	7.68E-02
2409	495918.25	3859542.96	0.00856	0.00529	0.00482	0.00942	0.006	0.027	0.0052	0.00529	5.97E-02	9.77E-03	5.02E-07	3.32E-04	2.01E-03	2.52E-03	3.71E-02	3.60E-02	7.55E-02
2410	496018.25	3859542.96	0.00843	0.00521	0.00472	0.00924	0.006	0.025	0.0052	0.00521	5.88E-02	9.62E-03	4.91E-07	3.25E-04	2.00E-03	2.38E-03	3.66E-02	3.54E-02	7.42E-02
2411	496118.25	3859542.96	0.00833	0.0052	0.0047	0.00922	0.006	0.024	0.0052	0.0052	5.81E-02	9.60E-03	4.89E-07	3.25E-04	2.01E-03	2.28E-03	3.65E-02	3.54E-02	7.34E-02
2412	496218.25	3859542.96	0.00822	0.00517	0.00467	0.00916	0.006	0.023	0.0051	0.00517	5.73E-02	9.55E-03	4.86E-07	3.22E-04	2.02E-03	2.18E-03	3.63E-02	3.52E-02	7.26E-02
2413	496318.25	3859542.96	0.00811	0.00514	0.00462	0.00907	0.006	0.022	0.0051	0.00514	5.65E-02	9.49E-03	4.81E-07	3.19E-04	2.02E-03	2.10E-03	3.61E-02	3.50E-02	7.17E-02
2414	496418.25	3859542.96	0.008	0.00506	0.00452	0.00889	0.006	0.021	0.005	0.00506	5.58E-02	9.35E-03	4.71E-07	3.13E-04	2.01E-03	2.01E-03	3.56E-02	3.44E-02	7.06E-02
2415	495718.25	3859642.96	0.00863	0.00571	0.00499	0.00981	0.006	0.028	0.0056	0.00571	6.02E-02	1.05E-02	5.19E-07	3.45E-04	1.98E-03	2.68E-03	4.00E-02	3.88E-02	7.68E-02
2416	495818.25	3859642.96	0.0085	0.00561	0.00488	0.0096	0.006	0.027	0.0055	0.00561	5.93E-02	1.04E-02	5.08E-07	3.38E-04	1.96E-03	2.50E-03	3.93E-02	3.81E-02	7.55E-02
2417	495918.25	3859642.96	0.00836	0.00553	0.0048	0.00945	0.006	0.025	0.0055	0.00553	5.83E-02	1.02E-02	5.00E-07	3.33E-04	1.96E-03	2.36E-03	3.88E-02	3.76E-02	7.43E-02
2418	496018.25	3859642.96	0.00824	0.00545	0.00469	0.00927	0.006	0.024	0.0054	0.00545	5.74E-02	1.01E-02	4.88E-07	3.26E-04	1.95E-03	2.24E-03	3.82E-02	3.71E-02	7.32E-02
2419	496118.25	3859642.96	0.00815	0.00545	0.0047	0.00928	0.006	0.023	0.0054	0.00545	5.68E-02	1.01E-02	4.89E-07	3.27E-04	1.97E-03	2.15E-03	3.82E-02	3.71E-02	7.25E-02
2420	496218.25	3859642.96	0.00805	0.00544	0.00468	0.00924	0.006	0.022	0.0054	0.00544	5.61E-02	1.00E-02	4.87E-07	3.25E-04	1.97E-03	2.07E-03	3.80E-02	3.70E-02	7.16E-02
2421	496318.25	3859642.96	0.00794	0.00536	0.00459	0.00909	0.006	0.021	0.0053	0.00536	5.54E-02	9.90E-03	4.78E-07	3.20E-04	1.97E-03	1.99E-03	3.76E-02	3.64E-02	7.07E-02
2422	496418.25	3859642.96	0.00779	0.00517	0.00438	0.00869	0.006	0.02	0.0051	0.00517	5.43E-02	9.55E-03	4.56E-07	3.06E-04	1.91E-03	1.87E-03	3.63E-02	3.52E-02	6.91E-02
2423	495718.25	3859742.96	0.00838	0.00603	0.00498	0.00987	0.006	0.027	0.0059	0.00603	5.84E-02	1.11E-02	5.18E-07	3.47E-04	1.91E-03	2.55E-03	4.20E-02	4.10E-02	7.54E-02
2424	495818.25	3859742.96	0.00828	0.0059	0.00486	0.00963	0.006	0.025	0.0058	0.0059	5.77E-02	1.09E-02	5.06E-07	3.39E-04	1.90E-03	2.39E-03	4.12E-02	4.01E-02	7.43E-02
2425	495918.25	3859742.96	0.00816	0.0058	0.00476	0.00945	0.006	0.024	0.0057	0.0058	5.69E-02	1.07E-02	4.96E-07	3.33E-04	1.89E-03	2.26E-03	4.05E-02	3.94E-02	7.32E-02
2426	496018.25	3859742.96	0.00804	0.0057	0.00467	0.00926	0.006	0.023	0.0056	0.0057	5.61E-02	1.05E-02	4.86E-07	3.26E-04	1.88E-03	2.15E-03	3.99E-02	3.88E-02	7.21E-02
2427	496118.25	3859742.96	0.00794	0.0057	0.00465	0.00925	0.006	0.022	0.0056	0.0057	5.54E-02	1.05E-02	4.84E-07	3.26E-04	1.90E-03	2.07E-03	3.98E-02	3.88E-02	7.12E-02
2428	496218.25	3859742.96	0.00783	0.00571	0.00466	0.00926	0.006	0.021	0.0056	0.00571	5.46E-02	1.05E-02	4.85E-07	3.26E-04	1.91E-03	2.01E-03	3.99E-02	3.88E-02	7.04E-02
2429	496318.25	3859742.96	0.00773	0.00552	0.00448	0.00891	0.006	0.02	0.0055	0.00552	5.39E-02	1.02E-02	4.66E-07	3.14E-04	1.88E-03	1.89E-03	3.86E-02	3.75E-02	6.92E-02
2430	496418.25	3859742.96	0.00761	0.00533	0.00429	0.0086	0.006	0.019	0.0053	0.00533	5.31E-02	9.84E-03	4.47E-07	3.03E-04	1.84E-03	1.78E-03	3.74E-02	3.62E-02	6.80E-02
2431	495718.25	3859842.96	0.00808	0.00633	0.0049	0.00985	0.006	0.026	0.0062	0.00633	5.63E-02	1.17E-02	5.10E-07	3.47E-04	1.83E-03	2.45E-03	4.40E-02	4.30E-02	7.36E-02
2432	495818.25	3859842.96	0.00798	0.00622	0.00481	0.00966	0.006	0.025	0.0061	0.00622	5.56E-02	1.15E-02	5.01E-07	3.40E-04	1.83E-03	2.32E-03	4.33E-02	4.23E-02	7.26E-02

2433	495918.25	3859842.96	0.00788	0.00611	0.00472	0.00947	0.006	0.023	0.006	0.00611	5.49E-02	1.13E-02	4.91E-07	3.33E-04	1.82E-03	2.20E-03	4.26E-02	4.15E-02	7.16E-02
2434	496018.25	3859842.96	0.00777	0.00604	0.00466	0.00934	0.006	0.022	0.0059	0.00604	5.42E-02	1.12E-02	4.85E-07	3.29E-04	1.82E-03	2.10E-03	4.21E-02	4.11E-02	7.06E-02
2435	496118.25	3859842.96	0.00765	0.00605	0.00467	0.00936	0.006	0.022	0.006	0.00605	5.33E-02	1.12E-02	4.86E-07	3.29E-04	1.83E-03	2.04E-03	4.22E-02	4.11E-02	6.97E-02
2436	496218.25	3859842.96	0.00758	0.00587	0.00451	0.00903	0.006	0.02	0.0058	0.00587	5.28E-02	1.08E-02	4.70E-07	3.18E-04	1.81E-03	1.92E-03	4.10E-02	3.99E-02	6.88E-02
2437	496318.25	3859842.96	0.00748	0.00553	0.00423	0.00847	0.006	0.019	0.0055	0.00553	5.21E-02	1.02E-02	4.40E-07	2.98E-04	1.75E-03	1.76E-03	3.87E-02	3.76E-02	6.73E-02
2438	496418.25	3859842.96	0.00734	0.00533	0.00404	0.0081	0.005	0.018	0.0053	0.00533	5.12E-02	9.84E-03	4.21E-07	2.85E-04	1.70E-03	1.65E-03	3.74E-02	3.62E-02	6.58E-02
2439	495718.25	3859942.96	0.00777	0.00663	0.00478	0.00979	0.006	0.025	0.0065	0.00663	5.42E-02	1.22E-02	4.98E-07	3.45E-04	1.75E-03	2.38E-03	4.61E-02	4.51E-02	7.19E-02
2440	495818.25	3859942.96	0.00767	0.00651	0.00469	0.00959	0.006	0.024	0.0064	0.00651	5.35E-02	1.20E-02	4.88E-07	3.38E-04	1.74E-03	2.25E-03	4.53E-02	4.43E-02	7.08E-02
2441	495918.25	3859942.96	0.00758	0.00642	0.00463	0.00943	0.006	0.023	0.0063	0.00642	5.28E-02	1.19E-02	4.82E-07	3.32E-04	1.74E-03	2.13E-03	4.46E-02	4.37E-02	6.99E-02
2442	496018.25	3859942.96	0.00746	0.00641	0.00462	0.00939	0.006	0.022	0.0063	0.00641	5.20E-02	1.18E-02	4.81E-07	3.30E-04	1.75E-03	2.06E-03	4.46E-02	4.36E-02	6.90E-02
2443	496118.25	3859942.96	0.0074	0.00623	0.00449	0.00912	0.006	0.021	0.0061	0.00623	5.16E-02	1.15E-02	4.67E-07	3.21E-04	1.74E-03	1.94E-03	4.34E-02	4.24E-02	6.82E-02
2444	496218.25	3859942.96	0.00734	0.00597	0.00431	0.00873	0.005	0.019	0.0059	0.00597	5.12E-02	1.10E-02	4.49E-07	3.07E-04	1.71E-03	1.80E-03	4.17E-02	4.06E-02	6.71E-02
2445	496318.25	3859942.96	0.00727	0.00573	0.00412	0.00833	0.005	0.018	0.0057	0.00573	5.07E-02	1.06E-02	4.29E-07	2.93E-04	1.68E-03	1.68E-03	4.00E-02	3.90E-02	6.60E-02
2446	496418.25	3859942.96	0.00712	0.00545	0.00389	0.00785	0.005	0.017	0.0054	0.00545	4.96E-02	1.01E-02	4.05E-07	2.76E-04	1.62E-03	1.55E-03	3.82E-02	3.71E-02	6.43E-02
2447	496856.82	3858864.83	0.00781	0.00383	0.00436	0.00778	0.007	0.029	0.0038	0.00383	5.44E-02	7.07E-03	4.54E-07	2.74E-04	2.07E-03	2.71E-03	2.71E-02	2.60E-02	6.77E-02
2448	496956.82	3858864.83	0.00769	0.0038	0.0043	0.00766	0.007	0.027	0.0038	0.0038	5.36E-02	7.02E-03	4.48E-07	2.70E-04	2.05E-03	2.49E-03	2.69E-02	2.58E-02	6.65E-02
2449	497056.82	3858864.83	0.00758	0.00376	0.00423	0.00755	0.006	0.025	0.0038	0.00376	5.28E-02	6.94E-03	4.40E-07	2.66E-04	2.02E-03	2.31E-03	2.67E-02	2.56E-02	6.55E-02
2450	497156.82	3858864.83	0.00745	0.00372	0.00416	0.00741	0.006	0.023	0.0037	0.00372	5.19E-02	6.87E-03	4.33E-07	2.61E-04	1.98E-03	2.15E-03	2.64E-02	2.53E-02	6.43E-02
2451	497256.82	3858864.83	0.00738	0.00371	0.00412	0.00734	0.006	0.022	0.0037	0.00371	5.15E-02	6.85E-03	4.29E-07	2.58E-04	1.97E-03	2.03E-03	2.63E-02	2.52E-02	6.36E-02
2452	496856.82	3858964.83	0.00787	0.00395	0.00436	0.00787	0.007	0.027	0.004	0.00395	5.49E-02	7.30E-03	4.54E-07	2.77E-04	2.08E-03	2.55E-03	2.80E-02	2.69E-02	6.82E-02
2453	496956.82	3858964.83	0.00773	0.0039	0.00428	0.00772	0.007	0.025	0.0039	0.0039	5.39E-02	7.20E-03	4.46E-07	2.72E-04	2.05E-03	2.35E-03	2.76E-02	2.65E-02	6.69E-02
2454	497056.82	3858964.83	0.00761	0.00386	0.00421	0.00759	0.006	0.023	0.0039	0.00386	5.31E-02	7.13E-03	4.38E-07	2.67E-04	2.01E-03	2.19E-03	2.73E-02	2.62E-02	6.58E-02
2455	497156.82	3858964.83	0.00749	0.00382	0.00414	0.00747	0.006	0.022	0.0038	0.00382	5.22E-02	7.06E-03	4.31E-07	2.63E-04	1.99E-03	2.04E-03	2.71E-02	2.60E-02	6.47E-02
2456	497256.82	3858964.83	0.00747	0.00383	0.00413	0.00747	0.006	0.021	0.0038	0.00383	5.21E-02	7.07E-03	4.30E-07	2.63E-04	2.00E-03	1.94E-03	2.72E-02	2.60E-02	6.45E-02
2457	496856.82	3859064.83	0.00786	0.00404	0.00432	0.00788	0.007	0.025	0.0041	0.00404	5.48E-02	7.46E-03	4.50E-07	2.77E-04	2.06E-03	2.35E-03	2.87E-02	2.75E-02	6.82E-02
2458	496956.82	3859064.83	0.00773	0.004	0.00424	0.00775	0.007	0.023	0.004	0.004	5.39E-02	7.39E-03	4.41E-07	2.73E-04	2.04E-03	2.18E-03	2.83E-02	2.72E-02	6.69E-02
2459	497056.82	3859064.83	0.00762	0.00396	0.00418	0.00764	0.006	0.022	0.004	0.00396	5.31E-02	7.31E-03	4.35E-07	2.69E-04	2.01E-03	2.04E-03	2.81E-02	2.69E-02	6.60E-02
2460	497156.82	3859064.83	0.00752	0.00393	0.00412	0.00754	0.006	0.021	0.0039	0.00393	5.24E-02	7.26E-03	4.29E-07	2.65E-04	1.99E-03	1.93E-03	2.79E-02	2.67E-02	6.51E-02
2461	497256.82	3859064.83	0.00752	0.00396	0.00412	0.00759	0.006	0.02	0.004	0.00396	5.24E-02	7.31E-03	4.29E-07	2.67E-04	2.01E-03	1.85E-03	2.81E-02	2.69E-02	6.50E-02
2462	496856.82	3859164.83	0.00778	0.00413	0.00424	0.00784	0.006	0.023	0.0041	0.00413	5.42E-02	7.63E-03	4.41E-07	2.76E-04	2.01E-03	2.16E-03	2.92E-02	2.81E-02	6.74E-02
2463	496956.82	3859164.83	0.00765	0.00408	0.00417	0.0077	0.006	0.022	0.0041	0.00408	5.33E-02	7.54E-03	4.34E-07	2.71E-04	1.99E-03	2.03E-03	2.89E-02	2.77E-02	6.63E-02
2464	497056.82	3859164.83	0.00756	0.00405	0.00412	0.00762	0.006	0.02	0.0041	0.00405	5.27E-02	7.48E-03	4.29E-07	2.68E-04	1.98E-03	1.92E-03	2.87E-02	2.75E-02	6.55E-02
2465	497156.82	3859164.83	0.00752	0.00405	0.0041	0.00761	0.006	0.019	0.0041	0.00405	5.24E-02	7.48E-03	4.27E-07	2.68E-04	1.99E-03	1.83E-03	2.88E-02	2.75E-02	6.52E-02
2466	497256.82	3859164.83	0.00752	0.0041	0.00412	0.00769	0.006	0.019	0.0041	0.0041	5.24E-02	7.57E-03	4.29E-07	2.71E-04	2.02E-03	1.76E-03	2.90E-02	2.79E-02	6.52E-02
2467	496856.82	3859264.83	0.00767	0.0042	0.00414	0.00775	0.006	0.021	0.0042	0.0042	5.35E-02	7.76E-03	4.31E-07	2.73E-04	1.94E-03	1.99E-03	2.97E-02	2.86E-02	6.66E-02
2468	496956.82	3859264.83	0.00759	0.00418	0.0041	0.00769	0.006	0.02	0.0042	0.00418	5.29E-02	7.72E-03	4.27E-07	2.71E-04	1.95E-03	1.89E-03	2.96E-02	2.84E-02	6.59E-02
2469	497056.82	3859264.83	0.00754	0.00419	0.00408	0.00768	0.006	0.019	0.0042	0.00419	5.26E-02	7.74E-03	4.25E-07	2.70E-04	1.96E-03	1.81E-03	2.96E-02	2.85E-02	6.55E-02
2470	497156.82	3859264.83	0.00749	0.00419	0.00406	0.00766	0.006	0.019	0.0042	0.00419	5.22E-02	7.74E-03	4.23E-07	2.70E-04	1.98E-03	1.74E-03	2.96E-02	2.85E-02	6.51E-02
2471	497256.82	3859264.83	0.00746	0.00422	0.00407	0.00772	0.006	0.018	0.0042	0.00422	5.20E-02	7.79E-03	4.24E-07	2.72E-04	2.01E-03	1.68E-03	2.98E-02	2.87E-02	6.49E-02
2472	497088.92	3858620.93	0.00726	0.00349	0.00409	0.00728	0.006	0.027	0.0035	0.00349	5.06E-02	6.45E-03	4.26E-07	2.56E-04	1.97E-03	2.51E-03	2.47E-02	2.37E-02	6.28E-02
2473	497138.92	3858620.93	0.00724	0.00349	0.00407	0.00725	0.006	0.026	0.0035	0.00349	5.05E-02	6.45E-03	4.24E-07	2.55E-04	1.97E-03	2.41E-03	2.47E-02	2.37E-02	6.26E-02
2474	497188.92	3858620.93	0.00717	0.00348	0.00408	0.00719	0.006	0.025	0.0035	0.00348	5.00E-02	6.43E-03	4.25E-07	2.53E-04	1.96E-03	2.32E-03	2.47E-02	2.37E-02	6.19E-02
2475	497238.92	3858620.93	0.00713	0.00347	0.00405	0.00714	0.006	0.024	0.0035	0.00347	4.97E-02	6.41E-03	4.22E-07	2.51E-04	1.95E-03	2.23E-03	2.46E-02	2.36E-02	6.15E-02
2476	497088.92	3858670.93	0.00725	0.00353	0.00412	0.00727	0.006	0.026	0.0035	0.00353	5.05E-02	6.52E-03	4.29E-07	2.56E-04	1.96E-03	2.43E-03	2.50E-02	2.40E-02	6.27E-02
2477	497138.92	3858670.93	0.00725	0.00353	0.00411	0.00726	0.006	0.025	0.0035	0.00353	5.05E-02	6.52E-03	4.28E-07	2.56E-04	1.96E-03	2.35E-03	2.50E-02	2.40E-02	6.26E-02
2478	497188.92	3858670.93	0.00719	0.00351	0.00408	0.0072	0.006	0.024	0.0035	0.00351	5.01E-02	6.48E-03	4.25E-07	2.53E-04	1.95E-03	2.26E-03	2.49E-02	2.39E-02	6.21E-02
2479	497238.92	3858670.93	0.00717	0.00351	0.00406	0.00717	0.006	0.023	0.0035	0.00351	5.00E-02	6.48E-03	4.23E-07	2.52E-04	1.94E-03	2.19E-03	2.49E-02	2.39E-02	6.19E-02
2480	497088.92	3858720.93	0.00739	0.00359	0.00415	0.00735	0.006	0.025	0.0036	0.00359	5.15E-02	6.63E-03	4.32E-07	2.59E-04	2.00E-03	2.38E-03	2.54E-02	2.44E-02	6.38E-02
2481	497138.92	3858720.93	0.00722	0.00355	0.00409	0.00723	0.006	0.024	0.0036	0.00355	5.03E-02	6.56E-03	4.26E-07	2.54E-04	1.93E-03	2.28E-03	2.52E-02	2.41E-02	6.24E-02
2482	497188.92	3858720.93	0.00718	0.00354	0.00406	0.00718	0.006	0.023	0.0035	0.00354	5.01E-02	6.54E-03	4.23E-07	2.53E-04	1.92E-03	2.20E-03	2.51E-02	2.41E-02	6.20E-02
2483	497238.92	3858720.93	0.00725	0.00355	0.00407	0.00721	0.006	0.023	0.0036	0.00355	5.05E-02	6.56E-03	4.24E-07	2.54E-04	1.96E-03	2.15E-03	2.52E-02	2.41E-02	6.25E-02
2484	497088.92	3858770.93	0.00741	0.00363	0.00415	0.00737	0.006	0.025	0.0036	0.00363	5.17E-02	6.70E-03	4.32E-07	2.59E-04	1.99E-03	2.33E-03	2.57E-02	2.47E-02	6.40E-02
2485	497138.92	3858770.93	0.00735	0.00361	0.00411	0.0073	0.006	0.024	0.0036	0.00361	5.12E-02	6.67E-03	4.28E-07	2.57E-04	1.97E-03	2.25E-03	2.56E-02	2.45E-02	6.34E-02
2486	497188.92	3858770.93	0.00731	0.00359	0.00407	0.00725	0.006	0.023	0.0036	0.00359	5.10E-02	6.63E-03	4.24E-07	2.55E-04	1.96E-03	2.17E-03	2.54E-02	2.44E-02	6.30E-02
2487	497238.92	3858770.93	0.00733	0.0036	0.00408	0.00725	0.006	0.022	0.0036	0.0036	5.11E-02	6.65E-03	4.25E-07	2.55E-04	1.96E-03	2.11E-03	2.56E-02	2.45E-02	6.32E-02
2488	497396.65	3858622.63	0.00729	0.00352	0.00407	0.00723	0.006	0.022	0.0035	0.00352	5.08E-02	6.50E-03	4.24E-07	2.54E-04	2.01E-03	2.05E-03	2.50E-02	2.39E-02	6.27E-02
2489	497496.65	3858622.63	0.00734	0.00355	0.00408	0.00728	0.007	0.021	0.0036	0.00355	5.12E-02	6.56E-03	4.25E-07	2.56E-04	2.04E-03	1.95E-03	2.52E-02	2.41E-02	6.31E-02
2490	497596.65	3858622.63	0.00747	0.00361	0.00415	0.00741	0.007	0.02	0.0036	0.00361	5.21E-02	6.67E-03	4.32E-07	2.61E-04	2.09E-03	1.88E-03	2.57E-02	2.45E-02	6.41E-02

2491	497696.65	3858622.63	0.00745	0.00364	0.00415	0.00742	0.007	0.019	0.0037	0.00364	5.19E-02	6.72E-03	4.32E-07	2.61E-04	2.10E-03	1.80E-03	2.59E-02	2.48E-02	6.39E-02
2492	497796.65	3858622.63	0.00748	0.00368	0.00417	0.00749	0.007	0.018	0.0037	0.00368	5.21E-02	6.80E-03	4.34E-07	2.64E-04	2.13E-03	1.73E-03	2.62E-02	2.50E-02	6.43E-02
2493	497896.65	3858622.63	0.00751	0.00372	0.0042	0.00756	0.007	0.018	0.0037	0.00372	5.24E-02	6.87E-03	4.37E-07	2.66E-04	2.16E-03	1.67E-03	2.65E-02	2.53E-02	6.45E-02
2494	497396.65	3858722.63	0.00739	0.00362	0.00413	0.00734	0.006	0.021	0.0036	0.00362	5.15E-02	6.69E-03	4.30E-07	2.58E-04	2.02E-03	1.99E-03	2.57E-02	2.46E-02	6.36E-02
2495	497496.65	3858722.63	0.00743	0.00366	0.00415	0.0074	0.007	0.02	0.0037	0.00366	5.18E-02	6.76E-03	4.32E-07	2.60E-04	2.04E-03	1.91E-03	2.60E-02	2.49E-02	6.39E-02
2496	497596.65	3858722.63	0.00752	0.00372	0.00419	0.00752	0.007	0.02	0.0037	0.00372	5.24E-02	6.87E-03	4.36E-07	2.65E-04	2.09E-03	1.84E-03	2.64E-02	2.53E-02	6.46E-02
2497	497696.65	3858722.63	0.00753	0.00375	0.0042	0.00757	0.007	0.019	0.0038	0.00375	5.25E-02	6.93E-03	4.37E-07	2.66E-04	2.11E-03	1.77E-03	2.66E-02	2.55E-02	6.47E-02
2498	497796.65	3858722.63	0.0075	0.00377	0.0042	0.00758	0.007	0.018	0.0038	0.00377	5.23E-02	6.96E-03	4.37E-07	2.67E-04	2.12E-03	1.70E-03	2.68E-02	2.56E-02	6.45E-02
2499	497896.65	3858722.63	0.00749	0.0038	0.00422	0.00762	0.007	0.017	0.0038	0.0038	5.22E-02	7.02E-03	4.39E-07	2.68E-04	2.14E-03	1.64E-03	2.71E-02	2.58E-02	6.45E-02
2500	497396.65	3858822.63	0.00743	0.00371	0.00414	0.0074	0.006	0.021	0.0037	0.00371	5.18E-02	6.85E-03	4.31E-07	2.60E-04	2.01E-03	1.94E-03	2.64E-02	2.52E-02	6.40E-02
2501	497496.65	3858822.63	0.00744	0.00374	0.00414	0.00744	0.006	0.02	0.0038	0.00374	5.19E-02	6.91E-03	4.31E-07	2.62E-04	2.03E-03	1.85E-03	2.66E-02	2.54E-02	6.41E-02
2502	497596.65	3858822.63	0.00754	0.0038	0.00418	0.00759	0.007	0.019	0.0038	0.0038	5.26E-02	7.02E-03	4.35E-07	2.67E-04	2.08E-03	1.79E-03	2.70E-02	2.58E-02	6.49E-02
2503	497696.65	3858822.63	0.00751	0.00383	0.00421	0.00762	0.007	0.018	0.0039	0.00383	5.24E-02	7.07E-03	4.38E-07	2.68E-04	2.10E-03	1.72E-03	2.73E-02	2.60E-02	6.48E-02
2504	497796.65	3858822.63	0.00749	0.00385	0.0042	0.00763	0.007	0.018	0.0039	0.00385	5.22E-02	7.11E-03	4.37E-07	2.69E-04	2.11E-03	1.65E-03	2.73E-02	2.62E-02	6.45E-02
2505	497896.65	3858822.63	0.00749	0.00391	0.00424	0.00773	0.007	0.017	0.0039	0.00391	5.22E-02	7.22E-03	4.41E-07	2.72E-04	2.14E-03	1.60E-03	2.78E-02	2.66E-02	6.46E-02
2506	497396.65	3858922.63	0.00745	0.00381	0.00413	0.00746	0.006	0.02	0.0038	0.00381	5.19E-02	7.04E-03	4.30E-07	2.63E-04	2.01E-03	1.86E-03	2.70E-02	2.59E-02	6.42E-02
2507	497496.65	3858922.63	0.00751	0.00387	0.00417	0.00759	0.007	0.019	0.0039	0.00387	5.24E-02	7.15E-03	4.34E-07	2.67E-04	2.06E-03	1.79E-03	2.74E-02	2.63E-02	6.47E-02
2508	497596.65	3858922.63	0.00745	0.00386	0.00414	0.00754	0.007	0.018	0.0039	0.00386	5.19E-02	7.13E-03	4.31E-07	2.65E-04	2.05E-03	1.71E-03	2.74E-02	2.62E-02	6.43E-02
2509	497696.65	3858922.63	0.00751	0.00393	0.0042	0.0077	0.007	0.018	0.0039	0.00393	5.24E-02	7.26E-03	4.37E-07	2.71E-04	2.10E-03	1.66E-03	2.78E-02	2.67E-02	6.48E-02
2510	497796.65	3858922.63	0.00748	0.00398	0.00424	0.00777	0.007	0.017	0.004	0.00398	5.21E-02	7.35E-03	4.41E-07	2.73E-04	2.12E-03	1.61E-03	2.82E-02	2.71E-02	6.46E-02
2511	497896.65	3858922.63	0.00748	0.00404	0.00428	0.00791	0.007	0.017	0.004	0.00404	5.21E-02	7.46E-03	4.46E-07	2.78E-04	2.16E-03	1.56E-03	2.86E-02	2.75E-02	6.48E-02
2512	497364.44	3858201.52	0.00698	0.00325	0.00395	0.00713	0.007	0.03	0.0033	0.00325	4.87E-02	6.00E-03	4.11E-07	2.51E-04	2.07E-03	2.84E-03	2.30E-02	2.21E-02	6.08E-02
2513	497414.44	3858201.52	0.00703	0.00326	0.00395	0.00716	0.007	0.029	0.0033	0.00326	4.90E-02	6.02E-03	4.11E-07	2.52E-04	2.08E-03	2.69E-03	2.31E-02	2.22E-02	6.10E-02
2514	497464.44	3858201.52	0.00707	0.00327	0.00395	0.00718	0.007	0.027	0.0033	0.00327	4.93E-02	6.04E-03	4.11E-07	2.53E-04	2.08E-03	2.56E-03	2.32E-02	2.22E-02	6.12E-02
2515	497514.44	3858201.52	0.00706	0.00328	0.00398	0.00716	0.007	0.026	0.0033	0.00328	4.92E-02	6.06E-03	4.14E-07	2.52E-04	2.09E-03	2.45E-03	2.32E-02	2.23E-02	6.10E-02
2516	497564.44	3858201.52	0.00703	0.00328	0.00396	0.00712	0.007	0.025	0.0033	0.00328	4.90E-02	6.06E-03	4.12E-07	2.51E-04	2.08E-03	2.35E-03	2.32E-02	2.23E-02	6.07E-02
2517	497614.44	3858201.52	0.00703	0.00328	0.00396	0.00711	0.007	0.024	0.0033	0.00328	4.90E-02	6.06E-03	4.12E-07	2.50E-04	2.08E-03	2.26E-03	2.32E-02	2.23E-02	6.06E-02
2518	497364.44	3858251.52	0.00707	0.00329	0.004	0.00719	0.007	0.028	0.0033	0.00329	4.93E-02	6.08E-03	4.16E-07	2.53E-04	2.08E-03	2.68E-03	2.33E-02	2.24E-02	6.13E-02
2519	497414.44	3858251.52	0.00713	0.00331	0.00401	0.00722	0.007	0.027	0.0033	0.00331	4.97E-02	6.11E-03	4.17E-07	2.54E-04	2.10E-03	2.55E-03	2.35E-02	2.25E-02	6.17E-02
2520	497464.44	3858251.52	0.00708	0.0033	0.00399	0.00717	0.007	0.026	0.0033	0.0033	4.94E-02	6.09E-03	4.15E-07	2.52E-04	2.08E-03	2.44E-03	2.34E-02	2.24E-02	6.12E-02
2521	497514.44	3858251.52	0.00701	0.00329	0.00396	0.00711	0.007	0.025	0.0033	0.00329	4.89E-02	6.08E-03	4.12E-07	2.50E-04	2.06E-03	2.34E-03	2.33E-02	2.24E-02	6.05E-02
2522	497564.44	3858251.52	0.00699	0.00328	0.00395	0.00707	0.007	0.024	0.0033	0.00328	4.87E-02	6.06E-03	4.11E-07	2.49E-04	2.05E-03	2.25E-03	2.33E-02	2.23E-02	6.03E-02
2523	497614.44	3858251.52	0.00696	0.00328	0.00393	0.00704	0.007	0.023	0.0033	0.00328	4.85E-02	6.06E-03	4.09E-07	2.48E-04	2.04E-03	2.17E-03	2.32E-02	2.23E-02	6.00E-02
2524	497364.44	3858301.52	0.00711	0.00332	0.00401	0.00719	0.007	0.027	0.0033	0.00332	4.96E-02	6.13E-03	4.17E-07	2.53E-04	2.07E-03	2.55E-03	2.35E-02	2.26E-02	6.15E-02
2525	497414.44	3858301.52	0.00712	0.00333	0.00401	0.0072	0.007	0.026	0.0033	0.00333	4.96E-02	6.15E-03	4.17E-07	2.53E-04	2.07E-03	2.44E-03	2.37E-02	2.26E-02	6.16E-02
2526	497464.44	3858301.52	0.00706	0.00332	0.00398	0.00714	0.007	0.025	0.0033	0.00332	4.92E-02	6.13E-03	4.14E-07	2.51E-04	2.06E-03	2.34E-03	2.35E-02	2.26E-02	6.09E-02
2527	497514.44	3858301.52	0.00701	0.00331	0.00396	0.00709	0.007	0.024	0.0033	0.00331	4.89E-02	6.11E-03	4.12E-07	2.50E-04	2.04E-03	2.25E-03	2.35E-02	2.25E-02	6.05E-02
2528	497564.44	3858301.52	0.00695	0.00329	0.00393	0.00702	0.006	0.023	0.0033	0.00329	4.85E-02	6.08E-03	4.09E-07	2.47E-04	2.02E-03	2.17E-03	2.33E-02	2.24E-02	5.99E-02
2529	497614.44	3858301.52	0.00692	0.00329	0.00391	0.00698	0.006	0.022	0.0033	0.00329	4.82E-02	6.08E-03	4.07E-07	2.46E-04	2.01E-03	2.09E-03	2.33E-02	2.24E-02	5.96E-02
2530	497364.44	3858351.52	0.00713	0.00335	0.00402	0.0072	0.007	0.026	0.0034	0.00335	4.97E-02	6.19E-03	4.19E-07	2.53E-04	2.06E-03	2.44E-03	2.37E-02	2.28E-02	6.16E-02
2531	497414.44	3858351.52	0.00708	0.00334	0.004	0.00715	0.007	0.025	0.0033	0.00334	4.94E-02	6.17E-03	4.16E-07	2.52E-04	2.05E-03	2.35E-03	2.37E-02	2.27E-02	6.11E-02
2532	497464.44	3858351.52	0.00706	0.00334	0.00398	0.00711	0.007	0.024	0.0033	0.00334	4.92E-02	6.17E-03	4.14E-07	2.50E-04	2.04E-03	2.26E-03	2.37E-02	2.27E-02	6.09E-02
2533	497514.44	3858351.52	0.00702	0.00333	0.00396	0.00707	0.006	0.023	0.0033	0.00333	4.89E-02	6.15E-03	4.12E-07	2.49E-04	2.03E-03	2.18E-03	2.36E-02	2.26E-02	6.05E-02
2534	497564.44	3858351.52	0.00694	0.00331	0.00393	0.00699	0.006	0.022	0.0033	0.00331	4.84E-02	6.11E-03	4.09E-07	2.46E-04	2.01E-03	2.10E-03	2.35E-02	2.25E-02	5.98E-02
2535	497614.44	3858351.52	0.00691	0.0033	0.00391	0.00696	0.006	0.022	0.0033	0.0033	4.82E-02	6.09E-03	4.07E-07	2.45E-04	2.00E-03	2.03E-03	2.35E-02	2.24E-02	5.96E-02
2536	497364.44	3858401.52	0.0071	0.00335	0.00399	0.00714	0.006	0.025	0.0034	0.00335	4.95E-02	6.19E-03	4.15E-07	2.51E-04	2.02E-03	2.34E-03	2.38E-02	2.28E-02	6.13E-02
2537	497414.44	3858401.52	0.00707	0.00336	0.00399	0.00711	0.006	0.024	0.0034	0.00336	4.93E-02	6.21E-03	4.15E-07	2.50E-04	2.02E-03	2.26E-03	2.38E-02	2.28E-02	6.10E-02
2538	497464.44	3858401.52	0.00702	0.00335	0.00397	0.00706	0.006	0.023	0.0034	0.00335	4.89E-02	6.19E-03	4.13E-07	2.48E-04	2.01E-03	2.18E-03	2.37E-02	2.28E-02	6.05E-02
2539	497514.44	3858401.52	0.00699	0.00334	0.00395	0.00702	0.006	0.022	0.0033	0.00334	4.87E-02	6.17E-03	4.11E-07	2.47E-04	2.00E-03	2.11E-03	2.37E-02	2.27E-02	6.02E-02
2540	497564.44	3858401.52	0.00702	0.00335	0.00395	0.00704	0.006	0.022	0.0034	0.00335	4.89E-02	6.19E-03	4.11E-07	2.48E-04	2.01E-03	2.04E-03	2.38E-02	2.28E-02	6.05E-02
2541	497614.44	3858401.52	0.00706	0.00336	0.00395	0.00707	0.006	0.021	0.0034	0.00336	4.92E-02	6.21E-03	4.11E-07	2.49E-04	2.02E-03	1.97E-03	2.39E-02	2.28E-02	6.07E-02
2542	493478.11	3860497.94	0.00779	0.0164	0.00533	0.01328	0.004	0.04	0.0164	0.0164	5.43E-02	3.03E-02	5.55E-07	4.67E-04	1.20E-03	3.75E-03	1.16E-01	1.12E-01	9.44E-02
2543	493528.11	3860497.94	0.00772	0.0161	0.00531	0.01314	0.004	0.039	0.016	0.0161	5.38E-02	2.97E-02	5.53E-07	4.62E-04	1.19E-03	3.70E-03	1.14E-01	1.09E-01	9.31E-02
2544	493478.11	3860547.94	0.00751	0.01708	0.00507	0.01271	0.004	0.033	0.017	0.01708	5.24E-02	3.15E-02	5.28E-07	4.47E-04	1.19E-03	3.10E-03	1.21E-01	1.16E-01	9.32E-02
2545	493528.11	3860547.94	0.00743	0.01677	0.00504	0.01259	0.004	0.033	0.0167	0.01677	5.18E-02	3.10E-02	5.25E-07	4.43E-04	1.17E-03	3.06E-03	1.18E-01	1.14E-01	9.19E-02
2546	493478.11	3860597.94	0.00723	0.01779	0.00482	0.01217	0.004	0.028	0.0178	0.01779	5.04E-02	3.29E-02	5.02E-07	4.28E-04	1.17E-03	2.61E-03	1.26E-01	1.21E-01	9.23E-02
2547	493528.11	3860597.94	0.00716	0.01746	0.0048	0.01206	0.004	0.028	0.0174	0.01746	4.99E-02	3.22E-02	5.00E-07	4.24E-04	1.16E-03	2.58E-03	1.23E-01	1.19E-01	9.10E-02
2548	493561.88	3860524.64	0.00752	0.01623	0.00515	0.01276	0.004	0.035	0.0162	0.01623	5.24E-02	3.00E-02	5.36E-07	4.49E-04	1.17E-03	3.31E-03	1.15E-01	1.10E-01	9.15E-02

2549	493591.88	3860524.64	0.00749	0.016	0.00515	0.01269	0.004	0.035	0.0159	0.016	5.22E-02	2.96E-02	5.36E-07	4.47E-04	1.17E-03	3.29E-03	1.13E-01	1.09E-01	9.08E-02
2550	493561.88	3860554.64	0.00735	0.01664	0.005	0.01244	0.004	0.032	0.0166	0.01664	5.12E-02	3.07E-02	5.21E-07	4.38E-04	1.17E-03	2.97E-03	1.18E-01	1.13E-01	9.09E-02
2551	493591.88	3860554.64	0.00733	0.01637	0.005	0.01238	0.004	0.031	0.0163	0.01637	5.11E-02	3.02E-02	5.21E-07	4.36E-04	1.16E-03	2.96E-03	1.16E-01	1.11E-01	9.01E-02
2552	492880.5	3860293.11	0.01052	0.01928	0.00695	0.01962	0.004	0.404	0.0193	0.01928	7.33E-02	3.56E-02	7.24E-07	6.91E-04	1.38E-03	3.80E-02	1.37E-01	1.31E-01	1.55E-01
2553	492930.5	3860293.11	0.01036	0.01862	0.00694	0.0192	0.004	0.369	0.0186	0.01862	7.22E-02	3.44E-02	7.22E-07	6.76E-04	1.37E-03	3.47E-02	1.32E-01	1.27E-01	1.49E-01
2554	492980.5	3860293.11	0.01022	0.01797	0.0069	0.0188	0.004	0.349	0.018	0.01797	7.13E-02	3.32E-02	7.18E-07	6.62E-04	1.37E-03	3.28E-02	1.27E-01	1.22E-01	1.44E-01
2555	493030.5	3860293.11	0.01016	0.0169	0.00675	0.0183	0.004	0.325	0.0169	0.0169	7.08E-02	3.12E-02	7.03E-07	6.44E-04	1.37E-03	3.06E-02	1.20E-01	1.15E-01	1.39E-01
2556	493080.5	3860293.11	0.01014	0.01585	0.00658	0.01769	0.004	0.309	0.0158	0.01585	7.07E-02	2.93E-02	6.85E-07	6.23E-04	1.38E-03	2.91E-02	1.12E-01	1.08E-01	1.35E-01
2557	493130.5	3860293.11	0.00991	0.01595	0.00663	0.01755	0.004	0.312	0.0159	0.01595	6.91E-02	2.95E-02	6.90E-07	6.18E-04	1.35E-03	2.93E-02	1.13E-01	1.08E-01	1.34E-01
2558	493180.5	3860293.11	0.00971	0.01592	0.00665	0.0173	0.004	0.303	0.0159	0.01592	6.77E-02	2.94E-02	6.92E-07	6.09E-04	1.33E-03	2.85E-02	1.12E-01	1.08E-01	1.32E-01
2559	493230.5	3860293.11	0.00957	0.01563	0.00662	0.017	0.004	0.299	0.0156	0.01563	6.67E-02	2.89E-02	6.89E-07	5.98E-04	1.32E-03	2.81E-02	1.10E-01	1.06E-01	1.30E-01
2560	493280.5	3860293.11	0.0095	0.01506	0.00653	0.01664	0.004	0.305	0.015	0.01506	6.62E-02	2.78E-02	6.80E-07	5.86E-04	1.31E-03	2.87E-02	1.06E-01	1.02E-01	1.28E-01
2561	493330.5	3860293.11	0.0094	0.01465	0.00646	0.01633	0.004	0.299	0.0146	0.01465	6.55E-02	2.71E-02	6.73E-07	5.75E-04	1.30E-03	2.81E-02	1.03E-01	9.96E-02	1.26E-01
2562	493380.5	3860293.11	0.0093	0.01431	0.00641	0.01604	0.004	0.291	0.0142	0.01431	6.48E-02	2.64E-02	6.67E-07	5.65E-04	1.29E-03	2.74E-02	1.01E-01	9.73E-02	1.24E-01
2563	492880.5	3860343.11	0.01009	0.02018	0.00652	0.01838	0.004	0.287	0.0202	0.02018	7.03E-02	3.73E-02	6.79E-07	6.47E-04	1.34E-03	2.70E-02	1.43E-01	1.37E-01	1.43E-01
2564	492930.5	3860343.11	0.00994	0.01951	0.00651	0.01806	0.004	0.208	0.0195	0.01951	6.93E-02	3.60E-02	6.78E-07	6.36E-04	1.34E-03	1.95E-02	1.38E-01	1.33E-01	1.33E-01
2565	492980.5	3860343.11	0.00989	0.01835	0.00651	0.01773	0.004	0.164	0.0183	0.01835	6.90E-02	3.39E-02	6.78E-07	6.24E-04	1.35E-03	1.54E-02	1.30E-01	1.25E-01	1.25E-01
2566	493030.5	3860343.11	0.00975	0.01778	0.00647	0.01741	0.004	0.146	0.0178	0.01778	6.80E-02	3.28E-02	6.74E-07	6.13E-04	1.35E-03	1.37E-02	1.26E-01	1.21E-01	1.21E-01
2567	493080.5	3860343.11	0.00971	0.01678	0.00633	0.01698	0.004	0.132	0.0168	0.01678	6.77E-02	3.10E-02	6.59E-07	5.98E-04	1.35E-03	1.24E-02	1.19E-01	1.14E-01	1.18E-01
2568	493130.5	3860343.11	0.00955	0.01654	0.00632	0.01673	0.004	0.128	0.0165	0.01654	6.66E-02	3.05E-02	6.58E-07	5.89E-04	1.34E-03	1.20E-02	1.17E-01	1.12E-01	1.16E-01
2569	493180.5	3860343.11	0.00935	0.01652	0.00637	0.01654	0.004	0.124	0.0165	0.01652	6.52E-02	3.05E-02	6.63E-07	5.82E-04	1.32E-03	1.17E-02	1.17E-01	1.12E-01	1.14E-01
2570	493230.5	3860343.11	0.00923	0.01622	0.00634	0.01627	0.004	0.12	0.0162	0.01622	6.43E-02	3.00E-02	6.60E-07	5.73E-04	1.30E-03	1.13E-02	1.14E-01	1.10E-01	1.12E-01
2571	493280.5	3860343.11	0.00916	0.01562	0.00625	0.01596	0.004	0.12	0.0156	0.01562	6.39E-02	2.88E-02	6.51E-07	5.62E-04	1.30E-03	1.12E-02	1.10E-01	1.06E-01	1.10E-01
2572	493330.5	3860343.11	0.00908	0.01513	0.00619	0.01568	0.004	0.118	0.0151	0.01513	6.33E-02	2.79E-02	6.44E-07	5.52E-04	1.29E-03	1.11E-02	1.07E-01	1.03E-01	1.08E-01
2573	493380.5	3860343.11	0.00898	0.0148	0.00615	0.01543	0.004	0.117	0.0147	0.0148	6.26E-02	2.73E-02	6.40E-07	5.43E-04	1.28E-03	1.10E-02	1.04E-01	1.01E-01	1.06E-01
2574	492880.5	3860393.11	0.00965	0.02115	0.00613	0.01715	0.004	0.24	0.0212	0.02115	6.73E-02	3.91E-02	6.38E-07	6.04E-04	1.31E-03	2.25E-02	1.50E-01	1.44E-01	1.37E-01
2575	492930.5	3860393.11	0.00953	0.02036	0.00613	0.01693	0.004	0.16	0.0204	0.02036	6.64E-02	3.76E-02	6.38E-07	5.96E-04	1.31E-03	1.50E-02	1.44E-01	1.38E-01	1.27E-01
2576	492980.5	3860393.11	0.00944	0.01941	0.00616	0.0167	0.004	0.123	0.0194	0.01941	6.58E-02	3.58E-02	6.41E-07	5.88E-04	1.32E-03	1.15E-02	1.38E-01	1.32E-01	1.21E-01
2577	493030.5	3860393.11	0.00935	0.01864	0.00617	0.01646	0.004	0.103	0.0186	0.01864	6.52E-02	3.44E-02	6.42E-07	5.79E-04	1.32E-03	9.69E-03	1.32E-01	1.27E-01	1.17E-01
2578	493080.5	3860393.11	0.00931	0.01759	0.00606	0.01615	0.004	0.09	0.0176	0.01759	6.49E-02	3.25E-02	6.31E-07	5.68E-04	1.33E-03	8.45E-03	1.25E-01	1.20E-01	1.13E-01
2579	493130.5	3860393.11	0.00916	0.0174	0.00607	0.01596	0.004	0.085	0.0174	0.0174	6.39E-02	3.21E-02	6.32E-07	5.62E-04	1.31E-03	7.99E-03	1.23E-01	1.18E-01	1.11E-01
2580	493180.5	3860393.11	0.00898	0.01733	0.0061	0.01576	0.004	0.081	0.0173	0.01733	6.26E-02	3.20E-02	6.35E-07	5.55E-04	1.30E-03	7.61E-03	1.23E-01	1.18E-01	1.09E-01
2581	493230.5	3860393.11	0.00888	0.01688	0.00607	0.01553	0.004	0.078	0.0168	0.01688	6.19E-02	3.12E-02	6.32E-07	5.47E-04	1.29E-03	7.30E-03	1.19E-01	1.15E-01	1.07E-01
2582	493280.5	3860393.11	0.00883	0.01622	0.00599	0.01528	0.004	0.076	0.0162	0.01622	6.16E-02	3.00E-02	6.24E-07	5.38E-04	1.28E-03	7.11E-03	1.15E-01	1.10E-01	1.05E-01
2583	493330.5	3860393.11	0.00875	0.01571	0.00593	0.01504	0.004	0.074	0.0157	0.01571	6.10E-02	2.90E-02	6.17E-07	5.29E-04	1.28E-03	6.97E-03	1.11E-01	1.07E-01	1.03E-01
2584	493380.5	3860393.11	0.00867	0.01533	0.00589	0.01483	0.004	0.073	0.0153	0.01533	6.04E-02	2.83E-02	6.13E-07	5.22E-04	1.26E-03	6.86E-03	1.08E-01	1.04E-01	1.01E-01
2585	492880.5	3860443.11	0.00923	0.02213	0.00578	0.016	0.004	0.112	0.0222	0.02213	6.43E-02	4.09E-02	6.02E-07	5.63E-04	1.28E-03	1.05E-02	1.57E-01	1.50E-01	1.24E-01
2586	492930.5	3860443.11	0.00911	0.02142	0.00577	0.01583	0.004	0.094	0.0214	0.02142	6.35E-02	3.96E-02	6.01E-07	5.57E-04	1.28E-03	8.88E-03	1.52E-01	1.46E-01	1.20E-01
2587	492980.5	3860443.11	0.00902	0.02053	0.00579	0.01568	0.004	0.082	0.0206	0.02053	6.29E-02	3.79E-02	6.03E-07	5.52E-04	1.28E-03	7.72E-03	1.46E-01	1.40E-01	1.16E-01
2588	493030.5	3860443.11	0.00894	0.0197	0.0058	0.01551	0.004	0.073	0.0197	0.0197	6.23E-02	3.64E-02	6.04E-07	5.46E-04	1.29E-03	6.91E-03	1.40E-01	1.34E-01	1.13E-01
2589	493080.5	3860443.11	0.00884	0.01905	0.0058	0.01533	0.004	0.067	0.0191	0.01905	6.16E-02	3.52E-02	6.04E-07	5.40E-04	1.28E-03	6.34E-03	1.35E-01	1.30E-01	1.10E-01
2590	493130.5	3860443.11	0.00874	0.01846	0.00579	0.01515	0.004	0.063	0.0185	0.01846	6.09E-02	3.41E-02	6.03E-07	5.33E-04	1.28E-03	5.93E-03	1.31E-01	1.26E-01	1.08E-01
2591	493180.5	3860443.11	0.0086	0.01827	0.00574	0.01496	0.004	0.06	0.0183	0.01827	6.00E-02	3.37E-02	5.98E-07	5.27E-04	1.27E-03	5.64E-03	1.29E-01	1.24E-01	1.06E-01
2592	493230.5	3860443.11	0.00855	0.01752	0.00576	0.01478	0.004	0.058	0.0175	0.01752	5.96E-02	3.24E-02	6.00E-07	5.20E-04	1.27E-03	5.41E-03	1.24E-01	1.19E-01	1.04E-01
2593	493280.5	3860443.11	0.00848	0.01696	0.00575	0.0146	0.004	0.056	0.0169	0.01696	5.91E-02	3.13E-02	5.99E-07	5.14E-04	1.26E-03	5.25E-03	1.20E-01	1.15E-01	1.02E-01
2594	493330.5	3860443.11	0.00844	0.0163	0.00568	0.0144	0.004	0.055	0.0163	0.0163	5.88E-02	3.01E-02	5.91E-07	5.07E-04	1.26E-03	5.13E-03	1.15E-01	1.11E-01	1.00E-01
2595	493380.5	3860443.11	0.00834	0.016	0.00566	0.01423	0.004	0.054	0.016	0.016	5.81E-02	2.96E-02	5.89E-07	5.01E-04	1.25E-03	5.04E-03	1.13E-01	1.09E-01	9.87E-02
2596	493180.5	3860493.11	0.00828	0.01899	0.00544	0.01418	0.004	0.046	0.019	0.01899	5.77E-02	3.51E-02	5.66E-07	4.99E-04	1.25E-03	4.33E-03	1.34E-01	1.29E-01	1.04E-01
2597	493230.5	3860493.11	0.00821	0.01834	0.00545	0.01405	0.004	0.045	0.0183	0.01834	5.72E-02	3.39E-02	5.67E-07	4.95E-04	1.25E-03	4.22E-03	1.30E-01	1.25E-01	1.02E-01
2598	493280.5	3860493.11	0.00816	0.01769	0.00545	0.0139	0.004	0.044	0.0177	0.01769	5.69E-02	3.27E-02	5.67E-07	4.89E-04	1.24E-03	4.12E-03	1.25E-01	1.20E-01	1.00E-01
2599	493330.5	3860493.11	0.00809	0.01716	0.00545	0.01376	0.004	0.043	0.0171	0.01716	5.64E-02	3.17E-02	5.67E-07	4.84E-04	1.24E-03	4.04E-03	1.21E-01	1.17E-01	9.85E-02
2600	493380.5	3860493.11	0.008	0.01683	0.00543	0.01362	0.004	0.042	0.0168	0.01683	5.58E-02	3.11E-02	5.65E-07	4.79E-04	1.23E-03	3.97E-03	1.19E-01	1.14E-01	9.71E-02
2601	493330.5	3860543.11	0.00778	0.01793	0.00517	0.01313	0.004	0.035	0.0179	0.01793	5.42E-02	3.31E-02	5.38E-07	4.62E-04	1.22E-03	3.28E-03	1.27E-01	1.22E-01	9.73E-02
2602	493380.5	3860543.11	0.00769	0.01759	0.00514	0.01301	0.004	0.034	0.0176	0.01759	5.36E-02	3.25E-02	5.35E-07	4.58E-04	1.21E-03	3.24E-03	1.24E-01	1.20E-01	9.58E-02
2603	494135.94	3860876.85	0.00546	0.01812	0.00364	0.00911	0.003	0.013	0.0181	0.01812	3.81E-02	3.35E-02	3.79E-07	3.21E-04	9.93E-04	1.26E-03	1.28E-01	1.23E-01	7.89E-02
2604	494185.94	3860876.85	0.00544	0.01783	0.00363	0.00906	0.003	0.013	0.0178	0.01783	3.79E-02	3.29E-02	3.78E-07	3.19E-04	9.84E-04	1.25E-03	1.26E-01	1.21E-01	7.81E-02
2605	494135.94	3860926.85	0.00527	0.01933	0.00349	0.00881	0.003	0.012	0.0193	0.01933	3.67E-02	3.57E-02	3.63E-07	3.10E-04	9.84E-04	1.16E-03	1.37E-01	1.31E-01	8.01E-02
2606	494185.94	3860926.85	0.00525	0.01899	0.00348	0.00877	0.003	0.012	0.0189	0.01899	3.66E-02	3.51E-02	3.62E-07	3.09E-04	9.74E-04	1.15E-03	1.34E-01	1.29E-01	7.92E-02

2607	494135.94	3860976.85	0.00509	0.02073	0.00334	0.00855	0.003	0.011	0.0207	0.02073	3.55E-02	3.83E-02	3.48E-07	3.01E-04	9.71E-04	1.07E-03	1.47E-01	1.41E-01	8.17E-02
2608	494185.94	3860976.85	0.00508	0.02034	0.00334	0.00851	0.003	0.011	0.0203	0.02034	3.54E-02	3.76E-02	3.48E-07	3.00E-04	9.65E-04	1.06E-03	1.44E-01	1.38E-01	8.08E-02
2609	494135.94	3861026.85	0.00492	0.02243	0.00321	0.00828	0.003	0.01	0.0224	0.02243	3.43E-02	4.14E-02	3.34E-07	2.91E-04	9.56E-04	9.86E-04	1.59E-01	1.53E-01	8.41E-02
2610	494185.94	3861026.85	0.0049	0.02197	0.00321	0.00825	0.003	0.01	0.0219	0.02197	3.42E-02	4.06E-02	3.34E-07	2.90E-04	9.53E-04	9.84E-04	1.55E-01	1.49E-01	8.30E-02
2611	494135.94	3861076.85	0.00475	0.02449	0.00308	0.00802	0.003	0.01	0.0244	0.02449	3.31E-02	4.52E-02	3.21E-07	2.82E-04	9.40E-04	9.16E-04	1.73E-01	1.67E-01	8.71E-02
2612	494185.94	3861076.85	0.00474	0.02395	0.00308	0.008	0.003	0.01	0.0239	0.02395	3.30E-02	4.42E-02	3.21E-07	2.82E-04	9.37E-04	9.16E-04	1.69E-01	1.63E-01	8.59E-02
2613	490360.04	3858710.04	0.02714	0.01727	0.01729	0.06213	0.015	0.034	0.0163	0.01727	1.89E-01	3.19E-02	1.80E-06	2.19E-03	4.69E-03	3.23E-03	1.16E-01	1.17E-01	2.29E-01
2614	490410.04	3858710.04	0.02674	0.01679	0.01776	0.06035	0.015	0.033	0.0159	0.01679	1.86E-01	3.10E-02	1.85E-06	2.12E-03	4.70E-03	3.14E-03	1.12E-01	1.14E-01	2.26E-01
2615	490460.04	3858710.04	0.02642	0.01623	0.01778	0.05841	0.015	0.032	0.0153	0.01623	1.84E-01	3.00E-02	1.85E-06	2.06E-03	4.71E-03	3.04E-03	1.09E-01	1.10E-01	2.22E-01
2616	490510.04	3858710.04	0.02606	0.01579	0.01757	0.05679	0.015	0.031	0.0149	0.01579	1.82E-01	2.92E-02	1.83E-06	2.00E-03	4.71E-03	2.95E-03	1.06E-01	1.07E-01	2.19E-01
2617	490560.04	3858710.04	0.0257	0.0154	0.01734	0.05539	0.015	0.031	0.0146	0.0154	1.79E-01	2.84E-02	1.81E-06	1.95E-03	4.71E-03	2.88E-03	1.03E-01	1.05E-01	2.16E-01
2618	490610.04	3858710.04	0.02535	0.01501	0.0172	0.05409	0.015	0.03	0.0142	0.01501	1.77E-01	2.77E-02	1.79E-06	1.90E-03	4.71E-03	2.81E-03	1.01E-01	1.02E-01	2.12E-01
2619	490660.04	3858710.04	0.02497	0.01472	0.01726	0.05315	0.015	0.029	0.0139	0.01472	1.74E-01	2.72E-02	1.80E-06	1.87E-03	4.71E-03	2.76E-03	9.87E-02	1.00E-01	2.09E-01
2620	490710.04	3858710.04	0.02469	0.01431	0.01728	0.05182	0.015	0.029	0.0135	0.01431	1.72E-01	2.64E-02	1.80E-06	1.82E-03	4.72E-03	2.68E-03	9.59E-02	9.73E-02	2.06E-01
2621	490760.04	3858710.04	0.0244	0.01395	0.01735	0.05051	0.015	0.028	0.0132	0.01395	1.70E-01	2.58E-02	1.81E-06	1.78E-03	4.72E-03	2.62E-03	9.36E-02	9.49E-02	2.04E-01
2622	490810.04	3858710.04	0.02412	0.01361	0.01741	0.04907	0.015	0.027	0.0129	0.01361	1.68E-01	2.51E-02	1.81E-06	1.73E-03	4.73E-03	2.55E-03	9.13E-02	9.25E-02	2.01E-01
2623	490860.04	3858710.04	0.02388	0.01322	0.01737	0.04739	0.015	0.026	0.0125	0.01322	1.66E-01	2.44E-02	1.81E-06	1.67E-03	4.75E-03	2.48E-03	8.87E-02	8.99E-02	1.99E-01
2624	490360.04	3858760.04	0.02732	0.01799	0.01898	0.06036	0.014	0.035	0.017	0.01799	1.90E-01	3.32E-02	1.98E-06	2.12E-03	4.44E-03	3.31E-03	1.20E-01	1.22E-01	2.32E-01
2625	490410.04	3858760.04	0.02693	0.01744	0.01917	0.05843	0.014	0.034	0.0165	0.01744	1.88E-01	3.22E-02	2.00E-06	2.06E-03	4.44E-03	3.21E-03	1.17E-01	1.19E-01	2.28E-01
2626	490460.04	3858760.04	0.02657	0.01689	0.01897	0.05652	0.014	0.033	0.016	0.01689	1.85E-01	3.12E-02	1.97E-06	1.99E-03	4.45E-03	3.11E-03	1.13E-01	1.15E-01	2.24E-01
2627	490510.04	3858760.04	0.02623	0.01634	0.0187	0.05472	0.014	0.032	0.0155	0.01634	1.83E-01	3.02E-02	1.95E-06	1.93E-03	4.45E-03	3.01E-03	1.09E-01	1.11E-01	2.21E-01
2628	490560.04	3858760.04	0.02588	0.01588	0.0186	0.05322	0.014	0.031	0.015	0.01588	1.80E-01	2.93E-02	1.94E-06	1.87E-03	4.45E-03	2.93E-03	1.06E-01	1.08E-01	2.17E-01
2629	490610.04	3858760.04	0.02554	0.01542	0.01863	0.05179	0.014	0.03	0.0146	0.01542	1.78E-01	2.85E-02	1.94E-06	1.82E-03	4.45E-03	2.85E-03	1.03E-01	1.05E-01	2.14E-01
2630	490660.04	3858760.04	0.02521	0.01501	0.01876	0.0505	0.014	0.029	0.0142	0.01501	1.76E-01	2.77E-02	1.95E-06	1.78E-03	4.44E-03	2.77E-03	1.01E-01	1.02E-01	2.11E-01
2631	490710.04	3858760.04	0.0249	0.01461	0.01888	0.0492	0.014	0.029	0.0138	0.01461	1.74E-01	2.70E-02	1.97E-06	1.73E-03	4.44E-03	2.70E-03	9.80E-02	9.93E-02	2.08E-01
2632	490760.04	3858760.04	0.02462	0.01419	0.01892	0.04771	0.014	0.028	0.0134	0.01419	1.72E-01	2.62E-02	1.97E-06	1.68E-03	4.44E-03	2.63E-03	9.52E-02	9.65E-02	2.05E-01
2633	490810.04	3858760.04	0.02434	0.0138	0.01891	0.04617	0.014	0.027	0.0131	0.0138	1.70E-01	2.55E-02	1.97E-06	1.63E-03	4.45E-03	2.56E-03	9.27E-02	9.38E-02	2.03E-01
2634	490860.04	3858760.04	0.02405	0.01346	0.01884	0.04473	0.014	0.027	0.0128	0.01346	1.68E-01	2.49E-02	1.96E-06	1.57E-03	4.45E-03	2.50E-03	9.04E-02	9.15E-02	2.00E-01
2635	490360.04	3858810.04	0.02758	0.01871	0.02082	0.05939	0.013	0.036	0.0177	0.01871	1.92E-01	3.46E-02	2.17E-06	2.09E-03	4.22E-03	3.38E-03	1.25E-01	1.27E-01	2.35E-01
2636	490410.04	3858810.04	0.02718	0.01809	0.02071	0.0573	0.013	0.035	0.0171	0.01809	1.89E-01	3.34E-02	2.16E-06	2.02E-03	4.22E-03	3.27E-03	1.21E-01	1.23E-01	2.31E-01
2637	490460.04	3858810.04	0.0268	0.01749	0.02049	0.05532	0.013	0.034	0.0165	0.01749	1.87E-01	3.23E-02	2.13E-06	1.95E-03	4.23E-03	3.16E-03	1.17E-01	1.19E-01	2.27E-01
2638	490510.04	3858810.04	0.0264	0.01698	0.02049	0.0537	0.013	0.033	0.0161	0.01698	1.84E-01	3.14E-02	2.13E-06	1.89E-03	4.22E-03	3.08E-03	1.14E-01	1.15E-01	2.23E-01
2639	490560.04	3858810.04	0.02603	0.01648	0.02061	0.05216	0.013	0.032	0.0156	0.01648	1.81E-01	3.04E-02	2.15E-06	1.84E-03	4.21E-03	2.99E-03	1.11E-01	1.12E-01	2.19E-01
2640	490610.04	3858810.04	0.02572	0.01592	0.02073	0.05048	0.013	0.031	0.0151	0.01592	1.79E-01	2.94E-02	2.16E-06	1.78E-03	4.21E-03	2.89E-03	1.07E-01	1.08E-01	2.16E-01
2641	490660.04	3858810.04	0.02539	0.01544	0.02087	0.04903	0.013	0.03	0.0146	0.01544	1.77E-01	2.85E-02	2.17E-06	1.73E-03	4.21E-03	2.81E-03	1.04E-01	1.05E-01	2.13E-01
2642	490710.04	3858810.04	0.02509	0.01496	0.0209	0.04746	0.013	0.029	0.0142	0.01496	1.75E-01	2.76E-02	2.18E-06	1.67E-03	4.20E-03	2.73E-03	1.00E-01	1.02E-01	2.10E-01
2643	490760.04	3858810.04	0.02484	0.01444	0.02077	0.0456	0.013	0.028	0.0137	0.01444	1.73E-01	2.67E-02	2.16E-06	1.60E-03	4.20E-03	2.63E-03	9.70E-02	9.82E-02	2.07E-01
2644	490810.04	3858810.04	0.0245	0.01413	0.02072	0.04436	0.013	0.027	0.0134	0.01413	1.71E-01	2.61E-02	2.16E-06	1.56E-03	4.19E-03	2.58E-03	9.49E-02	9.61E-02	2.04E-01
2645	490860.04	3858810.04	0.02424	0.01371	0.02049	0.04275	0.013	0.027	0.013	0.01371	1.69E-01	2.53E-02	2.13E-06	1.50E-03	4.19E-03	2.51E-03	9.22E-02	9.32E-02	2.01E-01
2646	490360.04	3858860.04	0.02791	0.01941	0.02294	0.05893	0.013	0.037	0.0184	0.01941	1.95E-01	3.58E-02	2.39E-06	2.07E-03	4.03E-03	3.45E-03	1.30E-01	1.32E-01	2.38E-01
2647	490410.04	3858860.04	0.02742	0.01887	0.02293	0.05706	0.013	0.036	0.0179	0.01887	1.91E-01	3.49E-02	2.39E-06	2.01E-03	4.02E-03	3.35E-03	1.27E-01	1.28E-01	2.34E-01
2648	490460.04	3858860.04	0.02704	0.01816	0.02291	0.05489	0.013	0.034	0.0172	0.01816	1.89E-01	3.35E-02	2.39E-06	1.93E-03	4.03E-03	3.23E-03	1.22E-01	1.23E-01	2.30E-01
2649	490510.04	3858860.04	0.02659	0.01769	0.02321	0.05339	0.013	0.034	0.0168	0.01769	1.85E-01	3.27E-02	2.42E-06	1.88E-03	4.02E-03	3.15E-03	1.19E-01	1.20E-01	2.26E-01
2650	490560.04	3858860.04	0.02623	0.01709	0.02341	0.05161	0.013	0.032	0.0162	0.01709	1.83E-01	3.16E-02	2.44E-06	1.82E-03	4.01E-03	3.05E-03	1.15E-01	1.16E-01	2.22E-01
2651	490610.04	3858860.04	0.02595	0.01639	0.02343	0.04962	0.013	0.031	0.0156	0.01639	1.81E-01	3.03E-02	2.44E-06	1.75E-03	4.01E-03	2.93E-03	1.10E-01	1.11E-01	2.19E-01
2652	490660.04	3858860.04	0.0256	0.01589	0.02347	0.04805	0.013	0.03	0.0151	0.01589	1.78E-01	2.93E-02	2.44E-06	1.69E-03	4.00E-03	2.84E-03	1.07E-01	1.08E-01	2.15E-01
2653	490710.04	3858860.04	0.02524	0.01547	0.02342	0.04663	0.013	0.03	0.0147	0.01547	1.76E-01	2.86E-02	2.44E-06	1.64E-03	3.99E-03	2.77E-03	1.04E-01	1.05E-01	2.12E-01
2654	490760.04	3858860.04	0.02497	0.01491	0.02313	0.04471	0.013	0.029	0.0142	0.01491	1.74E-01	2.75E-02	2.41E-06	1.57E-03	3.98E-03	2.68E-03	1.00E-01	1.01E-01	2.09E-01
2655	490810.04	3858860.04	0.02471	0.01441	0.02281	0.04291	0.013	0.028	0.0137	0.01441	1.72E-01	2.66E-02	2.37E-06	1.51E-03	3.97E-03	2.59E-03	9.70E-02	9.80E-02	2.06E-01
2656	490860.04	3858860.04	0.02446	0.01392	0.0225	0.04116	0.013	0.027	0.0132	0.01392	1.71E-01	2.57E-02	2.34E-06	1.45E-03	3.96E-03	2.51E-03	9.38E-02	9.47E-02	2.03E-01
2657	490360.04	3858910.04	0.02815	0.02048	0.02625	0.05981	0.012	0.038	0.0194	0.02048	1.96E-01	3.78E-02	2.73E-06	2.11E-03	3.82E-03	3.57E-03	1.38E-01	1.39E-01	2.42E-01
2658	490410.04	3858910.04	0.02768	0.01977	0.02643	0.05754	0.012	0.037	0.0188	0.01977	1.93E-01	3.65E-02	2.75E-06	2.03E-03	3.83E-03	3.45E-03	1.33E-01	1.34E-01	2.37E-01
2659	490460.04	3858910.04	0.02725	0.01906	0.02671	0.05539	0.012	0.035	0.0181	0.01906	1.90E-01	3.52E-02	2.78E-06	1.95E-03	3.84E-03	3.33E-03	1.28E-01	1.30E-01	2.33E-01
2660	490510.04	3858910.04	0.02686	0.01835	0.02693	0.05331	0.012	0.034	0.0174	0.01835	1.87E-01	3.39E-02	2.80E-06	1.88E-03	3.84E-03	3.21E-03	1.23E-01	1.25E-01	2.29E-01
2661	490560.04	3858910.04	0.0265	0.01765	0.02699	0.05129	0.012	0.033	0.0168	0.01765	1.85E-01	3.26E-02	2.81E-06	1.81E-03	3.84E-03	3.09E-03	1.19E-01	1.20E-01	2.25E-01
2662	490610.04	3858910.04	0.02617	0.01697	0.02685	0.04931	0.012	0.032	0.0161	0.01697	1.82E-01	3.13E-02	2.80E-06	1.74E-03	3.84E-03	2.98E-03	1.14E-01	1.15E-01	2.21E-01
2663	490660.04	3858910.04	0.02581	0.01641	0.02664	0.04756	0.012	0.031	0.0156	0.01641	1.80E-01	3.03E-02	2.77E-06	1.67E-03	3.82E-03	2.89E-03	1.10E-01	1.12E-01	2.18E-01
2664	490710.04	3858910.04	0.0255	0.01582	0.02629	0.04565	0.012	0.03	0.0151	0.01582	1.78E-01	2.92E-02	2.74E-06	1.61E-03	3.81E-03	2.79E-03	1.07E-01	1.08E-01	2.14E-01

2665	490760.04	3858910.04	0.02524	0.0152	0.02587	0.04357	0.012	0.029	0.0145	0.0152	1.76E-01	2.81E-02	2.69E-06	1.53E-03	3.80E-03	2.69E-03	1.02E-01	1.03E-01	2.11E-01
2666	490810.04	3858910.04	0.02493	0.01473	0.02562	0.04193	0.012	0.028	0.014	0.01473	1.74E-01	2.72E-02	2.67E-06	1.48E-03	3.78E-03	2.61E-03	9.94E-02	1.00E-01	2.08E-01
2667	490860.04	3858910.04	0.0247	0.01417	0.02526	0.04005	0.012	0.027	0.0135	0.01417	1.72E-01	2.62E-02	2.63E-06	1.41E-03	3.76E-03	2.52E-03	9.57E-02	9.64E-02	2.05E-01
2668	490360.04	3858960.04	0.02852	0.02148	0.03118	0.06082	0.012	0.039	0.0204	0.02148	1.99E-01	3.97E-02	3.25E-06	2.14E-03	3.63E-03	3.67E-03	1.45E-01	1.46E-01	2.47E-01
2669	490410.04	3858960.04	0.02804	0.02062	0.03153	0.05819	0.012	0.038	0.0196	0.02062	1.95E-01	3.81E-02	3.28E-06	2.05E-03	3.65E-03	3.53E-03	1.39E-01	1.40E-01	2.42E-01
2670	490460.04	3858960.04	0.02761	0.01976	0.03172	0.05566	0.012	0.036	0.0188	0.01976	1.92E-01	3.65E-02	3.30E-06	1.96E-03	3.67E-03	3.39E-03	1.33E-01	1.34E-01	2.37E-01
2671	490510.04	3858960.04	0.02719	0.019	0.03172	0.05345	0.012	0.035	0.0181	0.019	1.90E-01	3.51E-02	3.30E-06	1.88E-03	3.67E-03	3.27E-03	1.28E-01	1.29E-01	2.32E-01
2672	490560.04	3858960.04	0.02679	0.01828	0.03148	0.05138	0.012	0.034	0.0174	0.01828	1.87E-01	3.38E-02	3.28E-06	1.81E-03	3.67E-03	3.15E-03	1.23E-01	1.24E-01	2.28E-01
2673	490610.04	3858960.04	0.02647	0.01748	0.03097	0.04901	0.012	0.032	0.0167	0.01748	1.85E-01	3.23E-02	3.22E-06	1.72E-03	3.67E-03	3.02E-03	1.18E-01	1.19E-01	2.24E-01
2674	490660.04	3858960.04	0.02604	0.01698	0.03073	0.04744	0.012	0.031	0.0162	0.01698	1.82E-01	3.14E-02	3.20E-06	1.67E-03	3.66E-03	2.94E-03	1.15E-01	1.15E-01	2.20E-01
2675	490710.04	3858960.04	0.02576	0.01627	0.03022	0.04519	0.012	0.03	0.0155	0.01627	1.80E-01	3.00E-02	3.15E-06	1.59E-03	3.65E-03	2.82E-03	1.10E-01	1.11E-01	2.17E-01
2676	490760.04	3858960.04	0.02546	0.01565	0.02982	0.04316	0.012	0.029	0.0149	0.01565	1.77E-01	2.89E-02	3.10E-06	1.52E-03	3.64E-03	2.72E-03	1.06E-01	1.06E-01	2.14E-01
2677	490810.04	3858960.04	0.02518	0.01506	0.02942	0.04125	0.012	0.028	0.0144	0.01506	1.76E-01	2.78E-02	3.06E-06	1.45E-03	3.62E-03	2.63E-03	1.02E-01	1.02E-01	2.10E-01
2678	490860.04	3858960.04	0.02495	0.01444	0.02885	0.03929	0.011	0.027	0.0138	0.01444	1.74E-01	2.67E-02	3.00E-06	1.38E-03	3.59E-03	2.53E-03	9.77E-02	9.82E-02	2.08E-01
2679	490360.04	3859010.04	0.02893	0.0226	0.03853	0.06236	0.011	0.04	0.0216	0.0226	2.02E-01	4.17E-02	4.01E-06	2.19E-03	3.46E-03	3.80E-03	1.53E-01	1.54E-01	2.52E-01
2680	490410.04	3859010.04	0.02844	0.02158	0.0386	0.05931	0.011	0.039	0.0206	0.02158	1.98E-01	3.99E-02	4.02E-06	2.09E-03	3.48E-03	3.63E-03	1.46E-01	1.47E-01	2.46E-01
2681	490460.04	3859010.04	0.02802	0.02051	0.0382	0.05624	0.011	0.037	0.0196	0.02051	1.95E-01	3.79E-02	3.98E-06	1.98E-03	3.50E-03	3.46E-03	1.39E-01	1.39E-01	2.41E-01
2682	490510.04	3859010.04	0.02763	0.01953	0.03759	0.05343	0.011	0.035	0.0186	0.01953	1.93E-01	3.61E-02	3.91E-06	1.88E-03	3.52E-03	3.30E-03	1.32E-01	1.33E-01	2.37E-01
2683	490560.04	3859010.04	0.02715	0.01888	0.03719	0.05149	0.011	0.034	0.018	0.01888	1.89E-01	3.49E-02	3.87E-06	1.81E-03	3.52E-03	3.20E-03	1.28E-01	1.28E-01	2.32E-01
2684	490610.04	3859010.04	0.0268	0.01803	0.03651	0.04896	0.011	0.033	0.0172	0.01803	1.87E-01	3.33E-02	3.80E-06	1.72E-03	3.52E-03	3.06E-03	1.22E-01	1.23E-01	2.28E-01
2685	490660.04	3859010.04	0.02635	0.01751	0.03627	0.04733	0.011	0.032	0.0167	0.01751	1.84E-01	3.23E-02	3.78E-06	1.67E-03	3.51E-03	2.98E-03	1.18E-01	1.19E-01	2.24E-01
2686	490710.04	3859010.04	0.02605	0.01672	0.03556	0.0449	0.011	0.03	0.016	0.01672	1.82E-01	3.09E-02	3.70E-06	1.58E-03	3.51E-03	2.85E-03	1.13E-01	1.14E-01	2.20E-01
2687	490760.04	3859010.04	0.02576	0.01603	0.03483	0.04275	0.011	0.029	0.0153	0.01603	1.80E-01	2.96E-02	3.63E-06	1.50E-03	3.49E-03	2.75E-03	1.09E-01	1.09E-01	2.16E-01
2688	490810.04	3859010.04	0.02548	0.01538	0.03395	0.04074	0.011	0.028	0.0147	0.01538	1.78E-01	2.84E-02	3.53E-06	1.43E-03	3.47E-03	2.64E-03	1.04E-01	1.05E-01	2.13E-01
2689	490860.04	3859010.04	0.0252	0.0148	0.03301	0.03898	0.011	0.027	0.0142	0.0148	1.76E-01	2.73E-02	3.44E-06	1.37E-03	3.44E-03	2.55E-03	1.00E-01	1.01E-01	2.10E-01
2690	490360.04	3859060.04	0.02943	0.0238	0.04855	0.06429	0.01	0.042	0.0228	0.0238	2.05E-01	4.40E-02	5.05E-06	2.26E-03	3.28E-03	3.93E-03	1.61E-01	1.62E-01	2.58E-01
2691	490410.04	3859060.04	0.02897	0.02245	0.04763	0.06035	0.011	0.039	0.0215	0.02245	2.02E-01	4.15E-02	4.96E-06	2.12E-03	3.31E-03	3.71E-03	1.52E-01	1.53E-01	2.52E-01
2692	490460.04	3859060.04	0.02849	0.02134	0.04672	0.05715	0.011	0.038	0.0204	0.02134	1.99E-01	3.94E-02	4.86E-06	2.01E-03	3.34E-03	3.53E-03	1.45E-01	1.45E-01	2.47E-01
2693	490510.04	3859060.04	0.02802	0.02038	0.04588	0.05438	0.011	0.036	0.0195	0.02038	1.95E-01	3.76E-02	4.78E-06	1.91E-03	3.36E-03	3.38E-03	1.38E-01	1.39E-01	2.41E-01
2694	490560.04	3859060.04	0.02761	0.01939	0.04488	0.05148	0.011	0.034	0.0186	0.01939	1.92E-01	3.58E-02	4.67E-06	1.81E-03	3.37E-03	3.23E-03	1.32E-01	1.32E-01	2.36E-01
2695	490610.04	3859060.04	0.02716	0.01866	0.04415	0.04929	0.011	0.033	0.0179	0.01866	1.89E-01	3.45E-02	4.60E-06	1.73E-03	3.37E-03	3.12E-03	1.27E-01	1.27E-01	2.32E-01
2696	490660.04	3859060.04	0.02673	0.01799	0.04334	0.04724	0.011	0.032	0.0172	0.01799	1.86E-01	3.32E-02	4.51E-06	1.66E-03	3.37E-03	3.01E-03	1.22E-01	1.22E-01	2.27E-01
2697	490710.04	3859060.04	0.02642	0.01715	0.04188	0.04471	0.011	0.031	0.0164	0.01715	1.84E-01	3.17E-02	4.36E-06	1.57E-03	3.36E-03	2.88E-03	1.16E-01	1.17E-01	2.23E-01
2698	490760.04	3859060.04	0.02611	0.01641	0.04034	0.04251	0.011	0.029	0.0157	0.01641	1.82E-01	3.03E-02	4.20E-06	1.50E-03	3.35E-03	2.77E-03	1.11E-01	1.12E-01	2.20E-01
2699	490810.04	3859060.04	0.02582	0.01571	0.03864	0.04044	0.011	0.028	0.0151	0.01571	1.80E-01	2.90E-02	4.02E-06	1.42E-03	3.32E-03	2.66E-03	1.07E-01	1.07E-01	2.16E-01
2700	490860.04	3859060.04	0.02553	0.0151	0.03698	0.03864	0.01	0.027	0.0145	0.0151	1.78E-01	2.79E-02	3.85E-06	1.36E-03	3.28E-03	2.56E-03	1.03E-01	1.03E-01	2.13E-01
2701	490360.04	3859110.04	0.02994	0.02534	0.06252	0.06733	0.01	0.044	0.0244	0.02534	2.09E-01	4.68E-02	6.51E-06	2.37E-03	3.11E-03	4.11E-03	1.73E-01	1.72E-01	2.65E-01
2702	490410.04	3859110.04	0.02944	0.02381	0.06068	0.06285	0.01	0.041	0.0229	0.02381	2.05E-01	4.40E-02	6.32E-06	2.21E-03	3.15E-03	3.86E-03	1.62E-01	1.62E-01	2.59E-01
2703	490460.04	3859110.04	0.02889	0.02266	0.05931	0.05951	0.01	0.039	0.0218	0.02266	2.01E-01	4.19E-02	6.17E-06	2.09E-03	3.17E-03	3.68E-03	1.54E-01	1.54E-01	2.52E-01
2704	490510.04	3859110.04	0.02852	0.02118	0.05704	0.05531	0.01	0.037	0.0203	0.02118	1.99E-01	3.91E-02	5.94E-06	1.95E-03	3.20E-03	3.46E-03	1.44E-01	1.44E-01	2.47E-01
2705	490560.04	3859110.04	0.02805	0.02018	0.05521	0.05238	0.01	0.035	0.0194	0.02018	1.96E-01	3.73E-02	5.75E-06	1.84E-03	3.21E-03	3.30E-03	1.37E-01	1.37E-01	2.41E-01
2706	490610.04	3859110.04	0.02764	0.01919	0.05297	0.04949	0.01	0.034	0.0184	0.01919	1.93E-01	3.54E-02	5.51E-06	1.74E-03	3.22E-03	3.15E-03	1.31E-01	1.30E-01	2.36E-01
2707	490660.04	3859110.04	0.02729	0.01822	0.05033	0.04662	0.01	0.032	0.0175	0.01822	1.90E-01	3.37E-02	5.24E-06	1.64E-03	3.22E-03	3.00E-03	1.24E-01	1.24E-01	2.32E-01
2708	490710.04	3859110.04	0.02687	0.01754	0.0482	0.0446	0.01	0.031	0.0169	0.01754	1.87E-01	3.24E-02	5.02E-06	1.57E-03	3.22E-03	2.90E-03	1.19E-01	1.19E-01	2.28E-01
2709	490760.04	3859110.04	0.02652	0.01681	0.04574	0.04246	0.01	0.03	0.0162	0.01681	1.85E-01	3.10E-02	4.76E-06	1.49E-03	3.21E-03	2.79E-03	1.14E-01	1.14E-01	2.24E-01
2710	490810.04	3859110.04	0.02623	0.01605	0.04306	0.04027	0.01	0.028	0.0154	0.01605	1.83E-01	2.96E-02	4.48E-06	1.42E-03	3.20E-03	2.67E-03	1.09E-01	1.09E-01	2.20E-01
2711	490860.04	3859110.04	0.02595	0.01536	0.04053	0.03829	0.01	0.027	0.0148	0.01536	1.81E-01	2.84E-02	4.22E-06	1.35E-03	3.16E-03	2.56E-03	1.05E-01	1.04E-01	2.17E-01
2712	490360.04	3859160.04	0.03052	0.02726	0.08272	0.07165	0.009	0.046	0.0263	0.02726	2.13E-01	5.03E-02	8.61E-06	2.52E-03	2.94E-03	4.34E-03	1.86E-01	1.85E-01	2.74E-01
2713	490410.04	3859160.04	0.02996	0.02555	0.07926	0.06656	0.009	0.043	0.0246	0.02555	2.09E-01	4.72E-02	8.25E-06	2.34E-03	2.97E-03	4.07E-03	1.75E-01	1.74E-01	2.66E-01
2714	490460.04	3859160.04	0.02941	0.02406	0.07576	0.06225	0.01	0.041	0.0232	0.02406	2.05E-01	4.44E-02	7.89E-06	2.19E-03	3.00E-03	3.84E-03	1.64E-01	1.64E-01	2.59E-01
2715	490510.04	3859160.04	0.0289	0.02268	0.07189	0.05827	0.01	0.039	0.0219	0.02268	2.01E-01	4.19E-02	7.48E-06	2.05E-03	3.03E-03	3.63E-03	1.55E-01	1.54E-01	2.53E-01
2716	490560.04	3859160.04	0.02849	0.02127	0.06734	0.05425	0.01	0.036	0.0205	0.02127	1.99E-01	3.93E-02	7.01E-06	1.91E-03	3.06E-03	3.42E-03	1.45E-01	1.45E-01	2.47E-01
2717	490610.04	3859160.04	0.02802	0.02026	0.0635	0.0513	0.01	0.035	0.0195	0.02026	1.95E-01	3.74E-02	6.61E-06	1.81E-03	3.07E-03	3.27E-03	1.38E-01	1.38E-01	2.42E-01
2718	490660.04	3859160.04	0.02779	0.01882	0.05794	0.04724	0.01	0.032	0.0182	0.01882	1.94E-01	3.48E-02	6.03E-06	1.66E-03	3.07E-03	3.05E-03	1.29E-01	1.28E-01	2.37E-01
2719	490710.04	3859160.04	0.02735	0.01806	0.05454	0.04501	0.01	0.031	0.0174	0.01806	1.91E-01	3.34E-02	5.68E-06	1.58E-03	3.07E-03	2.93E-03	1.23E-01	1.23E-01	2.32E-01
2720	490760.04	3859160.04	0.02708	0.01708	0.05027	0.04225	0.01	0.03	0.0165	0.01708	1.89E-01	3.15E-02	5.23E-06	1.49E-03	3.08E-03	2.79E-03	1.17E-01	1.16E-01	2.28E-01
2721	490810.04	3859160.04	0.02669	0.01644	0.04727	0.0404	0.01	0.029	0.0159	0.01644	1.86E-01	3.04E-02	4.92E-06	1.42E-03	3.07E-03	2.69E-03	1.13E-01	1.12E-01	2.24E-01
2722	490860.04	3859160.04	0.02633	0.0158	0.04435	0.03861	0.01	0.028	0.0153	0.0158	1.84E-01	2.92E-02	4.62E-06	1.36E-03	3.05E-03	2.59E-03	1.08E-01	1.07E-01	2.21E-01

2723	490360.04	3859210.04	0.03122	0.02955	0.10923	0.07731	0.009	0.049	0.0287	0.02955	2.18E-01	5.46E-02	1.14E-05	2.72E-03	2.78E-03	4.64E-03	2.03E-01	2.01E-01	2.84E-01
2724	490410.04	3859210.04	0.03048	0.02798	0.10279	0.07242	0.009	0.047	0.0271	0.02798	2.12E-01	5.17E-02	1.07E-05	2.55E-03	2.80E-03	4.39E-03	1.92E-01	1.90E-01	2.76E-01
2725	490460.04	3859210.04	0.02999	0.02576	0.09478	0.06601	0.009	0.043	0.0249	0.02576	2.09E-01	4.76E-02	9.87E-06	2.32E-03	2.85E-03	4.05E-03	1.77E-01	1.75E-01	2.67E-01
2726	490510.04	3859210.04	0.02946	0.02413	0.08759	0.06129	0.009	0.04	0.0234	0.02413	2.05E-01	4.46E-02	9.12E-06	2.16E-03	2.88E-03	3.80E-03	1.65E-01	1.64E-01	2.60E-01
2727	490560.04	3859210.04	0.02889	0.0229	0.08146	0.05772	0.009	0.039	0.0222	0.0229	2.01E-01	4.23E-02	8.48E-06	2.03E-03	2.90E-03	3.62E-03	1.57E-01	1.56E-01	2.54E-01
2728	490610.04	3859210.04	0.02844	0.02156	0.07493	0.0539	0.009	0.036	0.0209	0.02156	1.98E-01	3.98E-02	7.80E-06	1.90E-03	2.92E-03	3.42E-03	1.48E-01	1.47E-01	2.48E-01
2729	490660.04	3859210.04	0.02813	0.02003	0.06768	0.04963	0.009	0.034	0.0194	0.02003	1.96E-01	3.70E-02	7.05E-06	1.75E-03	2.93E-03	3.19E-03	1.37E-01	1.36E-01	2.42E-01
2730	490710.04	3859210.04	0.02769	0.01901	0.06256	0.04683	0.009	0.032	0.0184	0.01901	1.93E-01	3.51E-02	6.51E-06	1.65E-03	2.94E-03	3.04E-03	1.30E-01	1.29E-01	2.37E-01
2731	490760.04	3859210.04	0.02743	0.01798	0.05645	0.04387	0.009	0.031	0.0174	0.01798	1.91E-01	3.32E-02	5.88E-06	1.54E-03	2.95E-03	2.88E-03	1.23E-01	1.22E-01	2.33E-01
2732	490810.04	3859210.04	0.0269	0.01748	0.05341	0.04242	0.009	0.03	0.0169	0.01748	1.88E-01	3.23E-02	5.56E-06	1.49E-03	2.95E-03	2.81E-03	1.20E-01	1.19E-01	2.28E-01
2733	490860.04	3859210.04	0.02641	0.01698	0.05049	0.04102	0.009	0.029	0.0165	0.01698	1.84E-01	3.14E-02	5.26E-06	1.44E-03	2.95E-03	2.73E-03	1.17E-01	1.15E-01	2.24E-01
2734	490360.04	3859260.04	0.03215	0.03212	0.13843	0.0843	0.008	0.053	0.0313	0.03212	2.24E-01	5.93E-02	1.44E-05	2.97E-03	2.63E-03	4.99E-03	2.22E-01	2.18E-01	2.97E-01
2735	490410.04	3859260.04	0.03134	0.0301	0.12633	0.07792	0.008	0.05	0.0293	0.0301	2.18E-01	5.56E-02	1.32E-05	2.74E-03	2.66E-03	4.67E-03	2.08E-01	2.05E-01	2.87E-01
2736	490460.04	3859260.04	0.03056	0.02845	0.11571	0.0728	0.009	0.047	0.0277	0.02845	2.13E-01	5.25E-02	1.20E-05	2.56E-03	2.69E-03	4.41E-03	1.96E-01	1.93E-01	2.78E-01
2737	490510.04	3859260.04	0.02984	0.02689	0.1062	0.06813	0.009	0.044	0.0261	0.02689	2.08E-01	4.97E-02	1.11E-05	2.40E-03	2.71E-03	4.18E-03	1.85E-01	1.83E-01	2.69E-01
2738	490560.04	3859260.04	0.02929	0.02519	0.0965	0.06317	0.009	0.042	0.0245	0.02519	2.04E-01	4.65E-02	1.00E-05	2.22E-03	2.74E-03	3.92E-03	1.73E-01	1.71E-01	2.62E-01
2739	490610.04	3859260.04	0.02888	0.02331	0.08658	0.05786	0.009	0.039	0.0226	0.02331	2.01E-01	4.31E-02	9.01E-06	2.04E-03	2.77E-03	3.64E-03	1.60E-01	1.59E-01	2.55E-01
2740	490660.04	3859260.04	0.02823	0.02245	0.08027	0.05529	0.009	0.037	0.0218	0.02245	1.97E-01	4.15E-02	8.36E-06	1.95E-03	2.79E-03	3.51E-03	1.54E-01	1.53E-01	2.48E-01
2741	490710.04	3859260.04	0.02772	0.02126	0.07385	0.05204	0.009	0.035	0.0206	0.02126	1.93E-01	3.93E-02	7.69E-06	1.83E-03	2.81E-03	3.33E-03	1.46E-01	1.45E-01	2.42E-01
2742	490760.04	3859260.04	0.02744	0.01992	0.06579	0.04828	0.009	0.033	0.0194	0.01992	1.91E-01	3.68E-02	6.85E-06	1.70E-03	2.81E-03	3.13E-03	1.37E-01	1.35E-01	2.37E-01
2743	490810.04	3859260.04	0.02693	0.01922	0.06117	0.04629	0.009	0.032	0.0187	0.01922	1.88E-01	3.55E-02	6.37E-06	1.63E-03	2.82E-03	3.03E-03	1.32E-01	1.31E-01	2.32E-01
2744	490860.04	3859260.04	0.02644	0.01855	0.05698	0.04445	0.009	0.031	0.018	0.01855	1.84E-01	3.43E-02	5.93E-06	1.56E-03	2.82E-03	2.93E-03	1.28E-01	1.26E-01	2.27E-01
2745	490360.04	3859310.04	0.0332	0.03595	0.16745	0.09606	0.008	0.059	0.0352	0.03595	2.31E-01	6.64E-02	1.74E-05	3.38E-03	2.49E-03	5.59E-03	2.50E-01	2.44E-01	3.14E-01
2746	490410.04	3859310.04	0.03224	0.03349	0.14906	0.08779	0.008	0.055	0.0328	0.03349	2.25E-01	6.19E-02	1.55E-05	3.09E-03	2.52E-03	5.18E-03	2.32E-01	2.28E-01	3.02E-01
2747	490460.04	3859310.04	0.03136	0.0314	0.13349	0.081	0.008	0.051	0.0307	0.0314	2.19E-01	5.80E-02	1.39E-05	2.85E-03	2.54E-03	4.84E-03	2.17E-01	2.14E-01	2.91E-01
2748	490510.04	3859310.04	0.03052	0.02972	0.12043	0.07563	0.008	0.049	0.029	0.02972	2.13E-01	5.49E-02	1.25E-05	2.66E-03	2.57E-03	4.57E-03	2.06E-01	2.02E-01	2.81E-01
2749	490560.04	3859310.04	0.02976	0.02811	0.1089	0.07065	0.008	0.046	0.0274	0.02811	2.07E-01	5.19E-02	1.13E-05	2.49E-03	2.59E-03	4.32E-03	1.94E-01	1.91E-01	2.72E-01
2750	490610.04	3859310.04	0.02905	0.02673	0.09903	0.06647	0.008	0.044	0.0261	0.02673	2.03E-01	4.94E-02	1.03E-05	2.34E-03	2.61E-03	4.10E-03	1.85E-01	1.82E-01	2.64E-01
2751	490660.04	3859310.04	0.02845	0.02527	0.08989	0.06219	0.008	0.041	0.0246	0.02527	1.98E-01	4.67E-02	9.36E-06	2.19E-03	2.64E-03	3.88E-03	1.75E-01	1.72E-01	2.56E-01
2752	490710.04	3859310.04	0.02806	0.02339	0.08016	0.05695	0.009	0.038	0.0228	0.02339	1.96E-01	4.32E-02	8.35E-06	2.00E-03	2.67E-03	3.60E-03	1.61E-01	1.59E-01	2.50E-01
2753	490760.04	3859310.04	0.02757	0.02215	0.07275	0.05349	0.009	0.036	0.0216	0.02215	1.92E-01	4.09E-02	7.57E-06	1.88E-03	2.69E-03	3.42E-03	1.53E-01	1.51E-01	2.43E-01
2754	490810.04	3859310.04	0.02703	0.02126	0.06697	0.05099	0.009	0.035	0.0207	0.02126	1.88E-01	3.93E-02	6.97E-06	1.79E-03	2.70E-03	3.29E-03	1.47E-01	1.45E-01	2.38E-01
2755	490860.04	3859310.04	0.0266	0.02025	0.06122	0.04824	0.009	0.033	0.0197	0.02025	1.85E-01	3.74E-02	6.37E-06	1.70E-03	2.70E-03	3.14E-03	1.40E-01	1.38E-01	2.32E-01
2756	490360.04	3859360.04	0.03458	0.04093	0.18699	0.11367	0.008	0.069	0.0403	0.04093	2.41E-01	7.56E-02	1.95E-05	4.00E-03	2.35E-03	6.46E-03	2.86E-01	2.78E-01	3.37E-01
2757	490410.04	3859360.04	0.03332	0.03822	0.16369	0.10332	0.008	0.063	0.0376	0.03822	2.32E-01	7.06E-02	1.70E-05	3.64E-03	2.38E-03	5.95E-03	2.66E-01	2.60E-01	3.21E-01
2758	490460.04	3859360.04	0.0322	0.03588	0.14463	0.09483	0.008	0.059	0.0352	0.03588	2.24E-01	6.63E-02	1.51E-05	3.34E-03	2.40E-03	5.53E-03	2.50E-01	2.44E-01	3.08E-01
2759	490510.04	3859360.04	0.03122	0.03376	0.12867	0.08747	0.008	0.055	0.0331	0.03376	2.18E-01	6.24E-02	1.34E-05	3.08E-03	2.42E-03	5.17E-03	2.35E-01	2.30E-01	2.96E-01
2760	490560.04	3859360.04	0.0304	0.03156	0.11468	0.08026	0.008	0.051	0.0309	0.03156	2.12E-01	5.83E-02	1.19E-05	2.82E-03	2.45E-03	4.80E-03	2.19E-01	2.15E-01	2.85E-01
2761	490610.04	3859360.04	0.02966	0.02961	0.10278	0.07414	0.008	0.048	0.029	0.02961	2.07E-01	5.47E-02	1.07E-05	2.61E-03	2.47E-03	4.49E-03	2.05E-01	2.01E-01	2.75E-01
2762	490660.04	3859360.04	0.02895	0.02799	0.0928	0.06916	0.008	0.045	0.0274	0.02799	2.02E-01	5.17E-02	9.66E-06	2.43E-03	2.50E-03	4.23E-03	1.94E-01	1.90E-01	2.66E-01
2763	490710.04	3859360.04	0.02839	0.02621	0.08347	0.06398	0.008	0.042	0.0256	0.02621	1.98E-01	4.84E-02	8.69E-06	2.25E-03	2.52E-03	3.96E-03	1.82E-01	1.78E-01	2.58E-01
2764	490760.04	3859360.04	0.02789	0.02454	0.07506	0.05928	0.008	0.04	0.024	0.02454	1.94E-01	4.53E-02	7.81E-06	2.09E-03	2.55E-03	3.72E-03	1.70E-01	1.67E-01	2.51E-01
2765	490810.04	3859360.04	0.02725	0.02365	0.06924	0.05668	0.008	0.038	0.0231	0.02365	1.90E-01	4.37E-02	7.21E-06	1.99E-03	2.57E-03	3.59E-03	1.64E-01	1.61E-01	2.45E-01
2766	490860.04	3859360.04	0.02673	0.02253	0.06337	0.05356	0.008	0.036	0.022	0.02253	1.86E-01	4.16E-02	6.60E-06	1.89E-03	2.58E-03	3.42E-03	1.56E-01	1.53E-01	2.39E-01
2767	490360.04	3859410.04	0.03642	0.04754	0.18561	0.14168	0.007	0.083	0.047	0.04754	2.54E-01	8.78E-02	1.93E-05	4.99E-03	2.23E-03	7.79E-03	3.33E-01	3.23E-01	3.67E-01
2768	490410.04	3859410.04	0.03477	0.04422	0.16127	0.1262	0.007	0.075	0.0437	0.04422	2.42E-01	8.17E-02	1.68E-05	4.44E-03	2.25E-03	7.04E-03	3.10E-01	3.01E-01	3.47E-01
2769	490460.04	3859410.04	0.03339	0.04125	0.14159	0.1136	0.007	0.068	0.0407	0.04125	2.33E-01	7.62E-02	1.47E-05	4.00E-03	2.27E-03	6.42E-03	2.88E-01	2.80E-01	3.30E-01
2770	490510.04	3859410.04	0.03222	0.03856	0.12538	0.10308	0.007	0.063	0.038	0.03856	2.25E-01	7.12E-02	1.31E-05	3.63E-03	2.29E-03	5.91E-03	2.69E-01	2.62E-01	3.15E-01
2771	490560.04	3859410.04	0.03119	0.03617	0.11189	0.09426	0.007	0.058	0.0356	0.03617	2.17E-01	6.68E-02	1.16E-05	3.32E-03	2.31E-03	5.47E-03	2.52E-01	2.46E-01	3.02E-01
2772	490610.04	3859410.04	0.03029	0.03398	0.10046	0.08668	0.007	0.054	0.0334	0.03398	2.11E-01	6.28E-02	1.05E-05	3.05E-03	2.33E-03	5.10E-03	2.37E-01	2.31E-01	2.90E-01
2773	490660.04	3859410.04	0.02956	0.03156	0.09019	0.0789	0.008	0.05	0.031	0.03156	2.06E-01	5.83E-02	9.39E-06	2.78E-03	2.36E-03	4.71E-03	2.20E-01	2.15E-01	2.79E-01
2774	490710.04	3859410.04	0.02887	0.02953	0.08153	0.07277	0.008	0.047	0.029	0.02953	2.01E-01	5.45E-02	8.49E-06	2.56E-03	2.39E-03	4.39E-03	2.06E-01	2.01E-01	2.70E-01
2775	490760.04	3859410.04	0.02831	0.02748	0.07347	0.06669	0.008	0.043	0.027	0.02748	1.97E-01	5.08E-02	7.65E-06	2.35E-03	2.42E-03	4.08E-03	1.91E-01	1.87E-01	2.61E-01
2776	490810.04	3859410.04	0.02764	0.02635	0.06747	0.06329	0.008	0.042	0.0259	0.02635	1.93E-01	4.87E-02	7.02E-06	2.23E-03	2.43E-03	3.92E-03	1.83E-01	1.79E-01	2.54E-01
2777	490860.04	3859410.04	0.02695	0.02544	0.06262	0.06057	0.008	0.04	0.025	0.02544	1.88E-01	4.70E-02	6.52E-06	2.13E-03	2.45E-03	3.78E-03	1.77E-01	1.73E-01	2.47E-01
2778	490360.04	3859460.04	0.03899	0.05679	0.16369	0.19	0.007	0.105	0.0565	0.05679	2.72E-01	1.05E-01	1.70E-05	6.69E-03	2.12E-03	9.90E-03	4.00E-01	3.86E-01	4.09E-01
2779	490410.04	3859460.04	0.0369	0.05199	0.14304	0.16135	0.007	0.091	0.0516	0.05199	2.57E-01	9.60E-02	1.49E-05	5.68E-03	2.14E-03	8.57E-03	3.66E-01	3.54E-01	3.82E-01
2780	490460.04	3859460.04	0.03517	0.04818	0.12647	0.14143	0.007	0.081	0.0478	0.04818	2.45E-01	8.90E-02	1.32E-05	4.98E-03	2.16E-03	7.64E-03	3.38E-01	3.28E-01	3.60E-01

2781	490510.04	3859460.04	0.03372	0.04476	0.11269	0.12553	0.007	0.073	0.0443	0.04476	2.35E-01	8.27E-02	1.17E-05	4.42E-03	2.17E-03	6.89E-03	3.14E-01	3.04E-01	3.41E-01
2782	490560.04	3859460.04	0.03246	0.04178	0.10122	0.11298	0.007	0.067	0.0414	0.04178	2.26E-01	7.72E-02	1.05E-05	3.98E-03	2.19E-03	6.30E-03	2.93E-01	2.84E-01	3.25E-01
2783	490610.04	3859460.04	0.03138	0.03892	0.09129	0.10202	0.007	0.062	0.0385	0.03892	2.19E-01	7.19E-02	9.50E-06	3.59E-03	2.21E-03	5.79E-03	2.73E-01	2.65E-01	3.10E-01
2784	490660.04	3859460.04	0.03045	0.03626	0.08267	0.0926	0.007	0.057	0.0358	0.03626	2.12E-01	6.70E-02	8.61E-06	3.26E-03	2.23E-03	5.34E-03	2.54E-01	2.47E-01	2.97E-01
2785	490710.04	3859460.04	0.02956	0.03406	0.07556	0.08529	0.007	0.053	0.0336	0.03406	2.06E-01	6.29E-02	7.87E-06	3.00E-03	2.26E-03	4.98E-03	2.38E-01	2.32E-01	2.86E-01
2786	490760.04	3859460.04	0.02882	0.03194	0.06895	0.07847	0.007	0.05	0.0315	0.03194	2.01E-01	5.90E-02	7.18E-06	2.76E-03	2.28E-03	4.65E-03	2.23E-01	2.17E-01	2.76E-01
2787	490810.04	3859460.04	0.02812	0.03003	0.06327	0.07269	0.007	0.047	0.0296	0.03003	1.96E-01	5.55E-02	6.59E-06	2.56E-03	2.30E-03	4.37E-03	2.10E-01	2.04E-01	2.66E-01
2788	490860.04	3859460.04	0.02739	0.02873	0.05875	0.06876	0.007	0.044	0.0283	0.02873	1.91E-01	5.31E-02	6.12E-06	2.42E-03	2.32E-03	4.18E-03	2.01E-01	1.95E-01	2.58E-01
2789	490360.04	3859510.04	0.04403	0.0709	0.13419	0.28425	0.006	0.142	0.0708	0.0709	3.07E-01	1.31E-01	1.40E-05	1.00E-02	2.03E-03	1.34E-02	5.01E-01	4.82E-01	4.83E-01
2790	490410.04	3859510.04	0.04089	0.06417	0.11972	0.2289	0.007	0.119	0.0641	0.06417	2.85E-01	1.19E-01	1.25E-05	8.06E-03	2.04E-03	1.12E-02	4.54E-01	4.36E-01	4.42E-01
2791	490460.04	3859510.04	0.03837	0.0583	0.10728	0.18975	0.007	0.101	0.0581	0.0583	2.68E-01	1.08E-01	1.12E-05	6.68E-03	2.05E-03	9.52E-03	4.12E-01	3.96E-01	4.09E-01
2792	490510.04	3859510.04	0.03629	0.05356	0.09684	0.16223	0.007	0.089	0.0533	0.05356	2.53E-01	9.89E-02	1.01E-05	5.71E-03	2.06E-03	8.38E-03	3.78E-01	3.64E-01	3.82E-01
2793	490560.04	3859510.04	0.03454	0.04946	0.08787	0.14174	0.007	0.08	0.0492	0.04946	2.41E-01	9.13E-02	9.15E-06	4.99E-03	2.08E-03	7.50E-03	3.49E-01	3.36E-01	3.59E-01
2794	490610.04	3859510.04	0.03308	0.04571	0.08002	0.12514	0.007	0.072	0.0455	0.04571	2.31E-01	8.44E-02	8.33E-06	4.40E-03	2.10E-03	6.77E-03	3.22E-01	3.11E-01	3.40E-01
2795	490660.04	3859510.04	0.03182	0.0424	0.07323	0.11199	0.007	0.066	0.0421	0.0424	2.22E-01	7.83E-02	7.62E-06	3.94E-03	2.12E-03	6.19E-03	2.98E-01	2.88E-01	3.23E-01
2796	490710.04	3859510.04	0.03073	0.0394	0.06723	0.10108	0.007	0.061	0.0391	0.0394	2.14E-01	7.28E-02	7.00E-06	3.56E-03	2.14E-03	5.69E-03	2.77E-01	2.68E-01	3.08E-01
2797	490760.04	3859510.04	0.02977	0.0368	0.062	0.09222	0.007	0.056	0.0365	0.0368	2.08E-01	6.80E-02	6.45E-06	3.25E-03	2.16E-03	5.28E-03	2.59E-01	2.50E-01	2.95E-01
2798	490810.04	3859510.04	0.02887	0.03466	0.05752	0.08528	0.007	0.053	0.0344	0.03466	2.01E-01	6.40E-02	5.99E-06	3.00E-03	2.18E-03	4.96E-03	2.43E-01	2.36E-01	2.83E-01
2799	490860.04	3859510.04	0.02808	0.03261	0.05341	0.07895	0.007	0.05	0.0323	0.03261	1.96E-01	6.02E-02	5.56E-06	2.78E-03	2.20E-03	4.66E-03	2.29E-01	2.22E-01	2.73E-01
2800	490360.04	3859560.04	0.05781	0.09416	0.10495	0.55005	0.006	0.223	0.0945	0.09416	4.03E-01	1.74E-01	1.09E-05	1.94E-02	1.94E-03	2.10E-02	6.69E-01	6.40E-01	6.48E-01
2801	490410.04	3859560.04	0.05034	0.08345	0.09637	0.38242	0.006	0.172	0.0837	0.08345	3.51E-01	1.54E-01	1.00E-05	1.35E-02	1.95E-03	1.62E-02	5.93E-01	5.67E-01	5.62E-01
2802	490460.04	3859560.04	0.04493	0.07449	0.08826	0.28919	0.006	0.139	0.0747	0.07449	3.13E-01	1.38E-01	9.19E-06	1.02E-02	1.96E-03	1.31E-02	5.30E-01	5.07E-01	4.99E-01
2803	490510.04	3859560.04	0.04106	0.06654	0.08085	0.23025	0.006	0.116	0.0667	0.06654	2.86E-01	1.23E-01	8.42E-06	8.10E-03	1.97E-03	1.09E-02	4.72E-01	4.52E-01	4.50E-01
2804	490560.04	3859560.04	0.03812	0.06061	0.07464	0.19157	0.006	0.101	0.0607	0.06061	2.66E-01	1.12E-01	7.77E-06	6.74E-03	1.98E-03	9.46E-03	4.30E-01	4.12E-01	4.14E-01
2805	490610.04	3859560.04	0.03583	0.05531	0.06888	0.16307	0.006	0.088	0.0554	0.05531	2.50E-01	1.02E-01	7.17E-06	5.74E-03	2.00E-03	8.32E-03	3.92E-01	3.76E-01	3.84E-01
2806	490660.04	3859560.04	0.03397	0.05078	0.06376	0.14192	0.006	0.079	0.0508	0.05078	2.37E-01	9.38E-02	6.64E-06	5.00E-03	2.01E-03	7.43E-03	3.60E-01	3.45E-01	3.59E-01
2807	490710.04	3859560.04	0.03245	0.04673	0.05913	0.12512	0.006	0.071	0.0467	0.04673	2.26E-01	8.63E-02	6.16E-06	4.40E-03	2.03E-03	6.72E-03	3.31E-01	3.18E-01	3.39E-01
2808	490760.04	3859560.04	0.0312	0.04294	0.05486	0.1111	0.007	0.065	0.0428	0.04294	2.18E-01	7.93E-02	5.71E-06	3.91E-03	2.06E-03	6.10E-03	3.04E-01	2.92E-01	3.20E-01
2809	490810.04	3859560.04	0.03008	0.0399	0.05117	0.10062	0.007	0.06	0.0398	0.0399	2.10E-01	7.37E-02	5.33E-06	3.54E-03	2.07E-03	5.63E-03	2.82E-01	2.71E-01	3.05E-01
2810	490860.04	3859560.04	0.02911	0.03716	0.04779	0.09176	0.007	0.056	0.037	0.03716	2.03E-01	6.86E-02	4.98E-06	3.23E-03	2.09E-03	5.23E-03	2.62E-01	2.53E-01	2.92E-01
2811	490187.25	3859422.08	0.04759	0.06779	0.32959	0.27291	0.007	0.147	0.0677	0.06779	3.32E-01	1.25E-01	3.43E-05	9.61E-03	2.16E-03	1.38E-02	4.79E-01	4.61E-01	5.01E-01
2812	490237.25	3859422.08	0.04356	0.06136	0.27155	0.22197	0.007	0.123	0.0611	0.06136	3.04E-01	1.13E-01	2.83E-05	7.81E-03	2.17E-03	1.15E-02	4.33E-01	4.17E-01	4.54E-01
2813	490287.25	3859422.08	0.04036	0.05598	0.2281	0.18704	0.007	0.106	0.0556	0.05598	2.81E-01	1.03E-01	2.37E-05	6.58E-03	2.18E-03	9.93E-03	3.94E-01	3.81E-01	4.17E-01
2814	490337.25	3859422.08	0.0379	0.05124	0.19435	0.15983	0.007	0.092	0.0508	0.05124	2.64E-01	9.46E-02	2.02E-05	5.63E-03	2.20E-03	8.64E-03	3.60E-01	3.48E-01	3.87E-01
2815	490187.25	3859472.08	0.05835	0.08526	0.26644	0.51055	0.007	0.247	0.0854	0.08526	4.07E-01	1.57E-01	2.77E-05	1.80E-02	2.06E-03	2.32E-02	6.05E-01	5.80E-01	6.33E-01
2816	490237.25	3859472.08	0.04982	0.07606	0.22559	0.36196	0.007	0.185	0.076	0.07606	3.47E-01	1.40E-01	2.35E-05	1.27E-02	2.07E-03	1.73E-02	5.38E-01	5.17E-01	5.41E-01
2817	490287.25	3859472.08	0.04449	0.06831	0.19226	0.27606	0.007	0.146	0.0682	0.06831	3.10E-01	1.26E-01	2.00E-05	9.72E-03	2.08E-03	1.37E-02	4.83E-01	4.64E-01	4.80E-01
2818	490337.25	3859472.08	0.04106	0.06213	0.16675	0.22419	0.007	0.121	0.0619	0.06213	2.86E-01	1.15E-01	1.74E-05	7.89E-03	2.09E-03	1.14E-02	4.39E-01	4.22E-01	4.39E-01
2819	490297.07	3859500.42	0.04718	0.07688	0.16402	0.35706	0.006	0.176	0.0768	0.07688	3.29E-01	1.42E-01	1.71E-05	1.26E-02	2.03E-03	1.66E-02	5.44E-01	5.23E-01	5.23E-01
2820	490327.07	3859500.42	0.04483	0.07244	0.15223	0.3045	0.007	0.153	0.0723	0.07244	3.13E-01	1.34E-01	1.58E-05	1.07E-02	2.04E-03	1.44E-02	5.12E-01	4.93E-01	4.93E-01
2821	490297.07	3859530.42	0.05506	0.09141	0.13958	0.55952	0.006	0.235	0.0914	0.09141	3.84E-01	1.69E-01	1.45E-05	1.97E-02	1.98E-03	2.21E-02	6.48E-01	6.22E-01	6.23E-01
2822	490327.07	3859530.42	0.05167	0.08505	0.1314	0.44223	0.006	0.196	0.0851	0.08505	3.60E-01	1.57E-01	1.37E-05	1.56E-02	1.98E-03	1.84E-02	6.03E-01	5.78E-01	5.78E-01
2823	490319.73	3859055.34	0.02978	0.02481	0.04784	0.06746	0.01	0.044	0.0237	0.02481	2.08E-01	4.58E-02	4.98E-06	2.37E-03	3.26E-03	4.10E-03	1.68E-01	1.69E-01	2.63E-01
2824	490319.73	3859105.34	0.03035	0.02641	0.06218	0.07072	0.01	0.046	0.0254	0.02641	2.12E-01	4.88E-02	6.47E-06	2.49E-03	3.09E-03	4.28E-03	1.80E-01	1.80E-01	2.70E-01
2825	490069.73	3859155.34	0.03579	0.03745	0.08415	0.10881	0.009	0.066	0.0363	0.03745	2.50E-01	6.92E-02	8.76E-06	3.83E-03	2.79E-03	6.17E-03	2.57E-01	2.55E-01	3.34E-01
2826	490119.73	3859155.34	0.03458	0.03535	0.08651	0.10021	0.009	0.061	0.0342	0.03535	2.41E-01	6.53E-02	9.01E-06	3.53E-03	2.80E-03	5.76E-03	2.43E-01	2.40E-01	3.21E-01
2827	490269.73	3859155.34	0.03168	0.03024	0.0857	0.08116	0.009	0.051	0.0292	0.03024	2.21E-01	5.59E-02	8.92E-06	2.86E-03	2.88E-03	4.83E-03	2.07E-01	2.06E-01	2.89E-01
2828	490319.73	3859155.34	0.03096	0.02849	0.08298	0.07554	0.009	0.048	0.0275	0.02849	2.16E-01	5.26E-02	8.64E-06	2.66E-03	2.92E-03	4.55E-03	1.95E-01	1.94E-01	2.80E-01
2829	490069.73	3859205.34	0.03718	0.0421	0.13162	0.12496	0.008	0.074	0.0411	0.0421	2.59E-01	7.78E-02	1.37E-05	4.40E-03	2.63E-03	6.95E-03	2.91E-01	2.86E-01	3.56E-01
2830	490119.73	3859205.34	0.0357	0.03973	0.13233	0.11399	0.008	0.069	0.0387	0.03973	2.49E-01	7.34E-02	1.38E-05	4.01E-03	2.64E-03	6.45E-03	2.74E-01	2.70E-01	3.39E-01
2831	490169.73	3859205.34	0.03448	0.0374	0.12927	0.10436	0.009	0.064	0.0364	0.0374	2.40E-01	6.91E-02	1.35E-05	3.67E-03	2.66E-03	5.99E-03	2.58E-01	2.54E-01	3.25E-01
2832	490219.73	3859205.34	0.03347	0.03499	0.1238	0.09563	0.009	0.059	0.034	0.03499	2.33E-01	6.46E-02	1.29E-05	3.37E-03	2.69E-03	5.56E-03	2.41E-01	2.38E-01	3.13E-01
2833	490269.73	3859205.34	0.03261	0.03266	0.11731	0.08758	0.009	0.055	0.0317	0.03266	2.27E-01	6.03E-02	1.22E-05	3.08E-03	2.73E-03	5.15E-03	2.25E-01	2.22E-01	3.01E-01
2834	490319.73	3859205.34	0.03174	0.03084	0.11165	0.08151	0.009	0.052	0.0299	0.03084	2.21E-01	5.70E-02	1.16E-05	2.87E-03	2.76E-03	4.85E-03	2.12E-01	2.10E-01	2.91E-01
2835	490069.73	3859255.34	0.03905	0.04774	0.21286	0.14752	0.008	0.085	0.0469	0.04774	2.72E-01	8.82E-02	2.22E-05	5.19E-03	2.51E-03	7.99E-03	3.32E-01	3.25E-01	3.84E-01
2836	490119.73	3859255.34	0.03732	0.04461	0.20295	0.13193	0.008	0.078	0.0438	0.04461	2.60E-01	8.24E-02	2.11E-05	4.64E-03	2.51E-03	7.29E-03	3.10E-01	3.03E-01	3.64E-01
2837	490169.73	3859255.34	0.03588	0.04173	0.18965	0.11912	0.008	0.071	0.0409	0.04173	2.50E-01	7.71E-02	1.97E-05	4.19E-03	2.53E-03	6.70E-03	2.90E-01	2.84E-01	3.46E-01
2838	490219.73	3859255.34	0.03469	0.03884	0.17451	0.10779	0.008	0.066	0.038	0.03884	2.42E-01	7.17E-02	1.82E-05	3.79E-03	2.55E-03	6.16E-03	2.69E-01	2.64E-01	3.31E-01

2839	490269.73	3859255.34	0.03364	0.03619	0.15973	0.09805	0.008	0.06	0.0353	0.03619	2.35E-01	6.68E-02	1.66E-05	3.45E-03	2.58E-03	5.68E-03	2.50E-01	2.46E-01	3.17E-01
2840	490319.73	3859255.34	0.03266	0.03397	0.14653	0.09035	0.008	0.056	0.0331	0.03397	2.28E-01	6.27E-02	1.53E-05	3.18E-03	2.61E-03	5.30E-03	2.35E-01	2.31E-01	3.05E-01
2841	490069.73	3859305.34	0.04196	0.05525	0.34151	0.18361	0.008	0.102	0.0547	0.05525	2.93E-01	1.02E-01	3.56E-05	6.46E-03	2.39E-03	9.61E-03	3.87E-01	3.76E-01	4.25E-01
2842	490119.73	3859305.34	0.03974	0.05112	0.30345	0.1598	0.008	0.091	0.0505	0.05112	2.77E-01	9.44E-02	3.16E-05	5.62E-03	2.39E-03	8.59E-03	3.58E-01	3.48E-01	3.98E-01
2843	490169.73	3859305.34	0.03791	0.04737	0.26698	0.14137	0.008	0.083	0.0467	0.04737	2.64E-01	8.75E-02	2.78E-05	4.98E-03	2.41E-03	7.77E-03	3.31E-01	3.22E-01	3.76E-01
2844	490219.73	3859305.34	0.0364	0.04389	0.234	0.12601	0.008	0.075	0.0432	0.04389	2.54E-01	8.11E-02	2.44E-05	4.44E-03	2.43E-03	7.05E-03	3.06E-01	2.98E-01	3.56E-01
2845	490269.73	3859305.34	0.03505	0.04073	0.20594	0.11342	0.008	0.069	0.04	0.04073	2.44E-01	7.52E-02	2.14E-05	3.99E-03	2.45E-03	6.44E-03	2.83E-01	2.77E-01	3.39E-01
2846	490319.73	3859305.34	0.03391	0.03779	0.18172	0.10256	0.008	0.063	0.037	0.03779	2.36E-01	6.98E-02	1.89E-05	3.61E-03	2.48E-03	5.91E-03	2.62E-01	2.57E-01	3.24E-01
2847	490069.73	3859355.34	0.04735	0.06607	0.50132	0.25334	0.007	0.135	0.0659	0.06607	3.30E-01	1.22E-01	5.22E-05	8.92E-03	2.28E-03	1.27E-02	4.67E-01	4.49E-01	4.93E-01
2848	490119.73	3859355.34	0.04381	0.0602	0.41218	0.20986	0.007	0.116	0.0599	0.0602	3.05E-01	1.11E-01	4.29E-05	7.39E-03	2.28E-03	1.09E-02	4.24E-01	4.09E-01	4.52E-01
2849	490169.73	3859355.34	0.04111	0.05509	0.34165	0.17902	0.007	0.102	0.0546	0.05509	2.87E-01	1.02E-01	3.56E-05	6.30E-03	2.29E-03	9.57E-03	3.87E-01	3.75E-01	4.19E-01
2850	490219.73	3859355.34	0.03896	0.05048	0.286	0.1556	0.007	0.09	0.0499	0.05048	2.72E-01	9.32E-02	2.98E-05	5.48E-03	2.31E-03	8.48E-03	3.54E-01	3.43E-01	3.92E-01
2851	490269.73	3859355.34	0.0371	0.04662	0.24322	0.13719	0.007	0.081	0.046	0.04662	2.59E-01	8.61E-02	2.53E-05	4.83E-03	2.32E-03	7.61E-03	3.26E-01	3.17E-01	3.69E-01
2852	490319.73	3859355.34	0.03552	0.04303	0.20878	0.12211	0.007	0.073	0.0424	0.04303	2.48E-01	7.95E-02	2.17E-05	4.30E-03	2.35E-03	6.88E-03	3.00E-01	2.93E-01	3.48E-01
2853	490069.73	3859405.34	0.0583	0.08194	0.58677	0.42844	0.007	0.214	0.0822	0.08194	4.06E-01	1.51E-01	6.11E-05	1.51E-02	2.18E-03	2.01E-02	5.82E-01	5.57E-01	6.20E-01
2854	490119.73	3859405.34	0.05139	0.07302	0.45687	0.31952	0.007	0.168	0.073	0.07302	3.58E-01	1.35E-01	4.76E-05	1.12E-02	2.18E-03	1.58E-02	5.17E-01	4.97E-01	5.43E-01
2855	490169.73	3859405.34	0.04656	0.06571	0.36497	0.25313	0.007	0.138	0.0656	0.06571	3.25E-01	1.21E-01	3.80E-05	8.91E-03	2.19E-03	1.30E-02	4.64E-01	4.47E-01	4.88E-01
2856	490219.73	3859405.34	0.043	0.05966	0.29872	0.2092	0.007	0.117	0.0594	0.05966	3.00E-01	1.10E-01	3.11E-05	7.36E-03	2.20E-03	1.10E-02	4.21E-01	4.06E-01	4.45E-01
2857	490269.73	3859405.34	0.04012	0.05434	0.24887	0.17753	0.007	0.101	0.0539	0.05434	2.80E-01	1.00E-01	2.59E-05	6.25E-03	2.22E-03	9.50E-03	3.82E-01	3.70E-01	4.11E-01
2858	490319.73	3859405.34	0.03779	0.04978	0.21086	0.15278	0.007	0.089	0.0493	0.04978	2.63E-01	9.19E-02	2.20E-05	5.38E-03	2.23E-03	8.33E-03	3.50E-01	3.38E-01	3.82E-01
2859	490161.89	3859541.83	0.06659	0.14903	0.16521	0.32075	0.006	0.206	0.1491	0.14903	4.64E-01	2.75E-01	1.72E-05	1.13E-02	1.95E-03	1.94E-02	1.06E+00	1.01E+00	8.15E-01
2860	490171.89	3859541.83	0.06571	0.14378	0.16243	0.36185	0.006	0.232	0.1438	0.14378	4.58E-01	2.66E-01	1.69E-05	1.27E-02	1.95E-03	2.18E-02	1.02E+00	9.78E-01	8.02E-01
2861	490161.89	3859551.83	0.06633	0.16462	0.15069	0.25903	0.006	0.17	0.1646	0.16462	4.62E-01	3.04E-01	1.57E-05	9.12E-03	1.93E-03	1.60E-02	1.17E+00	1.12E+00	8.40E-01
2862	490171.89	3859551.83	0.06567	0.15834	0.14846	0.28621	0.006	0.189	0.1584	0.15834	4.58E-01	2.92E-01	1.55E-05	1.01E-02	1.93E-03	1.77E-02	1.12E+00	1.08E+00	8.25E-01
2863	489799.72	3859348.21	0.07374	0.13983	0.66553	0.30961	0.008	0.223	0.1424	0.13983	5.14E-01	2.58E-01	6.93E-05	1.09E-02	2.36E-03	2.10E-02	1.01E+00	9.51E-01	8.65E-01
2864	489819.72	3859348.21	0.07177	0.12862	0.77104	0.40953	0.007	0.313	0.1306	0.12862	5.00E-01	2.38E-01	8.03E-05	1.44E-02	2.34E-03	2.94E-02	9.25E-01	8.75E-01	8.35E-01
2865	489799.72	3859368.21	0.07798	0.16621	1.08469	0.2214	0.007	0.155	0.1701	0.16621	5.44E-01	3.07E-01	1.13E-04	7.79E-03	2.32E-03	1.46E-02	1.21E+00	1.13E+00	9.50E-01
2866	489819.72	3859368.21	0.07701	0.15068	1.31692	0.27178	0.007	0.195	0.1538	0.15068	5.37E-01	2.78E-01	1.37E-04	9.57E-03	2.31E-03	1.84E-02	1.09E+00	1.02E+00	9.10E-01
2867	489775.41	3859329.72	0.07436	0.13444	0.45139	0.32558	0.008	0.233	0.1367	0.13444	5.18E-01	2.48E-01	4.70E-05	1.15E-02	2.40E-03	2.19E-02	9.68E-01	9.14E-01	8.57E-01
2868	489795.41	3859329.72	0.07164	0.12399	0.45657	0.43579	0.008	0.295	0.1257	0.12399	4.99E-01	2.29E-01	4.75E-05	1.53E-02	2.38E-03	2.78E-02	8.91E-01	8.43E-01	8.22E-01
2869	489775.41	3859349.72	0.0761	0.15858	0.62727	0.23112	0.008	0.161	0.1621	0.15858	5.31E-01	2.93E-01	6.53E-05	8.13E-03	2.37E-03	1.51E-02	1.15E+00	1.08E+00	9.19E-01
2870	489795.41	3859349.72	0.07448	0.14427	0.6687	0.28571	0.008	0.204	0.147	0.14427	5.19E-01	2.66E-01	6.96E-05	1.01E-02	2.36E-03	1.92E-02	1.04E+00	9.81E-01	8.78E-01
2871	489595.05	3859219.43	0.07678	0.12371	0.09998	0.29048	0.009	0.19	0.1254	0.12371	5.35E-01	2.28E-01	1.04E-05	1.02E-02	2.71E-03	1.78E-02	8.89E-01	8.41E-01	8.42E-01
2872	489615.05	3859219.43	0.07437	0.11456	0.10473	0.37102	0.009	0.249	0.1157	0.11456	5.18E-01	2.12E-01	1.09E-05	1.31E-02	2.69E-03	2.34E-02	8.20E-01	7.79E-01	8.10E-01
2873	489595.05	3859239.43	0.07975	0.14418	0.11758	0.21796	0.009	0.139	0.1467	0.14418	5.56E-01	2.66E-01	1.22E-05	7.67E-03	2.68E-03	1.31E-02	1.04E+00	9.80E-01	9.05E-01
2874	489615.05	3859239.43	0.07841	0.13204	0.12387	0.25942	0.008	0.17	0.1339	0.13204	5.47E-01	2.44E-01	1.29E-05	9.13E-03	2.66E-03	1.60E-02	9.49E-01	8.98E-01	8.69E-01
2875	489372.4	3859092.58	0.0721	0.12009	0.03404	0.27092	0.01	0.138	0.1256	0.12009	5.03E-01	2.22E-01	3.54E-06	9.54E-03	3.20E-03	1.30E-02	8.90E-01	8.17E-01	8.23E-01
2876	489422.4	3859092.58	0.06998	0.10085	0.03606	0.40346	0.01	0.237	0.1035	0.10085	4.88E-01	1.86E-01	3.75E-06	1.42E-02	3.12E-03	2.23E-02	7.34E-01	6.86E-01	7.62E-01
2877	489372.4	3859142.58	0.07975	0.18166	0.04083	0.19105	0.01	0.087	0.1962	0.18166	5.56E-01	3.36E-01	4.25E-06	6.72E-03	3.12E-03	8.21E-03	1.39E+00	1.24E+00	1.06E+00
2878	489422.4	3859142.58	0.07877	0.14206	0.04471	0.21235	0.01	0.114	0.1491	0.14206	5.49E-01	2.62E-01	4.65E-06	7.47E-03	3.04E-03	1.07E-02	1.06E+00	9.66E-01	9.23E-01
2879	488870.84	3858666.64	0.08595	0.05886	0.01712	0.25976	0.017	0.174	0.0765	0.05886	5.99E-01	1.09E-01	1.78E-06	9.14E-03	5.27E-03	1.64E-02	5.42E-01	4.00E-01	8.80E-01
2880	488900.84	3858666.64	0.07864	0.05577	0.01714	0.43401	0.017	0.264	0.0699	0.05577	5.48E-01	1.03E-01	1.78E-06	1.53E-02	5.19E-03	2.48E-02	4.96E-01	3.79E-01	8.13E-01
2881	488870.84	3858696.64	0.08253	0.06553	0.01668	0.179	0.016	0.127	0.0869	0.06553	5.75E-01	1.21E-01	1.74E-06	6.30E-03	5.13E-03	1.20E-02	6.16E-01	4.46E-01	8.90E-01
2882	488900.84	3858696.64	0.07635	0.06169	0.01676	0.25274	0.016	0.168	0.0787	0.06169	5.32E-01	1.14E-01	1.74E-06	8.90E-03	5.09E-03	1.58E-02	5.58E-01	4.19E-01	8.14E-01
2883	488889.67	3858683.97	0.07942	0.06027	0.0169	0.26113	0.016	0.173	0.0773	0.06027	5.54E-01	1.11E-01	1.76E-06	9.19E-03	5.16E-03	1.63E-02	5.47E-01	4.10E-01	8.33E-01
2884	488919.67	3858683.97	0.07376	0.05706	0.01695	0.43387	0.016	0.261	0.0707	0.05706	5.14E-01	1.05E-01	1.76E-06	1.53E-02	5.08E-03	2.46E-02	5.01E-01	3.88E-01	7.78E-01
2885	488889.67	3858713.97	0.07758	0.0673	0.01651	0.18046	0.016	0.127	0.0884	0.0673	5.41E-01	1.24E-01	1.72E-06	6.35E-03	5.03E-03	1.19E-02	6.26E-01	4.58E-01	8.57E-01
2886	488919.67	3858713.97	0.07256	0.06326	0.01662	0.25441	0.016	0.167	0.08	0.06326	5.06E-01	1.17E-01	1.73E-06	8.95E-03	4.99E-03	1.57E-02	5.67E-01	4.30E-01	7.89E-01
2887	488906.61	3858703.33	0.07499	0.06248	0.0167	0.24822	0.016	0.165	0.0796	0.06248	5.23E-01	1.15E-01	1.74E-06	8.74E-03	5.05E-03	1.55E-02	5.64E-01	4.25E-01	8.06E-01
2888	488936.61	3858703.33	0.0704	0.05897	0.01676	0.40256	0.016	0.244	0.0726	0.05897	4.91E-01	1.09E-01	1.74E-06	1.42E-02	4.98E-03	2.29E-02	5.15E-01	4.01E-01	7.55E-01
2889	488906.61	3858733.33	0.07431	0.06993	0.01636	0.17566	0.016	0.123	0.0916	0.06993	5.18E-01	1.29E-01	1.70E-06	6.18E-03	4.94E-03	1.16E-02	6.49E-01	4.76E-01	8.44E-01
2890	488936.61	3858733.33	0.07003	0.06561	0.01649	0.24366	0.016	0.16	0.0828	0.06561	4.88E-01	1.21E-01	1.72E-06	8.58E-03	4.89E-03	1.50E-02	5.86E-01	4.46E-01	7.78E-01
2891	488637.63	3858467.85	0.09521	0.0476	0.02368	0.20007	0.021	0.156	0.0799	0.0476	6.64E-01	8.79E-02	2.47E-06	7.04E-03	6.67E-03	1.47E-02	5.66E-01	3.24E-01	1.02E+00
2892	488662.63	3858467.85	0.08898	0.04596	0.02352	0.28305	0.021	0.205	0.0735	0.04596	6.20E-01	8.49E-02	2.45E-06	9.96E-03	6.66E-03	1.92E-02	5.20E-01	3.13E-01	9.49E-01
2893	488637.63	3858492.85	0.09362	0.05107	0.02249	0.15088	0.021	0.125	0.0884	0.05107	6.53E-01	9.43E-02	2.34E-06	5.31E-03	6.44E-03	1.17E-02	6.26E-01	3.47E-01	1.05E+00
2894	488662.63	3858492.85	0.08898	0.04915	0.02237	0.19537	0.021	0.151	0.0805	0.04915	6.20E-01	9.08E-02	2.33E-06	6.88E-03	6.47E-03	1.42E-02	5.70E-01	3.34E-01	9.75E-01
2895	488687.63	3858492.85	0.08612	0.04733	0.02222	0.2741	0.021	0.197	0.0739	0.04733	6.00E-01	8.74E-02	2.31E-06	9.65E-03	6.47E-03	1.86E-02	5.24E-01	3.22E-01	9.24E-01
2896	488637.63	3858517.85	0.09608	0.05514	0.02141	0.1214	0.02	0.106	0.0989	0.05514	6.70E-01	1.02E-01	2.23E-06	4.27E-03	6.21E-03	9.95E-03	7.01E-01	3.75E-01	1.12E+00

2897	488662.63	3858517.85	0.09234	0.05287	0.02132	0.14857	0.02	0.122	0.0891	0.05287	6.44E-01	9.76E-02	2.22E-06	5.23E-03	6.26E-03	1.14E-02	6.31E-01	3.60E-01	1.04E+00
2898	488687.63	3858517.85	0.09037	0.05079	0.02123	0.19101	0.02	0.147	0.0811	0.05079	6.30E-01	9.38E-02	2.21E-06	6.72E-03	6.28E-03	1.38E-02	5.75E-01	3.45E-01	9.80E-01
2899	488194.42	3857168.98	0.03809	0.01248	0.0116	0.04416	1.483	0.034	0.0195	0.01248	2.66E-01	2.30E-02	1.21E-06	1.55E-03	4.65E-01	3.20E-03	1.38E-01	8.49E-02	8.11E-01
2900	488244.42	3857168.98	0.03708	0.01239	0.0116	0.04221	1.228	0.033	0.0188	0.01239	2.59E-01	2.29E-02	1.21E-06	1.49E-03	3.85E-01	3.12E-03	1.33E-01	8.43E-02	7.20E-01
2901	488294.42	3857168.98	0.03615	0.01227	0.01156	0.04046	1.05	0.032	0.0182	0.01227	2.52E-01	2.27E-02	1.20E-06	1.42E-03	3.29E-01	3.04E-03	1.29E-01	8.34E-02	6.54E-01
2902	488244.42	3857218.98	0.03805	0.01272	0.01193	0.04455	1.384	0.035	0.0195	0.01272	2.65E-01	2.35E-02	1.24E-06	1.57E-03	4.34E-01	3.28E-03	1.38E-01	8.65E-02	7.79E-01
2903	488294.42	3857218.98	0.03706	0.0126	0.01199	0.04259	1.151	0.034	0.0188	0.0126	2.58E-01	2.33E-02	1.25E-06	1.50E-03	3.61E-01	3.18E-03	1.33E-01	8.57E-02	6.95E-01
2904	488294.42	3857268.98	0.03803	0.01298	0.01273	0.04497	1.213	0.036	0.0196	0.01298	2.65E-01	2.40E-02	1.33E-06	1.58E-03	3.80E-01	3.35E-03	1.39E-01	8.83E-02	7.24E-01
2905	488139.13	3857111.68	0.03811	0.01224	0.01079	0.04367	1.476	0.033	0.0194	0.01224	2.66E-01	2.26E-02	1.12E-06	1.54E-03	4.62E-01	3.12E-03	1.38E-01	8.32E-02	8.10E-01
2906	488189.13	3857111.68	0.03707	0.01217	0.01121	0.04172	1.233	0.032	0.0187	0.01217	2.58E-01	2.25E-02	1.17E-06	1.47E-03	3.86E-01	3.04E-03	1.33E-01	8.28E-02	7.22E-01
2907	488189.13	3857161.68	0.03805	0.01245	0.01154	0.04402	1.478	0.034	0.0195	0.01245	2.65E-01	2.30E-02	1.20E-06	1.55E-03	4.63E-01	3.19E-03	1.38E-01	8.47E-02	8.09E-01
2908	487951.04	3856961.26	0.03907	0.01184	0.00924	0.04433	1.8	0.032	0.0198	0.01184	2.72E-01	2.19E-02	9.62E-07	1.56E-03	5.64E-01	3.05E-03	1.41E-01	8.05E-02	9.23E-01
2909	488001.04	3856961.26	0.03806	0.01171	0.0093	0.04227	1.436	0.031	0.0191	0.01171	2.65E-01	2.16E-02	9.68E-07	1.49E-03	4.50E-01	2.95E-03	1.36E-01	7.96E-02	7.97E-01
2910	488051.04	3856961.26	0.03715	0.01155	0.00936	0.04042	1.193	0.03	0.0185	0.01155	2.59E-01	2.13E-02	9.74E-07	1.42E-03	3.74E-01	2.86E-03	1.31E-01	7.85E-02	7.11E-01
2911	488101.04	3856961.26	0.03617	0.01151	0.00953	0.03873	1.008	0.03	0.0179	0.01151	2.52E-01	2.13E-02	9.92E-07	1.36E-03	3.16E-01	2.78E-03	1.27E-01	7.83E-02	6.42E-01
2912	487951.04	3857011.26	0.04002	0.01218	0.00919	0.04695	2.063	0.034	0.0207	0.01218	2.79E-01	2.25E-02	9.57E-07	1.65E-03	6.46E-01	3.21E-03	1.46E-01	8.28E-02	1.02E+00
2913	488001.04	3857011.26	0.03899	0.01199	0.00924	0.04463	1.679	0.033	0.0199	0.01199	2.72E-01	2.21E-02	9.62E-07	1.57E-03	5.26E-01	3.09E-03	1.41E-01	8.15E-02	8.84E-01
2914	488051.04	3857011.26	0.03802	0.01182	0.00935	0.04255	1.383	0.032	0.0192	0.01182	2.65E-01	2.18E-02	9.73E-07	1.50E-03	4.33E-01	2.99E-03	1.36E-01	8.04E-02	7.80E-01
2915	488101.04	3857011.26	0.037	0.01177	0.00963	0.04068	1.16	0.031	0.0185	0.01177	2.58E-01	2.17E-02	1.00E-06	1.43E-03	3.63E-01	2.90E-03	1.31E-01	8.00E-02	6.99E-01
2916	488001.04	3857061.26	0.04	0.01231	0.00929	0.0473	2.045	0.035	0.0207	0.01231	2.79E-01	2.27E-02	9.67E-07	1.66E-03	6.41E-01	3.25E-03	1.47E-01	8.37E-02	1.01E+00
2917	488051.04	3857061.26	0.03892	0.01217	0.00952	0.04494	1.66	0.033	0.0199	0.01217	2.71E-01	2.25E-02	9.91E-07	1.58E-03	5.20E-01	3.14E-03	1.41E-01	8.28E-02	8.77E-01
2918	488101.04	3857061.26	0.03788	0.01207	0.00992	0.04284	1.373	0.032	0.0192	0.01207	2.64E-01	2.23E-02	1.03E-06	1.51E-03	4.30E-01	3.04E-03	1.36E-01	8.21E-02	7.75E-01
2919	487638.98	3856673.79	0.04039	0.01095	0.01067	0.04386	0.262	0.031	0.02	0.01095	2.82E-01	2.02E-02	1.11E-06	1.54E-03	8.20E-02	2.89E-03	1.42E-01	7.45E-02	4.56E-01
2920	487688.98	3856673.79	0.03934	0.01084	0.01055	0.04177	0.278	0.03	0.0193	0.01084	2.74E-01	2.00E-02	1.10E-06	1.47E-03	8.73E-02	2.79E-03	1.37E-01	7.37E-02	4.49E-01
2921	487638.98	3856723.79	0.04134	0.01124	0.01044	0.04648	0.376	0.032	0.0208	0.01124	2.88E-01	2.08E-02	1.09E-06	1.64E-03	1.18E-01	3.03E-03	1.48E-01	7.64E-02	5.03E-01
2922	487688.98	3856723.79	0.04022	0.01112	0.01033	0.04411	0.41	0.031	0.02	0.01112	2.80E-01	2.05E-02	1.08E-06	1.55E-03	1.29E-01	2.92E-03	1.42E-01	7.56E-02	5.00E-01
2923	486324.61	3855740.57	0.04902	0.00973	0.02614	0.05514	0.014	0.033	0.0248	0.00973	3.42E-01	1.80E-02	2.72E-06	1.94E-03	4.29E-03	3.12E-03	1.76E-01	6.62E-02	4.79E-01
2924	486374.61	3855740.57	0.04792	0.00942	0.02501	0.05051	0.014	0.031	0.0232	0.00942	3.34E-01	1.74E-02	2.60E-06	1.78E-03	4.29E-03	2.92E-03	1.64E-01	6.41E-02	4.61E-01
2925	486424.61	3855740.57	0.04665	0.00924	0.02433	0.04727	0.014	0.03	0.0221	0.00924	3.25E-01	1.71E-02	2.53E-06	1.66E-03	4.31E-03	2.78E-03	1.56E-01	6.28E-02	4.45E-01
2926	486324.61	3855790.57	0.05101	0.00996	0.02744	0.06026	0.015	0.035	0.0262	0.00996	3.56E-01	1.84E-02	2.86E-06	2.12E-03	4.55E-03	3.32E-03	1.85E-01	6.77E-02	5.02E-01
2927	486374.61	3855790.57	0.04974	0.00966	0.02624	0.05493	0.015	0.033	0.0244	0.00966	3.47E-01	1.78E-02	2.73E-06	1.93E-03	4.56E-03	3.10E-03	1.73E-01	6.57E-02	4.82E-01
2928	486424.61	3855790.57	0.04824	0.00951	0.02561	0.05145	0.015	0.031	0.0233	0.00951	3.36E-01	1.76E-02	2.67E-06	1.81E-03	4.61E-03	2.96E-03	1.65E-01	6.47E-02	4.64E-01
2929	486324.61	3855840.57	0.05321	0.01019	0.02859	0.06643	0.015	0.038	0.0277	0.01019	3.71E-01	1.88E-02	2.98E-06	2.34E-03	4.81E-03	3.55E-03	1.96E-01	6.93E-02	5.28E-01
2930	486374.61	3855840.57	0.05146	0.01	0.02772	0.06119	0.016	0.036	0.0262	0.01	3.59E-01	1.85E-02	2.89E-06	2.15E-03	4.88E-03	3.35E-03	1.86E-01	6.80E-02	5.05E-01
2931	486424.61	3855840.57	0.04995	0.00979	0.02679	0.05645	0.016	0.034	0.0247	0.00979	3.48E-01	1.81E-02	2.79E-06	1.99E-03	4.93E-03	3.16E-03	1.75E-01	6.66E-02	4.85E-01
2932	486324.61	3855890.57	0.05531	0.01056	0.02992	0.0755	0.016	0.041	0.03	0.01056	3.86E-01	1.95E-02	3.11E-06	2.66E-03	5.13E-03	3.89E-03	2.13E-01	7.18E-02	5.58E-01
2933	486374.61	3855890.57	0.05342	0.01034	0.02884	0.06862	0.017	0.039	0.0282	0.01034	3.72E-01	1.91E-02	3.00E-06	2.42E-03	5.22E-03	3.64E-03	1.99E-01	7.03E-02	5.32E-01
2934	486424.61	3855890.57	0.05178	0.0101	0.02773	0.06267	0.017	0.036	0.0264	0.0101	3.61E-01	1.87E-02	2.89E-06	2.21E-03	5.28E-03	3.41E-03	1.87E-01	6.87E-02	5.09E-01
2935	488735.69	3858285.64	0.082	0.02943	0.03159	0.17512	0.029	0.12	0.0396	0.02943	5.72E-01	5.44E-02	3.29E-06	6.16E-03	8.95E-03	1.12E-02	2.80E-01	2.00E-01	7.33E-01
2936	488765.69	3858285.64	0.07585	0.02871	0.03086	0.15664	0.028	0.11	0.0377	0.02871	5.29E-01	5.30E-02	3.21E-06	5.51E-03	8.91E-03	1.03E-02	2.67E-01	1.95E-01	6.79E-01
2937	488735.69	3858315.64	0.07878	0.03089	0.03013	0.20363	0.027	0.132	0.0418	0.03089	5.49E-01	5.71E-02	3.14E-06	7.17E-03	8.49E-03	1.24E-02	2.96E-01	2.10E-01	7.21E-01
2938	488765.69	3858315.64	0.07359	0.03008	0.02947	0.17837	0.027	0.12	0.0398	0.03008	5.13E-01	5.56E-02	3.07E-06	6.28E-03	8.45E-03	1.13E-02	2.82E-01	2.05E-01	6.72E-01
2939	478676.63	3849871.93	0.00714	0.03511	0.00065	0.00111	0.001	0.001	0.0353	0.03511	4.98E-02	6.48E-02	6.77E-08	3.91E-05	4.07E-04	1.11E-04	2.50E-01	2.39E-01	1.26E-01
2940	479326.63	3849871.93	0.00538	0.02103	0.00063	0.00101	0.001	0.001	0.0211	0.02103	3.75E-02	3.88E-02	6.56E-08	3.55E-05	4.07E-04	1.03E-04	1.50E-01	1.43E-01	8.35E-02
2941	479376.63	3849871.93	0.00529	0.02039	0.00063	0.00101	0.001	0.001	0.0205	0.02039	3.69E-02	3.77E-02	6.56E-08	3.55E-05	4.04E-04	1.02E-04	1.45E-01	1.39E-01	8.15E-02
2942	479426.63	3849871.93	0.0052	0.01989	0.00063	0.001	0.001	0.001	0.02	0.01989	3.63E-02	3.67E-02	6.56E-08	3.52E-05	4.01E-04	1.02E-04	1.42E-01	1.35E-01	7.98E-02
2943	478726.63	3849921.93	0.00753	0.03698	0.00066	0.00112	0.001	0.001	0.0371	0.03698	5.25E-02	6.83E-02	6.87E-08	3.94E-05	4.10E-04	1.12E-04	2.63E-01	2.51E-01	1.33E-01
2944	478776.63	3849921.93	0.00728	0.03519	0.00066	0.00112	0.001	0.001	0.0354	0.03519	5.08E-02	6.50E-02	6.87E-08	3.94E-05	4.10E-04	1.13E-04	2.50E-01	2.39E-01	1.27E-01
2945	478826.63	3849921.93	0.00706	0.03354	0.00065	0.00112	0.001	0.001	0.0337	0.03354	4.92E-02	6.19E-02	6.77E-08	3.94E-05	4.14E-04	1.13E-04	2.39E-01	2.28E-01	1.22E-01
2946	478976.63	3849921.93	0.00654	0.0294	0.00065	0.00109	0.001	0.001	0.0295	0.0294	4.56E-02	5.43E-02	6.77E-08	3.84E-05	4.20E-04	1.12E-04	2.09E-01	2.00E-01	1.10E-01
2947	479026.63	3849921.93	0.00638	0.02837	0.00065	0.00109	0.001	0.001	0.0285	0.02837	4.45E-02	5.24E-02	6.77E-08	3.84E-05	4.20E-04	1.12E-04	2.02E-01	1.93E-01	1.06E-01
2948	479076.63	3849921.93	0.00624	0.02731	0.00065	0.00108	0.001	0.001	0.0274	0.02731	4.35E-02	5.04E-02	6.77E-08	3.80E-05	4.20E-04	1.11E-04	1.94E-01	1.86E-01	1.03E-01
2949	479126.63	3849921.93	0.00611	0.02629	0.00065	0.00107	0.001	0.001	0.0264	0.02629	4.26E-02	4.86E-02	6.77E-08	3.77E-05	4.20E-04	1.10E-04	1.87E-01	1.79E-01	9.99E-02
2950	479176.63	3849921.93	0.00598	0.0254	0.00065	0.00106	0.001	0.001	0.0255	0.0254	4.17E-02	4.69E-02	6.77E-08	3.73E-05	4.20E-04	1.09E-04	1.81E-01	1.73E-01	9.70E-02
2951	479226.63	3849921.93	0.00588	0.02436	0.00064	0.00105	0.001	0.001	0.0244	0.02436	4.10E-02	4.50E-02	6.66E-08	3.70E-05	4.17E-04	1.08E-04	1.73E-01	1.66E-01	9.41E-02
2952	479276.63	3849921.93	0.00583	0.02309	0.00064	0.00103	0.001	0.001	0.0232	0.02309	4.06E-02	4.26E-02	6.66E-08	3.63E-05	4.17E-04	1.06E-04	1.64E-01	1.57E-01	9.10E-02
2953	479326.63	3849921.93	0.00566	0.02283	0.00064	0.00104	0.001	0.001	0.0229	0.02283	3.95E-02	4.22E-02	6.66E-08	3.66E-05	4.14E-04	1.06E-04	1.62E-01	1.55E-01	8.93E-02
2954	479376.63	3849921.93	0.00561	0.02169	0.00064	0.00102	0.001	0.001	0.0218	0.02169	3.91E-02	4.01E-02	6.66E-08	3.59E-05	4.10E-04	1.04E-04	1.54E-01	1.47E-01	8.65E-02

2955	479426.63	3849921.93	0.00548	0.02132	0.00064	0.00102	0.001	0.001	0.0214	0.02132	3.82E-02	3.94E-02	6.66E-08	3.59E-05	4.10E-04	1.04E-04	1.52E-01	1.45E-01	8.49E-02
2956	478726.63	3849971.93	0.00829	0.04122	0.00067	0.00114	0.001	0.001	0.0414	0.04122	5.78E-02	7.61E-02	6.98E-08	4.01E-05	4.10E-04	1.13E-04	2.93E-01	2.80E-01	1.47E-01
2957	478776.63	3849971.93	0.00798	0.03901	0.00067	0.00113	0.001	0.001	0.0392	0.03901	5.56E-02	7.20E-02	6.98E-08	3.98E-05	4.10E-04	1.13E-04	2.77E-01	2.65E-01	1.40E-01
2958	478826.63	3849971.93	0.00771	0.03699	0.00066	0.00113	0.001	0.001	0.0371	0.03699	5.38E-02	6.83E-02	6.87E-08	3.98E-05	4.14E-04	1.14E-04	2.63E-01	2.52E-01	1.34E-01
2959	478976.63	3849971.93	0.00703	0.03218	0.00066	0.00112	0.001	0.001	0.0323	0.03218	4.90E-02	5.94E-02	6.87E-08	3.94E-05	4.20E-04	1.14E-04	2.29E-01	2.19E-01	1.19E-01
2960	479026.63	3849971.93	0.00687	0.03078	0.00066	0.00111	0.001	0.001	0.0309	0.03078	4.79E-02	5.68E-02	6.87E-08	3.91E-05	4.20E-04	1.14E-04	2.19E-01	2.09E-01	1.15E-01
2961	479076.63	3849971.93	0.00671	0.0295	0.00066	0.0011	0.001	0.001	0.0296	0.0295	4.68E-02	5.45E-02	6.87E-08	3.87E-05	4.23E-04	1.13E-04	2.10E-01	2.01E-01	1.11E-01
2962	479126.63	3849971.93	0.00655	0.02835	0.00065	0.00109	0.001	0.001	0.0284	0.02835	4.57E-02	5.24E-02	6.77E-08	3.84E-05	4.23E-04	1.12E-04	2.02E-01	1.93E-01	1.07E-01
2963	479176.63	3849971.93	0.0064	0.02731	0.00065	0.00108	0.001	0.001	0.0274	0.02731	4.46E-02	5.04E-02	6.77E-08	3.80E-05	4.23E-04	1.11E-04	1.94E-01	1.86E-01	1.04E-01
2964	479226.63	3849971.93	0.00636	0.02568	0.00065	0.00106	0.001	0.001	0.0258	0.02568	4.43E-02	4.74E-02	6.77E-08	3.73E-05	4.23E-04	1.09E-04	1.83E-01	1.75E-01	1.00E-01
2965	479276.63	3849971.93	0.00616	0.02517	0.00065	0.00106	0.001	0.001	0.0252	0.02517	4.29E-02	4.65E-02	6.77E-08	3.73E-05	4.20E-04	1.09E-04	1.79E-01	1.71E-01	9.77E-02
2966	479326.63	3849971.93	0.00599	0.02457	0.00065	0.00106	0.001	0.001	0.0247	0.02457	4.18E-02	4.54E-02	6.77E-08	3.73E-05	4.20E-04	1.09E-04	1.75E-01	1.67E-01	9.53E-02
2967	479376.63	3849971.93	0.00594	0.02337	0.00065	0.00104	0.001	0.001	0.0235	0.02337	4.14E-02	4.32E-02	6.77E-08	3.66E-05	4.17E-04	1.07E-04	1.66E-01	1.59E-01	9.24E-02
2968	479426.63	3849971.93	0.00582	0.02273	0.00065	0.00104	0.001	0.001	0.0228	0.02273	4.06E-02	4.20E-02	6.77E-08	3.66E-05	4.17E-04	1.06E-04	1.62E-01	1.55E-01	9.02E-02
2969	478726.63	3850021.93	0.00925	0.04661	0.00068	0.00115	0.001	0.001	0.0467	0.04661	6.45E-02	8.61E-02	7.08E-08	4.05E-05	4.10E-04	1.13E-04	3.31E-01	3.17E-01	1.65E-01
2970	478776.63	3850021.93	0.00886	0.04376	0.00067	0.00115	0.001	0.001	0.0439	0.04376	6.18E-02	8.08E-02	6.98E-08	4.05E-05	4.10E-04	1.14E-04	3.11E-01	2.98E-01	1.56E-01
2971	478826.63	3850021.93	0.00851	0.04126	0.00067	0.00115	0.001	0.001	0.0414	0.04126	5.93E-02	7.62E-02	6.98E-08	4.05E-05	4.14E-04	1.15E-04	2.93E-01	2.81E-01	1.49E-01
2972	478976.63	3850021.93	0.00768	0.03529	0.00067	0.00113	0.001	0.001	0.0354	0.03529	5.35E-02	6.52E-02	6.98E-08	3.98E-05	4.20E-04	1.16E-04	2.51E-01	2.40E-01	1.30E-01
2973	478726.63	3850071.93	0.01052	0.05369	0.00069	0.00116	0.001	0.001	0.0538	0.05369	7.33E-02	9.92E-02	7.18E-08	4.08E-05	4.07E-04	1.13E-04	3.81E-01	3.65E-01	1.89E-01
2974	478776.63	3850071.93	0.01	0.04993	0.00068	0.00116	0.001	0.001	0.05	0.04993	6.97E-02	9.22E-02	7.08E-08	4.08E-05	4.10E-04	1.14E-04	3.54E-01	3.40E-01	1.77E-01
2975	478826.63	3850071.93	0.00956	0.04668	0.00068	0.00116	0.001	0.001	0.0468	0.04668	6.66E-02	8.62E-02	7.08E-08	4.08E-05	4.14E-04	1.15E-04	3.31E-01	3.17E-01	1.67E-01
2976	478876.63	3850071.93	0.00917	0.04384	0.00068	0.00116	0.001	0.001	0.0439	0.04384	6.39E-02	8.10E-02	7.08E-08	4.08E-05	4.17E-04	1.16E-04	3.11E-01	2.98E-01	1.59E-01
2977	478976.63	3850071.93	0.0085	0.03912	0.00068	0.00115	0.001	0.001	0.0392	0.03912	5.93E-02	7.23E-02	7.08E-08	4.05E-05	4.20E-04	1.17E-04	2.78E-01	2.66E-01	1.44E-01
2978	478726.63	3850121.93	0.01229	0.06348	0.0007	0.00116	0.001	0.001	0.0634	0.06348	8.57E-02	1.17E-01	7.29E-08	4.08E-05	4.07E-04	1.13E-04	4.49E-01	4.32E-01	2.21E-01
2979	478776.63	3850121.93	0.01157	0.05824	0.00069	0.00117	0.001	0.001	0.0582	0.05824	8.07E-02	1.08E-01	7.18E-08	4.12E-05	4.10E-04	1.15E-04	4.13E-01	3.96E-01	2.05E-01
2980	478826.63	3850121.93	0.01097	0.05383	0.00069	0.00117	0.001	0.001	0.0538	0.05383	7.65E-02	9.94E-02	7.18E-08	4.12E-05	4.14E-04	1.16E-04	3.81E-01	3.66E-01	1.92E-01
2981	478876.63	3850121.93	0.01045	0.05005	0.00069	0.00117	0.001	0.001	0.0501	0.05005	7.29E-02	9.24E-02	7.18E-08	4.12E-05	4.17E-04	1.17E-04	3.55E-01	3.40E-01	1.80E-01
2982	478976.63	3850121.93	0.00956	0.04395	0.00068	0.00117	0.001	0.001	0.044	0.04395	6.66E-02	8.12E-02	7.08E-08	4.12E-05	4.23E-04	1.17E-04	3.12E-01	2.99E-01	1.61E-01
2983	479026.63	3850121.93	0.0092	0.04145	0.00068	0.00116	0.001	0.001	0.0415	0.04145	6.41E-02	7.66E-02	7.08E-08	4.08E-05	4.23E-04	1.17E-04	2.94E-01	2.82E-01	1.53E-01
2984	479076.63	3850121.93	0.00889	0.03917	0.00068	0.00116	0.001	0.001	0.0392	0.03917	6.20E-02	7.23E-02	7.08E-08	4.08E-05	4.26E-04	1.17E-04	2.78E-01	2.66E-01	1.47E-01
2985	479126.63	3850121.93	0.00859	0.03715	0.00068	0.00115	0.001	0.001	0.0372	0.03715	5.99E-02	6.86E-02	7.08E-08	4.05E-05	4.26E-04	1.17E-04	2.64E-01	2.53E-01	1.40E-01
2986	478776.63	3850171.93	0.01385	0.07004	0.0007	0.00117	0.001	0.001	0.0699	0.07004	9.66E-02	1.29E-01	7.29E-08	4.12E-05	4.10E-04	1.15E-04	4.95E-01	4.76E-01	2.45E-01
2987	478826.63	3850171.93	0.01295	0.0637	0.0007	0.00118	0.001	0.001	0.0636	0.0637	9.03E-02	1.18E-01	7.29E-08	4.15E-05	4.14E-04	1.16E-04	4.51E-01	4.33E-01	2.26E-01
2988	478876.63	3850171.93	0.01219	0.05844	0.0007	0.00118	0.001	0.001	0.0584	0.05844	8.50E-02	1.08E-01	7.29E-08	4.15E-05	4.17E-04	1.17E-04	4.14E-01	3.97E-01	2.10E-01
2989	478976.63	3850171.93	0.01095	0.05019	0.00069	0.00118	0.001	0.001	0.0502	0.05019	7.63E-02	9.27E-02	7.18E-08	4.15E-05	4.23E-04	1.18E-04	3.56E-01	3.41E-01	1.84E-01
2990	479026.63	3850171.93	0.01046	0.04693	0.00069	0.00118	0.001	0.001	0.047	0.04693	7.29E-02	8.67E-02	7.18E-08	4.15E-05	4.23E-04	1.19E-04	3.33E-01	3.19E-01	1.74E-01
2991	479076.63	3850171.93	0.01004	0.04406	0.00069	0.00118	0.001	0.001	0.0441	0.04406	7.00E-02	8.14E-02	7.18E-08	4.15E-05	4.26E-04	1.19E-04	3.12E-01	3.00E-01	1.65E-01
2992	479126.63	3850171.93	0.00965	0.04154	0.00069	0.00117	0.001	0.001	0.0416	0.04154	6.73E-02	7.67E-02	7.18E-08	4.12E-05	4.29E-04	1.19E-04	2.94E-01	2.82E-01	1.57E-01
2993	479176.63	3850171.93	0.00927	0.03931	0.00069	0.00117	0.001	0.001	0.0393	0.03931	6.46E-02	7.26E-02	7.18E-08	4.12E-05	4.29E-04	1.19E-04	2.79E-01	2.67E-01	1.49E-01
2994	479226.63	3850171.93	0.0089	0.03739	0.00069	0.00116	0.001	0.001	0.0374	0.03739	6.20E-02	6.91E-02	7.18E-08	4.08E-05	4.32E-04	1.19E-04	2.65E-01	2.54E-01	1.43E-01
2995	479276.63	3850171.93	0.00857	0.03564	0.00069	0.00116	0.001	0.001	0.0357	0.03564	5.97E-02	6.58E-02	7.18E-08	4.08E-05	4.32E-04	1.18E-04	2.53E-01	2.42E-01	1.37E-01
2996	479326.63	3850171.93	0.00832	0.03402	0.00069	0.00115	0.001	0.001	0.0341	0.03402	5.80E-02	6.28E-02	7.18E-08	4.05E-05	4.32E-04	1.17E-04	2.41E-01	2.31E-01	1.31E-01
2997	479376.63	3850171.93	0.00811	0.03246	0.00069	0.00114	0.001	0.001	0.0325	0.03246	5.65E-02	6.00E-02	7.18E-08	4.01E-05	4.32E-04	1.17E-04	2.30E-01	2.21E-01	1.27E-01
2998	478676.63	3850221.93	0.02228	0.11861	0.00072	0.00116	0.001	0.001	0.1174	0.11861	1.55E-01	2.19E-01	7.50E-08	4.08E-05	4.04E-04	1.12E-04	8.32E-01	8.07E-01	4.00E-01
2999	478726.63	3850221.93	0.01939	0.10108	0.00072	0.00117	0.001	0.001	0.1003	0.10108	1.35E-01	1.87E-01	7.50E-08	4.12E-05	4.07E-04	1.14E-04	7.10E-01	6.87E-01	3.46E-01
3000	478976.63	3850221.93	0.01281	0.0586	0.0007	0.00119	0.001	0.001	0.0585	0.0586	8.93E-02	1.08E-01	7.29E-08	4.19E-05	4.23E-04	1.19E-04	4.14E-01	3.98E-01	2.14E-01
3001	479026.63	3850221.93	0.01213	0.05413	0.0007	0.00119	0.001	0.001	0.0541	0.05413	8.46E-02	1.00E-01	7.29E-08	4.19E-05	4.26E-04	1.20E-04	3.83E-01	3.68E-01	2.00E-01
3002	479076.63	3850221.93	0.01158	0.05035	0.0007	0.00119	0.001	0.001	0.0503	0.05035	8.07E-02	9.30E-02	7.29E-08	4.19E-05	4.26E-04	1.20E-04	3.56E-01	3.42E-01	1.88E-01
3003	479126.63	3850221.93	0.01106	0.04706	0.0007	0.00119	0.001	0.001	0.0471	0.04706	7.71E-02	8.69E-02	7.29E-08	4.19E-05	4.29E-04	1.20E-04	3.33E-01	3.20E-01	1.78E-01
3004	479176.63	3850221.93	0.01055	0.0442	0.0007	0.00119	0.001	0.001	0.0442	0.0442	7.36E-02	8.16E-02	7.29E-08	4.19E-05	4.32E-04	1.21E-04	3.13E-01	3.01E-01	1.68E-01
3005	479226.63	3850221.93	0.01009	0.04169	0.0007	0.00118	0.001	0.001	0.0417	0.04169	7.03E-02	7.70E-02	7.29E-08	4.15E-05	4.32E-04	1.20E-04	2.95E-01	2.83E-01	1.60E-01
3006	479276.63	3850221.93	0.00969	0.03947	0.0007	0.00118	0.001	0.001	0.0395	0.03947	6.76E-02	7.29E-02	7.29E-08	4.15E-05	4.32E-04	1.20E-04	2.80E-01	2.68E-01	1.52E-01
3007	479326.63	3850221.93	0.0094	0.0375	0.00069	0.00117	0.001	0.001	0.0375	0.0375	6.55E-02	6.93E-02	7.18E-08	4.12E-05	4.36E-04	1.19E-04	2.66E-01	2.55E-01	1.46E-01
3008	479376.63	3850221.93	0.00913	0.03569	0.00069	0.00116	0.001	0.001	0.0357	0.03569	6.37E-02	6.59E-02	7.18E-08	4.08E-05	4.36E-04	1.19E-04	2.53E-01	2.43E-01	1.40E-01
3009	478676.63	3850271.93	0.03471	0.18185	0.00073	0.00116	0.001	0.001	0.1782	0.18185	2.42E-01	3.36E-01	7.60E-08	4.08E-05	4.07E-04	1.12E-04	1.26E+00	1.24E+00	6.05E-01
3010	478726.63	3850271.93	0.02793	0.14425	0.00073	0.00117	0.001	0.001	0.1421	0.14425	1.95E-01	2.66E-01	7.60E-08	4.12E-05	4.07E-04	1.14E-04	1.01E+00	9.81E-01	4.87E-01
3011	478976.63	3850271.93	0.01543	0.07063	0.00071	0.0012	0.001	0.001	0.0703	0.07063	1.08E-01	1.30E-01	7.39E-08	4.22E-05	4.23E-04	1.19E-04	4.98E-01	4.80E-01	2.57E-01
3012	479026.63	3850271.93	0.01445	0.06413	0.00071	0.0012	0.001	0.001	0.0639	0.06413	1.01E-01	1.18E-01	7.39E-08	4.22E-05	4.26E-04	1.20E-04	4.53E-01	4.36E-01	2.37E-01

3013	479076.63	3850271.93	0.01368	0.05881	0.00071	0.00121	0.001	0.001	0.0587	0.05881	9.54E-02	1.09E-01	7.39E-08	4.26E-05	4.26E-04	1.21E-04	4.16E-01	4.00E-01	2.20E-01
3014	479126.63	3850271.93	0.01299	0.05433	0.00071	0.0012	0.001	0.001	0.0542	0.05433	9.06E-02	1.00E-01	7.39E-08	4.22E-05	4.29E-04	1.22E-04	3.84E-01	3.69E-01	2.06E-01
3015	479176.63	3850271.93	0.01232	0.0505	0.00071	0.0012	0.001	0.001	0.0504	0.0505	8.59E-02	9.33E-02	7.39E-08	4.22E-05	4.32E-04	1.22E-04	3.57E-01	3.43E-01	1.94E-01
3016	479226.63	3850271.93	0.01173	0.04719	0.00071	0.0012	0.001	0.001	0.0471	0.04719	8.18E-02	8.72E-02	7.39E-08	4.22E-05	4.32E-04	1.22E-04	3.34E-01	3.21E-01	1.83E-01
3017	479276.63	3850271.93	0.01126	0.04433	0.0007	0.00119	0.001	0.001	0.0443	0.04433	7.85E-02	8.19E-02	7.29E-08	4.19E-05	4.36E-04	1.22E-04	3.14E-01	3.01E-01	1.73E-01
3018	479326.63	3850271.93	0.01089	0.04183	0.0007	0.00119	0.001	0.001	0.0418	0.04183	7.59E-02	7.73E-02	7.29E-08	4.19E-05	4.36E-04	1.21E-04	2.96E-01	2.84E-01	1.66E-01
3019	479376.63	3850271.93	0.01058	0.03954	0.0007	0.00118	0.001	0.001	0.0395	0.03954	7.38E-02	7.30E-02	7.29E-08	4.15E-05	4.39E-04	1.20E-04	2.80E-01	2.69E-01	1.59E-01
3020	479053.24	3850293.52	0.01526	0.06622	0.00071	0.00121	0.001	0.001	0.066	0.06622	1.06E-01	1.22E-01	7.39E-08	4.26E-05	4.26E-04	1.21E-04	4.67E-01	4.50E-01	2.46E-01
3021	479103.24	3850293.52	0.01445	0.06055	0.00071	0.00121	0.001	0.001	0.0604	0.06055	1.01E-01	1.12E-01	7.39E-08	4.26E-05	4.29E-04	1.22E-04	4.28E-01	4.12E-01	2.29E-01
3022	479153.24	3850293.52	0.01367	0.05582	0.00071	0.00121	0.001	0.001	0.0557	0.05582	9.53E-02	1.03E-01	7.39E-08	4.26E-05	4.32E-04	1.22E-04	3.95E-01	3.80E-01	2.14E-01
3023	479203.24	3850293.52	0.01296	0.05177	0.00071	0.00121	0.001	0.001	0.0517	0.05177	9.04E-02	9.56E-02	7.39E-08	4.26E-05	4.32E-04	1.23E-04	3.66E-01	3.52E-01	2.01E-01
3024	479253.24	3850293.52	0.01239	0.04831	0.00071	0.0012	0.001	0.001	0.0482	0.04831	8.64E-02	8.92E-02	7.39E-08	4.22E-05	4.36E-04	1.23E-04	3.42E-01	3.29E-01	1.90E-01
3025	479303.24	3850293.52	0.01194	0.04533	0.00071	0.0012	0.001	0.001	0.0453	0.04533	8.32E-02	8.37E-02	7.39E-08	4.22E-05	4.36E-04	1.22E-04	3.21E-01	3.08E-01	1.80E-01
3026	479353.24	3850293.52	0.01156	0.04268	0.00071	0.00119	0.001	0.001	0.0426	0.04268	8.06E-02	7.88E-02	7.39E-08	4.19E-05	4.39E-04	1.22E-04	3.02E-01	2.90E-01	1.72E-01
3027	479153.24	3850343.52	0.01723	0.06654	0.00072	0.00122	0.001	0.001	0.0662	0.06654	1.20E-01	1.23E-01	7.50E-08	4.29E-05	4.32E-04	1.23E-04	4.69E-01	4.52E-01	2.60E-01
3028	479203.24	3850343.52	0.01631	0.06081	0.00072	0.00122	0.001	0.001	0.0606	0.06081	1.14E-01	1.12E-01	7.50E-08	4.29E-05	4.32E-04	1.24E-04	4.29E-01	4.13E-01	2.42E-01
3029	479253.24	3850343.52	0.01559	0.05608	0.00072	0.00122	0.001	0.001	0.0559	0.05608	1.09E-01	1.04E-01	7.50E-08	4.29E-05	4.36E-04	1.24E-04	3.96E-01	3.81E-01	2.28E-01
3030	479303.24	3850343.52	0.01495	0.05206	0.00072	0.00122	0.001	0.001	0.0519	0.05206	1.04E-01	9.62E-02	7.50E-08	4.29E-05	4.39E-04	1.24E-04	3.68E-01	3.54E-01	2.15E-01
3031	479353.24	3850343.52	0.01435	0.04855	0.00071	0.00121	0.001	0.001	0.0484	0.04855	1.00E-01	8.97E-02	7.39E-08	4.26E-05	4.39E-04	1.24E-04	3.43E-01	3.30E-01	2.03E-01
3032	479203.24	3850393.52	0.02474	0.07398	0.00073	0.00124	0.001	0.001	0.0735	0.07398	1.72E-01	1.37E-01	7.60E-08	4.36E-05	4.36E-04	1.25E-04	5.21E-01	5.03E-01	3.27E-01
3033	479253.24	3850393.52	0.02268	0.06702	0.00073	0.00123	0.001	0.001	0.0667	0.06702	1.58E-01	1.24E-01	7.60E-08	4.33E-05	4.36E-04	1.25E-04	4.72E-01	4.56E-01	2.99E-01
3034	479303.24	3850393.52	0.02082	0.0613	0.00073	0.00123	0.001	0.001	0.061	0.0613	1.45E-01	1.13E-01	7.60E-08	4.33E-05	4.39E-04	1.26E-04	4.32E-01	4.17E-01	2.74E-01
3035	479353.24	3850393.52	0.01926	0.05646	0.00072	0.00123	0.001	0.001	0.0562	0.05646	1.34E-01	1.04E-01	7.50E-08	4.33E-05	4.39E-04	1.25E-04	3.98E-01	3.84E-01	2.54E-01
3036	479403.24	3850393.52	0.01795	0.05228	0.00072	0.00122	0.001	0.001	0.0521	0.05228	1.25E-01	9.66E-02	7.50E-08	4.29E-05	4.42E-04	1.25E-04	3.69E-01	3.55E-01	2.36E-01
3037	479453.24	3850393.52	0.01686	0.04861	0.00072	0.00122	0.001	0.001	0.0485	0.04861	1.18E-01	8.98E-02	7.50E-08	4.29E-05	4.45E-04	1.24E-04	3.43E-01	3.31E-01	2.21E-01
3038	479503.24	3850393.52	0.01591	0.04528	0.00072	0.00121	0.001	0.001	0.0451	0.04528	1.11E-01	8.36E-02	7.50E-08	4.26E-05	4.45E-04	1.23E-04	3.20E-01	3.08E-01	2.07E-01
3039	479303.24	3850443.52	0.0334	0.07478	0.00073	0.00125	0.001	0.001	0.0742	0.07478	2.33E-01	1.38E-01	7.60E-08	4.40E-05	4.39E-04	1.27E-04	5.26E-01	5.08E-01	3.89E-01
3040	479353.24	3850443.52	0.02843	0.06762	0.00073	0.00124	0.001	0.001	0.0672	0.06762	1.98E-01	1.25E-01	7.60E-08	4.36E-05	4.42E-04	1.27E-04	4.76E-01	4.60E-01	3.40E-01
3041	479403.24	3850443.52	0.02497	0.06158	0.00073	0.00124	0.001	0.001	0.0612	0.06158	1.74E-01	1.14E-01	7.60E-08	4.36E-05	4.45E-04	1.26E-04	4.34E-01	4.19E-01	3.03E-01
3042	479453.24	3850443.52	0.02245	0.05644	0.00073	0.00123	0.001	0.001	0.0561	0.05644	1.57E-01	1.04E-01	7.60E-08	4.33E-05	4.45E-04	1.26E-04	3.98E-01	3.84E-01	2.75E-01
3043	479503.24	3850443.52	0.02051	0.05196	0.00073	0.00123	0.001	0.001	0.0517	0.05196	1.43E-01	9.60E-02	7.60E-08	4.33E-05	4.48E-04	1.25E-04	3.66E-01	3.53E-01	2.53E-01
3044	480327.18	3850987.04	0.01982	0.09117	0.00083	0.00136	0.002	0.001	0.0908	0.09117	1.38E-01	1.68E-01	8.64E-08	4.79E-05	4.89E-04	1.38E-04	6.43E-01	6.20E-01	3.31E-01
3045	480377.18	3850987.04	0.01777	0.08045	0.00084	0.00136	0.002	0.001	0.0803	0.08045	1.24E-01	1.49E-01	8.74E-08	4.79E-05	4.89E-04	1.37E-04	5.69E-01	5.47E-01	2.95E-01
3046	480427.18	3850987.04	0.01622	0.07182	0.00084	0.00135	0.002	0.001	0.0718	0.07182	1.13E-01	1.33E-01	8.74E-08	4.75E-05	4.89E-04	1.37E-04	5.09E-01	4.88E-01	2.67E-01
3047	480477.18	3850987.04	0.015	0.06461	0.00084	0.00135	0.002	0.001	0.0647	0.06461	1.05E-01	1.19E-01	8.74E-08	4.75E-05	4.86E-04	1.37E-04	4.58E-01	4.39E-01	2.43E-01
3048	480327.18	3851037.04	0.02647	0.12509	0.00084	0.00138	0.002	0.001	0.1243	0.12509	1.85E-01	2.31E-01	8.74E-08	4.86E-05	4.92E-04	1.40E-04	8.81E-01	8.51E-01	4.47E-01
3049	480377.18	3851037.04	0.02237	0.1059	0.00085	0.00138	0.002	0.001	0.1055	0.1059	1.56E-01	1.96E-01	8.85E-08	4.86E-05	4.92E-04	1.40E-04	7.48E-01	7.20E-01	3.80E-01
3050	480427.18	3851037.04	0.01957	0.09147	0.00085	0.00137	0.002	0.001	0.0913	0.09147	1.36E-01	1.69E-01	8.85E-08	4.82E-05	4.92E-04	1.39E-04	6.47E-01	6.22E-01	3.31E-01
3051	480477.18	3851037.04	0.01753	0.08036	0.00085	0.00137	0.002	0.001	0.0804	0.08036	1.22E-01	1.48E-01	8.85E-08	4.82E-05	4.92E-04	1.39E-04	5.70E-01	5.46E-01	2.94E-01
3052	480622.06	3851087.39	0.01601	0.07233	0.00088	0.00139	0.002	0.002	0.0726	0.07233	1.12E-01	1.34E-01	9.16E-08	4.89E-05	4.95E-04	1.41E-04	5.15E-01	4.92E-01	2.69E-01
3053	480672.06	3851087.39	0.01472	0.06518	0.00089	0.00139	0.002	0.002	0.0655	0.06518	1.03E-01	1.20E-01	9.27E-08	4.89E-05	4.92E-04	1.42E-04	4.64E-01	4.43E-01	2.45E-01
3054	480622.06	3851137.39	0.01974	0.09302	0.00089	0.00141	0.002	0.002	0.0934	0.09302	1.38E-01	1.72E-01	9.27E-08	4.96E-05	5.01E-04	1.44E-04	6.62E-01	6.33E-01	3.39E-01
3055	480672.06	3851137.39	0.01759	0.08148	0.0009	0.00141	0.002	0.002	0.0819	0.08148	1.23E-01	1.50E-01	9.37E-08	4.96E-05	4.98E-04	1.44E-04	5.81E-01	5.54E-01	3.00E-01
3056	480722.06	3851137.39	0.01596	0.07259	0.00091	0.00141	0.002	0.002	0.0731	0.07259	1.11E-01	1.34E-01	9.47E-08	4.96E-05	4.98E-04	1.45E-04	5.18E-01	4.94E-01	2.70E-01
3057	480622.06	3851187.39	0.02741	0.12986	0.0009	0.00143	0.002	0.002	0.1303	0.12986	1.91E-01	2.40E-01	9.37E-08	5.03E-05	5.04E-04	1.46E-04	9.23E-01	8.83E-01	4.72E-01
3058	480672.06	3851187.39	0.02294	0.10871	0.00091	0.00143	0.002	0.002	0.1093	0.10871	1.60E-01	2.01E-01	9.47E-08	5.03E-05	5.04E-04	1.46E-04	7.75E-01	7.39E-01	3.97E-01
3059	480722.06	3851187.39	0.0199	0.09348	0.00092	0.00143	0.002	0.002	0.0941	0.09348	1.39E-01	1.73E-01	9.58E-08	5.03E-05	5.04E-04	1.47E-04	6.67E-01	6.36E-01	3.43E-01
3060	471363.09	3845877.25	0.00086	0.00333	0.00036	0.00056	7E-04	6E-04	0.0034	0.00333	6.00E-03	6.15E-03	3.75E-08	1.97E-05	2.26E-04	5.92E-05	2.37E-02	2.26E-02	1.35E-02
3061	471863.09	3845877.25	0.00087	0.00332	0.00037	0.00056	7E-04	6E-04	0.0033	0.00332	6.07E-03	6.13E-03	3.85E-08	1.97E-05	2.22E-04	6.02E-05	2.37E-02	2.26E-02	1.36E-02
3062	472363.09	3845877.25	0.00088	0.00383	0.00039	0.00057	7E-04	6E-04	0.0038	0.00383	6.14E-03	7.07E-03	4.06E-08	2.01E-05	2.26E-04	6.02E-05	2.72E-02	2.60E-02	1.47E-02
3063	472863.09	3845877.25	0.00086	0.00369	0.00039	0.00058	7E-04	6E-04	0.0037	0.00369	6.00E-03	6.82E-03	4.06E-08	2.04E-05	2.29E-04	5.92E-05	2.64E-02	2.51E-02	1.44E-02
3064	473363.09	3845877.25	0.00084	0.00378	0.00039	0.00061	8E-04	6E-04	0.0038	0.00378	5.86E-03	6.98E-03	4.06E-08	2.15E-05	2.38E-04	5.92E-05	2.71E-02	2.57E-02	1.46E-02
3065	473863.09	3845877.25	0.00082	0.00384	0.00038	0.00063	8E-04	6E-04	0.0039	0.00384	5.72E-03	7.09E-03	3.96E-08	2.22E-05	2.51E-04	5.92E-05	2.76E-02	2.61E-02	1.47E-02
3066	474363.09	3845877.25	0.00081	0.00407	0.00037	0.00061	8E-04	6E-04	0.0041	0.00407	5.65E-03	7.52E-03	3.85E-08	2.15E-05	2.57E-04	5.83E-05	2.93E-02	2.77E-02	1.51E-02
3067	474863.09	3845877.25	0.00082	0.0042	0.00037	0.00059	8E-04	6E-04	0.0043	0.0042	5.72E-03	7.76E-03	3.85E-08	2.08E-05	2.48E-04	5.73E-05	3.01E-02	2.86E-02	1.54E-02
3068	475363.09	3845877.25	0.00085	0.00424	0.00036	0.00056	7E-04	6E-04	0.0043	0.00424	5.93E-03	7.83E-03	3.75E-08	1.97E-05	2.32E-04	5.92E-05	3.03E-02	2.88E-02	1.55E-02
3069	475863.09	3845877.25	0.00088	0.00414	0.00036	0.00055	7E-04	6E-04	0.0042	0.00414	6.14E-03	7.65E-03	3.75E-08	1.94E-05	2.13E-04	5.92E-05	2.94E-02	2.82E-02	1.53E-02
3070	476363.09	3845877.25	0.00088	0.00393	0.00037	0.00057	7E-04	6E-04	0.004	0.00393	6.14E-03	7.26E-03	3.85E-08	2.01E-05	2.04E-04	5.92E-05	2.81E-02	2.67E-02	1.51E-02

3071	476863.09	3845877.25	0.00084	0.0037	0.00037	0.00058	6E-04	6E-04	0.0038	0.0037	5.86E-03	6.83E-03	3.85E-08	2.04E-05	2.01E-04	5.83E-05	2.66E-02	2.52E-02	1.45E-02
3072	477363.09	3845877.25	0.00081	0.00351	0.00037	0.00059	7E-04	6E-04	0.0036	0.00351	5.65E-03	6.48E-03	3.85E-08	2.08E-05	2.19E-04	5.73E-05	2.53E-02	2.39E-02	1.39E-02
3073	477863.09	3845877.25	0.0008	0.0033	0.00037	0.00057	8E-04	6E-04	0.0033	0.0033	5.58E-03	6.09E-03	3.85E-08	2.01E-05	2.51E-04	5.64E-05	2.36E-02	2.24E-02	1.32E-02
3074	478363.09	3845877.25	0.0008	0.00317	0.00037	0.00055	8E-04	6E-04	0.0032	0.00317	5.58E-03	5.85E-03	3.85E-08	1.94E-05	2.41E-04	5.55E-05	2.27E-02	2.16E-02	1.29E-02
3075	478863.09	3845877.25	0.00081	0.00305	0.00037	0.00055	7E-04	6E-04	0.0031	0.00305	5.65E-03	5.63E-03	3.85E-08	1.94E-05	2.07E-04	5.55E-05	2.18E-02	2.07E-02	1.26E-02
3076	479363.09	3845877.25	0.00083	0.00299	0.00037	0.00055	6E-04	6E-04	0.003	0.00299	5.79E-03	5.52E-03	3.85E-08	1.94E-05	1.94E-04	5.64E-05	2.14E-02	2.03E-02	1.26E-02
3077	479863.09	3845877.25	0.00087	0.00288	0.00038	0.00055	6E-04	6E-04	0.0029	0.00288	6.07E-03	5.32E-03	3.96E-08	1.94E-05	1.91E-04	5.73E-05	2.05E-02	1.96E-02	1.26E-02
3078	480363.09	3845877.25	0.00089	0.00268	0.0004	0.00054	6E-04	6E-04	0.0027	0.00268	6.20E-03	4.95E-03	4.16E-08	1.90E-05	1.91E-04	5.73E-05	1.91E-02	1.82E-02	1.23E-02
3079	480863.09	3845877.25	0.0009	0.00256	0.00042	0.00054	6E-04	6E-04	0.0026	0.00256	6.27E-03	4.73E-03	4.37E-08	1.90E-05	1.97E-04	5.83E-05	1.83E-02	1.74E-02	1.22E-02
3080	481363.09	3845877.25	0.00088	0.00245	0.00041	0.00055	7E-04	6E-04	0.0025	0.00245	6.14E-03	4.52E-03	4.27E-08	1.94E-05	2.04E-04	5.73E-05	1.76E-02	1.67E-02	1.19E-02
3081	481863.09	3845877.25	0.00083	0.00234	0.00038	0.00054	7E-04	6E-04	0.0024	0.00234	5.79E-03	4.32E-03	3.96E-08	1.90E-05	2.07E-04	5.64E-05	1.68E-02	1.59E-02	1.13E-02
3082	482363.09	3845877.25	0.00079	0.00222	0.00038	0.00054	6E-04	6E-04	0.0023	0.00222	5.51E-03	4.10E-03	3.96E-08	1.90E-05	1.97E-04	5.64E-05	1.59E-02	1.51E-02	1.07E-02
3083	482863.09	3845877.25	0.00076	0.00198	0.00036	0.00051	6E-04	6E-04	0.002	0.00198	5.30E-03	3.66E-03	3.75E-08	1.80E-05	1.97E-04	5.45E-05	1.42E-02	1.35E-02	9.93E-03
3084	483363.09	3845877.25	0.00074	0.00186	0.00036	0.00051	7E-04	6E-04	0.0019	0.00186	5.16E-03	3.44E-03	3.75E-08	1.80E-05	2.10E-04	5.26E-05	1.34E-02	1.26E-02	9.62E-03
3085	483863.09	3845877.25	0.00079	0.00201	0.00038	0.00053	7E-04	6E-04	0.002	0.00201	5.51E-03	3.71E-03	3.96E-08	1.87E-05	2.22E-04	5.45E-05	1.44E-02	1.37E-02	1.02E-02
3086	484363.09	3845877.25	0.00078	0.00199	0.00039	0.00053	7E-04	6E-04	0.002	0.00199	5.44E-03	3.68E-03	4.06E-08	1.87E-05	2.16E-04	5.36E-05	1.42E-02	1.35E-02	1.01E-02
3087	484863.09	3845877.25	0.00076	0.00194	0.00038	0.00053	7E-04	6E-04	0.002	0.00194	5.30E-03	3.58E-03	3.96E-08	1.87E-05	2.07E-04	5.17E-05	1.39E-02	1.32E-02	9.85E-03
3088	485363.09	3845877.25	0.00075	0.00188	0.00037	0.00052	6E-04	5E-04	0.0019	0.00188	5.23E-03	3.47E-03	3.85E-08	1.83E-05	1.88E-04	5.08E-05	1.35E-02	1.28E-02	9.64E-03
3089	485863.09	3845877.25	0.00075	0.00187	0.00037	0.00052	6E-04	5E-04	0.0019	0.00187	5.23E-03	3.45E-03	3.85E-08	1.83E-05	1.72E-04	5.08E-05	1.34E-02	1.27E-02	9.60E-03
3090	486363.09	3845877.25	0.00076	0.00184	0.00038	0.00051	6E-04	5E-04	0.0019	0.00184	5.30E-03	3.40E-03	3.96E-08	1.80E-05	1.72E-04	5.08E-05	1.32E-02	1.25E-02	9.60E-03
3091	486863.09	3845877.25	0.00076	0.00177	0.00037	0.0005	6E-04	5E-04	0.0018	0.00177	5.30E-03	3.27E-03	3.85E-08	1.76E-05	1.75E-04	4.98E-05	1.27E-02	1.20E-02	9.46E-03
3092	487363.09	3845877.25	0.00077	0.00175	0.00036	0.00049	6E-04	5E-04	0.0018	0.00175	5.37E-03	3.23E-03	3.75E-08	1.72E-05	1.79E-04	4.98E-05	1.25E-02	1.19E-02	9.42E-03
3093	487863.09	3845877.25	0.00076	0.00168	0.00035	0.00048	6E-04	5E-04	0.0017	0.00168	5.30E-03	3.10E-03	3.64E-08	1.69E-05	1.85E-04	4.89E-05	1.20E-02	1.14E-02	9.27E-03
3094	488363.09	3845877.25	0.00076	0.00165	0.00035	0.00047	6E-04	5E-04	0.0017	0.00165	5.30E-03	3.05E-03	3.64E-08	1.65E-05	1.97E-04	4.89E-05	1.18E-02	1.12E-02	9.22E-03
3095	488863.09	3845877.25	0.00079	0.00173	0.00036	0.00049	6E-04	5E-04	0.0017	0.00173	5.51E-03	3.20E-03	3.75E-08	1.72E-05	1.91E-04	4.98E-05	1.23E-02	1.18E-02	9.53E-03
3096	489363.09	3845877.25	0.0008	0.00171	0.00036	0.00049	6E-04	5E-04	0.0017	0.00171	5.58E-03	3.16E-03	3.75E-08	1.72E-05	1.79E-04	5.08E-05	1.23E-02	1.16E-02	9.61E-03
3097	489863.09	3845877.25	0.00079	0.00165	0.00036	0.00048	6E-04	5E-04	0.0017	0.00165	5.51E-03	3.05E-03	3.75E-08	1.69E-05	1.72E-04	4.98E-05	1.18E-02	1.12E-02	9.41E-03
3098	490363.09	3845877.25	0.00077	0.00157	0.00037	0.00047	6E-04	5E-04	0.0016	0.00157	5.37E-03	2.90E-03	3.85E-08	1.65E-05	1.75E-04	4.89E-05	1.13E-02	1.07E-02	9.10E-03
3099	490863.09	3845877.25	0.00075	0.00143	0.00036	0.00045	6E-04	5E-04	0.0014	0.00143	5.23E-03	2.64E-03	3.75E-08	1.58E-05	1.79E-04	4.79E-05	1.02E-02	9.72E-03	8.59E-03
3100	491363.09	3845877.25	0.00078	0.00149	0.00037	0.00047	6E-04	5E-04	0.0015	0.00149	5.44E-03	2.75E-03	3.85E-08	1.65E-05	1.91E-04	4.98E-05	1.06E-02	1.01E-02	8.94E-03
3101	491863.09	3845877.25	0.00081	0.00152	0.00039	0.00048	6E-04	5E-04	0.0015	0.00152	5.65E-03	2.81E-03	4.06E-08	1.69E-05	1.94E-04	5.08E-05	1.08E-02	1.03E-02	9.22E-03
3102	492363.09	3845877.25	0.00079	0.00141	0.00039	0.00048	6E-04	5E-04	0.0014	0.00141	5.51E-03	2.60E-03	4.06E-08	1.69E-05	1.85E-04	4.98E-05	1.01E-02	9.59E-03	8.84E-03
3103	492863.09	3845877.25	0.00084	0.00152	0.00041	0.00049	6E-04	6E-04	0.0015	0.00152	5.86E-03	2.81E-03	4.27E-08	1.72E-05	1.88E-04	5.26E-05	1.08E-02	1.03E-02	9.43E-03
3104	493363.09	3845877.25	0.00087	0.00154	0.00041	0.00051	6E-04	6E-04	0.0016	0.00154	6.07E-03	2.84E-03	4.27E-08	1.80E-05	1.91E-04	5.36E-05	1.11E-02	1.05E-02	9.75E-03
3105	493863.09	3845877.25	0.00089	0.00156	0.00043	0.00052	6E-04	6E-04	0.0016	0.00156	6.20E-03	2.88E-03	4.48E-08	1.83E-05	1.94E-04	5.45E-05	1.12E-02	1.06E-02	9.94E-03
3106	494363.09	3845877.25	0.00092	0.00157	0.00044	0.00053	6E-04	6E-04	0.0016	0.00157	6.41E-03	2.90E-03	4.58E-08	1.87E-05	1.97E-04	5.55E-05	1.12E-02	1.07E-02	1.01E-02
3107	494863.09	3845877.25	0.00093	0.00156	0.00045	0.00054	6E-04	6E-04	0.0016	0.00156	6.48E-03	2.88E-03	4.68E-08	1.90E-05	1.97E-04	5.64E-05	1.12E-02	1.06E-02	1.02E-02
3108	495363.09	3845877.25	0.00096	0.00157	0.00046	0.00056	6E-04	6E-04	0.0016	0.00157	6.69E-03	2.90E-03	4.79E-08	1.97E-05	1.97E-04	5.83E-05	1.13E-02	1.07E-02	1.05E-02
3109	495863.09	3845877.25	0.00098	0.00159	0.00047	0.00057	7E-04	6E-04	0.0016	0.00159	6.83E-03	2.94E-03	4.89E-08	2.01E-05	2.04E-04	5.92E-05	1.13E-02	1.08E-02	1.06E-02
3110	496363.09	3845877.25	0.00101	0.00159	0.00048	0.00058	7E-04	7E-04	0.0016	0.00159	7.04E-03	2.94E-03	5.00E-08	2.04E-05	2.19E-04	6.11E-05	1.14E-02	1.08E-02	1.09E-02
3111	496863.09	3845877.25	0.00102	0.00159	0.0005	0.00059	7E-04	7E-04	0.0016	0.00159	7.11E-03	2.94E-03	5.21E-08	2.08E-05	2.32E-04	6.30E-05	1.14E-02	1.08E-02	1.10E-02
3112	497363.09	3845877.25	0.00105	0.00158	0.00052	0.0006	8E-04	7E-04	0.0016	0.00158	7.32E-03	2.92E-03	5.41E-08	2.11E-05	2.41E-04	6.39E-05	1.13E-02	1.07E-02	1.12E-02
3113	497863.09	3845877.25	0.00107	0.00158	0.00054	0.00061	8E-04	7E-04	0.0016	0.00158	7.46E-03	2.92E-03	5.62E-08	2.15E-05	2.51E-04	6.58E-05	1.13E-02	1.07E-02	1.13E-02
3114	498363.09	3845877.25	0.00109	0.00157	0.00055	0.00062	8E-04	7E-04	0.0016	0.00157	7.60E-03	2.90E-03	5.73E-08	2.18E-05	2.60E-04	6.67E-05	1.13E-02	1.07E-02	1.14E-02
3115	471363.09	3846377.25	0.00094	0.06116	0.0004	0.00066	9E-04	7E-04	0.0616	0.06116	6.55E-03	1.13E-01	4.16E-08	2.32E-05	2.66E-04	6.67E-05	4.37E-01	4.16E-01	1.41E-01
3116	471863.09	3846377.25	0.00094	0.05165	0.00039	0.00063	8E-04	7E-04	0.0521	0.05165	6.55E-03	9.54E-02	4.06E-08	2.22E-05	2.51E-04	6.49E-05	3.69E-01	3.51E-01	1.20E-01
3117	472363.09	3846377.25	0.00092	0.01572	0.00038	0.00058	7E-04	7E-04	0.0158	0.01572	6.41E-03	2.90E-02	3.96E-08	2.04E-05	2.32E-04	6.20E-05	1.12E-01	1.07E-01	4.11E-02
3118	472863.09	3846377.25	0.00093	0.01091	0.0004	0.00059	8E-04	7E-04	0.011	0.01091	6.48E-03	2.01E-02	4.16E-08	2.08E-05	2.35E-04	6.30E-05	7.78E-02	7.42E-02	3.06E-02
3119	473363.09	3846377.25	0.00092	0.0086	0.00042	0.00061	8E-04	7E-04	0.0087	0.0086	6.41E-03	1.59E-02	4.37E-08	2.15E-05	2.38E-04	6.20E-05	6.14E-02	5.85E-02	2.55E-02
3120	473863.09	3846377.25	0.00092	0.0077	0.00042	0.00064	8E-04	7E-04	0.0078	0.0077	6.41E-03	1.42E-02	4.37E-08	2.25E-05	2.48E-04	6.30E-05	5.51E-02	5.24E-02	2.37E-02
3121	474363.09	3846377.25	0.0009	0.00696	0.00041	0.00067	8E-04	7E-04	0.0071	0.00696	6.27E-03	1.29E-02	4.27E-08	2.36E-05	2.63E-04	6.30E-05	5.00E-02	4.73E-02	2.21E-02
3122	474863.09	3846377.25	0.00089	0.00654	0.0004	0.00066	9E-04	7E-04	0.0066	0.00654	6.20E-03	1.21E-02	4.16E-08	2.32E-05	2.73E-04	6.20E-05	4.69E-02	4.45E-02	2.11E-02
3123	475363.09	3846377.25	0.0009	0.00608	0.00039	0.00063	8E-04	7E-04	0.0061	0.00608	6.27E-03	1.12E-02	4.06E-08	2.22E-05	2.63E-04	6.20E-05	4.35E-02	4.13E-02	2.00E-02
3124	475863.09	3846377.25	0.00092	0.00573	0.00039	0.00059	8E-04	7E-04	0.0058	0.00573	6.41E-03	1.06E-02	4.06E-08	2.08E-05	2.44E-04	6.39E-05	4.08E-02	3.90E-02	1.92E-02
3125	476363.09	3846377.25	0.00094	0.00527	0.00038	0.00058	7E-04	7E-04	0.0053	0.00527	6.55E-03	9.73E-03	3.96E-08	2.04E-05	2.26E-04	6.30E-05	3.76E-02	3.58E-02	1.83E-02
3126	476863.09	3846377.25	0.00094	0.00487	0.00039	0.0006	7E-04	7E-04	0.0049	0.00487	6.55E-03	8.99E-03	4.06E-08	2.11E-05	2.13E-04	6.20E-05	3.49E-02	3.31E-02	1.76E-02
3127	477363.09	3846377.25	0.0009	0.00452	0.00038	0.00061	7E-04	7E-04	0.0046	0.00452	6.27E-03	8.35E-03	3.96E-08	2.15E-05	2.13E-04	6.20E-05	3.25E-02	3.07E-02	1.67E-02
3128	477863.09	3846377.25	0.00088	0.00417	0.00039	0.00062	8E-04	6E-04	0.0042	0.00417	6.14E-03	7.70E-03	4.06E-08	2.18E-05	2.35E-04	6.02E-05	3.00E-02	2.84E-02	1.58E-02

3129	478363.09	3846377.25	0.00087	0.00392	0.00039	0.00059	9E-04	6E-04	0.004	0.00392	6.07E-03	7.24E-03	4.06E-08	2.08E-05	2.66E-04	5.92E-05	2.81E-02	2.67E-02	1.51E-02
3130	478863.09	3846377.25	0.00088	0.00377	0.00039	0.00058	8E-04	6E-04	0.0038	0.00377	6.14E-03	6.96E-03	4.06E-08	2.04E-05	2.51E-04	5.92E-05	2.69E-02	2.56E-02	1.47E-02
3131	479363.09	3846377.25	0.00089	0.0036	0.00039	0.00059	7E-04	6E-04	0.0036	0.0036	6.20E-03	6.65E-03	4.06E-08	2.08E-05	2.13E-04	5.92E-05	2.58E-02	2.45E-02	1.45E-02
3132	479863.09	3846377.25	0.00092	0.00341	0.0004	0.00058	7E-04	6E-04	0.0034	0.00341	6.41E-03	6.30E-03	4.16E-08	2.04E-05	2.04E-04	6.02E-05	2.44E-02	2.32E-02	1.42E-02
3133	480363.09	3846377.25	0.00097	0.00329	0.00042	0.00058	6E-04	7E-04	0.0033	0.00329	6.76E-03	6.08E-03	4.37E-08	2.04E-05	1.97E-04	6.20E-05	2.35E-02	2.24E-02	1.43E-02
3134	480863.09	3846377.25	0.00098	0.00303	0.00044	0.00058	6E-04	7E-04	0.0031	0.00303	6.83E-03	5.60E-03	4.58E-08	2.04E-05	2.01E-04	6.11E-05	2.17E-02	2.06E-02	1.38E-02
3135	481363.09	3846377.25	0.00098	0.0029	0.00044	0.00058	7E-04	7E-04	0.0029	0.0029	6.83E-03	5.36E-03	4.58E-08	2.04E-05	2.13E-04	6.11E-05	2.08E-02	1.97E-02	1.36E-02
3136	481863.09	3846377.25	0.00095	0.00275	0.00042	0.00058	7E-04	6E-04	0.0028	0.00275	6.62E-03	5.08E-03	4.37E-08	2.04E-05	2.16E-04	6.02E-05	1.97E-02	1.87E-02	1.30E-02
3137	482363.09	3846377.25	0.00088	0.00258	0.0004	0.00057	7E-04	6E-04	0.0026	0.00258	6.14E-03	4.77E-03	4.16E-08	2.01E-05	2.13E-04	5.92E-05	1.85E-02	1.75E-02	1.21E-02
3138	482863.09	3846377.25	0.00084	0.00235	0.00039	0.00055	7E-04	6E-04	0.0024	0.00235	5.86E-03	4.34E-03	4.06E-08	1.94E-05	2.07E-04	5.83E-05	1.69E-02	1.60E-02	1.14E-02
3139	483363.09	3846377.25	0.00087	0.00237	0.0004	0.00056	7E-04	6E-04	0.0024	0.00237	6.07E-03	4.38E-03	4.16E-08	1.97E-05	2.16E-04	5.92E-05	1.69E-02	1.61E-02	1.16E-02
3140	483863.09	3846377.25	0.00087	0.0023	0.0004	0.00056	8E-04	6E-04	0.0023	0.0023	6.07E-03	4.25E-03	4.16E-08	1.97E-05	2.38E-04	5.83E-05	1.65E-02	1.56E-02	1.15E-02
3141	484363.09	3846377.25	0.00085	0.00218	0.0004	0.00055	7E-04	6E-04	0.0022	0.00218	5.93E-03	4.03E-03	4.16E-08	1.94E-05	2.29E-04	5.64E-05	1.57E-02	1.48E-02	1.11E-02
3142	484863.09	3846377.25	0.00086	0.00224	0.00041	0.00056	7E-04	6E-04	0.0023	0.00224	6.00E-03	4.14E-03	4.27E-08	1.97E-05	2.29E-04	5.55E-05	1.60E-02	1.52E-02	1.12E-02
3143	485363.09	3846377.25	0.00085	0.00221	0.00041	0.00056	7E-04	6E-04	0.0022	0.00221	5.93E-03	4.08E-03	4.27E-08	1.97E-05	2.10E-04	5.55E-05	1.58E-02	1.50E-02	1.11E-02
3144	485863.09	3846377.25	0.00084	0.00212	0.0004	0.00056	6E-04	6E-04	0.0021	0.00212	5.86E-03	3.92E-03	4.16E-08	1.97E-05	1.85E-04	5.45E-05	1.52E-02	1.44E-02	1.08E-02
3145	486363.09	3846377.25	0.00081	0.00195	0.00039	0.00053	6E-04	6E-04	0.002	0.00195	5.65E-03	3.60E-03	4.06E-08	1.87E-05	1.79E-04	5.26E-05	1.40E-02	1.33E-02	1.02E-02
3146	486863.09	3846377.25	0.00081	0.00189	0.00038	0.00052	6E-04	6E-04	0.0019	0.00189	5.65E-03	3.49E-03	3.96E-08	1.83E-05	1.82E-04	5.26E-05	1.35E-02	1.29E-02	1.01E-02
3147	487363.09	3846377.25	0.00083	0.0019	0.00038	0.00052	6E-04	6E-04	0.0019	0.0019	5.79E-03	3.51E-03	3.96E-08	1.83E-05	1.88E-04	5.26E-05	1.35E-02	1.29E-02	1.02E-02
3148	487863.09	3846377.25	0.00086	0.00196	0.00038	0.00053	7E-04	6E-04	0.002	0.00196	6.00E-03	3.62E-03	3.96E-08	1.87E-05	2.04E-04	5.36E-05	1.40E-02	1.33E-02	1.06E-02
3149	488363.09	3846377.25	0.00086	0.00192	0.00038	0.00052	7E-04	6E-04	0.0019	0.00192	6.00E-03	3.55E-03	3.96E-08	1.83E-05	2.16E-04	5.36E-05	1.37E-02	1.31E-02	1.05E-02
3150	488863.09	3846377.25	0.00086	0.00189	0.00038	0.00052	7E-04	6E-04	0.0019	0.00189	6.00E-03	3.49E-03	3.96E-08	1.83E-05	2.07E-04	5.36E-05	1.35E-02	1.29E-02	1.04E-02
3151	489363.09	3846377.25	0.00087	0.00187	0.00038	0.00052	6E-04	6E-04	0.0019	0.00187	6.07E-03	3.45E-03	3.96E-08	1.83E-05	1.91E-04	5.36E-05	1.33E-02	1.27E-02	1.04E-02
3152	489863.09	3846377.25	0.00086	0.0018	0.00039	0.00051	6E-04	6E-04	0.0018	0.0018	6.00E-03	3.32E-03	4.06E-08	1.80E-05	1.85E-04	5.36E-05	1.29E-02	1.22E-02	1.02E-02
3153	490363.09	3846377.25	0.00083	0.00165	0.00039	0.00049	6E-04	6E-04	0.0017	0.00165	5.79E-03	3.05E-03	4.06E-08	1.72E-05	1.85E-04	5.17E-05	1.18E-02	1.12E-02	9.63E-03
3154	490863.09	3846377.25	0.00082	0.00158	0.00039	0.00049	6E-04	6E-04	0.0016	0.00158	5.72E-03	2.92E-03	4.06E-08	1.72E-05	1.91E-04	5.17E-05	1.13E-02	1.07E-02	9.42E-03
3155	491363.09	3846377.25	0.00084	0.00155	0.0004	0.00049	6E-04	6E-04	0.0016	0.00155	5.86E-03	2.86E-03	4.16E-08	1.72E-05	2.01E-04	5.17E-05	1.11E-02	1.05E-02	9.57E-03
3156	491863.09	3846377.25	0.00088	0.00163	0.00042	0.00052	7E-04	6E-04	0.0017	0.00163	6.14E-03	3.01E-03	4.37E-08	1.83E-05	2.04E-04	5.45E-05	1.17E-02	1.11E-02	1.00E-02
3157	492363.09	3846377.25	0.00088	0.0016	0.00042	0.00052	6E-04	6E-04	0.0016	0.0016	6.14E-03	2.96E-03	4.37E-08	1.83E-05	1.97E-04	5.45E-05	1.14E-02	1.09E-02	9.89E-03
3158	492863.09	3846377.25	0.0009	0.00159	0.00043	0.00052	6E-04	6E-04	0.0016	0.00159	6.27E-03	2.94E-03	4.48E-08	1.83E-05	1.97E-04	5.55E-05	1.14E-02	1.08E-02	1.01E-02
3159	493363.09	3846377.25	0.00094	0.00164	0.00045	0.00054	6E-04	6E-04	0.0017	0.00164	6.55E-03	3.03E-03	4.68E-08	1.90E-05	2.01E-04	5.73E-05	1.18E-02	1.12E-02	1.05E-02
3160	493863.09	3846377.25	0.00097	0.00165	0.00046	0.00056	7E-04	6E-04	0.0017	0.00165	6.76E-03	3.05E-03	4.79E-08	1.97E-05	2.07E-04	5.83E-05	1.18E-02	1.12E-02	1.07E-02
3161	494363.09	3846377.25	0.00099	0.00166	0.00048	0.00057	7E-04	6E-04	0.0017	0.00166	6.90E-03	3.07E-03	5.00E-08	2.01E-05	2.07E-04	6.02E-05	1.19E-02	1.13E-02	1.09E-02
3162	494863.09	3846377.25	0.00101	0.00166	0.00049	0.00059	7E-04	7E-04	0.0017	0.00166	7.04E-03	3.07E-03	5.10E-08	2.08E-05	2.04E-04	6.11E-05	1.19E-02	1.13E-02	1.10E-02
3163	495363.09	3846377.25	0.00104	0.00166	0.0005	0.0006	7E-04	7E-04	0.0017	0.00166	7.25E-03	3.07E-03	5.21E-08	2.11E-05	2.10E-04	6.30E-05	1.19E-02	1.13E-02	1.12E-02
3164	495863.09	3846377.25	0.00106	0.00167	0.00051	0.00061	7E-04	7E-04	0.0017	0.00167	7.39E-03	3.08E-03	5.31E-08	2.15E-05	2.26E-04	6.39E-05	1.20E-02	1.14E-02	1.14E-02
3165	496363.09	3846377.25	0.00109	0.00168	0.00053	0.00062	8E-04	7E-04	0.0017	0.00168	7.60E-03	3.10E-03	5.52E-08	2.18E-05	2.41E-04	6.58E-05	1.20E-02	1.14E-02	1.17E-02
3166	496863.09	3846377.25	0.00112	0.00168	0.00055	0.00063	8E-04	7E-04	0.0017	0.00168	7.81E-03	3.10E-03	5.73E-08	2.22E-05	2.51E-04	6.77E-05	1.20E-02	1.14E-02	1.19E-02
3167	497363.09	3846377.25	0.00114	0.00167	0.00057	0.00065	8E-04	7E-04	0.0017	0.00167	7.95E-03	3.08E-03	5.93E-08	2.29E-05	2.63E-04	6.96E-05	1.20E-02	1.14E-02	1.21E-02
3168	497863.09	3846377.25	0.00117	0.00166	0.00059	0.00066	9E-04	8E-04	0.0017	0.00166	8.16E-03	3.07E-03	6.14E-08	2.32E-05	2.76E-04	7.14E-05	1.20E-02	1.13E-02	1.23E-02
3169	498363.09	3846377.25	0.0012	0.00165	0.00061	0.00067	9E-04	8E-04	0.0017	0.00165	8.37E-03	3.05E-03	6.35E-08	2.36E-05	2.82E-04	7.33E-05	1.18E-02	1.12E-02	1.24E-02
3170	471363.09	3846877.25	0.001	0.00839	0.00047	0.0007	9E-04	8E-04	0.0085	0.00839	6.97E-03	1.55E-02	4.89E-08	2.46E-05	2.79E-04	7.05E-05	6.01E-02	5.71E-02	2.59E-02
3171	471863.09	3846877.25	0.00101	0.01782	0.00044	0.0007	9E-04	8E-04	0.018	0.01782	7.04E-03	3.29E-02	4.58E-08	2.46E-05	2.82E-04	7.05E-05	1.27E-01	1.21E-01	4.66E-02
3172	472363.09	3846877.25	0.00102	0.22642	0.00042	0.00068	9E-04	7E-04	0.2277	0.22642	7.11E-03	4.18E-01	4.37E-08	2.39E-05	2.73E-04	6.96E-05	1.61E+00	1.54E+00	4.99E-01
3173	472863.09	3846877.25	0.00099	0.02711	0.0004	0.00062	8E-04	7E-04	0.0273	0.02711	6.90E-03	5.01E-02	4.16E-08	2.18E-05	2.48E-04	6.58E-05	1.93E-01	1.84E-01	6.63E-02
3174	473363.09	3846877.25	0.00101	0.01674	0.00042	0.00062	8E-04	7E-04	0.0169	0.01674	7.04E-03	3.09E-02	4.37E-08	2.18E-05	2.44E-04	6.58E-05	1.19E-01	1.14E-01	4.38E-02
3175	473863.09	3846877.25	0.00102	0.01353	0.00045	0.00064	8E-04	7E-04	0.0136	0.01353	7.11E-03	2.50E-02	4.68E-08	2.25E-05	2.48E-04	6.67E-05	9.65E-02	9.20E-02	3.69E-02
3176	474363.09	3846877.25	0.00101	0.01084	0.00045	0.00067	8E-04	7E-04	0.0109	0.01084	7.04E-03	2.00E-02	4.68E-08	2.36E-05	2.57E-04	6.58E-05	7.75E-02	7.37E-02	3.12E-02
3177	474863.09	3846877.25	0.00099	0.0092	0.00043	0.00071	9E-04	7E-04	0.0093	0.0092	6.90E-03	1.70E-02	4.48E-08	2.50E-05	2.73E-04	6.67E-05	6.60E-02	6.26E-02	2.77E-02
3178	475363.09	3846877.25	0.00097	0.00802	0.00042	0.0007	9E-04	7E-04	0.0081	0.00802	6.76E-03	1.48E-02	4.37E-08	2.46E-05	2.88E-04	6.49E-05	5.76E-02	5.45E-02	2.50E-02
3179	475863.09	3846877.25	0.00098	0.00754	0.00041	0.00067	9E-04	7E-04	0.0076	0.00754	6.83E-03	1.39E-02	4.27E-08	2.36E-05	2.82E-04	6.58E-05	5.40E-02	5.13E-02	2.38E-02
3180	476363.09	3846877.25	0.001	0.0069	0.00041	0.00063	8E-04	7E-04	0.0069	0.0069	6.97E-03	1.27E-02	4.27E-08	2.22E-05	2.60E-04	6.77E-05	4.92E-02	4.69E-02	2.23E-02
3181	476863.09	3846877.25	0.00102	0.00625	0.00041	0.00062	8E-04	7E-04	0.0063	0.00625	7.11E-03	1.15E-02	4.27E-08	2.18E-05	2.38E-04	6.58E-05	4.46E-02	4.25E-02	2.10E-02
3182	477363.09	3846877.25	0.00102	0.00572	0.00041	0.00064	7E-04	7E-04	0.0058	0.00572	7.11E-03	1.06E-02	4.27E-08	2.25E-05	2.22E-04	6.58E-05	4.10E-02	3.89E-02	2.01E-02
3183	477863.09	3846877.25	0.00098	0.00521	0.0004	0.00065	7E-04	7E-04	0.0053	0.00521	6.83E-03	9.62E-03	4.16E-08	2.29E-05	2.26E-04	6.49E-05	3.75E-02	3.54E-02	1.88E-02
3184	478363.09	3846877.25	0.00097	0.00483	0.00041	0.00065	8E-04	7E-04	0.0049	0.00483	6.76E-03	8.92E-03	4.27E-08	2.29E-05	2.54E-04	6.39E-05	3.47E-02	3.28E-02	1.79E-02
3185	478863.09	3846877.25	0.00098	0.00459	0.00042	0.00063	9E-04	7E-04	0.0046	0.00459	6.83E-03	8.48E-03	4.37E-08	2.22E-05	2.91E-04	6.30E-05	3.29E-02	3.12E-02	1.74E-02
3186	479363.09	3846877.25	0.00097	0.0043	0.00042	0.00062	8E-04	7E-04	0.0043	0.0043	6.76E-03	7.94E-03	4.37E-08	2.18E-05	2.60E-04	6.30E-05	3.08E-02	2.92E-02	1.66E-02

3187	479863.09	3846877.25	0.00096	0.00382	0.00041	0.0006	7E-04	7E-04	0.0039	0.00382	6.69E-03	7.06E-03	4.27E-08	2.11E-05	2.19E-04	6.20E-05	2.73E-02	2.60E-02	1.54E-02
3188	480363.09	3846877.25	0.00099	0.00349	0.00043	0.00059	7E-04	7E-04	0.0035	0.00349	6.90E-03	6.45E-03	4.48E-08	2.08E-05	2.10E-04	6.20E-05	2.49E-02	2.37E-02	1.48E-02
3189	480863.09	3846877.25	0.00102	0.00329	0.00045	0.00059	7E-04	7E-04	0.0033	0.00329	7.11E-03	6.08E-03	4.68E-08	2.08E-05	2.07E-04	6.30E-05	2.35E-02	2.24E-02	1.46E-02
3190	481363.09	3846877.25	0.00106	0.00324	0.00047	0.00061	7E-04	7E-04	0.0033	0.00324	7.39E-03	5.98E-03	4.89E-08	2.15E-05	2.13E-04	6.39E-05	2.32E-02	2.20E-02	1.49E-02
3191	481863.09	3846877.25	0.00104	0.00311	0.00044	0.00061	7E-04	7E-04	0.0032	0.00311	7.25E-03	5.74E-03	4.58E-08	2.15E-05	2.22E-04	6.39E-05	2.23E-02	2.11E-02	1.45E-02
3192	482363.09	3846877.25	0.00097	0.00287	0.00042	0.00059	7E-04	7E-04	0.0029	0.00287	6.76E-03	5.30E-03	4.37E-08	2.08E-05	2.26E-04	6.20E-05	2.06E-02	1.95E-02	1.35E-02
3193	482863.09	3846877.25	0.00097	0.00278	0.00041	0.00059	7E-04	7E-04	0.0028	0.00278	6.76E-03	5.13E-03	4.27E-08	2.08E-05	2.19E-04	6.20E-05	1.99E-02	1.89E-02	1.32E-02
3194	483363.09	3846877.25	0.00096	0.00269	0.00042	0.00059	7E-04	7E-04	0.0027	0.00269	6.69E-03	4.97E-03	4.37E-08	2.08E-05	2.22E-04	6.20E-05	1.93E-02	1.83E-02	1.29E-02
3195	483863.09	3846877.25	0.00097	0.00261	0.00042	0.0006	8E-04	7E-04	0.0027	0.00261	6.76E-03	4.82E-03	4.37E-08	2.11E-05	2.41E-04	6.20E-05	1.88E-02	1.77E-02	1.29E-02
3196	484363.09	3846877.25	0.00096	0.00257	0.00043	0.0006	8E-04	7E-04	0.0026	0.00257	6.69E-03	4.75E-03	4.48E-08	2.11E-05	2.57E-04	6.11E-05	1.85E-02	1.75E-02	1.28E-02
3197	484863.09	3846877.25	0.00096	0.00249	0.00044	0.00059	8E-04	6E-04	0.0025	0.00249	6.69E-03	4.60E-03	4.58E-08	2.08E-05	2.48E-04	5.92E-05	1.79E-02	1.69E-02	1.25E-02
3198	485363.09	3846877.25	0.00096	0.00246	0.00044	0.00059	7E-04	6E-04	0.0025	0.00246	6.69E-03	4.54E-03	4.58E-08	2.08E-05	2.32E-04	5.92E-05	1.76E-02	1.67E-02	1.25E-02
3199	485863.09	3846877.25	0.00093	0.00237	0.00043	0.00059	6E-04	6E-04	0.0024	0.00237	6.48E-03	4.38E-03	4.48E-08	2.08E-05	2.01E-04	5.83E-05	1.69E-02	1.61E-02	1.20E-02
3200	486363.09	3846877.25	0.00095	0.00238	0.00043	0.00059	6E-04	6E-04	0.0024	0.00238	6.62E-03	4.40E-03	4.48E-08	2.08E-05	1.91E-04	5.83E-05	1.70E-02	1.62E-02	1.21E-02
3201	486863.09	3846877.25	0.00092	0.0022	0.00042	0.00057	6E-04	6E-04	0.0022	0.0022	6.41E-03	4.06E-03	4.37E-08	2.01E-05	1.94E-04	5.73E-05	1.57E-02	1.50E-02	1.15E-02
3202	487363.09	3846877.25	0.00094	0.00219	0.00041	0.00056	6E-04	6E-04	0.0022	0.00219	6.55E-03	4.04E-03	4.27E-08	1.97E-05	2.01E-04	5.73E-05	1.57E-02	1.49E-02	1.16E-02
3203	487863.09	3846877.25	0.00094	0.00215	0.00041	0.00056	7E-04	6E-04	0.0022	0.00215	6.55E-03	3.97E-03	4.27E-08	1.97E-05	2.16E-04	5.73E-05	1.54E-02	1.46E-02	1.16E-02
3204	488363.09	3846877.25	0.00094	0.00209	0.0004	0.00055	7E-04	6E-04	0.0021	0.00209	6.55E-03	3.86E-03	4.16E-08	1.94E-05	2.29E-04	5.64E-05	1.50E-02	1.42E-02	1.15E-02
3205	488863.09	3846877.25	0.00095	0.00206	0.0004	0.00055	7E-04	6E-04	0.0021	0.00206	6.62E-03	3.80E-03	4.16E-08	1.94E-05	2.16E-04	5.73E-05	1.47E-02	1.40E-02	1.15E-02
3206	489363.09	3846877.25	0.00095	0.00203	0.00042	0.00055	6E-04	6E-04	0.0021	0.00203	6.62E-03	3.75E-03	4.37E-08	1.94E-05	2.01E-04	5.73E-05	1.45E-02	1.38E-02	1.14E-02
3207	489863.09	3846877.25	0.00094	0.00197	0.00042	0.00055	6E-04	6E-04	0.002	0.00197	6.55E-03	3.64E-03	4.37E-08	1.94E-05	2.01E-04	5.73E-05	1.41E-02	1.34E-02	1.12E-02
3208	490363.09	3846877.25	0.00092	0.00183	0.00042	0.00053	6E-04	6E-04	0.0018	0.00183	6.41E-03	3.38E-03	4.37E-08	1.87E-05	1.97E-04	5.64E-05	1.30E-02	1.24E-02	1.07E-02
3209	490863.09	3846877.25	0.00092	0.00177	0.00043	0.00053	7E-04	6E-04	0.0018	0.00177	6.41E-03	3.27E-03	4.48E-08	1.87E-05	2.07E-04	5.64E-05	1.26E-02	1.20E-02	1.05E-02
3210	491363.09	3846877.25	0.00093	0.00174	0.00044	0.00054	7E-04	6E-04	0.0018	0.00174	6.48E-03	3.21E-03	4.58E-08	1.90E-05	2.16E-04	5.73E-05	1.25E-02	1.18E-02	1.06E-02
3211	491863.09	3846877.25	0.00093	0.00168	0.00044	0.00054	7E-04	6E-04	0.0017	0.00168	6.48E-03	3.10E-03	4.58E-08	1.90E-05	2.10E-04	5.73E-05	1.20E-02	1.14E-02	1.05E-02
3212	492363.09	3846877.25	0.00099	0.00176	0.00046	0.00057	7E-04	6E-04	0.0018	0.00176	6.90E-03	3.25E-03	4.79E-08	2.01E-05	2.13E-04	6.02E-05	1.26E-02	1.20E-02	1.11E-02
3213	492863.09	3846877.25	0.00101	0.00175	0.00047	0.00057	7E-04	7E-04	0.0018	0.00175	7.04E-03	3.23E-03	4.89E-08	2.01E-05	2.13E-04	6.11E-05	1.25E-02	1.19E-02	1.12E-02
3214	493363.09	3846877.25	0.00103	0.00176	0.00049	0.00059	7E-04	7E-04	0.0018	0.00176	7.18E-03	3.25E-03	5.10E-08	2.08E-05	2.13E-04	6.20E-05	1.26E-02	1.20E-02	1.14E-02
3215	493863.09	3846877.25	0.00105	0.00176	0.00051	0.0006	7E-04	7E-04	0.0018	0.00176	7.32E-03	3.25E-03	5.31E-08	2.11E-05	2.16E-04	6.30E-05	1.26E-02	1.20E-02	1.15E-02
3216	494363.09	3846877.25	0.00107	0.00174	0.00052	0.00061	7E-04	7E-04	0.0018	0.00174	7.46E-03	3.21E-03	5.41E-08	2.15E-05	2.16E-04	6.49E-05	1.25E-02	1.18E-02	1.16E-02
3217	494863.09	3846877.25	0.00109	0.00174	0.00053	0.00063	7E-04	7E-04	0.0018	0.00174	7.60E-03	3.21E-03	5.52E-08	2.22E-05	2.19E-04	6.58E-05	1.25E-02	1.18E-02	1.18E-02
3218	495363.09	3846877.25	0.00112	0.00173	0.00054	0.00064	7E-04	7E-04	0.0018	0.00173	7.81E-03	3.20E-03	5.62E-08	2.25E-05	2.29E-04	6.77E-05	1.24E-02	1.18E-02	1.20E-02
3219	495863.09	3846877.25	0.00114	0.00172	0.00056	0.00065	8E-04	7E-04	0.0017	0.00172	7.95E-03	3.18E-03	5.83E-08	2.29E-05	2.44E-04	6.86E-05	1.23E-02	1.17E-02	1.21E-02
3220	496363.09	3846877.25	0.00117	0.00172	0.00059	0.00066	8E-04	8E-04	0.0017	0.00172	8.16E-03	3.18E-03	6.14E-08	2.32E-05	2.63E-04	7.05E-05	1.23E-02	1.17E-02	1.23E-02
3221	496863.09	3846877.25	0.0012	0.00172	0.00061	0.00068	9E-04	8E-04	0.0018	0.00172	8.37E-03	3.18E-03	6.35E-08	2.39E-05	2.73E-04	7.33E-05	1.24E-02	1.17E-02	1.26E-02
3222	497363.09	3846877.25	0.00125	0.00174	0.00063	0.0007	9E-04	8E-04	0.0018	0.00174	8.71E-03	3.21E-03	6.56E-08	2.46E-05	2.88E-04	7.61E-05	1.25E-02	1.18E-02	1.30E-02
3223	497863.09	3846877.25	0.0013	0.00174	0.00065	0.00072	1E-03	8E-04	0.0018	0.00174	9.06E-03	3.21E-03	6.77E-08	2.53E-05	3.01E-04	7.90E-05	1.25E-02	1.18E-02	1.34E-02
3224	498363.09	3846877.25	0.00132	0.00172	0.00068	0.00073	1E-03	9E-04	0.0017	0.00172	9.20E-03	3.18E-03	7.08E-08	2.57E-05	3.01E-04	7.99E-05	1.23E-02	1.17E-02	1.34E-02
3225	471363.09	3847377.25	0.00109	0.00543	0.00053	0.00074	9E-04	8E-04	0.0055	0.00543	7.60E-03	1.00E-02	5.52E-08	2.60E-05	2.88E-04	7.33E-05	3.88E-02	3.69E-02	1.99E-02
3226	471863.09	3847377.25	0.0011	0.00741	0.00051	0.00075	9E-04	8E-04	0.0075	0.00741	7.67E-03	1.37E-02	5.31E-08	2.64E-05	2.91E-04	7.43E-05	5.30E-02	5.04E-02	2.44E-02
3227	472363.09	3847377.25	0.0011	0.01276	0.00048	0.00074	1E-03	8E-04	0.0129	0.01276	7.67E-03	2.36E-02	5.00E-08	2.60E-05	2.98E-04	7.43E-05	9.13E-02	8.68E-02	3.62E-02
3228	472863.09	3847377.25	0.00112	0.05719	0.00044	0.00073	9E-04	8E-04	0.0576	0.05719	7.81E-03	1.06E-01	4.58E-08	2.57E-05	2.95E-04	7.43E-05	4.08E-01	3.89E-01	1.33E-01
3229	473363.09	3847377.25	0.00112	0.05263	0.00043	0.00068	9E-04	8E-04	0.0531	0.05263	7.81E-03	9.72E-02	4.48E-08	2.39E-05	2.73E-04	7.14E-05	3.76E-01	3.58E-01	1.24E-01
3230	473863.09	3847377.25	0.00113	0.02475	0.00045	0.00066	8E-04	8E-04	0.025	0.02475	7.88E-03	4.57E-02	4.68E-08	2.32E-05	2.60E-04	7.05E-05	1.77E-01	1.68E-01	6.25E-02
3231	474363.09	3847377.25	0.00116	0.01815	0.00049	0.00068	8E-04	8E-04	0.0183	0.01815	8.09E-03	3.35E-02	5.10E-08	2.39E-05	2.60E-04	7.05E-05	1.30E-01	1.23E-01	4.82E-02
3232	474863.09	3847377.25	0.00114	0.01342	0.00048	0.0007	9E-04	7E-04	0.0136	0.01342	7.95E-03	2.48E-02	5.00E-08	2.46E-05	2.66E-04	6.96E-05	9.60E-02	9.13E-02	3.78E-02
3233	475363.09	3847377.25	0.0011	0.01067	0.00046	0.00074	9E-04	7E-04	0.0108	0.01067	7.67E-03	1.97E-02	4.79E-08	2.60E-05	2.82E-04	6.96E-05	7.66E-02	7.26E-02	3.18E-02
3234	475863.09	3847377.25	0.00108	0.0098	0.00045	0.00075	1E-03	7E-04	0.0099	0.0098	7.53E-03	1.81E-02	4.68E-08	2.64E-05	3.04E-04	6.96E-05	7.04E-02	6.66E-02	2.97E-02
3235	476363.09	3847377.25	0.00109	0.00897	0.00044	0.00072	1E-03	8E-04	0.0091	0.00897	7.60E-03	1.66E-02	4.58E-08	2.53E-05	3.01E-04	7.14E-05	6.42E-02	6.10E-02	2.78E-02
3236	476863.09	3847377.25	0.0011	0.00785	0.00043	0.00067	9E-04	8E-04	0.0079	0.00785	7.67E-03	1.45E-02	4.48E-08	2.36E-05	2.79E-04	7.14E-05	5.60E-02	5.34E-02	2.51E-02
3237	477363.09	3847377.25	0.00113	0.0071	0.00043	0.00066	8E-04	7E-04	0.0072	0.0071	7.88E-03	1.31E-02	4.48E-08	2.32E-05	2.54E-04	6.96E-05	5.07E-02	4.83E-02	2.38E-02
3238	477863.09	3847377.25	0.00111	0.00641	0.00043	0.00068	8E-04	7E-04	0.0065	0.00641	7.74E-03	1.18E-02	4.48E-08	2.39E-05	2.35E-04	6.96E-05	4.60E-02	4.36E-02	2.23E-02
3239	478363.09	3847377.25	0.00109	0.00587	0.00043	0.00069	8E-04	7E-04	0.006	0.00587	7.60E-03	1.08E-02	4.48E-08	2.43E-05	2.38E-04	6.86E-05	4.23E-02	3.99E-02	2.12E-02
3240	478863.09	3847377.25	0.0011	0.00552	0.00044	0.0007	9E-04	7E-04	0.0056	0.00552	7.67E-03	1.02E-02	4.58E-08	2.46E-05	2.79E-04	6.86E-05	3.96E-02	3.75E-02	2.03E-02
3241	479363.09	3847377.25	0.00106	0.0049	0.00043	0.00065	1E-03	7E-04	0.0049	0.0049	7.39E-03	9.05E-03	4.48E-08	2.29E-05	2.98E-04	6.58E-05	3.50E-02	3.33E-02	1.85E-02
3242	479863.09	3847377.25	0.00102	0.0042	0.00043	0.00062	8E-04	7E-04	0.0042	0.0042	7.11E-03	7.76E-03	4.48E-08	2.18E-05	2.48E-04	6.39E-05	3.00E-02	2.86E-02	1.67E-02
3243	480363.09	3847377.25	0.00099	0.00354	0.00043	0.00059	7E-04	7E-04	0.0036	0.00354	6.90E-03	6.54E-03	4.48E-08	2.08E-05	2.26E-04	6.30E-05	2.53E-02	2.41E-02	1.50E-02
3244	480863.09	3847377.25	0.00099	0.00328	0.00045	0.00059	7E-04	7E-04	0.0033	0.00328	6.90E-03	6.06E-03	4.68E-08	2.08E-05	2.19E-04	6.30E-05	2.35E-02	2.23E-02	1.44E-02

3245	481363.09	3847377.25	0.00106	0.00333	0.00047	0.00061	7E-04	7E-04	0.0034	0.00333	7.39E-03	6.15E-03	4.89E-08	2.15E-05	2.19E-04	6.49E-05	2.38E-02	2.26E-02	1.50E-02
3246	481863.09	3847377.25	0.00116	0.00352	0.00047	0.00065	7E-04	7E-04	0.0036	0.00352	8.09E-03	6.50E-03	4.89E-08	2.29E-05	2.29E-04	6.67E-05	2.53E-02	2.39E-02	1.63E-02
3247	482363.09	3847377.25	0.00115	0.00338	0.00046	0.00064	8E-04	7E-04	0.0034	0.00338	8.02E-03	6.24E-03	4.79E-08	2.25E-05	2.38E-04	6.67E-05	2.42E-02	2.30E-02	1.58E-02
3248	482863.09	3847377.25	0.00113	0.00321	0.00045	0.00063	8E-04	7E-04	0.0033	0.00321	7.88E-03	5.93E-03	4.68E-08	2.22E-05	2.38E-04	6.67E-05	2.30E-02	2.18E-02	1.53E-02
3249	483363.09	3847377.25	0.00109	0.00305	0.00044	0.00063	7E-04	7E-04	0.0031	0.00305	7.60E-03	5.63E-03	4.58E-08	2.22E-05	2.29E-04	6.58E-05	2.19E-02	2.07E-02	1.47E-02
3250	483863.09	3847377.25	0.0011	0.00296	0.00045	0.00063	8E-04	7E-04	0.003	0.00296	7.67E-03	5.47E-03	4.68E-08	2.22E-05	2.44E-04	6.58E-05	2.13E-02	2.01E-02	1.46E-02
3251	484363.09	3847377.25	0.00111	0.00295	0.00046	0.00064	9E-04	7E-04	0.003	0.00295	7.74E-03	5.45E-03	4.79E-08	2.25E-05	2.69E-04	6.58E-05	2.12E-02	2.01E-02	1.47E-02
3252	484863.09	3847377.25	0.0011	0.00285	0.00048	0.00064	9E-04	7E-04	0.0029	0.00285	7.67E-03	5.26E-03	5.00E-08	2.25E-05	2.76E-04	6.49E-05	2.04E-02	1.94E-02	1.43E-02
3253	485363.09	3847377.25	0.00109	0.00277	0.00047	0.00063	9E-04	7E-04	0.0028	0.00277	7.60E-03	5.12E-03	4.89E-08	2.22E-05	2.66E-04	6.39E-05	1.98E-02	1.88E-02	1.41E-02
3254	485863.09	3847377.25	0.00108	0.00273	0.00047	0.00064	7E-04	7E-04	0.0028	0.00273	7.53E-03	5.04E-03	4.89E-08	2.25E-05	2.32E-04	6.30E-05	1.96E-02	1.86E-02	1.39E-02
3255	486363.09	3847377.25	0.00108	0.00269	0.00047	0.00064	7E-04	7E-04	0.0027	0.00269	7.53E-03	4.97E-03	4.89E-08	2.25E-05	2.07E-04	6.30E-05	1.93E-02	1.83E-02	1.38E-02
3256	486863.09	3847377.25	0.00106	0.00252	0.00045	0.00061	7E-04	7E-04	0.0025	0.00252	7.39E-03	4.65E-03	4.68E-08	2.15E-05	2.07E-04	6.20E-05	1.80E-02	1.71E-02	1.32E-02
3257	487363.09	3847377.25	0.00107	0.00248	0.00045	0.00061	7E-04	7E-04	0.0025	0.00248	7.46E-03	4.58E-03	4.68E-08	2.15E-05	2.16E-04	6.20E-05	1.78E-02	1.69E-02	1.33E-02
3258	487863.09	3847377.25	0.00104	0.00237	0.00044	0.0006	7E-04	7E-04	0.0024	0.00237	7.25E-03	4.38E-03	4.58E-08	2.11E-05	2.29E-04	6.11E-05	1.69E-02	1.61E-02	1.28E-02
3259	488363.09	3847377.25	0.00105	0.0023	0.00043	0.00059	8E-04	7E-04	0.0023	0.0023	7.32E-03	4.25E-03	4.48E-08	2.08E-05	2.41E-04	6.11E-05	1.65E-02	1.56E-02	1.28E-02
3260	488863.09	3847377.25	0.00105	0.00226	0.00044	0.0006	7E-04	7E-04	0.0023	0.00226	7.32E-03	4.17E-03	4.58E-08	2.11E-05	2.26E-04	6.11E-05	1.62E-02	1.54E-02	1.26E-02
3261	489363.09	3847377.25	0.00106	0.00221	0.00045	0.0006	7E-04	7E-04	0.0022	0.00221	7.39E-03	4.08E-03	4.68E-08	2.11E-05	2.13E-04	6.20E-05	1.59E-02	1.50E-02	1.26E-02
3262	489863.09	3847377.25	0.00104	0.00211	0.00046	0.00059	7E-04	7E-04	0.0021	0.00211	7.25E-03	3.90E-03	4.79E-08	2.08E-05	2.10E-04	6.11E-05	1.51E-02	1.43E-02	1.22E-02
3263	490363.09	3847377.25	0.00103	0.00202	0.00047	0.00058	7E-04	7E-04	0.002	0.00202	7.18E-03	3.73E-03	4.89E-08	2.04E-05	2.16E-04	6.11E-05	1.45E-02	1.37E-02	1.19E-02
3264	490863.09	3847377.25	0.00104	0.00198	0.00048	0.00059	7E-04	7E-04	0.002	0.00198	7.25E-03	3.66E-03	5.00E-08	2.08E-05	2.29E-04	6.20E-05	1.42E-02	1.35E-02	1.19E-02
3265	491363.09	3847377.25	0.00105	0.00192	0.00048	0.00059	7E-04	7E-04	0.0019	0.00192	7.32E-03	3.55E-03	5.00E-08	2.08E-05	2.32E-04	6.30E-05	1.37E-02	1.31E-02	1.19E-02
3266	491863.09	3847377.25	0.00108	0.00194	0.00049	0.00061	7E-04	7E-04	0.002	0.00194	7.53E-03	3.58E-03	5.10E-08	2.15E-05	2.26E-04	6.49E-05	1.40E-02	1.32E-02	1.22E-02
3267	492363.09	3847377.25	0.00109	0.00189	0.0005	0.00062	7E-04	7E-04	0.0019	0.00189	7.60E-03	3.49E-03	5.21E-08	2.18E-05	2.22E-04	6.49E-05	1.35E-02	1.29E-02	1.21E-02
3268	492863.09	3847377.25	0.00111	0.00189	0.00052	0.00063	7E-04	7E-04	0.0019	0.00189	7.74E-03	3.49E-03	5.41E-08	2.22E-05	2.26E-04	6.67E-05	1.35E-02	1.29E-02	1.22E-02
3269	493363.09	3847377.25	0.00113	0.00187	0.00054	0.00064	7E-04	7E-04	0.0019	0.00187	7.88E-03	3.45E-03	5.62E-08	2.25E-05	2.26E-04	6.77E-05	1.34E-02	1.27E-02	1.23E-02
3270	493863.09	3847377.25	0.00114	0.00183	0.00056	0.00065	7E-04	7E-04	0.0019	0.00183	7.95E-03	3.38E-03	5.83E-08	2.29E-05	2.26E-04	6.86E-05	1.31E-02	1.24E-02	1.23E-02
3271	494363.09	3847377.25	0.00115	0.00179	0.00056	0.00066	7E-04	7E-04	0.0018	0.00179	8.02E-03	3.31E-03	5.83E-08	2.32E-05	2.29E-04	6.96E-05	1.28E-02	1.22E-02	1.23E-02
3272	494863.09	3847377.25	0.00117	0.00177	0.00058	0.00067	8E-04	8E-04	0.0018	0.00177	8.16E-03	3.27E-03	6.04E-08	2.36E-05	2.35E-04	7.05E-05	1.27E-02	1.20E-02	1.24E-02
3273	495363.09	3847377.25	0.0012	0.00175	0.0006	0.00068	8E-04	8E-04	0.0018	0.00175	8.37E-03	3.23E-03	6.25E-08	2.39E-05	2.51E-04	7.24E-05	1.25E-02	1.19E-02	1.26E-02
3274	495863.09	3847377.25	0.00122	0.00174	0.00062	0.00069	8E-04	8E-04	0.0018	0.00174	8.51E-03	3.21E-03	6.45E-08	2.43E-05	2.63E-04	7.43E-05	1.25E-02	1.18E-02	1.28E-02
3275	496363.09	3847377.25	0.00125	0.00173	0.00064	0.00071	9E-04	8E-04	0.0018	0.00173	8.71E-03	3.20E-03	6.66E-08	2.50E-05	2.76E-04	7.61E-05	1.24E-02	1.18E-02	1.29E-02
3276	496863.09	3847377.25	0.00129	0.00174	0.00067	0.00073	9E-04	8E-04	0.0018	0.00174	8.99E-03	3.21E-03	6.98E-08	2.57E-05	2.95E-04	7.90E-05	1.25E-02	1.18E-02	1.33E-02
3277	497363.09	3847377.25	0.00135	0.00177	0.0007	0.00076	1E-03	9E-04	0.0018	0.00177	9.41E-03	3.27E-03	7.29E-08	2.67E-05	3.10E-04	8.27E-05	1.27E-02	1.20E-02	1.37E-02
3278	497863.09	3847377.25	0.00142	0.0018	0.00073	0.00079	0.001	9E-04	0.0018	0.0018	9.90E-03	3.32E-03	7.60E-08	2.78E-05	3.23E-04	8.65E-05	1.30E-02	1.22E-02	1.44E-02
3279	498363.09	3847377.25	0.00146	0.00179	0.00076	0.00081	0.001	9E-04	0.0018	0.00179	1.02E-02	3.31E-03	7.91E-08	2.85E-05	3.20E-04	8.84E-05	1.29E-02	1.22E-02	1.46E-02
3280	471363.09	3847877.25	0.00117	0.00428	0.00055	0.00075	1E-03	8E-04	0.0043	0.00428	8.16E-03	7.90E-03	5.73E-08	2.64E-05	3.01E-04	7.71E-05	3.05E-02	2.91E-02	1.79E-02
3281	471863.09	3847877.25	0.00119	0.00519	0.00057	0.00077	1E-03	8E-04	0.0052	0.00519	8.30E-03	9.59E-03	5.93E-08	2.71E-05	3.04E-04	7.80E-05	3.71E-02	3.53E-02	2.01E-02
3282	472363.09	3847877.25	0.00121	0.0068	0.00056	0.00079	1E-03	8E-04	0.0069	0.0068	8.44E-03	1.26E-02	5.83E-08	2.78E-05	3.07E-04	7.90E-05	4.86E-02	4.62E-02	2.38E-02
3283	472863.09	3847877.25	0.00125	0.01008	0.00053	0.0008	0.001	8E-04	0.0102	0.01008	8.71E-03	1.86E-02	5.52E-08	2.82E-05	3.13E-04	7.90E-05	7.21E-02	6.85E-02	3.13E-02
3284	473363.09	3847877.25	0.0013	0.01996	0.00049	0.00079	0.001	8E-04	0.0201	0.01996	9.06E-03	3.69E-02	5.10E-08	2.78E-05	3.13E-04	7.90E-05	1.42E-01	1.36E-01	5.29E-02
3285	473863.09	3847877.25	0.00137	0.35303	0.00047	0.00076	1E-03	8E-04	0.3501	0.35303	9.55E-03	6.52E-01	4.89E-08	2.67E-05	3.04E-04	7.90E-05	2.48E+00	2.40E+00	7.42E-01
3286	474363.09	3847877.25	0.00139	0.03796	0.00048	0.00071	9E-04	8E-04	0.0384	0.03796	9.69E-03	7.01E-02	5.00E-08	2.50E-05	2.82E-04	7.61E-05	2.72E-01	2.58E-01	9.41E-02
3287	474863.09	3847877.25	0.00139	0.02304	0.00052	0.00072	9E-04	8E-04	0.0232	0.02304	9.69E-03	4.26E-02	5.41E-08	2.53E-05	2.76E-04	7.52E-05	1.65E-01	1.57E-01	6.05E-02
3288	475363.09	3847877.25	0.0013	0.01546	0.00052	0.00073	9E-04	8E-04	0.0156	0.01546	9.06E-03	2.86E-02	5.41E-08	2.57E-05	2.79E-04	7.33E-05	1.10E-01	1.05E-01	4.33E-02
3289	475863.09	3847877.25	0.00123	0.01187	0.00049	0.00078	9E-04	8E-04	0.012	0.01187	8.58E-03	2.19E-02	5.10E-08	2.75E-05	2.95E-04	7.33E-05	8.51E-02	8.07E-02	3.53E-02
3290	476363.09	3847877.25	0.00124	0.01131	0.00048	0.00082	0.001	8E-04	0.0115	0.01131	8.64E-03	2.09E-02	5.00E-08	2.89E-05	3.20E-04	7.52E-05	8.11E-02	7.69E-02	3.42E-02
3291	476863.09	3847877.25	0.00124	0.00989	0.00047	0.00077	0.001	8E-04	0.01	0.00989	8.64E-03	1.83E-02	4.89E-08	2.71E-05	3.23E-04	7.71E-05	7.08E-02	6.73E-02	3.09E-02
3292	477363.09	3847877.25	0.00126	0.00877	0.00046	0.00072	1E-03	8E-04	0.0088	0.00877	8.78E-03	1.62E-02	4.79E-08	2.53E-05	2.98E-04	7.71E-05	6.24E-02	5.96E-02	2.82E-02
3293	477863.09	3847877.25	0.00128	0.00793	0.00046	0.00071	9E-04	8E-04	0.008	0.00793	8.92E-03	1.46E-02	4.79E-08	2.50E-05	2.69E-04	7.43E-05	5.66E-02	5.39E-02	2.66E-02
3294	478363.09	3847877.25	0.00127	0.00718	0.00046	0.00073	8E-04	8E-04	0.0073	0.00718	8.85E-03	1.33E-02	4.79E-08	2.57E-05	2.51E-04	7.33E-05	5.15E-02	4.88E-02	2.52E-02
3295	478863.09	3847877.25	0.00127	0.0066	0.00046	0.00074	8E-04	8E-04	0.0067	0.0066	8.85E-03	1.22E-02	4.79E-08	2.60E-05	2.57E-04	7.33E-05	4.75E-02	4.49E-02	2.41E-02
3296	479363.09	3847877.25	0.00119	0.00554	0.00045	0.00069	9E-04	7E-04	0.0056	0.00554	8.30E-03	1.02E-02	4.68E-08	2.43E-05	2.82E-04	6.96E-05	3.97E-02	3.77E-02	2.09E-02
3297	479863.09	3847877.25	0.00108	0.0043	0.00044	0.00063	8E-04	7E-04	0.0043	0.0043	7.53E-03	7.94E-03	4.58E-08	2.22E-05	2.63E-04	6.49E-05	3.08E-02	2.92E-02	1.73E-02
3298	480363.09	3847877.25	0.00113	0.00423	0.00045	0.00064	8E-04	7E-04	0.0043	0.00423	7.88E-03	7.81E-03	4.68E-08	2.25E-05	2.48E-04	6.58E-05	3.03E-02	2.88E-02	1.75E-02
3299	480863.09	3847877.25	0.00115	0.0039	0.00047	0.00063	8E-04	7E-04	0.0039	0.0039	8.02E-03	7.20E-03	4.89E-08	2.22E-05	2.35E-04	6.67E-05	2.78E-02	2.65E-02	1.68E-02
3300	481363.09	3847877.25	0.00119	0.00379	0.0005	0.00064	7E-04	7E-04	0.0038	0.00379	8.30E-03	7.00E-03	5.21E-08	2.25E-05	2.32E-04	6.86E-05	2.70E-02	2.58E-02	1.68E-02
3301	481863.09	3847877.25	0.00136	0.00412	0.00051	0.0007	8E-04	8E-04	0.0042	0.00412	9.48E-03	7.61E-03	5.31E-08	2.46E-05	2.38E-04	7.24E-05	2.96E-02	2.80E-02	1.90E-02
3302	482363.09	3847877.25	0.00132	0.0039	0.0005	0.00069	8E-04	8E-04	0.004	0.0039	9.20E-03	7.20E-03	5.21E-08	2.43E-05	2.51E-04	7.14E-05	2.80E-02	2.65E-02	1.82E-02

3303	482863.09	3847877.25	0.00128	0.00365	0.00048	0.00068	8E-04	8E-04	0.0037	0.00365	8.92E-03	6.74E-03	5.00E-08	2.39E-05	2.54E-04	7.05E-05	2.61E-02	2.48E-02	1.73E-02
3304	483363.09	3847877.25	0.00128	0.00347	0.00047	0.00067	8E-04	8E-04	0.0035	0.00347	8.92E-03	6.41E-03	4.89E-08	2.36E-05	2.48E-04	7.05E-05	2.49E-02	2.36E-02	1.69E-02
3305	483863.09	3847877.25	0.00129	0.00336	0.00049	0.00068	8E-04	8E-04	0.0034	0.00336	8.99E-03	6.21E-03	5.10E-08	2.39E-05	2.51E-04	7.05E-05	2.42E-02	2.28E-02	1.69E-02
3306	484363.09	3847877.25	0.00131	0.00333	0.0005	0.00068	9E-04	8E-04	0.0034	0.00333	9.13E-03	6.15E-03	5.21E-08	2.39E-05	2.79E-04	7.05E-05	2.39E-02	2.26E-02	1.69E-02
3307	484863.09	3847877.25	0.00129	0.00322	0.00051	0.00068	9E-04	8E-04	0.0033	0.00322	8.99E-03	5.95E-03	5.31E-08	2.39E-05	2.95E-04	7.05E-05	2.31E-02	2.19E-02	1.65E-02
3308	485363.09	3847877.25	0.00128	0.00316	0.0005	0.00069	9E-04	7E-04	0.0032	0.00316	8.92E-03	5.84E-03	5.21E-08	2.43E-05	2.95E-04	6.86E-05	2.27E-02	2.15E-02	1.63E-02
3309	485863.09	3847877.25	0.00127	0.00311	0.0005	0.00069	9E-04	7E-04	0.0031	0.00311	8.85E-03	5.74E-03	5.21E-08	2.43E-05	2.66E-04	6.86E-05	2.22E-02	2.11E-02	1.61E-02
3310	486363.09	3847877.25	0.00122	0.00296	0.0005	0.00068	7E-04	7E-04	0.003	0.00296	8.51E-03	5.47E-03	5.21E-08	2.39E-05	2.26E-04	6.67E-05	2.12E-02	2.01E-02	1.53E-02
3311	486863.09	3847877.25	0.0012	0.00283	0.0005	0.00067	7E-04	7E-04	0.0029	0.00283	8.37E-03	5.23E-03	5.21E-08	2.36E-05	2.19E-04	6.58E-05	2.03E-02	1.92E-02	1.49E-02
3312	487363.09	3847877.25	0.00119	0.00273	0.00049	0.00065	7E-04	7E-04	0.0028	0.00273	8.30E-03	5.04E-03	5.10E-08	2.29E-05	2.29E-04	6.58E-05	1.96E-02	1.86E-02	1.46E-02
3313	487863.09	3847877.25	0.00118	0.0026	0.00047	0.00064	8E-04	7E-04	0.0026	0.0026	8.23E-03	4.80E-03	4.89E-08	2.25E-05	2.41E-04	6.58E-05	1.86E-02	1.77E-02	1.43E-02
3314	488363.09	3847877.25	0.00118	0.00252	0.00047	0.00064	8E-04	7E-04	0.0026	0.00252	8.23E-03	4.65E-03	4.89E-08	2.25E-05	2.54E-04	6.67E-05	1.81E-02	1.71E-02	1.42E-02
3315	488863.09	3847877.25	0.00118	0.00246	0.00048	0.00065	8E-04	7E-04	0.0025	0.00246	8.23E-03	4.54E-03	5.00E-08	2.29E-05	2.41E-04	6.67E-05	1.76E-02	1.67E-02	1.40E-02
3316	489363.09	3847877.25	0.00118	0.00241	0.0005	0.00065	7E-04	7E-04	0.0024	0.00241	8.23E-03	4.45E-03	5.21E-08	2.29E-05	2.26E-04	6.77E-05	1.73E-02	1.64E-02	1.39E-02
3317	489863.09	3847877.25	0.00122	0.00239	0.00052	0.00067	8E-04	7E-04	0.0024	0.00239	8.51E-03	4.41E-03	5.41E-08	2.36E-05	2.38E-04	6.86E-05	1.71E-02	1.63E-02	1.41E-02
3318	490363.09	3847877.25	0.00121	0.00233	0.00053	0.00066	8E-04	7E-04	0.0024	0.00233	8.44E-03	4.30E-03	5.52E-08	2.32E-05	2.48E-04	6.96E-05	1.67E-02	1.58E-02	1.40E-02
3319	490863.09	3847877.25	0.00121	0.00224	0.00053	0.00066	8E-04	7E-04	0.0023	0.00224	8.44E-03	4.14E-03	5.52E-08	2.32E-05	2.63E-04	6.96E-05	1.61E-02	1.52E-02	1.38E-02
3320	491363.09	3847877.25	0.00119	0.00213	0.00052	0.00066	8E-04	7E-04	0.0022	0.00213	8.30E-03	3.93E-03	5.41E-08	2.32E-05	2.48E-04	6.96E-05	1.52E-02	1.45E-02	1.33E-02
3321	491863.09	3847877.25	0.0012	0.00208	0.00053	0.00067	8E-04	8E-04	0.0021	0.00208	8.37E-03	3.84E-03	5.52E-08	2.36E-05	2.38E-04	7.05E-05	1.49E-02	1.41E-02	1.33E-02
3322	492363.09	3847877.25	0.00122	0.00205	0.00056	0.00068	8E-04	8E-04	0.0021	0.00205	8.51E-03	3.79E-03	5.83E-08	2.39E-05	2.41E-04	7.14E-05	1.47E-02	1.39E-02	1.34E-02
3323	492863.09	3847877.25	0.00123	0.002	0.00058	0.00069	8E-04	8E-04	0.002	0.002	8.58E-03	3.69E-03	6.04E-08	2.43E-05	2.44E-04	7.24E-05	1.44E-02	1.36E-02	1.34E-02
3324	493363.09	3847877.25	0.00122	0.00191	0.0006	0.00069	8E-04	8E-04	0.0019	0.00191	8.51E-03	3.53E-03	6.25E-08	2.43E-05	2.38E-04	7.24E-05	1.37E-02	1.30E-02	1.31E-02
3325	493863.09	3847877.25	0.00122	0.00185	0.0006	0.00069	8E-04	8E-04	0.0019	0.00185	8.51E-03	3.42E-03	6.25E-08	2.43E-05	2.38E-04	7.33E-05	1.33E-02	1.26E-02	1.30E-02
3326	494363.09	3847877.25	0.00123	0.00181	0.00062	0.0007	8E-04	8E-04	0.0018	0.00181	8.58E-03	3.34E-03	6.45E-08	2.46E-05	2.44E-04	7.43E-05	1.30E-02	1.23E-02	1.30E-02
3327	494863.09	3847877.25	0.00126	0.00179	0.00064	0.00072	8E-04	8E-04	0.0018	0.00179	8.78E-03	3.31E-03	6.66E-08	2.53E-05	2.60E-04	7.61E-05	1.28E-02	1.22E-02	1.31E-02
3328	495363.09	3847877.25	0.00128	0.00175	0.00066	0.00073	9E-04	8E-04	0.0018	0.00175	8.92E-03	3.23E-03	6.87E-08	2.57E-05	2.73E-04	7.80E-05	1.25E-02	1.19E-02	1.32E-02
3329	495863.09	3847877.25	0.00126	0.00163	0.00066	0.00073	9E-04	8E-04	0.0017	0.00163	8.78E-03	3.01E-03	6.87E-08	2.57E-05	2.76E-04	7.80E-05	1.18E-02	1.11E-02	1.29E-02
3330	496363.09	3847877.25	0.00135	0.00173	0.00071	0.00077	9E-04	9E-04	0.0018	0.00173	9.41E-03	3.20E-03	7.39E-08	2.71E-05	2.95E-04	8.27E-05	1.25E-02	1.18E-02	1.37E-02
3331	496863.09	3847877.25	0.00139	0.00174	0.00075	0.00079	0.001	9E-04	0.0018	0.00174	9.69E-03	3.21E-03	7.81E-08	2.78E-05	3.13E-04	8.55E-05	1.25E-02	1.18E-02	1.40E-02
3332	497363.09	3847877.25	0.00145	0.00177	0.00078	0.00082	0.001	1E-03	0.0018	0.00177	1.01E-02	3.27E-03	8.12E-08	2.89E-05	3.26E-04	8.93E-05	1.28E-02	1.20E-02	1.45E-02
3333	497863.09	3847877.25	0.00156	0.00185	0.00082	0.00086	0.001	0.001	0.0019	0.00185	1.09E-02	3.42E-03	8.54E-08	3.03E-05	3.35E-04	9.40E-05	1.34E-02	1.26E-02	1.56E-02
3334	498363.09	3847877.25	0.00161	0.00186	0.00085	0.0009	0.001	0.001	0.0019	0.00186	1.12E-02	3.44E-03	8.85E-08	3.17E-05	3.35E-04	9.68E-05	1.34E-02	1.26E-02	1.59E-02
3335	471363.09	3848377.25	0.00124	0.00365	0.00058	0.00076	1E-03	9E-04	0.0037	0.00365	8.64E-03	6.74E-03	6.04E-08	2.67E-05	3.01E-04	7.99E-05	2.60E-02	2.48E-02	1.70E-02
3336	471863.09	3848377.25	0.00128	0.00422	0.00059	0.00078	0.001	9E-04	0.0043	0.00422	8.92E-03	7.79E-03	6.14E-08	2.75E-05	3.16E-04	8.08E-05	3.01E-02	2.87E-02	1.86E-02
3337	472363.09	3848377.25	0.00132	0.00503	0.0006	0.0008	0.001	9E-04	0.0051	0.00503	9.20E-03	9.29E-03	6.25E-08	2.82E-05	3.23E-04	8.18E-05	3.59E-02	3.42E-02	2.06E-02
3338	472863.09	3848377.25	0.00137	0.00628	0.00061	0.00083	0.001	9E-04	0.0063	0.00628	9.55E-03	1.16E-02	6.35E-08	2.92E-05	3.26E-04	8.27E-05	4.49E-02	4.27E-02	2.37E-02
3339	473363.09	3848377.25	0.00147	0.00846	0.00058	0.00085	0.001	9E-04	0.0086	0.00846	1.02E-02	1.56E-02	6.04E-08	2.99E-05	3.29E-04	8.37E-05	6.06E-02	5.75E-02	2.94E-02
3340	473863.09	3848377.25	0.0017	0.01375	0.00054	0.00084	0.001	9E-04	0.0139	0.01375	1.19E-02	2.54E-02	5.62E-08	2.96E-05	3.35E-04	8.46E-05	9.83E-02	9.35E-02	4.25E-02
3341	474363.09	3848377.25	0.00385	0.06099	0.00051	0.00083	0.001	9E-04	0.0614	0.06099	2.68E-02	1.13E-01	5.31E-08	2.92E-05	3.32E-04	8.46E-05	4.35E-01	4.15E-01	1.61E-01
3342	474863.09	3848377.25	0.00208	0.04912	0.00051	0.00078	1E-03	9E-04	0.0495	0.04912	1.45E-02	9.07E-02	5.31E-08	2.75E-05	3.10E-04	8.18E-05	3.51E-01	3.34E-01	1.22E-01
3343	475363.09	3848377.25	0.00175	0.02754	0.00056	0.00077	1E-03	9E-04	0.0277	0.02754	1.22E-02	5.09E-02	5.83E-08	2.71E-05	2.98E-04	8.18E-05	1.96E-01	1.87E-01	7.27E-02
3344	475863.09	3848377.25	0.00158	0.01776	0.00056	0.00077	9E-04	8E-04	0.0179	0.01776	1.10E-02	3.28E-02	5.83E-08	2.71E-05	2.95E-04	7.80E-05	1.27E-01	1.21E-01	5.02E-02
3345	476363.09	3848377.25	0.00148	0.01332	0.00052	0.00081	1E-03	8E-04	0.0135	0.01332	1.03E-02	2.46E-02	5.41E-08	2.85E-05	3.07E-04	7.80E-05	9.54E-02	9.06E-02	4.02E-02
3346	476863.09	3848377.25	0.00153	0.01295	0.00052	0.00088	0.001	9E-04	0.0131	0.01295	1.07E-02	2.39E-02	5.41E-08	3.10E-05	3.35E-04	8.08E-05	9.29E-02	8.81E-02	3.99E-02
3347	477363.09	3848377.25	0.00151	0.01138	0.0005	0.00083	0.001	9E-04	0.0115	0.01138	1.05E-02	2.10E-02	5.21E-08	2.92E-05	3.42E-04	8.27E-05	8.15E-02	7.74E-02	3.61E-02
3348	477863.09	3848377.25	0.0015	0.01027	0.00049	0.00077	0.001	9E-04	0.0103	0.01027	1.05E-02	1.90E-02	5.10E-08	2.71E-05	3.20E-04	8.18E-05	7.31E-02	6.98E-02	3.31E-02
3349	478363.09	3848377.25	0.00152	0.00923	0.00049	0.00077	9E-04	8E-04	0.0093	0.00923	1.06E-02	1.70E-02	5.10E-08	2.71E-05	2.88E-04	7.90E-05	6.60E-02	6.28E-02	3.12E-02
3350	478863.09	3848377.25	0.00151	0.00816	0.00048	0.00077	9E-04	8E-04	0.0083	0.00816	1.05E-02	1.51E-02	5.00E-08	2.71E-05	2.66E-04	7.71E-05	5.86E-02	5.55E-02	2.91E-02
3351	479363.09	3848377.25	0.00142	0.00678	0.00048	0.00075	9E-04	8E-04	0.0069	0.00678	9.90E-03	1.25E-02	5.00E-08	2.64E-05	2.66E-04	7.43E-05	4.87E-02	4.61E-02	2.54E-02
3352	479863.09	3848377.25	0.00117	0.00425	0.00046	0.00063	8E-04	7E-04	0.0043	0.00425	8.16E-03	7.85E-03	4.79E-08	2.22E-05	2.51E-04	6.58E-05	3.04E-02	2.89E-02	1.78E-02
3353	480363.09	3848377.25	0.00127	0.00476	0.00047	0.00067	9E-04	7E-04	0.0048	0.00476	8.85E-03	8.79E-03	4.89E-08	2.36E-05	2.73E-04	6.96E-05	3.40E-02	3.24E-02	1.97E-02
3354	480863.09	3848377.25	0.00143	0.0052	0.0005	0.00071	9E-04	8E-04	0.0052	0.0052	9.97E-03	9.60E-03	5.21E-08	2.50E-05	2.66E-04	7.33E-05	3.71E-02	3.54E-02	2.17E-02
3355	481363.09	3848377.25	0.00154	0.00497	0.00054	0.00072	8E-04	8E-04	0.005	0.00497	1.07E-02	9.18E-03	5.62E-08	2.53E-05	2.51E-04	7.61E-05	3.55E-02	3.38E-02	2.20E-02
3356	481863.09	3848377.25	0.00161	0.0048	0.00055	0.00075	8E-04	8E-04	0.0049	0.0048	1.12E-02	8.87E-03	5.73E-08	2.64E-05	2.48E-04	7.71E-05	3.44E-02	3.26E-02	2.22E-02
3357	482363.09	3848377.25	0.00159	0.00459	0.00054	0.00076	8E-04	8E-04	0.0047	0.00459	1.11E-02	8.48E-03	5.62E-08	2.67E-05	2.63E-04	7.71E-05	3.30E-02	3.12E-02	2.17E-02
3358	482863.09	3848377.25	0.00151	0.00422	0.00053	0.00074	9E-04	8E-04	0.0043	0.00422	1.05E-02	7.79E-03	5.52E-08	2.60E-05	2.73E-04	7.71E-05	3.03E-02	2.87E-02	2.03E-02
3359	483363.09	3848377.25	0.00151	0.00402	0.00051	0.00073	9E-04	8E-04	0.0041	0.00402	1.05E-02	7.42E-03	5.31E-08	2.57E-05	2.73E-04	7.71E-05	2.88E-02	2.73E-02	1.98E-02
3360	483863.09	3848377.25	0.00148	0.00377	0.00051	0.00072	8E-04	8E-04	0.0038	0.00377	1.03E-02	6.96E-03	5.31E-08	2.53E-05	2.60E-04	7.61E-05	2.71E-02	2.56E-02	1.91E-02

3361	484363.09	3848377.25	0.00149	0.00366	0.00053	0.00073	9E-04	8E-04	0.0037	0.00366	1.04E-02	6.76E-03	5.52E-08	2.57E-05	2.82E-04	7.52E-05	2.63E-02	2.49E-02	1.89E-02
3362	484863.09	3848377.25	0.00151	0.00366	0.00057	0.00075	0.001	8E-04	0.0037	0.00366	1.05E-02	6.76E-03	5.93E-08	2.64E-05	3.13E-04	7.71E-05	2.63E-02	2.49E-02	1.91E-02
3363	485363.09	3848377.25	0.00148	0.00354	0.00054	0.00075	0.001	8E-04	0.0036	0.00354	1.03E-02	6.54E-03	5.62E-08	2.64E-05	3.20E-04	7.52E-05	2.54E-02	2.41E-02	1.86E-02
3364	485863.09	3848377.25	0.00145	0.00343	0.00053	0.00075	1E-03	8E-04	0.0035	0.00343	1.01E-02	6.33E-03	5.52E-08	2.64E-05	3.04E-04	7.43E-05	2.47E-02	2.33E-02	1.82E-02
3365	486363.09	3848377.25	0.00141	0.00329	0.00054	0.00074	8E-04	8E-04	0.0033	0.00329	9.83E-03	6.08E-03	5.62E-08	2.60E-05	2.51E-04	7.24E-05	2.36E-02	2.24E-02	1.75E-02
3366	486863.09	3848377.25	0.00137	0.00312	0.00054	0.00072	8E-04	8E-04	0.0032	0.00312	9.55E-03	5.76E-03	5.62E-08	2.53E-05	2.35E-04	7.14E-05	2.24E-02	2.12E-02	1.68E-02
3367	487363.09	3848377.25	0.00132	0.00294	0.00053	0.0007	8E-04	8E-04	0.003	0.00294	9.20E-03	5.43E-03	5.52E-08	2.46E-05	2.41E-04	7.14E-05	2.10E-02	2.00E-02	1.60E-02
3368	487863.09	3848377.25	0.00132	0.00285	0.0005	0.0007	8E-04	8E-04	0.0029	0.00285	9.20E-03	5.26E-03	5.21E-08	2.46E-05	2.57E-04	7.14E-05	2.04E-02	1.94E-02	1.58E-02
3369	488363.09	3848377.25	0.00132	0.00276	0.00051	0.0007	9E-04	8E-04	0.0028	0.00276	9.20E-03	5.10E-03	5.31E-08	2.46E-05	2.66E-04	7.33E-05	1.98E-02	1.88E-02	1.57E-02
3370	488863.09	3848377.25	0.00133	0.00268	0.00053	0.00072	8E-04	8E-04	0.0027	0.00268	9.27E-03	4.95E-03	5.52E-08	2.53E-05	2.54E-04	7.33E-05	1.92E-02	1.82E-02	1.56E-02
3371	489363.09	3848377.25	0.00135	0.00262	0.00056	0.00073	8E-04	8E-04	0.0027	0.00262	9.41E-03	4.84E-03	5.83E-08	2.57E-05	2.48E-04	7.43E-05	1.88E-02	1.78E-02	1.56E-02
3372	489863.09	3848377.25	0.00138	0.0026	0.00057	0.00074	8E-04	8E-04	0.0026	0.0026	9.62E-03	4.80E-03	5.93E-08	2.60E-05	2.57E-04	7.52E-05	1.87E-02	1.77E-02	1.58E-02
3373	490363.09	3848377.25	0.00138	0.00252	0.00057	0.00073	9E-04	8E-04	0.0026	0.00252	9.62E-03	4.65E-03	5.93E-08	2.57E-05	2.73E-04	7.61E-05	1.81E-02	1.71E-02	1.56E-02
3374	490863.09	3848377.25	0.00136	0.0024	0.00057	0.00073	9E-04	8E-04	0.0024	0.0024	9.48E-03	4.43E-03	5.93E-08	2.57E-05	2.82E-04	7.71E-05	1.73E-02	1.63E-02	1.53E-02
3375	491363.09	3848377.25	0.00135	0.0023	0.00058	0.00073	9E-04	8E-04	0.0023	0.0023	9.41E-03	4.25E-03	6.04E-08	2.57E-05	2.69E-04	7.71E-05	1.65E-02	1.56E-02	1.49E-02
3376	491863.09	3848377.25	0.00135	0.00223	0.00061	0.00073	8E-04	8E-04	0.0023	0.00223	9.41E-03	4.12E-03	6.35E-08	2.57E-05	2.60E-04	7.80E-05	1.60E-02	1.52E-02	1.47E-02
3377	492363.09	3848377.25	0.00132	0.00211	0.00062	0.00073	8E-04	8E-04	0.0021	0.00211	9.20E-03	3.90E-03	6.45E-08	2.57E-05	2.57E-04	7.80E-05	1.52E-02	1.43E-02	1.43E-02
3378	492863.09	3848377.25	0.0013	0.002	0.00064	0.00073	8E-04	8E-04	0.002	0.002	9.06E-03	3.69E-03	6.66E-08	2.57E-05	2.51E-04	7.71E-05	1.44E-02	1.36E-02	1.39E-02
3379	493363.09	3848377.25	0.0013	0.00193	0.00065	0.00074	8E-04	8E-04	0.002	0.00193	9.06E-03	3.56E-03	6.77E-08	2.60E-05	2.51E-04	7.80E-05	1.39E-02	1.31E-02	1.37E-02
3380	493863.09	3848377.25	0.00131	0.00187	0.00067	0.00075	8E-04	8E-04	0.0019	0.00187	9.13E-03	3.45E-03	6.98E-08	2.64E-05	2.57E-04	7.90E-05	1.34E-02	1.27E-02	1.36E-02
3381	494363.09	3848377.25	0.00132	0.00181	0.00068	0.00076	9E-04	9E-04	0.0018	0.00181	9.20E-03	3.34E-03	7.08E-08	2.67E-05	2.69E-04	8.08E-05	1.30E-02	1.23E-02	1.37E-02
3382	494863.09	3848377.25	0.00136	0.00179	0.0007	0.00078	9E-04	9E-04	0.0018	0.00179	9.48E-03	3.31E-03	7.29E-08	2.75E-05	2.85E-04	8.37E-05	1.29E-02	1.22E-02	1.39E-02
3383	495363.09	3848377.25	0.00136	0.00171	0.00072	0.00078	9E-04	9E-04	0.0017	0.00171	9.48E-03	3.16E-03	7.50E-08	2.75E-05	2.91E-04	8.37E-05	1.23E-02	1.16E-02	1.37E-02
3384	495863.09	3848377.25	0.00138	0.00168	0.00075	0.0008	1E-03	9E-04	0.0017	0.00168	9.62E-03	3.10E-03	7.81E-08	2.82E-05	3.01E-04	8.55E-05	1.21E-02	1.14E-02	1.38E-02
3385	496363.09	3848377.25	0.00143	0.00171	0.0008	0.00083	0.001	1E-03	0.0017	0.00171	9.97E-03	3.16E-03	8.33E-08	2.92E-05	3.16E-04	8.93E-05	1.23E-02	1.16E-02	1.43E-02
3386	496863.09	3848377.25	0.00145	0.00167	0.00082	0.00084	0.001	1E-03	0.0017	0.00167	1.01E-02	3.08E-03	8.54E-08	2.96E-05	3.20E-04	9.12E-05	1.20E-02	1.14E-02	1.43E-02
3387	497363.09	3848377.25	0.00154	0.00173	0.00086	0.00088	0.001	0.001	0.0018	0.00173	1.07E-02	3.20E-03	8.95E-08	3.10E-05	3.32E-04	9.49E-05	1.25E-02	1.18E-02	1.51E-02
3388	497863.09	3848377.25	0.00173	0.00192	0.00091	0.00096	0.001	0.001	0.002	0.00192	1.21E-02	3.55E-03	9.47E-08	3.38E-05	3.57E-04	1.04E-04	1.40E-02	1.31E-02	1.70E-02
3389	498363.09	3848377.25	0.00177	0.00191	0.00093	0.001	0.001	0.001	0.002	0.00191	1.23E-02	3.53E-03	9.68E-08	3.52E-05	3.63E-04	1.07E-04	1.39E-02	1.30E-02	1.73E-02
3390	471363.09	3848877.25	0.00128	0.00319	0.00059	0.00081	9E-04	9E-04	0.0032	0.00319	8.92E-03	5.89E-03	6.14E-08	2.85E-05	2.91E-04	8.37E-05	2.28E-02	2.17E-02	1.63E-02
3391	471863.09	3848877.25	0.00132	0.00356	0.00061	0.00082	1E-03	9E-04	0.0036	0.00356	9.20E-03	6.58E-03	6.35E-08	2.89E-05	3.07E-04	8.46E-05	2.54E-02	2.42E-02	1.74E-02
3392	472363.09	3848877.25	0.00138	0.00404	0.00063	0.00082	0.001	9E-04	0.0041	0.00404	9.62E-03	7.46E-03	6.56E-08	2.89E-05	3.23E-04	8.65E-05	2.88E-02	2.75E-02	1.88E-02
3393	472863.09	3848877.25	0.00144	0.00474	0.00064	0.00084	0.001	9E-04	0.0048	0.00474	1.00E-02	8.75E-03	6.66E-08	2.96E-05	3.38E-04	8.65E-05	3.38E-02	3.22E-02	2.08E-02
3394	473363.09	3848877.25	0.00152	0.0058	0.00066	0.00087	0.001	9E-04	0.0058	0.0058	1.06E-02	1.07E-02	6.87E-08	3.06E-05	3.45E-04	8.84E-05	4.14E-02	3.94E-02	2.37E-02
3395	473863.09	3848877.25	0.00168	0.00768	0.00065	0.0009	0.001	1E-03	0.0078	0.00768	1.17E-02	1.42E-02	6.77E-08	3.17E-05	3.48E-04	8.93E-05	5.49E-02	5.22E-02	2.91E-02
3396	474363.09	3848877.25	0.00207	0.01192	0.00061	0.00091	0.001	1E-03	0.0121	0.01192	1.44E-02	2.20E-02	6.35E-08	3.20E-05	3.54E-04	9.02E-05	8.54E-02	8.11E-02	4.12E-02
3397	474863.09	3848877.25	0.00468	0.03846	0.00055	0.00089	0.001	1E-03	0.0388	0.03846	3.26E-02	7.10E-02	5.73E-08	3.13E-05	3.57E-04	8.93E-05	2.75E-01	2.62E-01	1.18E-01
3398	475363.09	3848877.25	0.00486	0.08287	0.00055	0.00087	0.001	1E-03	0.0835	0.08287	3.39E-02	1.53E-01	5.73E-08	3.06E-05	3.45E-04	8.93E-05	5.92E-01	5.64E-01	2.16E-01
3399	475863.09	3848877.25	0.00311	0.04046	0.00061	0.00084	0.001	9E-04	0.0408	0.04046	2.17E-02	7.47E-02	6.35E-08	2.96E-05	3.26E-04	8.84E-05	2.89E-01	2.75E-01	1.11E-01
3400	476363.09	3848877.25	0.00255	0.02835	0.00062	0.00083	0.001	9E-04	0.0286	0.02835	1.78E-02	5.24E-02	6.45E-08	2.92E-05	3.13E-04	8.46E-05	2.02E-01	1.93E-01	8.02E-02
3401	476863.09	3848877.25	0.00227	0.02152	0.00058	0.00087	0.001	9E-04	0.0217	0.02152	1.58E-02	3.97E-02	6.04E-08	3.06E-05	3.23E-04	8.37E-05	1.54E-01	1.46E-01	6.36E-02
3402	477363.09	3848877.25	0.00214	0.01946	0.00057	0.00095	0.001	9E-04	0.0197	0.01946	1.49E-02	3.59E-02	5.93E-08	3.34E-05	3.51E-04	8.84E-05	1.40E-01	1.32E-01	5.85E-02
3403	477863.09	3848877.25	0.00201	0.01589	0.00054	0.0009	0.001	1E-03	0.016	0.01589	1.40E-02	2.93E-02	5.62E-08	3.17E-05	3.67E-04	9.12E-05	1.14E-01	1.08E-01	4.94E-02
3404	478363.09	3848877.25	0.00197	0.01343	0.00053	0.00084	0.001	9E-04	0.0135	0.01343	1.37E-02	2.48E-02	5.52E-08	2.96E-05	3.45E-04	8.84E-05	9.57E-02	9.13E-02	4.34E-02
3405	478863.09	3848877.25	0.00196	0.01125	0.00052	0.00083	1E-03	9E-04	0.0114	0.01125	1.37E-02	2.08E-02	5.41E-08	2.92E-05	3.10E-04	8.46E-05	8.04E-02	7.65E-02	3.88E-02
3406	479363.09	3848877.25	0.00189	0.00924	0.00052	0.00082	9E-04	9E-04	0.0094	0.00924	1.32E-02	1.71E-02	5.41E-08	2.89E-05	2.82E-04	8.18E-05	6.63E-02	6.28E-02	3.41E-02
3407	479863.09	3848877.25	0.00179	0.00767	0.00051	0.00081	9E-04	9E-04	0.0078	0.00767	1.25E-02	1.42E-02	5.31E-08	2.85E-05	2.88E-04	7.99E-05	5.51E-02	5.22E-02	2.99E-02
3408	480363.09	3848877.25	0.00181	0.00718	0.00052	0.0008	0.001	9E-04	0.0073	0.00718	1.26E-02	1.33E-02	5.41E-08	2.82E-05	3.42E-04	7.99E-05	5.14E-02	4.88E-02	2.89E-02
3409	480863.09	3848877.25	0.0019	0.00676	0.00055	0.00081	0.001	9E-04	0.0068	0.00676	1.32E-02	1.25E-02	5.73E-08	2.85E-05	3.45E-04	8.27E-05	4.83E-02	4.60E-02	2.85E-02
3410	481363.09	3848877.25	0.00198	0.00619	0.00061	0.0008	9E-04	9E-04	0.0062	0.00619	1.38E-02	1.14E-02	6.35E-08	2.82E-05	2.85E-04	8.46E-05	4.42E-02	4.21E-02	2.78E-02
3411	481863.09	3848877.25	0.00197	0.00554	0.00061	0.0008	8E-04	9E-04	0.0056	0.00554	1.37E-02	1.02E-02	6.35E-08	2.82E-05	2.63E-04	8.37E-05	3.97E-02	3.77E-02	2.63E-02
3412	482363.09	3848877.25	0.0018	0.0049	0.00057	0.00079	8E-04	9E-04	0.005	0.0049	1.25E-02	9.05E-03	5.93E-08	2.78E-05	2.63E-04	8.08E-05	3.52E-02	3.33E-02	2.39E-02
3413	482863.09	3848877.25	0.00168	0.00442	0.00056	0.00077	9E-04	9E-04	0.0045	0.00442	1.17E-02	8.16E-03	5.83E-08	2.71E-05	2.73E-04	7.99E-05	3.17E-02	3.01E-02	2.19E-02
3414	483363.09	3848877.25	0.00161	0.00405	0.00053	0.00074	9E-04	8E-04	0.0041	0.00405	1.12E-02	7.48E-03	5.52E-08	2.60E-05	2.79E-04	7.90E-05	2.90E-02	2.75E-02	2.06E-02
3415	483863.09	3848877.25	0.00157	0.00388	0.00054	0.00074	9E-04	8E-04	0.0039	0.00388	1.09E-02	7.17E-03	5.62E-08	2.60E-05	2.76E-04	7.90E-05	2.78E-02	2.64E-02	2.00E-02
3416	484363.09	3848877.25	0.00168	0.00401	0.00058	0.00078	9E-04	9E-04	0.0041	0.00401	1.17E-02	7.41E-03	6.04E-08	2.75E-05	2.88E-04	8.18E-05	2.88E-02	2.73E-02	2.11E-02
3417	484863.09	3848877.25	0.00176	0.0041	0.00062	0.00082	0.001	9E-04	0.0042	0.0041	1.23E-02	7.57E-03	6.45E-08	2.89E-05	3.51E-04	8.37E-05	2.95E-02	2.79E-02	2.19E-02
3418	485363.09	3848877.25	0.00172	0.00393	0.00059	0.00082	0.001	9E-04	0.004	0.00393	1.20E-02	7.26E-03	6.14E-08	2.89E-05	3.67E-04	8.18E-05	2.83E-02	2.67E-02	2.13E-02

3419	485863.09	3848877.25	0.00167	0.00378	0.00057	0.00081	0.001	9E-04	0.0038	0.00378	1.16E-02	6.98E-03	5.93E-08	2.85E-05	3.45E-04	8.08E-05	2.71E-02	2.57E-02	2.05E-02
3420	486363.09	3848877.25	0.00159	0.00356	0.00058	0.0008	9E-04	8E-04	0.0036	0.00356	1.11E-02	6.58E-03	6.04E-08	2.82E-05	2.79E-04	7.80E-05	2.56E-02	2.42E-02	1.94E-02
3421	486863.09	3848877.25	0.00151	0.00334	0.00059	0.00077	8E-04	8E-04	0.0034	0.00334	1.05E-02	6.17E-03	6.14E-08	2.71E-05	2.51E-04	7.71E-05	2.39E-02	2.27E-02	1.83E-02
3422	487363.09	3848877.25	0.00151	0.00325	0.00057	0.00077	8E-04	8E-04	0.0033	0.00325	1.05E-02	6.00E-03	5.93E-08	2.71E-05	2.60E-04	7.80E-05	2.33E-02	2.21E-02	1.81E-02
3423	487863.09	3848877.25	0.00148	0.00311	0.00055	0.00077	9E-04	8E-04	0.0032	0.00311	1.03E-02	5.74E-03	5.73E-08	2.71E-05	2.73E-04	7.90E-05	2.23E-02	2.11E-02	1.76E-02
3424	488363.09	3848877.25	0.00149	0.00301	0.00056	0.00077	9E-04	9E-04	0.0031	0.00301	1.04E-02	5.56E-03	5.83E-08	2.71E-05	2.82E-04	8.08E-05	2.16E-02	2.05E-02	1.75E-02
3425	488863.09	3848877.25	0.00149	0.0029	0.0006	0.00079	9E-04	9E-04	0.0029	0.0029	1.04E-02	5.36E-03	6.25E-08	2.78E-05	2.69E-04	8.08E-05	2.08E-02	1.97E-02	1.72E-02
3426	489363.09	3848877.25	0.00151	0.00284	0.00062	0.0008	9E-04	9E-04	0.0029	0.00284	1.05E-02	5.25E-03	6.45E-08	2.82E-05	2.66E-04	8.18E-05	2.04E-02	1.93E-02	1.72E-02
3427	489863.09	3848877.25	0.00153	0.00278	0.00063	0.00081	9E-04	9E-04	0.0028	0.00278	1.07E-02	5.13E-03	6.56E-08	2.85E-05	2.79E-04	8.27E-05	2.00E-02	1.89E-02	1.73E-02
3428	490363.09	3848877.25	0.00152	0.00265	0.00062	0.00079	1E-03	9E-04	0.0027	0.00265	1.06E-02	4.89E-03	6.45E-08	2.78E-05	2.98E-04	8.27E-05	1.91E-02	1.80E-02	1.69E-02
3429	490863.09	3848877.25	0.0015	0.00252	0.00063	0.00079	1E-03	9E-04	0.0026	0.00252	1.05E-02	4.65E-03	6.56E-08	2.78E-05	2.98E-04	8.37E-05	1.81E-02	1.71E-02	1.65E-02
3430	491363.09	3848877.25	0.00149	0.00243	0.00066	0.0008	9E-04	9E-04	0.0025	0.00243	1.04E-02	4.49E-03	6.87E-08	2.82E-05	2.79E-04	8.46E-05	1.74E-02	1.65E-02	1.62E-02
3431	491863.09	3848877.25	0.00146	0.00228	0.00068	0.00079	9E-04	9E-04	0.0023	0.00228	1.02E-02	4.21E-03	7.08E-08	2.78E-05	2.69E-04	8.46E-05	1.64E-02	1.55E-02	1.56E-02
3432	492363.09	3848877.25	0.00142	0.00214	0.0007	0.00079	9E-04	9E-04	0.0022	0.00214	9.90E-03	3.95E-03	7.29E-08	2.78E-05	2.66E-04	8.46E-05	1.54E-02	1.46E-02	1.51E-02
3433	492863.09	3848877.25	0.00139	0.002	0.00071	0.00079	9E-04	9E-04	0.002	0.002	9.69E-03	3.69E-03	7.39E-08	2.78E-05	2.66E-04	8.37E-05	1.44E-02	1.36E-02	1.45E-02
3434	493363.09	3848877.25	0.00137	0.00186	0.00071	0.00079	9E-04	9E-04	0.0019	0.00186	9.55E-03	3.44E-03	7.39E-08	2.78E-05	2.66E-04	8.37E-05	1.34E-02	1.26E-02	1.41E-02
3435	493863.09	3848877.25	0.0014	0.00184	0.00073	0.00081	9E-04	9E-04	0.0019	0.00184	9.76E-03	3.40E-03	7.60E-08	2.85E-05	2.79E-04	8.65E-05	1.32E-02	1.25E-02	1.43E-02
3436	494363.09	3848877.25	0.00143	0.0018	0.00076	0.00083	9E-04	9E-04	0.0018	0.0018	9.97E-03	3.32E-03	7.91E-08	2.92E-05	2.95E-04	8.84E-05	1.30E-02	1.22E-02	1.44E-02
3437	494863.09	3848877.25	0.00147	0.0018	0.0008	0.00086	0.001	1E-03	0.0018	0.0018	1.02E-02	3.32E-03	8.33E-08	3.03E-05	3.13E-04	9.12E-05	1.30E-02	1.22E-02	1.47E-02
3438	495363.09	3848877.25	0.00151	0.00179	0.00083	0.00087	0.001	0.001	0.0018	0.00179	1.05E-02	3.31E-03	8.64E-08	3.06E-05	3.26E-04	9.40E-05	1.29E-02	1.22E-02	1.50E-02
3439	495863.09	3848877.25	0.0015	0.00169	0.00085	0.00087	0.001	0.001	0.0017	0.00169	1.05E-02	3.12E-03	8.85E-08	3.06E-05	3.29E-04	9.40E-05	1.22E-02	1.15E-02	1.47E-02
3440	496363.09	3848877.25	0.00154	0.00168	0.00088	0.0009	0.001	0.001	0.0017	0.00168	1.07E-02	3.10E-03	9.16E-08	3.17E-05	3.35E-04	9.68E-05	1.21E-02	1.14E-02	1.50E-02
3441	496863.09	3848877.25	0.00162	0.00174	0.00092	0.00094	0.001	0.001	0.0018	0.00174	1.13E-02	3.21E-03	9.58E-08	3.31E-05	3.48E-04	1.02E-04	1.26E-02	1.18E-02	1.58E-02
3442	497363.09	3848877.25	0.00178	0.0019	0.00097	0.00101	0.001	0.001	0.0019	0.0019	1.24E-02	3.51E-03	1.01E-07	3.55E-05	3.67E-04	1.09E-04	1.37E-02	1.29E-02	1.73E-02
3443	497863.09	3848877.25	0.00188	0.00194	0.00101	0.00106	0.001	0.001	0.002	0.00194	1.31E-02	3.58E-03	1.05E-07	3.73E-05	3.85E-04	1.14E-04	1.41E-02	1.32E-02	1.81E-02
3444	498363.09	3848877.25	0.00195	0.00197	0.00103	0.00112	0.001	0.001	0.002	0.00197	1.36E-02	3.64E-03	1.07E-07	3.94E-05	4.07E-04	1.17E-04	1.43E-02	1.34E-02	1.87E-02
3445	471363.09	3849377.25	0.00131	0.00279	0.0006	0.00084	1E-03	9E-04	0.0028	0.00279	9.13E-03	5.15E-03	6.25E-08	2.96E-05	3.07E-04	8.65E-05	2.01E-02	1.90E-02	1.58E-02
3446	471863.09	3849377.25	0.00136	0.0031	0.00063	0.00086	1E-03	1E-03	0.0031	0.0031	9.48E-03	5.73E-03	6.56E-08	3.03E-05	3.04E-04	8.93E-05	2.22E-02	2.11E-02	1.67E-02
3447	472363.09	3849377.25	0.00141	0.00344	0.00065	0.00088	0.001	1E-03	0.0035	0.00344	9.83E-03	6.35E-03	6.77E-08	3.10E-05	3.13E-04	9.02E-05	2.46E-02	2.34E-02	1.78E-02
3448	472863.09	3849377.25	0.00147	0.00388	0.00067	0.00088	0.001	1E-03	0.0039	0.00388	1.02E-02	7.17E-03	6.98E-08	3.10E-05	3.29E-04	9.21E-05	2.77E-02	2.64E-02	1.92E-02
3449	473363.09	3849377.25	0.00155	0.00453	0.00069	0.00089	0.001	1E-03	0.0046	0.00453	1.08E-02	8.37E-03	7.18E-08	3.13E-05	3.48E-04	9.31E-05	3.24E-02	3.08E-02	2.12E-02
3450	473863.09	3849377.25	0.00165	0.0055	0.00071	0.00091	0.001	0.001	0.0055	0.0055	1.15E-02	1.02E-02	7.39E-08	3.20E-05	3.63E-04	9.40E-05	3.93E-02	3.74E-02	2.40E-02
3451	474363.09	3849377.25	0.0018	0.00698	0.00071	0.00095	0.001	0.001	0.007	0.00698	1.25E-02	1.29E-02	7.39E-08	3.34E-05	3.70E-04	9.49E-05	4.99E-02	4.75E-02	2.84E-02
3452	474863.09	3849377.25	0.00203	0.00964	0.00068	0.00098	0.001	0.001	0.0098	0.00964	1.42E-02	1.78E-02	7.08E-08	3.45E-05	3.79E-04	9.68E-05	6.91E-02	6.56E-02	3.60E-02
3453	475363.09	3849377.25	0.00255	0.01572	0.00062	0.00098	0.001	0.001	0.0159	0.01572	1.78E-02	2.90E-02	6.45E-08	3.45E-05	3.79E-04	9.78E-05	1.13E-01	1.07E-01	5.29E-02
3454	475863.09	3849377.25	0.00429	0.02719	0.00061	0.00097	0.001	0.001	0.0274	0.02719	2.99E-02	5.02E-02	6.35E-08	3.41E-05	3.76E-04	9.87E-05	1.94E-01	1.85E-01	9.00E-02
3455	476363.09	3849377.25	0.00854	0.05945	0.00066	0.00095	0.001	0.001	0.0598	0.05945	5.95E-02	1.10E-01	6.87E-08	3.34E-05	3.60E-04	9.87E-05	4.23E-01	4.04E-01	1.89E-01
3456	476863.09	3849377.25	0.01296	0.16452	0.0007	0.00092	0.001	0.001	0.1664	0.16452	9.04E-02	3.04E-01	7.29E-08	3.24E-05	3.45E-04	9.40E-05	1.18E+00	1.12E+00	4.55E-01
3457	477363.09	3849377.25	0.00511	0.04728	0.00065	0.00094	0.001	1E-03	0.0477	0.04728	3.56E-02	8.73E-02	6.77E-08	3.31E-05	3.45E-04	9.21E-05	3.38E-01	3.21E-01	1.40E-01
3458	477863.09	3849377.25	0.00368	0.02837	0.00061	0.00101	0.001	0.001	0.0286	0.02837	2.57E-02	5.24E-02	6.35E-08	3.55E-05	3.67E-04	9.49E-05	2.03E-01	1.93E-01	8.86E-02
3459	478363.09	3849377.25	0.00326	0.02089	0.00059	0.00099	0.001	0.001	0.0211	0.02089	2.27E-02	3.86E-02	6.14E-08	3.48E-05	3.89E-04	9.96E-05	1.49E-01	1.42E-01	6.89E-02
3460	478863.09	3849377.25	0.00314	0.01579	0.00057	0.0009	0.001	1E-03	0.0159	0.01579	2.19E-02	2.92E-02	5.93E-08	3.17E-05	3.73E-04	9.31E-05	1.12E-01	1.07E-01	5.66E-02
3461	479363.09	3849377.25	0.00302	0.0129	0.00057	0.0009	0.001	1E-03	0.013	0.0129	2.11E-02	2.38E-02	5.93E-08	3.17E-05	3.32E-04	9.02E-05	9.23E-02	8.77E-02	4.99E-02
3462	479863.09	3849377.25	0.00272	0.01015	0.00056	0.00088	1E-03	9E-04	0.0103	0.01015	1.90E-02	1.87E-02	5.83E-08	3.10E-05	3.04E-04	8.84E-05	7.28E-02	6.90E-02	4.19E-02
3463	480363.09	3849377.25	0.00274	0.00961	0.00058	0.00092	0.001	1E-03	0.0097	0.00961	1.91E-02	1.77E-02	6.04E-08	3.24E-05	3.26E-04	9.12E-05	6.89E-02	6.53E-02	4.08E-02
3464	480863.09	3849377.25	0.00258	0.00845	0.00059	0.00092	0.001	1E-03	0.0085	0.00845	1.80E-02	1.56E-02	6.14E-08	3.24E-05	3.95E-04	9.12E-05	6.05E-02	5.75E-02	3.72E-02
3465	481363.09	3849377.25	0.00246	0.00723	0.00064	0.00087	0.001	1E-03	0.0073	0.00723	1.72E-02	1.34E-02	6.66E-08	3.06E-05	3.57E-04	9.02E-05	5.16E-02	4.92E-02	3.34E-02
3466	481863.09	3849377.25	0.00224	0.00593	0.00063	0.00083	9E-04	9E-04	0.006	0.00593	1.56E-02	1.10E-02	6.56E-08	2.92E-05	2.91E-04	8.65E-05	4.24E-02	4.03E-02	2.90E-02
3467	482363.09	3849377.25	0.00207	0.00529	0.0006	0.00083	9E-04	9E-04	0.0054	0.00529	1.44E-02	9.77E-03	6.25E-08	2.92E-05	2.79E-04	8.55E-05	3.79E-02	3.60E-02	2.65E-02
3468	482863.09	3849377.25	0.00188	0.00466	0.0006	0.0008	9E-04	9E-04	0.0047	0.00466	1.31E-02	8.61E-03	6.25E-08	2.82E-05	2.79E-04	8.37E-05	3.34E-02	3.17E-02	2.38E-02
3469	483363.09	3849377.25	0.00176	0.00428	0.00057	0.00079	9E-04	9E-04	0.0043	0.00428	1.23E-02	7.90E-03	5.93E-08	2.78E-05	2.88E-04	8.27E-05	3.08E-02	2.91E-02	2.22E-02
3470	483863.09	3849377.25	0.00163	0.00384	0.00056	0.00077	9E-04	9E-04	0.0039	0.00384	1.14E-02	7.09E-03	5.83E-08	2.71E-05	2.91E-04	8.18E-05	2.76E-02	2.61E-02	2.03E-02
3471	484363.09	3849377.25	0.00191	0.00437	0.00062	0.00084	1E-03	9E-04	0.0044	0.00437	1.33E-02	8.07E-03	6.45E-08	2.96E-05	3.10E-04	8.84E-05	3.14E-02	2.97E-02	2.35E-02
3472	484863.09	3849377.25	0.00205	0.00453	0.00066	0.00089	0.001	1E-03	0.0046	0.00453	1.43E-02	8.37E-03	6.87E-08	3.13E-05	3.85E-04	9.12E-05	3.26E-02	3.08E-02	2.50E-02
3473	485363.09	3849377.25	0.00201	0.00434	0.00064	0.0009	0.001	1E-03	0.0044	0.00434	1.40E-02	8.02E-03	6.66E-08	3.17E-05	4.23E-04	8.93E-05	3.12E-02	2.95E-02	2.43E-02
3474	485863.09	3849377.25	0.00177	0.00385	0.0006	0.00085	0.001	9E-04	0.0039	0.00385	1.23E-02	7.11E-03	6.25E-08	2.99E-05	3.54E-04	8.37E-05	2.76E-02	2.62E-02	2.14E-02
3475	486363.09	3849377.25	0.0016	0.00344	0.00061	0.00081	9E-04	9E-04	0.0035	0.00344	1.12E-02	6.35E-03	6.35E-08	2.85E-05	2.85E-04	7.99E-05	2.47E-02	2.34E-02	1.92E-02
3476	486863.09	3849377.25	0.0017	0.00358	0.00063	0.00084	9E-04	9E-04	0.0036	0.00358	1.19E-02	6.61E-03	6.56E-08	2.96E-05	2.73E-04	8.46E-05	2.57E-02	2.43E-02	2.02E-02

3477	487363.09	3849377.25	0.00171	0.00351	0.00064	0.00085	9E-04	9E-04	0.0036	0.00351	1.19E-02	6.48E-03	6.66E-08	2.99E-05	2.79E-04	8.74E-05	2.52E-02	2.39E-02	2.02E-02
3478	487863.09	3849377.25	0.0017	0.00336	0.00063	0.00085	9E-04	9E-04	0.0034	0.00336	1.19E-02	6.21E-03	6.56E-08	2.99E-05	2.95E-04	8.74E-05	2.42E-02	2.28E-02	1.98E-02
3479	488363.09	3849377.25	0.0017	0.00323	0.00066	0.00086	1E-03	9E-04	0.0033	0.00323	1.19E-02	5.97E-03	6.87E-08	3.03E-05	3.01E-04	8.84E-05	2.32E-02	2.20E-02	1.95E-02
3480	488863.09	3849377.25	0.0017	0.00313	0.00068	0.00088	9E-04	1E-03	0.0032	0.00313	1.19E-02	5.78E-03	7.08E-08	3.10E-05	2.88E-04	8.93E-05	2.25E-02	2.13E-02	1.93E-02
3481	489363.09	3849377.25	0.00171	0.00304	0.00068	0.00089	9E-04	1E-03	0.0031	0.00304	1.19E-02	5.61E-03	7.08E-08	3.13E-05	2.91E-04	9.12E-05	2.19E-02	2.07E-02	1.92E-02
3482	489863.09	3849377.25	0.0017	0.00292	0.00069	0.00089	1E-03	1E-03	0.003	0.00292	1.19E-02	5.39E-03	7.18E-08	3.13E-05	3.07E-04	9.21E-05	2.10E-02	1.99E-02	1.89E-02
3483	490363.09	3849377.25	0.00168	0.00276	0.0007	0.00087	0.001	1E-03	0.0028	0.00276	1.17E-02	5.10E-03	7.29E-08	3.06E-05	3.23E-04	9.21E-05	1.99E-02	1.88E-02	1.84E-02
3484	490863.09	3849377.25	0.00167	0.00264	0.00073	0.00087	0.001	1E-03	0.0027	0.00264	1.16E-02	4.88E-03	7.60E-08	3.06E-05	3.13E-04	9.21E-05	1.90E-02	1.80E-02	1.80E-02
3485	491363.09	3849377.25	0.00166	0.00252	0.00075	0.00088	1E-03	0.001	0.0026	0.00252	1.16E-02	4.65E-03	7.81E-08	3.10E-05	2.98E-04	9.40E-05	1.82E-02	1.71E-02	1.77E-02
3486	491863.09	3849377.25	0.00162	0.00237	0.00078	0.00088	9E-04	0.001	0.0024	0.00237	1.13E-02	4.38E-03	8.12E-08	3.10E-05	2.95E-04	9.40E-05	1.70E-02	1.61E-02	1.70E-02
3487	492363.09	3849377.25	0.00157	0.00222	0.0008	0.00089	9E-04	0.001	0.0023	0.00222	1.09E-02	4.10E-03	8.33E-08	3.13E-05	2.88E-04	9.40E-05	1.60E-02	1.51E-02	1.64E-02
3488	492863.09	3849377.25	0.00153	0.00203	0.0008	0.00088	9E-04	1E-03	0.0021	0.00203	1.07E-02	3.75E-03	8.33E-08	3.10E-05	2.85E-04	9.31E-05	1.47E-02	1.38E-02	1.57E-02
3489	493363.09	3849377.25	0.00153	0.00194	0.00081	0.00089	9E-04	0.001	0.002	0.00194	1.07E-02	3.58E-03	8.43E-08	3.13E-05	2.95E-04	9.49E-05	1.40E-02	1.32E-02	1.54E-02
3490	493863.09	3849377.25	0.00155	0.00188	0.00084	0.0009	1E-03	0.001	0.0019	0.00188	1.08E-02	3.47E-03	8.74E-08	3.17E-05	3.10E-04	9.68E-05	1.35E-02	1.28E-02	1.55E-02
3491	494363.09	3849377.25	0.00159	0.00187	0.00088	0.00093	0.001	0.001	0.0019	0.00187	1.11E-02	3.45E-03	9.16E-08	3.27E-05	3.32E-04	9.96E-05	1.35E-02	1.27E-02	1.58E-02
3492	494863.09	3849377.25	0.0017	0.00195	0.00094	0.00098	0.001	0.001	0.002	0.00195	1.19E-02	3.60E-03	9.79E-08	3.45E-05	3.57E-04	1.05E-04	1.41E-02	1.33E-02	1.68E-02
3493	495363.09	3849377.25	0.00175	0.00195	0.00098	0.001	0.001	0.001	0.002	0.00195	1.22E-02	3.60E-03	1.02E-07	3.52E-05	3.76E-04	1.08E-04	1.42E-02	1.33E-02	1.72E-02
3494	495863.09	3849377.25	0.00165	0.00172	0.00096	0.00097	0.001	0.001	0.0018	0.00172	1.15E-02	3.18E-03	9.99E-08	3.41E-05	3.57E-04	1.03E-04	1.25E-02	1.17E-02	1.59E-02
3495	496363.09	3849377.25	0.00167	0.00167	0.00097	0.00098	0.001	0.001	0.0017	0.00167	1.16E-02	3.08E-03	1.01E-07	3.45E-05	3.60E-04	1.05E-04	1.20E-02	1.14E-02	1.59E-02
3496	496863.09	3849377.25	0.00186	0.00187	0.00104	0.00107	0.001	0.001	0.0019	0.00187	1.30E-02	3.45E-03	1.08E-07	3.77E-05	3.89E-04	1.15E-04	1.36E-02	1.27E-02	1.79E-02
3497	497363.09	3849377.25	0.00193	0.00191	0.00107	0.00112	0.001	0.001	0.002	0.00191	1.35E-02	3.53E-03	1.11E-07	3.94E-05	4.07E-04	1.19E-04	1.39E-02	1.30E-02	1.84E-02
3498	497863.09	3849377.25	0.00219	0.00209	0.00114	0.00124	0.001	0.001	0.0022	0.00209	1.53E-02	3.86E-03	1.19E-07	4.36E-05	4.45E-04	1.30E-04	1.53E-02	1.42E-02	2.08E-02
3499	498363.09	3849377.25	0.00217	0.00203	0.00115	0.00126	0.001	0.001	0.0021	0.00203	1.51E-02	3.75E-03	1.20E-07	4.43E-05	4.61E-04	1.30E-04	1.48E-02	1.38E-02	2.05E-02
3500	471363.09	3849877.25	0.00134	0.00236	0.00059	0.00085	0.001	9E-04	0.0024	0.00236	9.34E-03	4.36E-03	6.14E-08	2.99E-05	3.54E-04	8.74E-05	1.69E-02	1.60E-02	1.51E-02
3501	471863.09	3849877.25	0.00141	0.00276	0.00063	0.00088	0.001	1E-03	0.0028	0.00276	9.83E-03	5.10E-03	6.56E-08	3.10E-05	3.45E-04	9.12E-05	1.98E-02	1.88E-02	1.65E-02
3502	472363.09	3849877.25	0.00146	0.00307	0.00066	0.00091	0.001	0.001	0.0031	0.00307	1.02E-02	5.67E-03	6.87E-08	3.20E-05	3.32E-04	9.49E-05	2.20E-02	2.09E-02	1.75E-02
3503	472863.09	3849877.25	0.0015	0.00337	0.00069	0.00094	0.001	0.001	0.0034	0.00337	1.05E-02	6.22E-03	7.18E-08	3.31E-05	3.32E-04	9.68E-05	2.41E-02	2.29E-02	1.83E-02
3504	473363.09	3849877.25	0.00156	0.00376	0.00071	0.00095	0.001	0.001	0.0038	0.00376	1.09E-02	6.94E-03	7.39E-08	3.34E-05	3.38E-04	9.78E-05	2.69E-02	2.56E-02	1.96E-02
3505	473863.09	3849877.25	0.00161	0.00428	0.00074	0.00096	0.001	0.001	0.0043	0.00428	1.12E-02	7.90E-03	7.70E-08	3.38E-05	3.57E-04	1.01E-04	3.06E-02	2.91E-02	2.11E-02
3506	474363.09	3849877.25	0.00167	0.00497	0.00077	0.00097	0.001	0.001	0.005	0.00497	1.16E-02	9.18E-03	8.02E-08	3.41E-05	3.76E-04	1.01E-04	3.54E-02	3.38E-02	2.30E-02
3507	474863.09	3849877.25	0.00173	0.00583	0.00078	0.001	0.001	0.001	0.0059	0.00583	1.21E-02	1.08E-02	8.12E-08	3.52E-05	3.92E-04	1.02E-04	4.16E-02	3.96E-02	2.53E-02
3508	475363.09	3849877.25	0.00183	0.00698	0.00076	0.00104	0.001	0.001	0.0071	0.00698	1.28E-02	1.29E-02	7.91E-08	3.66E-05	4.01E-04	1.03E-04	5.00E-02	4.75E-02	2.87E-02
3509	475863.09	3849877.25	0.00212	0.00851	0.00071	0.00106	0.001	0.001	0.0086	0.00851	1.48E-02	1.57E-02	7.39E-08	3.73E-05	4.07E-04	1.05E-04	6.11E-02	5.79E-02	3.43E-02
3510	476363.09	3849877.25	0.00251	0.01087	0.00067	0.00106	0.001	0.001	0.011	0.01087	1.75E-02	2.01E-02	6.98E-08	3.73E-05	4.07E-04	1.07E-04	7.80E-02	7.39E-02	4.22E-02
3511	476863.09	3849877.25	0.00321	0.01614	0.00071	0.00104	0.001	0.001	0.0163	0.01614	2.24E-02	2.98E-02	7.39E-08	3.66E-05	3.95E-04	1.08E-04	1.15E-01	1.10E-01	5.85E-02
3512	477363.09	3849877.25	0.00618	0.03813	0.00077	0.00103	0.001	0.001	0.0386	0.03813	4.31E-02	7.04E-02	8.02E-08	3.63E-05	3.82E-04	1.04E-04	2.73E-01	2.59E-01	1.28E-01
3513	477863.09	3849877.25	0.02734	0.18374	0.00073	0.00104	0.001	0.001	0.1825	0.18374	1.91E-01	3.39E-01	7.60E-08	3.66E-05	3.73E-04	1.01E-04	1.29E+00	1.25E+00	5.74E-01
3514	478363.09	3849877.25	0.00962	0.05012	0.00067	0.0011	0.001	0.001	0.0503	0.05012	6.71E-02	9.26E-02	6.98E-08	3.87E-05	3.89E-04	1.04E-04	3.56E-01	3.41E-01	1.76E-01
3515	478863.09	3849877.25	0.00645	0.0301	0.00065	0.0011	0.001	0.001	0.0302	0.0301	4.50E-02	5.56E-02	6.77E-08	3.87E-05	4.14E-04	1.12E-04	2.14E-01	2.05E-01	1.11E-01
3516	479363.09	3849877.25	0.00535	0.02067	0.00063	0.00101	0.001	0.001	0.0208	0.02067	3.73E-02	3.82E-02	6.56E-08	3.55E-05	4.07E-04	1.02E-04	1.47E-01	1.41E-01	8.25E-02
3517	479863.09	3849877.25	0.00464	0.01644	0.00064	0.00101	0.001	0.001	0.0166	0.01644	3.23E-02	3.04E-02	6.66E-08	3.55E-05	3.63E-04	1.02E-04	1.17E-01	1.12E-01	6.88E-02
3518	480363.09	3849877.25	0.00412	0.01256	0.00065	0.00098	0.001	0.001	0.0127	0.01256	2.87E-02	2.32E-02	6.77E-08	3.45E-05	3.29E-04	9.96E-05	8.98E-02	8.54E-02	5.68E-02
3519	480863.09	3849877.25	0.00365	0.0102	0.00063	0.00099	0.001	0.001	0.0103	0.0102	2.54E-02	1.88E-02	6.56E-08	3.48E-05	3.51E-04	9.78E-05	7.31E-02	6.94E-02	4.85E-02
3520	481363.09	3849877.25	0.0033	0.00873	0.00067	0.00098	0.001	0.001	0.0088	0.00873	2.30E-02	1.61E-02	6.98E-08	3.45E-05	4.17E-04	9.87E-05	6.24E-02	5.94E-02	4.27E-02
3521	481863.09	3849877.25	0.00273	0.00676	0.00069	0.00089	0.001	1E-03	0.0068	0.00676	1.90E-02	1.25E-02	7.18E-08	3.13E-05	3.42E-04	9.31E-05	4.83E-02	4.60E-02	3.43E-02
3522	482363.09	3849877.25	0.00241	0.00579	0.00064	0.00088	1E-03	1E-03	0.0059	0.00579	1.68E-02	1.07E-02	6.66E-08	3.10E-05	3.04E-04	9.12E-05	4.14E-02	3.94E-02	3.00E-02
3523	482863.09	3849877.25	0.00218	0.00513	0.00065	0.00086	1E-03	1E-03	0.0052	0.00513	1.52E-02	9.47E-03	6.77E-08	3.03E-05	2.98E-04	8.93E-05	3.68E-02	3.49E-02	2.70E-02
3524	483363.09	3849877.25	0.00197	0.00455	0.00062	0.00084	1E-03	9E-04	0.0046	0.00455	1.37E-02	8.40E-03	6.45E-08	2.96E-05	2.98E-04	8.84E-05	3.27E-02	3.09E-02	2.43E-02
3525	483863.09	3849877.25	0.00192	0.00433	0.00061	0.00085	1E-03	1E-03	0.0044	0.00433	1.34E-02	8.00E-03	6.35E-08	2.99E-05	3.10E-04	8.93E-05	3.11E-02	2.94E-02	2.35E-02
3526	484363.09	3849877.25	0.00217	0.00474	0.00068	0.00091	0.001	0.001	0.0048	0.00474	1.51E-02	8.75E-03	7.08E-08	3.20E-05	3.29E-04	9.59E-05	3.42E-02	3.22E-02	2.63E-02
3527	484863.09	3849877.25	0.00241	0.00505	0.00072	0.00099	0.001	0.001	0.0051	0.00505	1.68E-02	9.33E-03	7.50E-08	3.48E-05	3.89E-04	1.01E-04	3.64E-02	3.43E-02	2.87E-02
3528	485363.09	3849877.25	0.00229	0.0047	0.00069	0.00097	0.001	0.001	0.0048	0.0047	1.60E-02	8.68E-03	7.18E-08	3.41E-05	4.48E-04	9.78E-05	3.39E-02	3.20E-02	2.71E-02
3529	485863.09	3849877.25	0.00208	0.00426	0.00067	0.00094	0.001	1E-03	0.0043	0.00426	1.45E-02	7.87E-03	6.98E-08	3.31E-05	4.10E-04	9.31E-05	3.07E-02	2.90E-02	2.46E-02
3530	486363.09	3849877.25	0.00195	0.00399	0.00069	0.00093	0.001	1E-03	0.0041	0.00399	1.36E-02	7.37E-03	7.18E-08	3.27E-05	3.51E-04	9.21E-05	2.87E-02	2.71E-02	2.30E-02
3531	486863.09	3849877.25	0.002	0.00398	0.00071	0.00095	1E-03	0.001	0.004	0.00398	1.39E-02	7.35E-03	7.39E-08	3.34E-05	3.07E-04	9.59E-05	2.86E-02	2.71E-02	2.33E-02
3532	487363.09	3849877.25	0.00197	0.00382	0.00072	0.00095	1E-03	0.001	0.0039	0.00382	1.37E-02	7.06E-03	7.50E-08	3.34E-05	3.04E-04	9.78E-05	2.75E-02	2.60E-02	2.27E-02
3533	487863.09	3849877.25	0.00194	0.00365	0.00076	0.00095	0.001	0.001	0.0037	0.00365	1.35E-02	6.74E-03	7.91E-08	3.34E-05	3.20E-04	9.78E-05	2.62E-02	2.48E-02	2.21E-02
3534	488363.09	3849877.25	0.00193	0.00349	0.00076	0.00097	0.001	0.001	0.0036	0.00349	1.35E-02	6.45E-03	7.91E-08	3.41E-05	3.23E-04	9.87E-05	2.52E-02	2.37E-02	2.18E-02

3535	488863.09	3849877.25	0.00193	0.00337	0.00074	0.00099	1E-03	0.001	0.0034	0.00337	1.35E-02	6.22E-03	7.70E-08	3.48E-05	3.10E-04	1.01E-04	2.43E-02	2.29E-02	2.15E-02
3536	489363.09	3849877.25	0.00193	0.00323	0.00076	0.001	0.001	0.001	0.0033	0.00323	1.35E-02	5.97E-03	7.91E-08	3.52E-05	3.20E-04	1.02E-04	2.33E-02	2.20E-02	2.12E-02
3537	489863.09	3849877.25	0.00191	0.00306	0.00079	0.001	0.001	0.001	0.0031	0.00306	1.33E-02	5.65E-03	8.22E-08	3.52E-05	3.51E-04	1.03E-04	2.21E-02	2.08E-02	2.08E-02
3538	490363.09	3849877.25	0.00188	0.0029	0.00083	0.00098	0.001	0.001	0.003	0.0029	1.31E-02	5.36E-03	8.64E-08	3.45E-05	3.48E-04	1.03E-04	2.09E-02	1.97E-02	2.01E-02
3539	490863.09	3849877.25	0.00188	0.00277	0.00085	0.00098	0.001	0.001	0.0028	0.00277	1.31E-02	5.12E-03	8.85E-08	3.45E-05	3.32E-04	1.05E-04	2.00E-02	1.88E-02	1.98E-02
3540	491363.09	3849877.25	0.00187	0.00264	0.00087	0.00099	0.001	0.001	0.0027	0.00264	1.30E-02	4.88E-03	9.06E-08	3.48E-05	3.20E-04	1.06E-04	1.91E-02	1.80E-02	1.96E-02
3541	491863.09	3849877.25	0.00182	0.00248	0.00089	0.001	0.001	0.001	0.0025	0.00248	1.27E-02	4.58E-03	9.27E-08	3.52E-05	3.16E-04	1.07E-04	1.79E-02	1.69E-02	1.87E-02
3542	492363.09	3849877.25	0.00179	0.00233	0.00091	0.00101	1E-03	0.001	0.0024	0.00233	1.25E-02	4.30E-03	9.47E-08	3.55E-05	3.10E-04	1.08E-04	1.69E-02	1.58E-02	1.83E-02
3543	492863.09	3849877.25	0.00175	0.00217	0.00093	0.00101	0.001	0.001	0.0022	0.00217	1.22E-02	4.01E-03	9.68E-08	3.55E-05	3.13E-04	1.07E-04	1.57E-02	1.48E-02	1.76E-02
3544	493363.09	3849877.25	0.00173	0.00202	0.00096	0.001	0.001	0.001	0.0021	0.00202	1.21E-02	3.73E-03	9.99E-08	3.52E-05	3.32E-04	1.07E-04	1.46E-02	1.37E-02	1.71E-02
3545	493863.09	3849877.25	0.00172	0.00192	0.00098	0.00102	0.001	0.001	0.002	0.00192	1.20E-02	3.55E-03	1.02E-07	3.59E-05	3.54E-04	1.08E-04	1.40E-02	1.31E-02	1.69E-02
3546	494363.09	3849877.25	0.00186	0.00206	0.00105	0.00108	0.001	0.001	0.0021	0.00206	1.30E-02	3.80E-03	1.09E-07	3.80E-05	3.82E-04	1.17E-04	1.50E-02	1.40E-02	1.83E-02
3547	494863.09	3849877.25	0.00198	0.00212	0.0011	0.00113	0.001	0.001	0.0022	0.00212	1.38E-02	3.92E-03	1.15E-07	3.98E-05	4.14E-04	1.23E-04	1.54E-02	1.44E-02	1.93E-02
3548	495363.09	3849877.25	0.00192	0.00195	0.0011	0.00111	0.001	0.001	0.002	0.00195	1.34E-02	3.60E-03	1.15E-07	3.91E-05	4.07E-04	1.19E-04	1.42E-02	1.33E-02	1.85E-02
3549	495863.09	3849877.25	0.00204	0.00203	0.00115	0.00117	0.001	0.001	0.0021	0.00203	1.42E-02	3.75E-03	1.20E-07	4.12E-05	4.20E-04	1.26E-04	1.48E-02	1.38E-02	1.96E-02
3550	496363.09	3849877.25	0.0021	0.00203	0.00117	0.0012	0.001	0.001	0.0021	0.00203	1.46E-02	3.75E-03	1.22E-07	4.22E-05	4.26E-04	1.29E-04	1.48E-02	1.38E-02	2.00E-02
3551	496863.09	3849877.25	0.00216	0.00202	0.00119	0.00123	0.001	0.001	0.0021	0.00202	1.51E-02	3.73E-03	1.24E-07	4.33E-05	4.48E-04	1.33E-04	1.47E-02	1.37E-02	2.04E-02
3552	497363.09	3849877.25	0.00235	0.00213	0.00124	0.00133	0.002	0.001	0.0022	0.00213	1.64E-02	3.93E-03	1.29E-07	4.68E-05	4.79E-04	1.40E-04	1.56E-02	1.45E-02	2.21E-02
3553	497863.09	3849877.25	0.00243	0.00215	0.00127	0.0014	0.002	0.002	0.0022	0.00215	1.69E-02	3.97E-03	1.32E-07	4.93E-05	5.04E-04	1.45E-04	1.57E-02	1.46E-02	2.27E-02
3554	498363.09	3849877.25	0.0024	0.00208	0.00129	0.00142	0.002	0.002	0.0022	0.00208	1.67E-02	3.84E-03	1.34E-07	5.00E-05	5.20E-04	1.45E-04	1.52E-02	1.41E-02	2.24E-02
3555	471363.09	3850377.25	0.00133	0.00173	0.00058	0.00085	0.001	9E-04	0.0018	0.00173	9.27E-03	3.20E-03	6.04E-08	2.99E-05	3.73E-04	8.74E-05	1.25E-02	1.18E-02	1.37E-02
3556	471863.09	3850377.25	0.00142	0.00222	0.00063	0.0009	0.001	1E-03	0.0023	0.00222	9.90E-03	4.10E-03	6.56E-08	3.17E-05	3.92E-04	9.21E-05	1.59E-02	1.51E-02	1.54E-02
3557	472363.09	3850377.25	0.00147	0.00252	0.00066	0.00092	0.001	0.001	0.0026	0.00252	1.02E-02	4.65E-03	6.87E-08	3.24E-05	3.89E-04	9.49E-05	1.81E-02	1.71E-02	1.64E-02
3558	472863.09	3850377.25	0.00154	0.00293	0.00071	0.00096	0.001	0.001	0.003	0.00293	1.07E-02	5.41E-03	7.39E-08	3.38E-05	3.76E-04	1.01E-04	2.10E-02	1.99E-02	1.78E-02
3559	473363.09	3850377.25	0.00159	0.0032	0.00073	0.00099	0.001	0.001	0.0032	0.0032	1.11E-02	5.91E-03	7.60E-08	3.48E-05	3.60E-04	1.02E-04	2.30E-02	2.18E-02	1.87E-02
3560	473863.09	3850377.25	0.00162	0.00354	0.00075	0.00102	0.001	0.001	0.0036	0.00354	1.13E-02	6.54E-03	7.81E-08	3.59E-05	3.57E-04	1.05E-04	2.54E-02	2.41E-02	1.96E-02
3561	474363.09	3850377.25	0.00168	0.00392	0.00079	0.00105	0.001	0.001	0.004	0.00392	1.17E-02	7.24E-03	8.22E-08	3.70E-05	3.67E-04	1.08E-04	2.81E-02	2.67E-02	2.09E-02
3562	474863.09	3850377.25	0.00172	0.00436	0.00082	0.00106	0.001	0.001	0.0044	0.00436	1.20E-02	8.05E-03	8.54E-08	3.73E-05	3.89E-04	1.10E-04	3.12E-02	2.96E-02	2.21E-02
3563	475363.09	3850377.25	0.00179	0.00488	0.00086	0.00107	0.001	0.001	0.0049	0.00488	1.25E-02	9.01E-03	8.95E-08	3.77E-05	4.10E-04	1.10E-04	3.49E-02	3.32E-02	2.37E-02
3564	475863.09	3850377.25	0.00194	0.00561	0.00086	0.0011	0.001	0.001	0.0057	0.00561	1.35E-02	1.04E-02	8.95E-08	3.87E-05	4.26E-04	1.11E-04	4.02E-02	3.81E-02	2.65E-02
3565	476363.09	3850377.25	0.00214	0.00651	0.00081	0.00114	0.001	0.001	0.0066	0.00651	1.49E-02	1.20E-02	8.43E-08	4.01E-05	4.39E-04	1.14E-04	4.68E-02	4.43E-02	3.01E-02
3566	476863.09	3850377.25	0.0024	0.00785	0.00075	0.00116	0.001	0.001	0.008	0.00785	1.67E-02	1.45E-02	7.81E-08	4.08E-05	4.42E-04	1.17E-04	5.65E-02	5.34E-02	3.50E-02
3567	477363.09	3850377.25	0.00276	0.01014	0.00077	0.00115	0.001	0.001	0.0103	0.01014	1.92E-02	1.87E-02	8.02E-08	4.05E-05	4.32E-04	1.18E-04	7.28E-02	6.90E-02	4.24E-02
3568	477863.09	3850377.25	0.00357	0.0152	0.00084	0.00113	0.001	0.001	0.0154	0.0152	2.49E-02	2.81E-02	8.74E-08	3.98E-05	4.20E-04	1.15E-04	1.09E-01	1.03E-01	5.91E-02
3569	478363.09	3850377.25	0.00685	0.03571	0.00081	0.00112	0.001	0.001	0.0365	0.03571	4.78E-02	6.60E-02	8.43E-08	3.94E-05	4.04E-04	1.10E-04	2.58E-01	2.43E-01	1.30E-01
3570	478863.09	3850377.25	0.04112	0.20987	0.00074	0.0012	0.001	0.001	0.2043	0.20987	2.87E-01	3.88E-01	7.70E-08	4.22E-05	4.17E-04	1.17E-04	1.45E+00	1.43E+00	6.96E-01
3571	479363.09	3850377.25	0.01714	0.05282	0.00072	0.00122	0.001	0.001	0.0526	0.05282	1.19E-01	9.76E-02	7.50E-08	4.29E-05	4.42E-04	1.25E-04	3.73E-01	3.59E-01	2.31E-01
3572	479863.09	3850377.25	0.01073	0.02921	0.0007	0.00114	0.001	0.001	0.0292	0.02921	7.48E-02	5.39E-02	7.29E-08	4.01E-05	4.42E-04	1.16E-04	2.07E-01	1.99E-01	1.38E-01
3573	480363.09	3850377.25	0.00794	0.02013	0.00074	0.00112	0.001	0.001	0.0202	0.02013	5.54E-02	3.72E-02	7.70E-08	3.94E-05	3.98E-04	1.13E-04	1.43E-01	1.37E-01	9.95E-02
3574	480863.09	3850377.25	0.00621	0.01598	0.00076	0.00112	0.001	0.001	0.0161	0.01598	4.33E-02	2.95E-02	7.91E-08	3.94E-05	3.63E-04	1.15E-04	1.14E-01	1.09E-01	7.87E-02
3575	481363.09	3850377.25	0.00471	0.01105	0.00071	0.0011	0.001	0.001	0.0112	0.01105	3.28E-02	2.04E-02	7.39E-08	3.87E-05	3.85E-04	1.08E-04	7.91E-02	7.51E-02	5.78E-02
3576	481863.09	3850377.25	0.00417	0.00948	0.00079	0.00107	0.001	0.001	0.0096	0.00948	2.91E-02	1.75E-02	8.22E-08	3.77E-05	4.54E-04	1.11E-04	6.77E-02	6.45E-02	5.04E-02
3577	482363.09	3850377.25	0.00374	0.00815	0.00077	0.00108	0.001	0.001	0.0083	0.00815	2.61E-02	1.51E-02	8.02E-08	3.80E-05	3.82E-04	1.08E-04	5.85E-02	5.54E-02	4.47E-02
3578	482863.09	3850377.25	0.00292	0.00649	0.00073	0.001	0.001	0.001	0.0066	0.00649	2.04E-02	1.20E-02	7.60E-08	3.52E-05	3.29E-04	1.02E-04	4.66E-02	4.41E-02	3.53E-02
3579	483363.09	3850377.25	0.00249	0.00555	0.00071	0.00096	0.001	0.001	0.0056	0.00555	1.74E-02	1.03E-02	7.39E-08	3.38E-05	3.23E-04	9.96E-05	3.99E-02	3.77E-02	3.02E-02
3580	483863.09	3850377.25	0.00249	0.0054	0.00069	0.001	0.001	0.001	0.0055	0.0054	1.74E-02	9.97E-03	7.18E-08	3.52E-05	3.45E-04	1.03E-04	3.89E-02	3.67E-02	3.00E-02
3581	484363.09	3850377.25	0.00262	0.00546	0.00075	0.00104	0.001	0.001	0.0056	0.00546	1.83E-02	1.01E-02	7.81E-08	3.66E-05	3.76E-04	1.07E-04	3.94E-02	3.71E-02	3.11E-02
3582	484863.09	3850377.25	0.00272	0.00552	0.00077	0.00109	0.001	0.001	0.0056	0.00552	1.90E-02	1.02E-02	8.02E-08	3.84E-05	3.95E-04	1.12E-04	3.98E-02	3.75E-02	3.20E-02
3583	485363.09	3850377.25	0.00266	0.00521	0.00076	0.00111	0.002	0.001	0.0053	0.00521	1.85E-02	9.62E-03	7.91E-08	3.91E-05	4.73E-04	1.10E-04	3.76E-02	3.54E-02	3.10E-02
3584	485863.09	3850377.25	0.00248	0.00479	0.00077	0.00107	0.002	0.001	0.0049	0.00479	1.73E-02	8.85E-03	8.02E-08	3.77E-05	5.01E-04	1.07E-04	3.45E-02	3.26E-02	2.87E-02
3585	486363.09	3850377.25	0.0024	0.00455	0.00076	0.00109	0.001	0.001	0.0046	0.00455	1.67E-02	8.40E-03	7.91E-08	3.84E-05	4.51E-04	1.09E-04	3.28E-02	3.09E-02	2.76E-02
3586	486863.09	3850377.25	0.00234	0.00434	0.00079	0.0011	0.001	0.001	0.0044	0.00434	1.63E-02	8.02E-03	8.22E-08	3.87E-05	3.57E-04	1.09E-04	3.12E-02	2.95E-02	2.66E-02
3587	487363.09	3850377.25	0.00225	0.00407	0.00086	0.00108	0.001	0.001	0.0041	0.00407	1.57E-02	7.52E-03	8.95E-08	3.80E-05	3.32E-04	1.09E-04	2.93E-02	2.77E-02	2.53E-02
3588	487863.09	3850377.25	0.00222	0.0039	0.00087	0.00109	0.001	0.001	0.004	0.0039	1.55E-02	7.20E-03	9.06E-08	3.84E-05	3.63E-04	1.10E-04	2.81E-02	2.65E-02	2.48E-02
3589	488363.09	3850377.25	0.0022	0.00372	0.00083	0.0011	0.001	0.001	0.0038	0.00372	1.53E-02	6.87E-03	8.64E-08	3.87E-05	3.48E-04	1.13E-04	2.69E-02	2.53E-02	2.43E-02
3590	488863.09	3850377.25	0.0022	0.00357	0.00085	0.00112	0.001	0.001	0.0036	0.00357	1.53E-02	6.59E-03	8.85E-08	3.94E-05	3.35E-04	1.15E-04	2.58E-02	2.43E-02	2.39E-02
3591	489363.09	3850377.25	0.00219	0.0034	0.00089	0.00114	0.001	0.001	0.0035	0.0034	1.53E-02	6.28E-03	9.27E-08	4.01E-05	3.57E-04	1.17E-04	2.46E-02	2.31E-02	2.35E-02
3592	489863.09	3850377.25	0.00217	0.00321	0.00095	0.00113	0.001	0.001	0.0033	0.00321	1.51E-02	5.93E-03	9.89E-08	3.98E-05	3.89E-04	1.17E-04	2.32E-02	2.18E-02	2.30E-02

3593	490363.09	3850377.25	0.00214	0.00304	0.00099	0.00113	0.001	0.001	0.0031	0.00304	1.49E-02	5.61E-03	1.03E-07	3.98E-05	3.89E-04	1.20E-04	2.20E-02	2.07E-02	2.24E-02
3594	490863.09	3850377.25	0.00214	0.0029	0.001	0.00114	0.001	0.001	0.003	0.0029	1.49E-02	5.36E-03	1.04E-07	4.01E-05	3.57E-04	1.21E-04	2.10E-02	1.97E-02	2.21E-02
3595	491363.09	3850377.25	0.00213	0.00276	0.00101	0.00115	0.001	0.001	0.0028	0.00276	1.48E-02	5.10E-03	1.05E-07	4.05E-05	3.60E-04	1.23E-04	2.01E-02	1.88E-02	2.18E-02
3596	491863.09	3850377.25	0.00208	0.00258	0.00104	0.00116	0.001	0.001	0.0026	0.00258	1.45E-02	4.77E-03	1.08E-07	4.08E-05	3.42E-04	1.23E-04	1.87E-02	1.75E-02	2.09E-02
3597	492363.09	3850377.25	0.00202	0.0024	0.00107	0.00116	0.001	0.001	0.0025	0.0024	1.41E-02	4.43E-03	1.11E-07	4.08E-05	3.42E-04	1.23E-04	1.74E-02	1.63E-02	2.01E-02
3598	492863.09	3850377.25	0.002	0.00227	0.00111	0.00116	0.001	0.001	0.0023	0.00227	1.39E-02	4.19E-03	1.16E-07	4.08E-05	3.63E-04	1.24E-04	1.65E-02	1.54E-02	1.97E-02
3599	493363.09	3850377.25	0.00198	0.00213	0.00113	0.00116	0.001	0.001	0.0022	0.00213	1.38E-02	3.93E-03	1.18E-07	4.08E-05	3.82E-04	1.23E-04	1.55E-02	1.45E-02	1.93E-02
3600	493863.09	3850377.25	0.00206	0.00216	0.00117	0.00121	0.001	0.001	0.0022	0.00216	1.44E-02	3.99E-03	1.22E-07	4.26E-05	4.20E-04	1.29E-04	1.57E-02	1.47E-02	2.00E-02
3601	494363.09	3850377.25	0.00213	0.00215	0.00122	0.00124	0.001	0.001	0.0022	0.00215	1.48E-02	3.97E-03	1.27E-07	4.36E-05	4.42E-04	1.33E-04	1.57E-02	1.46E-02	2.05E-02
3602	494863.09	3850377.25	0.00226	0.0022	0.00126	0.00129	0.001	0.001	0.0023	0.0022	1.58E-02	4.06E-03	1.31E-07	4.54E-05	4.64E-04	1.40E-04	1.61E-02	1.50E-02	2.16E-02
3603	495363.09	3850377.25	0.00241	0.00226	0.00131	0.00135	0.002	0.002	0.0023	0.00226	1.68E-02	4.17E-03	1.36E-07	4.75E-05	4.76E-04	1.47E-04	1.66E-02	1.54E-02	2.29E-02
3604	495863.09	3850377.25	0.00237	0.00216	0.0013	0.00135	0.002	0.002	0.0022	0.00216	1.65E-02	3.99E-03	1.35E-07	4.75E-05	4.73E-04	1.46E-04	1.58E-02	1.47E-02	2.23E-02
3605	496363.09	3850377.25	0.00252	0.00222	0.00134	0.00141	0.002	0.002	0.0023	0.00222	1.76E-02	4.10E-03	1.40E-07	4.96E-05	4.98E-04	1.50E-04	1.63E-02	1.51E-02	2.36E-02
3606	496863.09	3850377.25	0.00265	0.00226	0.00139	0.00149	0.002	0.002	0.0024	0.00226	1.85E-02	4.17E-03	1.45E-07	5.24E-05	5.30E-04	1.57E-04	1.67E-02	1.54E-02	2.47E-02
3607	497363.09	3850377.25	0.0027	0.00225	0.00142	0.00156	0.002	0.002	0.0023	0.00225	1.88E-02	4.16E-03	1.48E-07	5.49E-05	5.51E-04	1.60E-04	1.66E-02	1.53E-02	2.50E-02
3608	497863.09	3850377.25	0.0027	0.0022	0.00144	0.00159	0.002	0.002	0.0023	0.0022	1.88E-02	4.06E-03	1.50E-07	5.60E-05	5.77E-04	1.62E-04	1.62E-02	1.50E-02	2.49E-02
3609	498363.09	3850377.25	0.0027	0.00215	0.00147	0.00162	0.002	0.002	0.0022	0.00215	1.88E-02	3.97E-03	1.53E-07	5.70E-05	6.02E-04	1.63E-04	1.58E-02	1.46E-02	2.48E-02
3610	471363.09	3850877.25	0.00144	0.00179	0.00062	0.00092	0.001	0.001	0.0018	0.00179	1.00E-02	3.31E-03	6.45E-08	3.24E-05	3.76E-04	9.49E-05	1.29E-02	1.22E-02	1.46E-02
3611	471863.09	3850877.25	0.00148	0.00199	0.00064	0.00094	0.001	0.001	0.002	0.00199	1.03E-02	3.68E-03	6.66E-08	3.31E-05	3.95E-04	9.68E-05	1.43E-02	1.35E-02	1.53E-02
3612	472363.09	3850877.25	0.00153	0.00227	0.00068	0.00097	0.001	0.001	0.0023	0.00227	1.07E-02	4.19E-03	7.08E-08	3.41E-05	4.14E-04	9.96E-05	1.63E-02	1.54E-02	1.63E-02
3613	472863.09	3850877.25	0.00158	0.00255	0.00073	0.00099	0.001	0.001	0.0026	0.00255	1.10E-02	4.71E-03	7.60E-08	3.48E-05	4.26E-04	1.02E-04	1.84E-02	1.73E-02	1.73E-02
3614	473363.09	3850877.25	0.00162	0.00262	0.00073	0.001	0.001	0.001	0.0027	0.00262	1.13E-02	4.84E-03	7.60E-08	3.52E-05	4.23E-04	1.04E-04	1.89E-02	1.78E-02	1.78E-02
3615	473863.09	3850877.25	0.00169	0.00298	0.00078	0.00104	0.001	0.001	0.003	0.00298	1.18E-02	5.50E-03	8.12E-08	3.66E-05	4.10E-04	1.09E-04	2.14E-02	2.03E-02	1.90E-02
3616	474363.09	3850877.25	0.00172	0.00329	0.00082	0.0011	0.001	0.001	0.0033	0.00329	1.20E-02	6.08E-03	8.54E-08	3.87E-05	3.98E-04	1.13E-04	2.36E-02	2.24E-02	1.98E-02
3617	474863.09	3850877.25	0.00178	0.00359	0.00085	0.00113	0.001	0.001	0.0036	0.00359	1.24E-02	6.63E-03	8.85E-08	3.98E-05	3.95E-04	1.16E-04	2.58E-02	2.44E-02	2.10E-02
3618	475363.09	3850877.25	0.00184	0.00393	0.00088	0.00116	0.001	0.001	0.004	0.00393	1.28E-02	7.26E-03	9.16E-08	4.08E-05	4.04E-04	1.19E-04	2.82E-02	2.67E-02	2.21E-02
3619	475863.09	3850877.25	0.00191	0.00434	0.00093	0.00118	0.001	0.001	0.0044	0.00434	1.33E-02	8.02E-03	9.68E-08	4.15E-05	4.26E-04	1.21E-04	3.10E-02	2.95E-02	2.34E-02
3620	476363.09	3850877.25	0.00208	0.00487	0.00096	0.00119	0.001	0.001	0.0049	0.00487	1.45E-02	8.99E-03	9.99E-08	4.19E-05	4.48E-04	1.21E-04	3.48E-02	3.31E-02	2.58E-02
3621	476863.09	3850877.25	0.00223	0.00545	0.00094	0.00123	0.001	0.001	0.0055	0.00545	1.55E-02	1.01E-02	9.79E-08	4.33E-05	4.67E-04	1.23E-04	3.92E-02	3.71E-02	2.84E-02
3622	477363.09	3850877.25	0.0024	0.00629	0.00087	0.00127	0.002	0.001	0.0064	0.00629	1.67E-02	1.16E-02	9.06E-08	4.47E-05	4.79E-04	1.27E-04	4.54E-02	4.28E-02	3.16E-02
3623	477863.09	3850877.25	0.00266	0.00759	0.00085	0.00128	0.002	0.001	0.0077	0.00759	1.85E-02	1.40E-02	8.85E-08	4.51E-05	4.76E-04	1.31E-04	5.47E-02	5.16E-02	3.63E-02
3624	478363.09	3850877.25	0.00314	0.00994	0.00093	0.00127	0.001	0.001	0.0101	0.00994	2.19E-02	1.84E-02	9.68E-08	4.47E-05	4.64E-04	1.29E-04	7.14E-02	6.76E-02	4.47E-02
3625	478863.09	3850877.25	0.00419	0.0146	0.00092	0.00125	0.001	0.001	0.0149	0.0146	2.92E-02	2.70E-02	9.58E-08	4.40E-05	4.54E-04	1.24E-04	1.05E-01	9.93E-02	6.28E-02
3626	479363.09	3850877.25	0.00748	0.03208	0.00084	0.00131	0.001	0.001	0.0331	0.03208	5.21E-02	5.92E-02	8.74E-08	4.61E-05	4.57E-04	1.32E-04	2.35E-01	2.18E-01	1.29E-01
3627	479863.09	3850877.25	0.04837	0.25187	0.0008	0.00136	0.002	0.001	0.2402	0.25187	3.37E-01	4.65E-01	8.33E-08	4.79E-05	4.73E-04	1.38E-04	1.70E+00	1.71E+00	7.92E-01
3628	480363.09	3850877.25	0.01413	0.0541	0.00082	0.00131	0.002	0.001	0.0541	0.0541	9.85E-02	9.99E-02	8.54E-08	4.61E-05	4.76E-04	1.33E-04	3.83E-01	3.68E-01	2.14E-01
3629	480863.09	3850877.25	0.00872	0.02965	0.00092	0.00129	0.001	0.001	0.0298	0.02965	6.08E-02	5.48E-02	9.58E-08	4.54E-05	4.45E-04	1.35E-04	2.11E-01	2.02E-01	1.26E-01
3630	481363.09	3850877.25	0.00672	0.0201	0.00087	0.0013	0.001	0.001	0.0203	0.0201	4.68E-02	3.71E-02	9.06E-08	4.58E-05	4.07E-04	1.33E-04	1.44E-01	1.37E-01	9.19E-02
3631	481863.09	3850877.25	0.00576	0.01446	0.00093	0.00134	0.001	0.001	0.0146	0.01446	4.02E-02	2.67E-02	9.68E-08	4.72E-05	4.57E-04	1.36E-04	1.04E-01	9.83E-02	7.27E-02
3632	482363.09	3850877.25	0.00483	0.01064	0.00092	0.00126	0.002	0.001	0.0108	0.01064	3.37E-02	1.97E-02	9.58E-08	4.43E-05	5.11E-04	1.27E-04	7.64E-02	7.24E-02	5.80E-02
3633	482863.09	3850877.25	0.00405	0.0086	0.00085	0.00123	0.001	0.001	0.0087	0.0086	2.82E-02	1.59E-02	8.85E-08	4.33E-05	4.01E-04	1.21E-04	6.19E-02	5.85E-02	4.81E-02
3634	483363.09	3850877.25	0.00331	0.00704	0.00083	0.00117	0.001	0.001	0.0072	0.00704	2.31E-02	1.30E-02	8.64E-08	4.12E-05	3.54E-04	1.16E-04	5.08E-02	4.79E-02	3.95E-02
3635	483863.09	3850877.25	0.00308	0.00641	0.00079	0.00116	0.001	0.001	0.0065	0.00641	2.15E-02	1.18E-02	8.22E-08	4.08E-05	3.76E-04	1.18E-04	4.63E-02	4.36E-02	3.66E-02
3636	484363.09	3850877.25	0.00314	0.0063	0.00086	0.00121	0.001	0.001	0.0064	0.0063	2.19E-02	1.16E-02	8.95E-08	4.26E-05	4.42E-04	1.23E-04	4.56E-02	4.28E-02	3.69E-02
3637	484863.09	3850877.25	0.00306	0.00589	0.00084	0.00122	0.001	0.001	0.006	0.00589	2.13E-02	1.09E-02	8.74E-08	4.29E-05	4.26E-04	1.24E-04	4.26E-02	4.01E-02	3.53E-02
3638	485363.09	3850877.25	0.00301	0.00561	0.00087	0.00125	0.002	0.001	0.0057	0.00561	2.10E-02	1.04E-02	9.06E-08	4.40E-05	4.83E-04	1.26E-04	4.06E-02	3.81E-02	3.45E-02
3639	485863.09	3850877.25	0.0028	0.00506	0.00088	0.00121	0.002	0.001	0.0052	0.00506	1.95E-02	9.35E-03	9.16E-08	4.26E-05	5.51E-04	1.24E-04	3.66E-02	3.44E-02	3.17E-02
3640	486363.09	3850877.25	0.00279	0.00487	0.00087	0.00127	0.002	0.001	0.005	0.00487	1.95E-02	8.99E-03	9.06E-08	4.47E-05	5.39E-04	1.26E-04	3.52E-02	3.31E-02	3.13E-02
3641	486863.09	3850877.25	0.0027	0.0046	0.00096	0.00128	0.001	0.001	0.0047	0.0046	1.88E-02	8.50E-03	9.99E-08	4.51E-05	4.23E-04	1.25E-04	3.33E-02	3.13E-02	2.99E-02
3642	487363.09	3850877.25	0.00258	0.0043	0.00098	0.00126	0.001	0.001	0.0044	0.0043	1.80E-02	7.94E-03	1.02E-07	4.43E-05	3.70E-04	1.25E-04	3.11E-02	2.92E-02	2.83E-02
3643	487863.09	3850877.25	0.00253	0.00409	0.00096	0.00126	0.001	0.001	0.0042	0.00409	1.76E-02	7.55E-03	9.99E-08	4.43E-05	3.98E-04	1.28E-04	2.96E-02	2.78E-02	2.76E-02
3644	488363.09	3850877.25	0.00254	0.0039	0.00095	0.00128	0.001	0.001	0.004	0.0039	1.77E-02	7.20E-03	9.89E-08	4.51E-05	4.04E-04	1.31E-04	2.83E-02	2.65E-02	2.72E-02
3645	488863.09	3850877.25	0.00253	0.00371	0.00101	0.00131	0.001	0.001	0.0038	0.00371	1.76E-02	6.85E-03	1.05E-07	4.61E-05	3.73E-04	1.33E-04	2.69E-02	2.52E-02	2.67E-02
3646	489363.09	3850877.25	0.00253	0.00354	0.00111	0.00132	0.001	0.001	0.0036	0.00354	1.76E-02	6.54E-03	1.16E-07	4.65E-05	4.04E-04	1.36E-04	2.57E-02	2.41E-02	2.64E-02
3647	489863.09	3850877.25	0.00252	0.00336	0.00116	0.00134	0.001	0.001	0.0035	0.00336	1.76E-02	6.21E-03	1.21E-07	4.72E-05	4.32E-04	1.39E-04	2.44E-02	2.28E-02	2.60E-02
3648	490363.09	3850877.25	0.00252	0.00321	0.00116	0.00135	0.001	0.002	0.0033	0.00321	1.76E-02	5.93E-03	1.21E-07	4.75E-05	4.17E-04	1.42E-04	2.34E-02	2.18E-02	2.57E-02
3649	490863.09	3850877.25	0.00251	0.00306	0.00117	0.00136	0.001	0.002	0.0032	0.00306	1.75E-02	5.65E-03	1.22E-07	4.79E-05	4.01E-04	1.45E-04	2.23E-02	2.08E-02	2.53E-02
3650	491363.09	3850877.25	0.00246	0.00289	0.00122	0.00137	0.001	0.002	0.003	0.00289	1.72E-02	5.34E-03	1.27E-07	4.82E-05	4.04E-04	1.45E-04	2.11E-02	1.97E-02	2.45E-02

3651	491863.09	3850877.25	0.00242	0.00271	0.00126	0.00138	0.001	0.002	0.0028	0.00271	1.69E-02	5.01E-03	1.31E-07	4.86E-05	3.76E-04	1.45E-04	1.98E-02	1.84E-02	2.39E-02
3652	492363.09	3850877.25	0.00239	0.00255	0.0013	0.00137	0.001	0.002	0.0026	0.00255	1.67E-02	4.71E-03	1.35E-07	4.82E-05	3.95E-04	1.45E-04	1.86E-02	1.73E-02	2.33E-02
3653	492863.09	3850877.25	0.00237	0.00243	0.00134	0.00137	0.001	0.002	0.0025	0.00243	1.65E-02	4.49E-03	1.40E-07	4.82E-05	4.23E-04	1.47E-04	1.78E-02	1.65E-02	2.29E-02
3654	493363.09	3850877.25	0.00238	0.00235	0.00135	0.00139	0.001	0.002	0.0024	0.00235	1.66E-02	4.34E-03	1.41E-07	4.89E-05	4.61E-04	1.49E-04	1.72E-02	1.60E-02	2.28E-02
3655	493863.09	3850877.25	0.0025	0.00237	0.00139	0.00144	0.002	0.002	0.0025	0.00237	1.74E-02	4.38E-03	1.45E-07	5.07E-05	4.98E-04	1.54E-04	1.74E-02	1.61E-02	2.38E-02
3656	494363.09	3850877.25	0.00257	0.00233	0.00142	0.00146	0.002	0.002	0.0024	0.00233	1.79E-02	4.30E-03	1.48E-07	5.14E-05	5.11E-04	1.58E-04	1.71E-02	1.58E-02	2.42E-02
3657	494863.09	3850877.25	0.00271	0.00236	0.00147	0.00152	0.002	0.002	0.0025	0.00236	1.89E-02	4.36E-03	1.53E-07	5.35E-05	5.36E-04	1.64E-04	1.74E-02	1.60E-02	2.54E-02
3658	495363.09	3850877.25	0.00283	0.0024	0.0015	0.00159	0.002	0.002	0.0025	0.0024	1.97E-02	4.43E-03	1.56E-07	5.60E-05	5.42E-04	1.71E-04	1.77E-02	1.63E-02	2.63E-02
3659	495863.09	3850877.25	0.00287	0.00235	0.00152	0.0016	0.002	0.002	0.0025	0.00235	2.00E-02	4.34E-03	1.58E-07	5.63E-05	5.55E-04	1.72E-04	1.74E-02	1.60E-02	2.66E-02
3660	496363.09	3850877.25	0.00294	0.00235	0.00156	0.00167	0.002	0.002	0.0025	0.00235	2.05E-02	4.34E-03	1.62E-07	5.88E-05	5.83E-04	1.75E-04	1.74E-02	1.60E-02	2.70E-02
3661	496863.09	3850877.25	0.00305	0.00237	0.00161	0.00177	0.002	0.002	0.0025	0.00237	2.13E-02	4.38E-03	1.68E-07	6.23E-05	6.17E-04	1.80E-04	1.76E-02	1.61E-02	2.80E-02
3662	497363.09	3850877.25	0.00306	0.00233	0.00163	0.00181	0.002	0.002	0.0024	0.00233	2.13E-02	4.30E-03	1.70E-07	6.37E-05	6.49E-04	1.81E-04	1.73E-02	1.58E-02	2.80E-02
3663	497863.09	3850877.25	0.00303	0.00226	0.00164	0.00183	0.002	0.002	0.0024	0.00226	2.11E-02	4.17E-03	1.71E-07	6.44E-05	6.74E-04	1.81E-04	1.68E-02	1.54E-02	2.76E-02
3664	498363.09	3850877.25	0.003	0.0022	0.00166	0.00181	0.002	0.002	0.0023	0.0022	2.09E-02	4.06E-03	1.73E-07	6.37E-05	6.96E-04	1.80E-04	1.63E-02	1.50E-02	2.73E-02
3665	471363.09	3851377.25	0.00152	0.00174	0.00065	0.00101	0.001	0.001	0.0018	0.00174	1.06E-02	3.21E-03	6.77E-08	3.55E-05	3.89E-04	1.02E-04	1.25E-02	1.18E-02	1.50E-02
3666	471863.09	3851377.25	0.00159	0.00202	0.0007	0.00106	0.001	0.001	0.0021	0.00202	1.11E-02	3.73E-03	7.29E-08	3.73E-05	4.04E-04	1.07E-04	1.46E-02	1.37E-02	1.62E-02
3667	472363.09	3851377.25	0.00163	0.00209	0.00071	0.00107	0.001	0.001	0.0021	0.00209	1.14E-02	3.86E-03	7.39E-08	3.77E-05	4.17E-04	1.08E-04	1.50E-02	1.42E-02	1.66E-02
3668	472863.09	3851377.25	0.00166	0.00218	0.00072	0.00106	0.001	0.001	0.0022	0.00218	1.16E-02	4.03E-03	7.50E-08	3.73E-05	4.29E-04	1.08E-04	1.57E-02	1.48E-02	1.71E-02
3669	473363.09	3851377.25	0.00167	0.00209	0.00072	0.00104	0.001	0.001	0.0021	0.00209	1.16E-02	3.86E-03	7.50E-08	3.66E-05	4.42E-04	1.07E-04	1.51E-02	1.42E-02	1.70E-02
3670	473863.09	3851377.25	0.00172	0.00225	0.00075	0.00106	0.001	0.001	0.0023	0.00225	1.20E-02	4.16E-03	7.81E-08	3.73E-05	4.57E-04	1.09E-04	1.62E-02	1.53E-02	1.77E-02
3671	474363.09	3851377.25	0.00181	0.00268	0.00082	0.0011	0.001	0.001	0.0027	0.00268	1.26E-02	4.95E-03	8.54E-08	3.87E-05	4.67E-04	1.15E-04	1.93E-02	1.82E-02	1.92E-02
3672	474863.09	3851377.25	0.00188	0.00305	0.00088	0.00115	0.001	0.001	0.0031	0.00305	1.31E-02	5.63E-03	9.16E-08	4.05E-05	4.54E-04	1.20E-04	2.20E-02	2.07E-02	2.06E-02
3673	475363.09	3851377.25	0.00193	0.00334	0.00093	0.00121	0.001	0.001	0.0034	0.00334	1.35E-02	6.17E-03	9.68E-08	4.26E-05	4.39E-04	1.25E-04	2.40E-02	2.27E-02	2.15E-02
3674	475863.09	3851377.25	0.00201	0.00363	0.00095	0.00126	0.001	0.001	0.0037	0.00363	1.40E-02	6.70E-03	9.89E-08	4.43E-05	4.32E-04	1.29E-04	2.61E-02	2.47E-02	2.28E-02
3675	476363.09	3851377.25	0.00213	0.00397	0.00099	0.00129	0.001	0.001	0.004	0.00397	1.48E-02	7.33E-03	1.03E-07	4.54E-05	4.45E-04	1.33E-04	2.86E-02	2.70E-02	2.44E-02
3676	476863.09	3851377.25	0.00225	0.00436	0.00104	0.00131	0.002	0.001	0.0044	0.00436	1.57E-02	8.05E-03	1.08E-07	4.61E-05	4.70E-04	1.34E-04	3.12E-02	2.96E-02	2.60E-02
3677	477363.09	3851377.25	0.00233	0.0048	0.00108	0.00134	0.002	0.001	0.0049	0.0048	1.62E-02	8.87E-03	1.12E-07	4.72E-05	4.95E-04	1.36E-04	3.44E-02	3.26E-02	2.76E-02
3678	477863.09	3851377.25	0.00246	0.00541	0.00102	0.00138	0.002	0.001	0.0055	0.00541	1.72E-02	9.99E-03	1.06E-07	4.86E-05	5.17E-04	1.39E-04	3.90E-02	3.68E-02	3.01E-02
3679	478363.09	3851377.25	0.00263	0.00625	0.00095	0.00142	0.002	0.002	0.0064	0.00625	1.83E-02	1.15E-02	9.89E-08	5.00E-05	5.26E-04	1.45E-04	4.53E-02	4.25E-02	3.34E-02
3680	478863.09	3851377.25	0.00285	0.00759	0.00103	0.00144	0.002	0.002	0.0077	0.00759	1.99E-02	1.40E-02	1.07E-07	5.07E-05	5.17E-04	1.46E-04	5.46E-02	5.16E-02	3.76E-02
3681	479363.09	3851377.25	0.00318	0.0098	0.00105	0.00142	0.002	0.002	0.01	0.0098	2.22E-02	1.81E-02	1.09E-07	5.00E-05	5.01E-04	1.41E-04	7.06E-02	6.66E-02	4.49E-02
3682	479863.09	3851377.25	0.00393	0.01434	0.00095	0.00145	0.002	0.002	0.0146	0.01434	2.74E-02	2.65E-02	9.89E-08	5.10E-05	4.98E-04	1.50E-04	1.04E-01	9.75E-02	6.07E-02
3683	480363.09	3851377.25	0.00669	0.03118	0.00092	0.00153	0.002	0.002	0.0317	0.03118	4.66E-02	5.76E-02	9.58E-08	5.39E-05	5.14E-04	1.57E-04	2.24E-01	2.12E-01	1.17E-01
3684	480863.09	3851377.25	0.04734	0.27503	0.00098	0.00151	0.002	0.002	0.2806	0.27503	3.30E-01	5.08E-01	1.02E-07	5.31E-05	5.23E-04	1.56E-04	1.99E+00	1.87E+00	9.56E-01
3685	481363.09	3851377.25	0.01275	0.05031	0.00105	0.00148	0.002	0.002	0.051	0.05031	8.89E-02	9.29E-02	1.09E-07	5.21E-05	4.98E-04	1.57E-04	3.61E-01	3.42E-01	2.01E-01
3686	481863.09	3851377.25	0.00784	0.02429	0.00107	0.00154	0.001	0.002	0.0246	0.02429	5.47E-02	4.49E-02	1.11E-07	5.42E-05	4.51E-04	1.60E-04	1.75E-01	1.65E-01	1.10E-01
3687	482363.09	3851377.25	0.00623	0.01588	0.00116	0.00155	0.002	0.002	0.0161	0.01588	4.34E-02	2.93E-02	1.21E-07	5.46E-05	5.20E-04	1.60E-04	1.14E-01	1.08E-01	7.92E-02
3688	482863.09	3851377.25	0.00505	0.01094	0.00099	0.00152	0.002	0.002	0.0111	0.01094	3.52E-02	2.02E-02	1.03E-07	5.35E-05	5.61E-04	1.47E-04	7.89E-02	7.44E-02	6.07E-02
3689	483363.09	3851377.25	0.00405	0.00837	0.00099	0.0014	0.001	0.001	0.0085	0.00837	2.82E-02	1.55E-02	1.03E-07	4.93E-05	4.23E-04	1.36E-04	6.05E-02	5.69E-02	4.79E-02
3690	483863.09	3851377.25	0.00358	0.00714	0.00093	0.00136	0.001	0.001	0.0073	0.00714	2.50E-02	1.32E-02	9.68E-08	4.79E-05	3.98E-04	1.35E-04	5.17E-02	4.86E-02	4.19E-02
3691	484363.09	3851377.25	0.00367	0.00709	0.00097	0.00145	0.002	0.002	0.0073	0.00709	2.56E-02	1.31E-02	1.01E-07	5.10E-05	5.04E-04	1.46E-04	5.14E-02	4.82E-02	4.26E-02
3692	484863.09	3851377.25	0.00323	0.00591	0.0009	0.00132	0.002	0.001	0.006	0.00591	2.25E-02	1.09E-02	9.37E-08	4.65E-05	4.70E-04	1.35E-04	4.28E-02	4.02E-02	3.67E-02
3693	485363.09	3851377.25	0.00343	0.00602	0.00102	0.00146	0.002	0.002	0.0062	0.00602	2.39E-02	1.11E-02	1.06E-07	5.14E-05	4.98E-04	1.51E-04	4.38E-02	4.09E-02	3.86E-02
3694	485863.09	3851377.25	0.00324	0.00536	0.00101	0.00144	0.002	0.002	0.0055	0.00536	2.26E-02	9.90E-03	1.05E-07	5.07E-05	5.95E-04	1.46E-04	3.89E-02	3.64E-02	3.57E-02
3695	486363.09	3851377.25	0.00327	0.00519	0.00107	0.00152	0.002	0.002	0.0053	0.00519	2.28E-02	9.59E-03	1.11E-07	5.35E-05	6.42E-04	1.49E-04	3.77E-02	3.53E-02	3.56E-02
3696	486863.09	3851377.25	0.00315	0.00482	0.00111	0.00151	0.002	0.002	0.005	0.00482	2.20E-02	8.90E-03	1.16E-07	5.31E-05	5.11E-04	1.48E-04	3.51E-02	3.28E-02	3.39E-02
3697	487363.09	3851377.25	0.0029	0.00434	0.00109	0.00145	0.001	0.002	0.0045	0.00434	2.02E-02	8.02E-03	1.13E-07	5.10E-05	4.07E-04	1.46E-04	3.16E-02	2.95E-02	3.09E-02
3698	487863.09	3851377.25	0.00297	0.00423	0.00113	0.0015	0.001	0.002	0.0044	0.00423	2.07E-02	7.81E-03	1.18E-07	5.28E-05	4.42E-04	1.52E-04	3.09E-02	2.88E-02	3.13E-02
3699	488363.09	3851377.25	0.003	0.00405	0.00118	0.00152	0.001	0.002	0.0042	0.00405	2.09E-02	7.48E-03	1.23E-07	5.35E-05	4.42E-04	1.58E-04	2.95E-02	2.75E-02	3.11E-02
3700	488863.09	3851377.25	0.003	0.00385	0.00132	0.00157	0.001	0.002	0.004	0.00385	2.09E-02	7.11E-03	1.37E-07	5.53E-05	4.14E-04	1.62E-04	2.81E-02	2.62E-02	3.06E-02
3701	489363.09	3851377.25	0.003	0.00366	0.00137	0.0016	0.001	0.002	0.0038	0.00366	2.09E-02	6.76E-03	1.43E-07	5.63E-05	4.57E-04	1.65E-04	2.69E-02	2.49E-02	3.03E-02
3702	489863.09	3851377.25	0.00298	0.00347	0.00135	0.00162	0.002	0.002	0.0036	0.00347	2.08E-02	6.41E-03	1.41E-07	5.70E-05	4.76E-04	1.67E-04	2.55E-02	2.36E-02	2.98E-02
3703	490363.09	3851377.25	0.00298	0.00331	0.00138	0.00164	0.001	0.002	0.0034	0.00331	2.08E-02	6.11E-03	1.44E-07	5.77E-05	4.51E-04	1.70E-04	2.44E-02	2.25E-02	2.94E-02
3704	490863.09	3851377.25	0.00296	0.00315	0.00144	0.00164	0.001	0.002	0.0033	0.00315	2.06E-02	5.82E-03	1.50E-07	5.77E-05	4.51E-04	1.71E-04	2.32E-02	2.14E-02	2.90E-02
3705	491363.09	3851377.25	0.00291	0.00297	0.0015	0.00164	0.001	0.002	0.0031	0.00297	2.03E-02	5.49E-03	1.56E-07	5.77E-05	4.48E-04	1.71E-04	2.20E-02	2.02E-02	2.82E-02
3706	491863.09	3851377.25	0.00286	0.00282	0.00155	0.00165	0.001	0.002	0.0029	0.00282	1.99E-02	5.21E-03	1.61E-07	5.81E-05	4.36E-04	1.71E-04	2.08E-02	1.92E-02	2.75E-02
3707	492363.09	3851377.25	0.00286	0.0027	0.00158	0.00165	0.002	0.002	0.0028	0.0027	1.99E-02	4.99E-03	1.64E-07	5.81E-05	4.86E-04	1.73E-04	2.00E-02	1.84E-02	2.73E-02
3708	492863.09	3851377.25	0.00284	0.00257	0.00157	0.00164	0.002	0.002	0.0027	0.00257	1.98E-02	4.75E-03	1.63E-07	5.77E-05	5.42E-04	1.73E-04	1.90E-02	1.75E-02	2.68E-02

3709	493363.09	3851377.25	0.0027	0.00235	0.00154	0.00159	0.002	0.002	0.0025	0.00235	1.88E-02	4.34E-03	1.60E-07	5.60E-05	5.33E-04	1.69E-04	1.74E-02	1.60E-02	2.53E-02
3710	493863.09	3851377.25	0.00281	0.00238	0.0016	0.00165	0.002	0.002	0.0025	0.00238	1.96E-02	4.40E-03	1.67E-07	5.81E-05	5.55E-04	1.75E-04	1.76E-02	1.62E-02	2.62E-02
3711	494363.09	3851377.25	0.00307	0.00249	0.00168	0.00174	0.002	0.002	0.0026	0.00249	2.14E-02	4.60E-03	1.75E-07	6.12E-05	5.92E-04	1.86E-04	1.85E-02	1.69E-02	2.84E-02
3712	494863.09	3851377.25	0.00313	0.00246	0.0017	0.00178	0.002	0.002	0.0026	0.00246	2.18E-02	4.54E-03	1.77E-07	6.26E-05	5.95E-04	1.91E-04	1.83E-02	1.67E-02	2.88E-02
3713	495363.09	3851377.25	0.00337	0.00255	0.00176	0.00188	0.002	0.002	0.0027	0.00255	2.35E-02	4.71E-03	1.83E-07	6.62E-05	6.24E-04	1.99E-04	1.91E-02	1.73E-02	3.08E-02
3714	495863.09	3851377.25	0.00346	0.00253	0.0018	0.00194	0.002	0.002	0.0027	0.00253	2.41E-02	4.67E-03	1.87E-07	6.83E-05	6.58E-04	2.02E-04	1.90E-02	1.72E-02	3.15E-02
3715	496363.09	3851377.25	0.00349	0.0025	0.00183	0.00201	0.002	0.002	0.0026	0.0025	2.43E-02	4.62E-03	1.91E-07	7.07E-05	6.99E-04	2.04E-04	1.87E-02	1.70E-02	3.16E-02
3716	496863.09	3851377.25	0.00349	0.00245	0.00186	0.00206	0.002	0.002	0.0026	0.00245	2.43E-02	4.52E-03	1.94E-07	7.25E-05	7.36E-04	2.05E-04	1.84E-02	1.67E-02	3.16E-02
3717	497363.09	3851377.25	0.00347	0.0024	0.0019	0.00209	0.002	0.002	0.0025	0.0024	2.42E-02	4.43E-03	1.98E-07	7.36E-05	7.71E-04	2.06E-04	1.79E-02	1.63E-02	3.13E-02
3718	497863.09	3851377.25	0.00342	0.00233	0.00187	0.00207	0.003	0.002	0.0025	0.00233	2.38E-02	4.30E-03	1.95E-07	7.29E-05	7.93E-04	2.04E-04	1.74E-02	1.58E-02	3.08E-02
3719	498363.09	3851377.25	0.00332	0.00224	0.00184	0.00201	0.003	0.002	0.0024	0.00224	2.31E-02	4.14E-03	1.92E-07	7.07E-05	8.12E-04	2.01E-04	1.67E-02	1.52E-02	2.98E-02
3720	471363.09	3851877.25	0.00162	0.0017	0.0007	0.00103	0.001	0.001	0.0017	0.0017	1.13E-02	3.14E-03	7.29E-08	3.63E-05	3.98E-04	1.04E-04	1.23E-02	1.16E-02	1.57E-02
3721	471863.09	3851877.25	0.00164	0.00171	0.00071	0.00106	0.001	0.001	0.0018	0.00171	1.14E-02	3.16E-03	7.39E-08	3.73E-05	4.07E-04	1.07E-04	1.24E-02	1.16E-02	1.59E-02
3722	472363.09	3851877.25	0.0017	0.00187	0.00074	0.00112	0.001	0.001	0.0019	0.00187	1.19E-02	3.45E-03	7.70E-08	3.94E-05	4.23E-04	1.13E-04	1.35E-02	1.27E-02	1.67E-02
3723	472863.09	3851877.25	0.00176	0.00201	0.00077	0.00117	0.001	0.001	0.0021	0.00201	1.23E-02	3.71E-03	8.02E-08	4.12E-05	4.39E-04	1.17E-04	1.45E-02	1.37E-02	1.74E-02
3724	473363.09	3851877.25	0.00179	0.00195	0.00076	0.00116	0.001	0.001	0.002	0.00195	1.25E-02	3.60E-03	7.91E-08	4.08E-05	4.45E-04	1.17E-04	1.42E-02	1.33E-02	1.76E-02
3725	473863.09	3851877.25	0.00182	0.002	0.00077	0.00117	0.001	0.001	0.0021	0.002	1.27E-02	3.69E-03	8.02E-08	4.12E-05	4.61E-04	1.17E-04	1.45E-02	1.36E-02	1.79E-02
3726	474363.09	3851877.25	0.00189	0.00226	0.00082	0.0012	0.002	0.001	0.0023	0.00226	1.32E-02	4.17E-03	8.54E-08	4.22E-05	4.86E-04	1.22E-04	1.64E-02	1.54E-02	1.91E-02
3727	474863.09	3851877.25	0.00197	0.00258	0.00088	0.00124	0.002	0.001	0.0026	0.00258	1.37E-02	4.77E-03	9.16E-08	4.36E-05	5.08E-04	1.27E-04	1.87E-02	1.75E-02	2.03E-02
3728	475363.09	3851877.25	0.00205	0.00283	0.00094	0.00126	0.002	0.001	0.0029	0.00283	1.43E-02	5.23E-03	9.79E-08	4.43E-05	5.17E-04	1.32E-04	2.04E-02	1.92E-02	2.14E-02
3729	475863.09	3851877.25	0.00213	0.00307	0.001	0.00129	0.002	0.001	0.0031	0.00307	1.48E-02	5.67E-03	1.04E-07	4.54E-05	5.04E-04	1.35E-04	2.21E-02	2.09E-02	2.24E-02
3730	476363.09	3851877.25	0.00224	0.00321	0.00101	0.00132	0.002	0.001	0.0033	0.00321	1.56E-02	5.93E-03	1.05E-07	4.65E-05	4.83E-04	1.36E-04	2.31E-02	2.18E-02	2.35E-02
3731	476863.09	3851877.25	0.00233	0.00355	0.00105	0.00138	0.002	0.002	0.0036	0.00355	1.62E-02	6.56E-03	1.09E-07	4.86E-05	4.73E-04	1.42E-04	2.56E-02	2.41E-02	2.49E-02
3732	477363.09	3851877.25	0.00242	0.00389	0.00111	0.00143	0.002	0.002	0.004	0.00389	1.69E-02	7.18E-03	1.16E-07	5.03E-05	4.89E-04	1.48E-04	2.81E-02	2.65E-02	2.63E-02
3733	477863.09	3851877.25	0.00252	0.00427	0.00118	0.00148	0.002	0.002	0.0043	0.00427	1.76E-02	7.89E-03	1.23E-07	5.21E-05	5.23E-04	1.50E-04	3.07E-02	2.90E-02	2.78E-02
3734	478363.09	3851877.25	0.00264	0.00464	0.00115	0.00151	0.002	0.002	0.0047	0.00464	1.84E-02	8.57E-03	1.20E-07	5.31E-05	5.58E-04	1.52E-04	3.35E-02	3.16E-02	2.97E-02
3735	478863.09	3851877.25	0.00272	0.00532	0.00107	0.00156	0.002	0.002	0.0055	0.00532	1.90E-02	9.83E-03	1.11E-07	5.49E-05	5.80E-04	1.59E-04	3.87E-02	3.62E-02	3.21E-02
3736	479363.09	3851877.25	0.0028	0.0063	0.00115	0.00163	0.002	0.002	0.0064	0.0063	1.95E-02	1.16E-02	1.20E-07	5.74E-05	5.80E-04	1.67E-04	4.56E-02	4.28E-02	3.48E-02
3737	479863.09	3851877.25	0.003	0.00767	0.00122	0.00165	0.002	0.002	0.0078	0.00767	2.09E-02	1.42E-02	1.27E-07	5.81E-05	5.64E-04	1.64E-04	5.52E-02	5.22E-02	3.89E-02
3738	480363.09	3851877.25	0.00343	0.01	0.0011	0.00165	0.002	0.002	0.0102	0.01	2.39E-02	1.85E-02	1.15E-07	5.81E-05	5.51E-04	1.76E-04	7.21E-02	6.80E-02	4.73E-02
3739	480863.09	3851877.25	0.00425	0.01563	0.00108	0.00176	0.002	0.002	0.0158	0.01563	2.96E-02	2.89E-02	1.12E-07	6.19E-05	5.61E-04	1.82E-04	1.12E-01	1.06E-01	6.50E-02
3740	481363.09	3851877.25	0.01156	0.07022	0.00124	0.00177	0.002	0.002	0.0712	0.07022	8.06E-02	1.30E-01	1.29E-07	6.23E-05	5.77E-04	1.90E-04	5.05E-01	4.77E-01	2.38E-01
3741	481863.09	3851877.25	0.01014	0.04853	0.00119	0.00173	0.002	0.002	0.0489	0.04853	7.07E-02	8.96E-02	1.24E-07	6.09E-05	5.55E-04	1.86E-04	3.46E-01	3.30E-01	1.78E-01
3742	482363.09	3851877.25	0.00721	0.01928	0.00135	0.00178	0.002	0.002	0.0195	0.01928	5.03E-02	3.56E-02	1.41E-07	6.26E-05	4.95E-04	1.85E-04	1.38E-01	1.31E-01	9.37E-02
3743	482863.09	3851877.25	0.00552	0.01191	0.00112	0.00172	0.002	0.002	0.0121	0.01191	3.85E-02	2.20E-02	1.17E-07	6.05E-05	5.64E-04	1.66E-04	8.60E-02	8.10E-02	6.63E-02
3744	483363.09	3851877.25	0.00487	0.00992	0.00118	0.00178	0.002	0.002	0.0102	0.00992	3.40E-02	1.83E-02	1.23E-07	6.26E-05	5.98E-04	1.69E-04	7.21E-02	6.75E-02	5.77E-02
3745	483863.09	3851877.25	0.0044	0.00832	0.00115	0.00173	0.001	0.002	0.0086	0.00832	3.07E-02	1.54E-02	1.20E-07	6.09E-05	4.64E-04	1.67E-04	6.07E-02	5.66E-02	5.08E-02
3746	484363.09	3851877.25	0.00425	0.00774	0.0011	0.00178	0.002	0.002	0.008	0.00774	2.96E-02	1.43E-02	1.15E-07	6.26E-05	5.11E-04	1.73E-04	5.65E-02	5.26E-02	4.86E-02
3747	484863.09	3851877.25	0.00402	0.00682	0.00108	0.00169	0.002	0.002	0.007	0.00682	2.80E-02	1.26E-02	1.12E-07	5.95E-05	5.95E-04	1.78E-04	4.97E-02	4.64E-02	4.48E-02
3748	485363.09	3851877.25	0.00399	0.00633	0.00119	0.00179	0.002	0.002	0.0065	0.00633	2.78E-02	1.17E-02	1.24E-07	6.30E-05	5.55E-04	1.82E-04	4.63E-02	4.30E-02	4.36E-02
3749	485863.09	3851877.25	0.00397	0.00589	0.00132	0.00185	0.002	0.002	0.0061	0.00589	2.77E-02	1.09E-02	1.37E-07	6.51E-05	6.42E-04	1.85E-04	4.33E-02	4.01E-02	4.27E-02
3750	486363.09	3851877.25	0.00383	0.0053	0.00127	0.00181	0.002	0.002	0.0055	0.0053	2.67E-02	9.79E-03	1.32E-07	6.37E-05	7.33E-04	1.82E-04	3.89E-02	3.60E-02	4.03E-02
3751	486863.09	3851877.25	0.00374	0.00496	0.00126	0.00185	0.002	0.002	0.0051	0.00496	2.61E-02	9.16E-03	1.31E-07	6.51E-05	6.24E-04	1.83E-04	3.64E-02	3.37E-02	3.88E-02
3752	487363.09	3851877.25	0.00364	0.00465	0.00135	0.00186	0.002	0.002	0.0048	0.00465	2.54E-02	8.59E-03	1.41E-07	6.55E-05	4.76E-04	1.86E-04	3.42E-02	3.16E-02	3.73E-02
3753	487863.09	3851877.25	0.00344	0.00422	0.00143	0.0018	0.002	0.002	0.0044	0.00422	2.40E-02	7.79E-03	1.49E-07	6.34E-05	4.86E-04	1.86E-04	3.10E-02	2.87E-02	3.49E-02
3754	488363.09	3851877.25	0.00347	0.00401	0.00157	0.00183	0.002	0.002	0.0042	0.00401	2.42E-02	7.41E-03	1.63E-07	6.44E-05	4.86E-04	1.92E-04	2.96E-02	2.73E-02	3.47E-02
3755	488863.09	3851877.25	0.00339	0.00374	0.00158	0.00186	0.001	0.002	0.0039	0.00374	2.36E-02	6.91E-03	1.64E-07	6.55E-05	4.67E-04	1.93E-04	2.77E-02	2.54E-02	3.35E-02
3756	489363.09	3851877.25	0.00332	0.00351	0.0016	0.00187	0.002	0.002	0.0037	0.00351	2.31E-02	6.48E-03	1.67E-07	6.58E-05	5.08E-04	1.93E-04	2.60E-02	2.39E-02	3.25E-02
3757	489863.09	3851877.25	0.0033	0.00333	0.00164	0.00188	0.002	0.002	0.0035	0.00333	2.30E-02	6.15E-03	1.71E-07	6.62E-05	5.08E-04	1.95E-04	2.47E-02	2.26E-02	3.20E-02
3758	490363.09	3851877.25	0.00334	0.0032	0.00172	0.00191	0.002	0.002	0.0034	0.0032	2.33E-02	5.91E-03	1.79E-07	6.72E-05	4.86E-04	1.96E-04	2.39E-02	2.18E-02	3.21E-02
3759	490863.09	3851877.25	0.0034	0.00311	0.0018	0.00195	0.002	0.002	0.0033	0.00311	2.37E-02	5.74E-03	1.87E-07	6.86E-05	4.95E-04	2.00E-04	2.32E-02	2.11E-02	3.23E-02
3760	491363.09	3851877.25	0.00346	0.00303	0.00187	0.00198	0.002	0.002	0.0032	0.00303	2.41E-02	5.60E-03	1.95E-07	6.97E-05	5.08E-04	2.04E-04	2.27E-02	2.06E-02	3.26E-02
3761	491863.09	3851877.25	0.0035	0.00295	0.00188	0.00201	0.002	0.002	0.0031	0.00295	2.44E-02	5.45E-03	1.96E-07	7.07E-05	5.61E-04	2.07E-04	2.21E-02	2.01E-02	3.27E-02
3762	492363.09	3851877.25	0.00344	0.00281	0.00186	0.00199	0.002	0.002	0.003	0.00281	2.40E-02	5.19E-03	1.94E-07	7.00E-05	6.30E-04	2.06E-04	2.11E-02	1.91E-02	3.21E-02
3763	492863.09	3851877.25	0.00321	0.00253	0.00183	0.00188	0.002	0.002	0.0027	0.00253	2.24E-02	4.67E-03	1.91E-07	6.62E-05	6.24E-04	1.97E-04	1.89E-02	1.72E-02	2.97E-02
3764	493363.09	3851877.25	0.00349	0.00267	0.00193	0.00203	0.002	0.002	0.0028	0.00267	2.43E-02	4.93E-03	2.01E-07	7.14E-05	6.77E-04	2.11E-04	2.01E-02	1.82E-02	3.21E-02
3765	493863.09	3851877.25	0.00382	0.00279	0.00204	0.00214	0.002	0.002	0.003	0.00279	2.66E-02	5.15E-03	2.12E-07	7.53E-05	6.83E-04	2.25E-04	2.10E-02	1.90E-02	3.48E-02
3766	494363.09	3851877.25	0.00375	0.00268	0.00201	0.00211	0.002	0.002	0.0029	0.00268	2.61E-02	4.95E-03	2.09E-07	7.43E-05	6.74E-04	2.22E-04	2.02E-02	1.82E-02	3.40E-02

3767	494863.09	3851877.25	0.00394	0.00271	0.00207	0.00221	0.002	0.002	0.0029	0.00271	2.75E-02	5.01E-03	2.15E-07	7.78E-05	7.08E-04	2.31E-04	2.05E-02	1.84E-02	3.56E-02
3768	495363.09	3851877.25	0.00405	0.0027	0.00213	0.00226	0.002	0.003	0.0029	0.0027	2.82E-02	4.99E-03	2.22E-07	7.95E-05	7.58E-04	2.36E-04	2.05E-02	1.84E-02	3.64E-02
3769	495863.09	3851877.25	0.00409	0.00268	0.00215	0.00235	0.003	0.003	0.0029	0.00268	2.85E-02	4.95E-03	2.24E-07	8.27E-05	8.18E-04	2.38E-04	2.03E-02	1.82E-02	3.66E-02
3770	496363.09	3851877.25	0.00405	0.00261	0.00215	0.00238	0.003	0.003	0.0028	0.00261	2.82E-02	4.82E-03	2.24E-07	8.38E-05	8.59E-04	2.35E-04	1.98E-02	1.77E-02	3.63E-02
3771	496863.09	3851877.25	0.00399	0.00253	0.00214	0.0024	0.003	0.002	0.0027	0.00253	2.78E-02	4.67E-03	2.23E-07	8.45E-05	8.90E-04	2.33E-04	1.92E-02	1.72E-02	3.57E-02
3772	497363.09	3851877.25	0.00391	0.00246	0.00212	0.00236	0.003	0.002	0.0026	0.00246	2.73E-02	4.54E-03	2.21E-07	8.31E-05	9.21E-04	2.31E-04	1.86E-02	1.67E-02	3.49E-02
3773	497863.09	3851877.25	0.00374	0.00235	0.00204	0.00227	0.003	0.002	0.0025	0.00235	2.61E-02	4.34E-03	2.12E-07	7.99E-05	9.46E-04	2.26E-04	1.77E-02	1.60E-02	3.34E-02
3774	498363.09	3851877.25	0.00361	0.00225	0.00198	0.00222	0.003	0.002	0.0024	0.00225	2.52E-02	4.16E-03	2.06E-07	7.81E-05	9.74E-04	2.22E-04	1.69E-02	1.53E-02	3.22E-02
3775	471363.09	3852377.25	0.00165	0.00149	0.0007	0.001	0.001	0.001	0.0015	0.00149	1.15E-02	2.75E-03	7.29E-08	3.52E-05	4.17E-04	1.03E-04	1.07E-02	1.01E-02	1.54E-02
3776	471863.09	3852377.25	0.00171	0.00162	0.00074	0.00105	0.001	0.001	0.0016	0.00162	1.19E-02	2.99E-03	7.70E-08	3.70E-05	4.29E-04	1.08E-04	1.16E-02	1.10E-02	1.61E-02
3777	472363.09	3852377.25	0.00177	0.00172	0.00077	0.00109	0.001	0.001	0.0017	0.00172	1.23E-02	3.18E-03	8.02E-08	3.84E-05	4.36E-04	1.12E-04	1.23E-02	1.17E-02	1.67E-02
3778	472863.09	3852377.25	0.00183	0.00181	0.0008	0.00115	0.001	0.001	0.0018	0.00181	1.28E-02	3.34E-03	8.33E-08	4.05E-05	4.45E-04	1.17E-04	1.30E-02	1.23E-02	1.74E-02
3779	473363.09	3852377.25	0.00188	0.00188	0.00084	0.0012	0.001	0.001	0.0019	0.00188	1.31E-02	3.47E-03	8.74E-08	4.22E-05	4.57E-04	1.22E-04	1.35E-02	1.28E-02	1.80E-02
3780	473863.09	3852377.25	0.00193	0.00191	0.00086	0.00124	0.002	0.001	0.002	0.00191	1.35E-02	3.53E-03	8.95E-08	4.36E-05	4.73E-04	1.25E-04	1.38E-02	1.30E-02	1.85E-02
3781	474363.09	3852377.25	0.00198	0.00196	0.00087	0.00128	0.002	0.001	0.002	0.00196	1.38E-02	3.62E-03	9.06E-08	4.51E-05	4.86E-04	1.28E-04	1.42E-02	1.33E-02	1.90E-02
3782	474863.09	3852377.25	0.00209	0.00232	0.00092	0.00136	0.002	0.001	0.0024	0.00232	1.46E-02	4.28E-03	9.58E-08	4.79E-05	5.14E-04	1.35E-04	1.69E-02	1.58E-02	2.06E-02
3783	475363.09	3852377.25	0.00216	0.00242	0.00094	0.00138	0.002	0.001	0.0025	0.00242	1.51E-02	4.47E-03	9.79E-08	4.86E-05	5.36E-04	1.39E-04	1.76E-02	1.65E-02	2.14E-02
3784	475863.09	3852377.25	0.00223	0.00251	0.00097	0.0014	0.002	0.002	0.0026	0.00251	1.55E-02	4.64E-03	1.01E-07	4.93E-05	5.58E-04	1.42E-04	1.84E-02	1.71E-02	2.22E-02
3785	476363.09	3852377.25	0.00231	0.00259	0.00102	0.00141	0.002	0.002	0.0027	0.00259	1.61E-02	4.78E-03	1.06E-07	4.96E-05	5.70E-04	1.46E-04	1.88E-02	1.76E-02	2.29E-02
3786	476863.09	3852377.25	0.00242	0.00283	0.00109	0.00145	0.002	0.002	0.0029	0.00283	1.69E-02	5.23E-03	1.13E-07	5.10E-05	5.64E-04	1.49E-04	2.05E-02	1.92E-02	2.41E-02
3787	477363.09	3852377.25	0.00252	0.00296	0.00111	0.00148	0.002	0.002	0.003	0.00296	1.76E-02	5.47E-03	1.16E-07	5.21E-05	5.39E-04	1.53E-04	2.14E-02	2.01E-02	2.51E-02
3788	477863.09	3852377.25	0.00257	0.00279	0.00107	0.00149	0.002	0.002	0.0029	0.00279	1.79E-02	5.15E-03	1.11E-07	5.24E-05	5.11E-04	1.53E-04	2.03E-02	1.90E-02	2.51E-02
3789	478363.09	3852377.25	0.00261	0.00275	0.00106	0.00152	0.002	0.002	0.0028	0.00275	1.82E-02	5.08E-03	1.10E-07	5.35E-05	5.23E-04	1.55E-04	2.01E-02	1.87E-02	2.54E-02
3790	478863.09	3852377.25	0.00282	0.00337	0.00117	0.00164	0.002	0.002	0.0035	0.00337	1.97E-02	6.22E-03	1.22E-07	5.77E-05	5.83E-04	1.64E-04	2.47E-02	2.29E-02	2.84E-02
3791	479363.09	3852377.25	0.00298	0.00391	0.00117	0.00172	0.002	0.002	0.004	0.00391	2.08E-02	7.22E-03	1.22E-07	6.05E-05	6.24E-04	1.74E-04	2.86E-02	2.66E-02	3.09E-02
3792	479863.09	3852377.25	0.00307	0.00517	0.00126	0.00184	0.002	0.002	0.0053	0.00517	2.14E-02	9.55E-03	1.31E-07	6.48E-05	6.55E-04	1.90E-04	3.77E-02	3.52E-02	3.44E-02
3793	480363.09	3852377.25	0.00318	0.00671	0.00146	0.00196	0.002	0.002	0.0068	0.00671	2.22E-02	1.24E-02	1.52E-07	6.90E-05	6.39E-04	1.99E-04	4.84E-02	4.56E-02	3.82E-02
3794	480863.09	3852377.25	0.00353	0.00872	0.00132	0.00197	0.002	0.002	0.0089	0.00872	2.46E-02	1.61E-02	1.37E-07	6.93E-05	6.20E-04	2.15E-04	6.30E-02	5.93E-02	4.53E-02
3795	481363.09	3852377.25	0.0044	0.01423	0.00133	0.0021	0.002	0.002	0.0144	0.01423	3.07E-02	2.63E-02	1.38E-07	7.39E-05	6.24E-04	2.25E-04	1.02E-01	9.68E-02	6.34E-02
3796	481863.09	3852377.25	0.01324	0.08108	0.00153	0.00219	0.002	0.003	0.0824	0.08108	9.23E-02	1.50E-01	1.59E-07	7.71E-05	6.42E-04	2.41E-04	5.84E-01	5.51E-01	2.76E-01
3797	482363.09	3852377.25	0.0103	0.04522	0.00174	0.00221	0.002	0.003	0.0455	0.04522	7.18E-02	8.35E-02	1.81E-07	7.78E-05	6.30E-04	2.57E-04	3.22E-01	3.07E-01	1.71E-01
3798	482863.09	3852377.25	0.00697	0.01914	0.0018	0.00242	0.002	0.003	0.0196	0.01914	4.86E-02	3.54E-02	1.87E-07	8.52E-05	5.83E-04	2.43E-04	1.39E-01	1.30E-01	9.35E-02
3799	483363.09	3852377.25	0.006	0.01175	0.00143	0.00231	0.002	0.002	0.0121	0.01175	4.18E-02	2.17E-02	1.49E-07	8.13E-05	6.80E-04	2.17E-04	8.59E-02	7.99E-02	7.05E-02
3800	483863.09	3852377.25	0.00526	0.00905	0.00144	0.00211	0.002	0.002	0.0094	0.00905	3.67E-02	1.67E-02	1.50E-07	7.43E-05	6.39E-04	2.04E-04	6.63E-02	6.15E-02	5.91E-02
3801	484363.09	3852377.25	0.00511	0.00827	0.00129	0.00221	0.002	0.002	0.0086	0.00827	3.56E-02	1.53E-02	1.34E-07	7.78E-05	5.26E-04	2.24E-04	6.10E-02	5.62E-02	5.65E-02
3802	484863.09	3852377.25	0.00498	0.00756	0.00133	0.00233	0.002	0.003	0.0079	0.00756	3.47E-02	1.40E-02	1.38E-07	8.20E-05	6.80E-04	2.35E-04	5.59E-02	5.14E-02	5.42E-02
3803	485363.09	3852377.25	0.00494	0.00696	0.00159	0.0024	0.002	0.003	0.0073	0.00696	3.44E-02	1.29E-02	1.66E-07	8.45E-05	7.11E-04	2.47E-04	5.17E-02	4.73E-02	5.27E-02
3804	485863.09	3852377.25	0.00487	0.00616	0.0017	0.0024	0.002	0.003	0.0065	0.00616	3.40E-02	1.14E-02	1.77E-07	8.45E-05	6.74E-04	2.45E-04	4.60E-02	4.19E-02	5.04E-02
3805	486363.09	3852377.25	0.00469	0.00539	0.00151	0.00232	0.003	0.003	0.0057	0.00539	3.27E-02	9.95E-03	1.57E-07	8.17E-05	8.21E-04	2.38E-04	4.02E-02	3.67E-02	4.73E-02
3806	486863.09	3852377.25	0.00455	0.00496	0.00162	0.00236	0.002	0.003	0.0052	0.00496	3.17E-02	9.16E-03	1.69E-07	8.31E-05	7.36E-04	2.40E-04	3.71E-02	3.37E-02	4.53E-02
3807	487363.09	3852377.25	0.00435	0.00452	0.0018	0.00232	0.002	0.003	0.0048	0.00452	3.03E-02	8.35E-03	1.87E-07	8.17E-05	5.39E-04	2.36E-04	3.39E-02	3.07E-02	4.27E-02
3808	487863.09	3852377.25	0.00415	0.00415	0.00192	0.00228	0.002	0.003	0.0044	0.00415	2.89E-02	7.66E-03	2.00E-07	8.02E-05	5.45E-04	2.35E-04	3.12E-02	2.82E-02	4.04E-02
3809	488363.09	3852377.25	0.00399	0.00383	0.00196	0.00226	0.002	0.002	0.0041	0.00383	2.78E-02	7.07E-03	2.04E-07	7.95E-05	5.39E-04	2.33E-04	2.88E-02	2.60E-02	3.85E-02
3810	488863.09	3852377.25	0.00383	0.00353	0.00197	0.00223	0.002	0.002	0.0038	0.00353	2.67E-02	6.52E-03	2.05E-07	7.85E-05	5.30E-04	2.30E-04	2.66E-02	2.40E-02	3.66E-02
3811	489363.09	3852377.25	0.00374	0.00331	0.00202	0.00222	0.002	0.002	0.0035	0.00331	2.61E-02	6.11E-03	2.10E-07	7.81E-05	5.61E-04	2.28E-04	2.49E-02	2.25E-02	3.55E-02
3812	489863.09	3852377.25	0.00358	0.00305	0.00201	0.00219	0.002	0.002	0.0033	0.00305	2.50E-02	5.63E-03	2.09E-07	7.71E-05	5.30E-04	2.23E-04	2.31E-02	2.07E-02	3.38E-02
3813	490363.09	3852377.25	0.00378	0.00307	0.0021	0.00227	0.002	0.002	0.0033	0.00307	2.64E-02	5.67E-03	2.19E-07	7.99E-05	5.36E-04	2.29E-04	2.33E-02	2.09E-02	3.53E-02
3814	490863.09	3852377.25	0.00393	0.00306	0.00218	0.00233	0.002	0.003	0.0033	0.00306	2.74E-02	5.65E-03	2.27E-07	8.20E-05	5.58E-04	2.35E-04	2.33E-02	2.08E-02	3.64E-02
3815	491363.09	3852377.25	0.00428	0.00317	0.00228	0.00248	0.002	0.003	0.0034	0.00317	2.98E-02	5.85E-03	2.37E-07	8.73E-05	6.17E-04	2.49E-04	2.42E-02	2.16E-02	3.93E-02
3816	491863.09	3852377.25	0.00434	0.0031	0.00231	0.00249	0.002	0.003	0.0034	0.0031	3.03E-02	5.73E-03	2.40E-07	8.76E-05	7.24E-04	2.52E-04	2.37E-02	2.11E-02	3.97E-02
3817	492363.09	3852377.25	0.00436	0.00302	0.00233	0.0025	0.003	0.003	0.0033	0.00302	3.04E-02	5.58E-03	2.43E-07	8.80E-05	7.90E-04	2.54E-04	2.31E-02	2.05E-02	3.97E-02
3818	492863.09	3852377.25	0.00449	0.003	0.00241	0.00256	0.003	0.003	0.0033	0.003	3.13E-02	5.54E-03	2.51E-07	9.01E-05	8.08E-04	2.60E-04	2.30E-02	2.04E-02	4.06E-02
3819	493363.09	3852377.25	0.00471	0.00304	0.00249	0.00268	0.003	0.003	0.0033	0.00304	3.28E-02	5.61E-03	2.59E-07	9.43E-05	8.02E-04	2.72E-04	2.35E-02	2.07E-02	4.24E-02
3820	493863.09	3852377.25	0.00467	0.00295	0.00247	0.00264	0.003	0.003	0.0032	0.00295	3.26E-02	5.45E-03	2.57E-07	9.29E-05	7.86E-04	2.70E-04	2.27E-02	2.01E-02	4.18E-02
3821	494363.09	3852377.25	0.00463	0.00287	0.00246	0.00264	0.003	0.003	0.0031	0.00287	3.23E-02	5.30E-03	2.56E-07	9.29E-05	8.21E-04	2.69E-04	2.20E-02	1.95E-02	4.13E-02
3822	494863.09	3852377.25	0.00474	0.00287	0.00247	0.00268	0.003	0.003	0.0031	0.00287	3.30E-02	5.30E-03	2.57E-07	9.43E-05	8.93E-04	2.74E-04	2.21E-02	1.95E-02	4.22E-02
3823	495363.09	3852377.25	0.00483	0.00286	0.0025	0.00278	0.003	0.003	0.0031	0.00286	3.37E-02	5.28E-03	2.60E-07	9.78E-05	9.74E-04	2.79E-04	2.21E-02	1.94E-02	4.30E-02
3824	495863.09	3852377.25	0.00471	0.00277	0.00246	0.00278	0.003	0.003	0.003	0.00277	3.28E-02	5.12E-03	2.56E-07	9.78E-05	1.02E-03	2.74E-04	2.13E-02	1.88E-02	4.18E-02

3825	496363.09	3852377.25	0.00459	0.00267	0.00243	0.00278	0.003	0.003	0.0029	0.00267	3.20E-02	4.93E-03	2.53E-07	9.78E-05	1.05E-03	2.67E-04	2.05E-02	1.82E-02	4.07E-02
3826	496863.09	3852377.25	0.00449	0.0026	0.00238	0.00272	0.003	0.003	0.0028	0.0026	3.13E-02	4.80E-03	2.48E-07	9.57E-05	1.09E-03	2.64E-04	1.99E-02	1.77E-02	3.98E-02
3827	497363.09	3852377.25	0.00427	0.00247	0.00226	0.00258	0.004	0.003	0.0027	0.00247	2.98E-02	4.56E-03	2.35E-07	9.08E-05	1.11E-03	2.55E-04	1.88E-02	1.68E-02	3.78E-02
3828	497863.09	3852377.25	0.00401	0.00233	0.00217	0.00248	0.004	0.003	0.0025	0.00233	2.80E-02	4.30E-03	2.26E-07	8.73E-05	1.13E-03	2.45E-04	1.76E-02	1.58E-02	3.55E-02
3829	498363.09	3852377.25	0.00379	0.00221	0.00212	0.00241	0.004	0.003	0.0023	0.00221	2.64E-02	4.08E-03	2.21E-07	8.48E-05	1.15E-03	2.39E-04	1.66E-02	1.50E-02	3.35E-02
3830	471363.09	3852877.25	0.0017	0.00145	0.0007	0.00101	0.002	0.001	0.0015	0.00145	1.19E-02	2.68E-03	7.29E-08	3.55E-05	5.11E-04	1.06E-04	1.04E-02	9.86E-03	1.57E-02
3831	471863.09	3852877.25	0.00177	0.00154	0.00074	0.00106	0.002	0.001	0.0016	0.00154	1.23E-02	2.84E-03	7.70E-08	3.73E-05	5.08E-04	1.10E-04	1.11E-02	1.05E-02	1.64E-02
3832	472363.09	3852877.25	0.00183	0.00162	0.00077	0.0011	0.002	0.001	0.0016	0.00162	1.28E-02	2.99E-03	8.02E-08	3.87E-05	5.01E-04	1.15E-04	1.16E-02	1.10E-02	1.70E-02
3833	472863.09	3852877.25	0.00189	0.00169	0.00081	0.00115	0.002	0.001	0.0017	0.00169	1.32E-02	3.12E-03	8.43E-08	4.05E-05	4.92E-04	1.18E-04	1.21E-02	1.15E-02	1.76E-02
3834	473363.09	3852877.25	0.00196	0.00178	0.00086	0.0012	0.002	0.001	0.0018	0.00178	1.37E-02	3.29E-03	8.95E-08	4.22E-05	4.89E-04	1.23E-04	1.28E-02	1.21E-02	1.83E-02
3835	473863.09	3852877.25	0.00203	0.00189	0.00092	0.00127	0.002	0.001	0.0019	0.00189	1.42E-02	3.49E-03	9.58E-08	4.47E-05	4.92E-04	1.30E-04	1.36E-02	1.29E-02	1.91E-02
3836	474363.09	3852877.25	0.00212	0.00201	0.00097	0.00133	0.002	0.001	0.002	0.00201	1.48E-02	3.71E-03	1.01E-07	4.68E-05	5.08E-04	1.36E-04	1.44E-02	1.37E-02	1.99E-02
3837	474863.09	3852877.25	0.00217	0.00197	0.00098	0.00136	0.002	0.001	0.002	0.00197	1.51E-02	3.64E-03	1.02E-07	4.79E-05	5.17E-04	1.38E-04	1.42E-02	1.34E-02	2.02E-02
3838	475363.09	3852877.25	0.00227	0.00212	0.00102	0.00142	0.002	0.002	0.0022	0.00212	1.58E-02	3.92E-03	1.06E-07	5.00E-05	5.39E-04	1.44E-04	1.53E-02	1.44E-02	2.14E-02
3839	475863.09	3852877.25	0.00235	0.00219	0.00104	0.00147	0.002	0.002	0.0022	0.00219	1.64E-02	4.04E-03	1.08E-07	5.17E-05	5.58E-04	1.48E-04	1.59E-02	1.49E-02	2.22E-02
3840	476363.09	3852877.25	0.00241	0.00218	0.00104	0.00149	0.002	0.002	0.0023	0.00218	1.68E-02	4.03E-03	1.08E-07	5.24E-05	5.77E-04	1.49E-04	1.59E-02	1.48E-02	2.27E-02
3841	476863.09	3852877.25	0.00243	0.00214	0.00103	0.0015	0.002	0.002	0.0022	0.00214	1.69E-02	3.95E-03	1.07E-07	5.28E-05	5.92E-04	1.50E-04	1.57E-02	1.46E-02	2.28E-02
3842	477363.09	3852877.25	0.00245	0.00212	0.00106	0.0015	0.002	0.002	0.0022	0.00212	1.71E-02	3.92E-03	1.10E-07	5.28E-05	6.08E-04	1.52E-04	1.55E-02	1.44E-02	2.29E-02
3843	477863.09	3852877.25	0.00246	0.00208	0.00107	0.00149	0.002	0.002	0.0021	0.00208	1.72E-02	3.84E-03	1.11E-07	5.24E-05	6.02E-04	1.54E-04	1.51E-02	1.41E-02	2.27E-02
3844	478363.09	3852877.25	0.00236	0.00195	0.00107	0.00147	0.002	0.002	0.002	0.00195	1.65E-02	3.60E-03	1.11E-07	5.17E-05	5.58E-04	1.56E-04	1.41E-02	1.33E-02	2.17E-02
3845	478863.09	3852877.25	0.00256	0.00219	0.00112	0.00158	0.002	0.002	0.0023	0.00219	1.78E-02	4.04E-03	1.17E-07	5.56E-05	5.48E-04	1.65E-04	1.59E-02	1.49E-02	2.37E-02
3846	479363.09	3852877.25	0.00293	0.00265	0.00122	0.00174	0.002	0.002	0.0028	0.00265	2.04E-02	4.89E-03	1.27E-07	6.12E-05	5.86E-04	1.80E-04	1.95E-02	1.80E-02	2.76E-02
3847	479863.09	3852877.25	0.00339	0.00364	0.00146	0.00203	0.002	0.002	0.0038	0.00364	2.36E-02	6.72E-03	1.52E-07	7.14E-05	6.74E-04	2.07E-04	2.70E-02	2.48E-02	3.36E-02
3848	480363.09	3852877.25	0.00351	0.00504	0.0016	0.00226	0.002	0.003	0.0052	0.00504	2.45E-02	9.31E-03	1.67E-07	7.95E-05	7.24E-04	2.40E-04	3.71E-02	3.43E-02	3.76E-02
3849	480863.09	3852877.25	0.00379	0.00627	0.00179	0.00237	0.002	0.003	0.0064	0.00627	2.64E-02	1.16E-02	1.86E-07	8.34E-05	7.36E-04	2.50E-04	4.56E-02	4.26E-02	4.20E-02
3850	481363.09	3852877.25	0.00427	0.0085	0.00168	0.00255	0.002	0.003	0.0087	0.0085	2.98E-02	1.57E-02	1.75E-07	8.98E-05	7.14E-04	2.88E-04	6.14E-02	5.78E-02	5.02E-02
3851	481863.09	3852877.25	0.00547	0.01425	0.00181	0.0027	0.002	0.003	0.0145	0.01425	3.81E-02	2.63E-02	1.88E-07	9.50E-05	7.08E-04	3.12E-04	1.03E-01	9.69E-02	7.13E-02
3852	482363.09	3852877.25	0.01768	0.09772	0.00202	0.00295	0.002	0.004	0.0995	0.09772	1.23E-01	1.80E-01	2.10E-07	1.04E-04	7.27E-04	3.56E-04	7.05E-01	6.64E-01	3.46E-01
3853	482863.09	3852877.25	0.012	0.04194	0.00261	0.00317	0.002	0.004	0.0427	0.04194	8.37E-02	7.75E-02	2.72E-07	1.12E-04	7.24E-04	3.52E-04	3.03E-01	2.85E-01	1.80E-01
3854	483363.09	3852877.25	0.00842	0.01754	0.00185	0.0033	0.002	0.004	0.0182	0.01754	5.87E-02	3.24E-02	1.93E-07	1.16E-04	6.77E-04	3.31E-04	1.29E-01	1.19E-01	1.02E-01
3855	483863.09	3852877.25	0.0074	0.01013	0.00186	0.00298	0.003	0.003	0.0107	0.01013	5.16E-02	1.87E-02	1.94E-07	1.05E-04	7.90E-04	2.98E-04	7.55E-02	6.89E-02	7.81E-02
3856	484363.09	3852877.25	0.00684	0.00907	0.00173	0.00324	0.002	0.003	0.0097	0.00907	4.77E-02	1.68E-02	1.80E-07	1.14E-04	7.30E-04	3.27E-04	6.84E-02	6.17E-02	7.24E-02
3857	484863.09	3852877.25	0.00658	0.00814	0.00179	0.0034	0.002	0.004	0.0087	0.00814	4.59E-02	1.50E-02	1.86E-07	1.20E-04	6.77E-04	3.54E-04	6.19E-02	5.54E-02	6.86E-02
3858	485363.09	3852877.25	0.00629	0.00642	0.00208	0.00311	0.002	0.004	0.0069	0.00642	4.39E-02	1.19E-02	2.17E-07	1.09E-04	7.71E-04	3.32E-04	4.90E-02	4.37E-02	6.23E-02
3859	485863.09	3852877.25	0.00603	0.00563	0.00203	0.00312	0.002	0.003	0.0061	0.00563	4.20E-02	1.04E-02	2.11E-07	1.10E-04	7.24E-04	3.28E-04	4.32E-02	3.83E-02	5.85E-02
3860	486363.09	3852877.25	0.0057	0.005	0.00213	0.00304	0.003	0.003	0.0054	0.005	3.97E-02	9.23E-03	2.22E-07	1.07E-04	8.43E-04	3.17E-04	3.84E-02	3.40E-02	5.46E-02
3861	486863.09	3852877.25	0.00551	0.00462	0.00226	0.00307	0.003	0.003	0.005	0.00462	3.84E-02	8.53E-03	2.35E-07	1.08E-04	8.08E-04	3.13E-04	3.57E-02	3.14E-02	5.25E-02
3862	487363.09	3852877.25	0.00517	0.00422	0.00242	0.00301	0.002	0.003	0.0046	0.00422	3.60E-02	7.79E-03	2.52E-07	1.06E-04	6.11E-04	3.04E-04	3.27E-02	2.87E-02	4.88E-02
3863	487863.09	3852877.25	0.00495	0.00392	0.00258	0.00295	0.002	0.003	0.0043	0.00392	3.45E-02	7.24E-03	2.69E-07	1.04E-04	6.11E-04	2.99E-04	3.04E-02	2.67E-02	4.65E-02
3864	488363.09	3852877.25	0.00418	0.00328	0.00248	0.00266	0.002	0.003	0.0036	0.00328	2.91E-02	6.06E-03	2.58E-07	9.36E-05	5.80E-04	2.72E-04	2.54E-02	2.23E-02	3.92E-02
3865	488863.09	3852877.25	0.00436	0.00327	0.00247	0.00274	0.002	0.003	0.0036	0.00327	3.04E-02	6.04E-03	2.57E-07	9.64E-05	6.08E-04	2.76E-04	2.54E-02	2.22E-02	4.05E-02
3866	489363.09	3852877.25	0.00441	0.00318	0.0025	0.00276	0.002	0.003	0.0035	0.00318	3.07E-02	5.87E-03	2.60E-07	9.71E-05	6.27E-04	2.75E-04	2.47E-02	2.16E-02	4.07E-02
3867	489863.09	3852877.25	0.00443	0.00309	0.00255	0.00277	0.002	0.003	0.0034	0.00309	3.09E-02	5.71E-03	2.65E-07	9.75E-05	6.02E-04	2.74E-04	2.40E-02	2.10E-02	4.06E-02
3868	490363.09	3852877.25	0.00504	0.00332	0.00272	0.00303	0.002	0.003	0.0037	0.00332	3.51E-02	6.13E-03	2.83E-07	1.07E-04	6.39E-04	2.96E-04	2.60E-02	2.26E-02	4.57E-02
3869	490863.09	3852877.25	0.00527	0.00333	0.00283	0.00312	0.002	0.003	0.0037	0.00333	3.67E-02	6.15E-03	2.95E-07	1.10E-04	6.89E-04	3.05E-04	2.62E-02	2.26E-02	4.76E-02
3870	491363.09	3852877.25	0.00544	0.00333	0.00294	0.0032	0.003	0.003	0.0037	0.00333	3.79E-02	6.15E-03	3.06E-07	1.13E-04	8.27E-04	3.11E-04	2.63E-02	2.26E-02	4.90E-02
3871	491863.09	3852877.25	0.00547	0.00327	0.00299	0.00317	0.003	0.003	0.0036	0.00327	3.81E-02	6.04E-03	3.11E-07	1.12E-04	9.40E-04	3.13E-04	2.58E-02	2.22E-02	4.91E-02
3872	492363.09	3852877.25	0.00554	0.00323	0.00302	0.00318	0.003	0.003	0.0036	0.00323	3.86E-02	5.97E-03	3.14E-07	1.12E-04	9.68E-04	3.16E-04	2.55E-02	2.20E-02	4.95E-02
3873	492863.09	3852877.25	0.00571	0.00324	0.00297	0.00328	0.003	0.003	0.0036	0.00324	3.98E-02	5.98E-03	3.09E-07	1.15E-04	9.56E-04	3.24E-04	2.56E-02	2.20E-02	5.08E-02
3874	493363.09	3852877.25	0.00578	0.00322	0.00294	0.00331	0.003	0.003	0.0036	0.00322	4.03E-02	5.95E-03	3.06E-07	1.16E-04	9.68E-04	3.28E-04	2.55E-02	2.19E-02	5.13E-02
3875	493863.09	3852877.25	0.00571	0.00313	0.00292	0.00328	0.003	0.003	0.0035	0.00313	3.98E-02	5.78E-03	3.04E-07	1.15E-04	1.02E-03	3.25E-04	2.47E-02	2.13E-02	5.05E-02
3876	494363.09	3852877.25	0.00566	0.00306	0.00287	0.00324	0.004	0.003	0.0034	0.00306	3.95E-02	5.65E-03	2.99E-07	1.14E-04	1.10E-03	3.23E-04	2.41E-02	2.08E-02	4.99E-02
3877	494863.09	3852877.25	0.00565	0.00301	0.00287	0.00326	0.004	0.003	0.0033	0.00301	3.94E-02	5.56E-03	2.99E-07	1.15E-04	1.18E-03	3.23E-04	2.37E-02	2.05E-02	4.98E-02
3878	495363.09	3852877.25	0.00545	0.0029	0.00282	0.00322	0.004	0.003	0.0032	0.0029	3.80E-02	5.36E-03	2.94E-07	1.13E-04	1.21E-03	3.15E-04	2.27E-02	1.97E-02	4.79E-02
3879	495863.09	3852877.25	0.00526	0.00279	0.00278	0.00321	0.004	0.003	0.0031	0.00279	3.67E-02	5.15E-03	2.89E-07	1.13E-04	1.25E-03	3.06E-04	2.17E-02	1.90E-02	4.62E-02
3880	496363.09	3852877.25	0.00517	0.00273	0.00273	0.00314	0.004	0.003	0.003	0.00273	3.60E-02	5.04E-03	2.84E-07	1.11E-04	1.31E-03	3.02E-04	2.12E-02	1.86E-02	4.54E-02
3881	496863.09	3852877.25	0.00503	0.00265	0.00266	0.00303	0.004	0.003	0.0029	0.00265	3.51E-02	4.89E-03	2.77E-07	1.07E-04	1.38E-03	2.96E-04	2.05E-02	1.80E-02	4.42E-02
3882	497363.09	3852877.25	0.00462	0.00247	0.00249	0.00285	0.004	0.003	0.0027	0.00247	3.22E-02	4.56E-03	2.59E-07	1.00E-04	1.37E-03	2.79E-04	1.88E-02	1.68E-02	4.06E-02

3883	497863.09	3852877.25	0.00398	0.00219	0.00231	0.00259	0.004	0.003	0.0023	0.00219	2.77E-02	4.04E-03	2.40E-07	9.12E-05	1.29E-03	2.56E-04	1.64E-02	1.49E-02	3.49E-02
3884	498363.09	3852877.25	0.00386	0.00212	0.00226	0.00257	0.004	0.003	0.0022	0.00212	2.69E-02	3.92E-03	2.35E-07	9.05E-05	1.28E-03	2.53E-04	1.58E-02	1.44E-02	3.38E-02
3885	471363.09	3853377.25	0.00173	0.0014	0.00068	0.00102	0.002	0.001	0.0014	0.0014	1.21E-02	2.59E-03	7.08E-08	3.59E-05	5.08E-04	1.06E-04	1.01E-02	9.52E-03	1.58E-02
3886	471863.09	3853377.25	0.0018	0.00147	0.00071	0.00107	0.002	0.001	0.0015	0.00147	1.25E-02	2.71E-03	7.39E-08	3.77E-05	5.42E-04	1.11E-04	1.06E-02	1.00E-02	1.65E-02
3887	472363.09	3853377.25	0.00187	0.00153	0.00075	0.00112	0.002	0.001	0.0016	0.00153	1.30E-02	2.83E-03	7.81E-08	3.94E-05	5.70E-04	1.16E-04	1.11E-02	1.04E-02	1.72E-02
3888	472863.09	3853377.25	0.00194	0.0016	0.00079	0.00116	0.002	0.001	0.0016	0.0016	1.35E-02	2.96E-03	8.22E-08	4.08E-05	5.86E-04	1.20E-04	1.15E-02	1.09E-02	1.78E-02
3889	473363.09	3853377.25	0.00201	0.00166	0.00084	0.00121	0.002	0.001	0.0017	0.00166	1.40E-02	3.07E-03	8.74E-08	4.26E-05	5.86E-04	1.25E-04	1.19E-02	1.13E-02	1.84E-02
3890	473863.09	3853377.25	0.00208	0.00172	0.00088	0.00126	0.002	0.001	0.0018	0.00172	1.45E-02	3.18E-03	9.16E-08	4.43E-05	5.80E-04	1.30E-04	1.24E-02	1.17E-02	1.91E-02
3891	474363.09	3853377.25	0.00216	0.00178	0.00093	0.00131	0.002	0.001	0.0018	0.00178	1.51E-02	3.29E-03	9.68E-08	4.61E-05	5.67E-04	1.34E-04	1.28E-02	1.21E-02	1.97E-02
3892	474863.09	3853377.25	0.00223	0.00178	0.00096	0.00134	0.002	0.001	0.0018	0.00178	1.55E-02	3.29E-03	9.99E-08	4.72E-05	5.58E-04	1.38E-04	1.28E-02	1.21E-02	2.03E-02
3893	475363.09	3853377.25	0.00232	0.00183	0.00099	0.00138	0.002	0.002	0.0019	0.00183	1.62E-02	3.38E-03	1.03E-07	4.86E-05	5.58E-04	1.43E-04	1.31E-02	1.24E-02	2.10E-02
3894	475863.09	3853377.25	0.0024	0.00188	0.00103	0.00143	0.002	0.002	0.0019	0.00188	1.67E-02	3.47E-03	1.07E-07	5.03E-05	5.67E-04	1.48E-04	1.35E-02	1.28E-02	2.16E-02
3895	476363.09	3853377.25	0.00245	0.00187	0.00106	0.00145	0.002	0.002	0.0019	0.00187	1.71E-02	3.45E-03	1.10E-07	5.10E-05	5.80E-04	1.49E-04	1.33E-02	1.27E-02	2.19E-02
3896	476863.09	3853377.25	0.00239	0.0018	0.00106	0.00144	0.002	0.002	0.0018	0.0018	1.67E-02	3.32E-03	1.10E-07	5.07E-05	5.83E-04	1.49E-04	1.28E-02	1.22E-02	2.14E-02
3897	477363.09	3853377.25	0.00246	0.00184	0.00111	0.00147	0.002	0.002	0.0019	0.00184	1.72E-02	3.40E-03	1.16E-07	5.17E-05	6.02E-04	1.54E-04	1.32E-02	1.25E-02	2.20E-02
3898	477863.09	3853377.25	0.00255	0.00189	0.00116	0.00153	0.002	0.002	0.0019	0.00189	1.78E-02	3.49E-03	1.21E-07	5.39E-05	6.27E-04	1.61E-04	1.36E-02	1.29E-02	2.29E-02
3899	478363.09	3853377.25	0.00254	0.00183	0.0012	0.00153	0.002	0.002	0.0019	0.00183	1.77E-02	3.38E-03	1.25E-07	5.39E-05	6.36E-04	1.64E-04	1.31E-02	1.24E-02	2.26E-02
3900	478863.09	3853377.25	0.00246	0.00176	0.0012	0.00153	0.002	0.002	0.0018	0.00176	1.72E-02	3.25E-03	1.25E-07	5.39E-05	6.20E-04	1.66E-04	1.25E-02	1.20E-02	2.18E-02
3901	479363.09	3853377.25	0.00296	0.00218	0.00136	0.00179	0.002	0.002	0.0022	0.00218	2.06E-02	4.03E-03	1.42E-07	6.30E-05	6.55E-04	1.90E-04	1.57E-02	1.48E-02	2.65E-02
3902	479863.09	3853377.25	0.00356	0.00272	0.00152	0.00207	0.002	0.002	0.0028	0.00272	2.48E-02	5.02E-03	1.58E-07	7.29E-05	6.61E-04	2.16E-04	1.99E-02	1.85E-02	3.22E-02
3903	480363.09	3853377.25	0.00411	0.00375	0.00195	0.00249	0.002	0.003	0.0039	0.00375	2.87E-02	6.93E-03	2.03E-07	8.76E-05	7.24E-04	2.62E-04	2.76E-02	2.55E-02	3.87E-02
3904	480863.09	3853377.25	0.0046	0.00397	0.0019	0.00269	0.003	0.003	0.0042	0.00397	3.21E-02	7.33E-03	1.98E-07	9.47E-05	7.86E-04	2.90E-04	2.98E-02	2.70E-02	4.33E-02
3905	481363.09	3853377.25	0.00513	0.00578	0.0023	0.00316	0.003	0.004	0.006	0.00578	3.58E-02	1.07E-02	2.39E-07	1.11E-04	8.52E-04	3.53E-04	4.24E-02	3.93E-02	5.08E-02
3906	481863.09	3853377.25	0.00626	0.00909	0.00237	0.00364	0.003	0.005	0.0092	0.00909	4.36E-02	1.68E-02	2.47E-07	1.28E-04	8.40E-04	4.68E-04	6.51E-02	6.18E-02	6.52E-02
3907	482363.09	3853377.25	0.00996	0.01786	0.00274	0.00429	0.003	0.006	0.0178	0.01786	6.94E-02	3.30E-02	2.85E-07	1.51E-04	8.24E-04	5.95E-04	1.26E-01	1.21E-01	1.09E-01
3908	482863.09	3853377.25	0.04196	0.11653	0.00383	0.00517	0.003	0.007	0.1279	0.11653	2.93E-01	2.15E-01	3.99E-07	1.82E-04	8.43E-04	6.65E-04	9.06E-01	7.92E-01	6.23E-01
3909	483363.09	3853377.25	0.01455	0.02276	0.0026	0.00562	0.003	0.007	0.0247	0.02276	1.01E-01	4.20E-02	2.71E-07	1.98E-04	8.49E-04	6.56E-04	1.75E-01	1.55E-01	1.65E-01
3910	483863.09	3853377.25	0.01147	0.01336	0.00268	0.00575	0.003	0.007	0.0149	0.01336	8.00E-02	2.47E-02	2.79E-07	2.02E-04	8.05E-04	6.67E-04	1.06E-01	9.08E-02	1.21E-01
3911	484363.09	3853377.25	0.01023	0.01022	0.00263	0.00617	0.003	0.007	0.0117	0.01022	7.13E-02	1.89E-02	2.74E-07	2.17E-04	9.65E-04	6.97E-04	8.28E-02	6.95E-02	1.05E-01
3912	484863.09	3853377.25	0.0098	0.00748	0.00295	0.00583	0.003	0.007	0.0088	0.00748	6.83E-02	1.38E-02	3.07E-07	2.05E-04	8.08E-04	6.14E-04	6.21E-02	5.09E-02	9.50E-02
3913	485363.09	3853377.25	0.0086	0.00575	0.00286	0.00493	0.002	0.005	0.0067	0.00575	6.00E-02	1.06E-02	2.98E-07	1.74E-04	7.52E-04	5.16E-04	4.75E-02	3.91E-02	8.04E-02
3914	485863.09	3853377.25	0.00708	0.00483	0.00308	0.00436	0.002	0.005	0.0056	0.00483	4.94E-02	8.92E-03	3.21E-07	1.53E-04	7.68E-04	4.51E-04	3.96E-02	3.28E-02	6.64E-02
3915	486363.09	3853377.25	0.00708	0.00461	0.00323	0.00439	0.003	0.005	0.0054	0.00461	4.94E-02	8.51E-03	3.36E-07	1.55E-04	8.93E-04	4.43E-04	3.80E-02	3.13E-02	6.60E-02
3916	486863.09	3853377.25	0.00694	0.00436	0.00347	0.00436	0.003	0.005	0.0051	0.00436	4.84E-02	8.05E-03	3.61E-07	1.53E-04	9.27E-04	4.30E-04	3.60E-02	2.96E-02	6.43E-02
3917	487363.09	3853377.25	0.007	0.00424	0.00371	0.00442	0.002	0.005	0.005	0.00424	4.88E-02	7.83E-03	3.86E-07	1.56E-04	7.52E-04	4.24E-04	3.52E-02	2.88E-02	6.43E-02
3918	487863.09	3853377.25	0.00695	0.0041	0.00371	0.00441	0.002	0.004	0.0048	0.0041	4.85E-02	7.57E-03	3.86E-07	1.55E-04	7.27E-04	4.18E-04	3.42E-02	2.79E-02	6.36E-02
3919	488363.09	3853377.25	0.00702	0.00402	0.00376	0.00441	0.002	0.004	0.0047	0.00402	4.89E-02	7.42E-03	3.91E-07	1.55E-04	7.27E-04	4.15E-04	3.35E-02	2.73E-02	6.38E-02
3920	488863.09	3853377.25	0.00696	0.00387	0.00366	0.00433	0.002	0.004	0.0045	0.00387	4.85E-02	7.15E-03	3.81E-07	1.52E-04	7.58E-04	4.05E-04	3.22E-02	2.63E-02	6.28E-02
3921	489363.09	3853377.25	0.00686	0.00374	0.00361	0.00423	0.003	0.004	0.0044	0.00374	4.78E-02	6.91E-03	3.76E-07	1.49E-04	7.90E-04	3.96E-04	3.10E-02	2.54E-02	6.16E-02
3922	489863.09	3853377.25	0.00667	0.00359	0.00356	0.00407	0.002	0.004	0.0042	0.00359	4.65E-02	6.63E-03	3.71E-07	1.43E-04	7.52E-04	3.82E-04	2.95E-02	2.44E-02	5.95E-02
3923	490363.09	3853377.25	0.00681	0.00358	0.00366	0.00412	0.003	0.004	0.0042	0.00358	4.75E-02	6.61E-03	3.81E-07	1.45E-04	8.05E-04	3.84E-04	2.95E-02	2.43E-02	6.06E-02
3924	490863.09	3853377.25	0.00688	0.00354	0.00367	0.00413	0.003	0.004	0.0041	0.00354	4.80E-02	6.54E-03	3.82E-07	1.45E-04	9.49E-04	3.84E-04	2.91E-02	2.41E-02	6.10E-02
3925	491363.09	3853377.25	0.00693	0.00349	0.00369	0.00411	0.004	0.004	0.0041	0.00349	4.83E-02	6.45E-03	3.84E-07	1.45E-04	1.12E-03	3.84E-04	2.87E-02	2.37E-02	6.14E-02
3926	491863.09	3853377.25	0.0069	0.00344	0.00369	0.00403	0.004	0.004	0.004	0.00344	4.81E-02	6.35E-03	3.84E-07	1.42E-04	1.18E-03	3.84E-04	2.81E-02	2.34E-02	6.09E-02
3927	492363.09	3853377.25	0.00696	0.00343	0.00361	0.00403	0.004	0.004	0.004	0.00343	4.85E-02	6.33E-03	3.76E-07	1.42E-04	1.15E-03	3.88E-04	2.80E-02	2.33E-02	6.12E-02
3928	492863.09	3853377.25	0.00698	0.00342	0.00354	0.00407	0.004	0.004	0.0039	0.00342	4.87E-02	6.32E-03	3.69E-07	1.43E-04	1.18E-03	3.91E-04	2.78E-02	2.33E-02	6.13E-02
3929	493363.09	3853377.25	0.00689	0.00337	0.00356	0.004	0.004	0.004	0.0038	0.00337	4.80E-02	6.22E-03	3.71E-07	1.41E-04	1.29E-03	3.88E-04	2.72E-02	2.29E-02	6.04E-02
3930	493863.09	3853377.25	0.00679	0.0033	0.00348	0.00398	0.004	0.004	0.0037	0.0033	4.73E-02	6.09E-03	3.62E-07	1.40E-04	1.39E-03	3.84E-04	2.65E-02	2.24E-02	5.94E-02
3931	494363.09	3853377.25	0.0066	0.0032	0.0034	0.00381	0.005	0.004	0.0036	0.0032	4.60E-02	5.91E-03	3.54E-07	1.34E-04	1.46E-03	3.74E-04	2.55E-02	2.18E-02	5.76E-02
3932	494863.09	3853377.25	0.00638	0.00308	0.00334	0.00375	0.005	0.004	0.0034	0.00308	4.45E-02	5.69E-03	3.48E-07	1.32E-04	1.52E-03	3.64E-04	2.44E-02	2.09E-02	5.56E-02
3933	495363.09	3853377.25	0.00622	0.003	0.00331	0.00379	0.005	0.004	0.0033	0.003	4.34E-02	5.54E-03	3.45E-07	1.33E-04	1.56E-03	3.57E-04	2.37E-02	2.04E-02	5.42E-02
3934	495863.09	3853377.25	0.00599	0.0029	0.00319	0.00362	0.005	0.004	0.0032	0.0029	4.18E-02	5.36E-03	3.32E-07	1.27E-04	1.64E-03	3.48E-04	2.27E-02	1.97E-02	5.23E-02
3935	496363.09	3853377.25	0.00571	0.00278	0.00304	0.00345	0.005	0.004	0.003	0.00278	3.98E-02	5.13E-03	3.16E-07	1.21E-04	1.68E-03	3.35E-04	2.15E-02	1.89E-02	4.97E-02
3936	496863.09	3853377.25	0.00533	0.0026	0.00284	0.00327	0.005	0.003	0.0028	0.0026	3.72E-02	4.80E-03	2.96E-07	1.15E-04	1.66E-03	3.19E-04	2.01E-02	1.77E-02	4.64E-02
3937	497363.09	3853377.25	0.0048	0.0024	0.00266	0.00307	0.005	0.003	0.0026	0.0024	3.35E-02	4.43E-03	2.77E-07	1.08E-04	1.56E-03	2.98E-04	1.82E-02	1.63E-02	4.18E-02
3938	497863.09	3853377.25	0.00394	0.00204	0.00235	0.00271	0.004	0.003	0.0021	0.00204	2.75E-02	3.77E-03	2.45E-07	9.54E-05	1.40E-03	2.62E-04	1.52E-02	1.39E-02	3.43E-02
3939	498363.09	3853377.25	0.00354	0.00185	0.00216	0.00252	0.004	0.003	0.0019	0.00185	2.47E-02	3.42E-03	2.25E-07	8.87E-05	1.30E-03	2.43E-04	1.37E-02	1.26E-02	3.08E-02
3940	471363.09	3853877.25	0.00171	0.00136	0.00068	0.001	0.001	0.001	0.0014	0.00136	1.19E-02	2.51E-03	7.08E-08	3.52E-05	4.32E-04	1.07E-04	9.64E-03	9.25E-03	1.54E-02

3941	471863.09	3853877.25	0.00179	0.00142	0.00071	0.00106	0.001	0.001	0.0014	0.00142	1.25E-02	2.62E-03	7.39E-08	3.73E-05	4.67E-04	1.11E-04	1.01E-02	9.66E-03	1.62E-02
3942	472363.09	3853877.25	0.00187	0.00147	0.00073	0.00111	0.002	0.001	0.0015	0.00147	1.30E-02	2.71E-03	7.60E-08	3.91E-05	5.01E-04	1.16E-04	1.05E-02	1.00E-02	1.69E-02
3943	472863.09	3853877.25	0.00195	0.00152	0.00076	0.00116	0.002	0.001	0.0015	0.00152	1.36E-02	2.81E-03	7.91E-08	4.08E-05	5.42E-04	1.20E-04	1.08E-02	1.03E-02	1.76E-02
3944	473363.09	3853877.25	0.00202	0.00156	0.00079	0.0012	0.002	0.001	0.0016	0.00156	1.41E-02	2.88E-03	8.22E-08	4.22E-05	5.83E-04	1.25E-04	1.11E-02	1.06E-02	1.82E-02
3945	473863.09	3853877.25	0.00211	0.0016	0.00083	0.00124	0.002	0.001	0.0016	0.0016	1.47E-02	2.96E-03	8.64E-08	4.36E-05	6.24E-04	1.30E-04	1.15E-02	1.09E-02	1.91E-02
3946	474363.09	3853877.25	0.0022	0.00165	0.00088	0.00129	0.002	0.001	0.0017	0.00165	1.53E-02	3.05E-03	9.16E-08	4.54E-05	6.55E-04	1.35E-04	1.18E-02	1.12E-02	1.98E-02
3947	474863.09	3853877.25	0.00229	0.00169	0.00094	0.00134	0.002	0.002	0.0017	0.00169	1.60E-02	3.12E-03	9.79E-08	4.72E-05	6.71E-04	1.41E-04	1.21E-02	1.15E-02	2.06E-02
3948	475363.09	3853877.25	0.00236	0.00168	0.00098	0.00137	0.002	0.002	0.0017	0.00168	1.65E-02	3.10E-03	1.02E-07	4.82E-05	6.64E-04	1.43E-04	1.20E-02	1.14E-02	2.10E-02
3949	475863.09	3853877.25	0.00237	0.00162	0.00099	0.00136	0.002	0.002	0.0016	0.00162	1.65E-02	2.99E-03	1.03E-07	4.79E-05	6.39E-04	1.45E-04	1.16E-02	1.10E-02	2.10E-02
3950	476363.09	3853877.25	0.0023	0.00158	0.00102	0.00135	0.002	0.002	0.0016	0.00158	1.60E-02	2.92E-03	1.06E-07	4.75E-05	6.05E-04	1.46E-04	1.12E-02	1.07E-02	2.02E-02
3951	476863.09	3853877.25	0.00222	0.00152	0.00104	0.00133	0.002	0.002	0.0015	0.00152	1.55E-02	2.81E-03	1.08E-07	4.68E-05	5.80E-04	1.47E-04	1.06E-02	1.03E-02	1.93E-02
3952	477363.09	3853877.25	0.00239	0.00162	0.0011	0.00141	0.002	0.002	0.0016	0.00162	1.67E-02	2.99E-03	1.15E-07	4.96E-05	5.98E-04	1.53E-04	1.13E-02	1.10E-02	2.07E-02
3953	477863.09	3853877.25	0.00257	0.00173	0.00119	0.0015	0.002	0.002	0.0017	0.00173	1.79E-02	3.20E-03	1.24E-07	5.28E-05	6.27E-04	1.62E-04	1.20E-02	1.18E-02	2.22E-02
3954	478363.09	3853877.25	0.00271	0.00178	0.00128	0.00157	0.002	0.002	0.0018	0.00178	1.89E-02	3.29E-03	1.33E-07	5.53E-05	6.55E-04	1.70E-04	1.25E-02	1.21E-02	2.34E-02
3955	478863.09	3853877.25	0.00259	0.00165	0.00132	0.00154	0.002	0.002	0.0016	0.00165	1.81E-02	3.05E-03	1.37E-07	5.42E-05	6.36E-04	1.73E-04	1.15E-02	1.12E-02	2.22E-02
3956	479363.09	3853877.25	0.00298	0.00187	0.00147	0.00171	0.002	0.002	0.0019	0.00187	2.08E-02	3.45E-03	1.53E-07	6.02E-05	7.08E-04	1.92E-04	1.31E-02	1.27E-02	2.56E-02
3957	479863.09	3853877.25	0.00382	0.0024	0.00175	0.00213	0.003	0.002	0.0024	0.0024	2.66E-02	4.43E-03	1.82E-07	7.50E-05	8.12E-04	2.28E-04	1.72E-02	1.63E-02	3.31E-02
3958	480363.09	3853877.25	0.00456	0.00296	0.0021	0.00256	0.003	0.003	0.0031	0.00296	3.18E-02	5.47E-03	2.19E-07	9.01E-05	8.33E-04	2.73E-04	2.16E-02	2.01E-02	3.99E-02
3959	480863.09	3853877.25	0.00532	0.00401	0.00276	0.00315	0.003	0.004	0.0041	0.00401	3.71E-02	7.41E-03	2.87E-07	1.11E-04	8.40E-04	3.48E-04	2.91E-02	2.73E-02	4.76E-02
3960	481363.09	3853877.25	0.00619	0.00519	0.00334	0.00377	0.003	0.005	0.0053	0.00519	4.32E-02	9.59E-03	3.48E-07	1.33E-04	8.90E-04	4.60E-04	3.73E-02	3.53E-02	5.62E-02
3961	481863.09	3853877.25	0.00784	0.00773	0.00414	0.00463	0.003	0.007	0.0073	0.00773	5.47E-02	1.43E-02	4.31E-07	1.63E-04	9.56E-04	7.02E-04	5.14E-02	5.26E-02	6.96E-02
3962	482363.09	3853877.25	0.01295	0.01374	0.00421	0.00672	0.003	0.016	0.0117	0.01374	9.03E-02	2.54E-02	4.38E-07	2.37E-04	1.00E-03	1.53E-03	8.30E-02	9.34E-02	1.08E-01
3963	482863.09	3853877.25	0.06756	0.2451	0.00544	0.01606	0.003	0.124	0.0645	0.2451	4.71E-01	4.53E-01	5.66E-07	5.65E-04	1.00E-03	1.16E-02	4.57E-01	1.67E+00	-2.73E-01
3964	483363.09	3853877.25	0.04643	0.02637	0.00473	0.05283	0.003	0.077	0.0414	0.02637	3.24E-01	4.87E-02	4.92E-07	1.86E-03	1.02E-03	7.19E-03	2.93E-01	1.79E-01	4.96E-01
3965	483863.09	3853877.25	0.02497	0.01521	0.00469	0.0287	0.003	0.03	0.0227	0.01521	1.74E-01	2.81E-02	4.88E-07	1.01E-03	1.03E-03	2.78E-03	1.61E-01	1.03E-01	2.64E-01
3966	484363.09	3853877.25	0.01903	0.01005	0.00555	0.01847	0.003	0.018	0.0152	0.01005	1.33E-01	1.86E-02	5.78E-07	6.50E-04	9.81E-04	1.66E-03	1.07E-01	6.83E-02	1.94E-01
3967	484863.09	3853877.25	0.01584	0.00731	0.00549	0.01273	0.003	0.012	0.0107	0.00731	1.10E-01	1.35E-02	5.72E-07	4.48E-04	1.08E-03	1.13E-03	7.56E-02	4.97E-02	1.52E-01
3968	485363.09	3853877.25	0.01193	0.00541	0.00544	0.00892	0.003	0.009	0.0075	0.00541	8.32E-02	9.99E-03	5.66E-07	3.14E-04	8.40E-04	8.07E-04	5.33E-02	3.68E-02	1.12E-01
3969	485863.09	3853877.25	0.01174	0.00504	0.0058	0.00848	0.003	0.008	0.007	0.00504	8.18E-02	9.31E-03	6.04E-07	2.98E-04	9.24E-04	7.52E-04	4.98E-02	3.43E-02	1.09E-01
3970	486363.09	3853877.25	0.01077	0.00469	0.00576	0.00762	0.003	0.007	0.0064	0.00469	7.51E-02	8.66E-03	6.00E-07	2.68E-04	1.03E-03	6.78E-04	4.53E-02	3.19E-02	9.92E-02
3971	486863.09	3853877.25	0.00998	0.00444	0.00549	0.0069	0.004	0.007	0.0059	0.00444	6.96E-02	8.20E-03	5.72E-07	2.43E-04	1.16E-03	6.12E-04	4.17E-02	3.02E-02	9.13E-02
3972	487363.09	3853877.25	0.00981	0.00436	0.00532	0.00666	0.003	0.006	0.0057	0.00436	6.84E-02	8.05E-03	5.54E-07	2.34E-04	9.84E-04	5.83E-04	4.05E-02	2.96E-02	8.91E-02
3973	487863.09	3853877.25	0.00997	0.00441	0.00545	0.00672	0.003	0.006	0.0058	0.00441	6.95E-02	8.14E-03	5.67E-07	2.37E-04	8.99E-04	5.82E-04	4.07E-02	3.00E-02	9.01E-02
3974	488363.09	3853877.25	0.00977	0.00431	0.00545	0.00648	0.003	0.006	0.0056	0.00431	6.81E-02	7.96E-03	5.67E-07	2.28E-04	9.02E-04	5.64E-04	3.95E-02	2.93E-02	8.79E-02
3975	488863.09	3853877.25	0.00972	0.00428	0.00527	0.0064	0.003	0.006	0.0055	0.00428	6.78E-02	7.90E-03	5.49E-07	2.25E-04	1.01E-03	5.56E-04	3.89E-02	2.91E-02	8.73E-02
3976	489363.09	3853877.25	0.00933	0.00406	0.00498	0.00593	0.003	0.006	0.0051	0.00406	6.50E-02	7.50E-03	5.18E-07	2.09E-04	1.02E-03	5.21E-04	3.62E-02	2.76E-02	8.29E-02
3977	489863.09	3853877.25	0.0092	0.00398	0.00498	0.00573	0.003	0.005	0.0049	0.00398	6.41E-02	7.35E-03	5.18E-07	2.02E-04	1.02E-03	5.09E-04	3.50E-02	2.71E-02	8.12E-02
3978	490363.09	3853877.25	0.00895	0.00385	0.00484	0.00549	0.004	0.005	0.0047	0.00385	6.24E-02	7.11E-03	5.04E-07	1.93E-04	1.16E-03	4.91E-04	3.34E-02	2.62E-02	7.85E-02
3979	490863.09	3853877.25	0.0088	0.00378	0.00477	0.00534	0.004	0.005	0.0046	0.00378	6.14E-02	6.98E-03	4.97E-07	1.88E-04	1.40E-03	4.78E-04	3.23E-02	2.57E-02	7.70E-02
3980	491363.09	3853877.25	0.00866	0.00372	0.00471	0.00518	0.005	0.005	0.0045	0.00372	6.04E-02	6.87E-03	4.90E-07	1.82E-04	1.49E-03	4.72E-04	3.15E-02	2.53E-02	7.56E-02
3981	491863.09	3853877.25	0.00848	0.00366	0.00451	0.005	0.005	0.005	0.0043	0.00366	5.91E-02	6.76E-03	4.70E-07	1.76E-04	1.44E-03	4.65E-04	3.08E-02	2.49E-02	7.38E-02
3982	492363.09	3853877.25	0.00838	0.00366	0.00443	0.00493	0.005	0.005	0.0043	0.00366	5.84E-02	6.76E-03	4.61E-07	1.74E-04	1.53E-03	4.64E-04	3.05E-02	2.49E-02	7.29E-02
3983	492863.09	3853877.25	0.00823	0.00362	0.00436	0.00487	0.005	0.005	0.0042	0.00362	5.74E-02	6.69E-03	4.54E-07	1.71E-04	1.70E-03	4.61E-04	2.98E-02	2.46E-02	7.16E-02
3984	493363.09	3853877.25	0.00804	0.00353	0.00423	0.0048	0.006	0.005	0.0041	0.00353	5.61E-02	6.52E-03	4.40E-07	1.69E-04	1.81E-03	4.53E-04	2.88E-02	2.40E-02	6.98E-02
3985	493863.09	3853877.25	0.00781	0.00342	0.00411	0.00458	0.006	0.005	0.0039	0.00342	5.44E-02	6.32E-03	4.28E-07	1.61E-04	1.91E-03	4.40E-04	2.77E-02	2.33E-02	6.77E-02
3986	494363.09	3853877.25	0.0076	0.00334	0.00401	0.00449	0.006	0.005	0.0038	0.00334	5.30E-02	6.17E-03	4.17E-07	1.58E-04	2.01E-03	4.31E-04	2.68E-02	2.27E-02	6.58E-02
3987	494863.09	3853877.25	0.00734	0.00322	0.00386	0.00454	0.007	0.004	0.0036	0.00322	5.12E-02	5.95E-03	4.02E-07	1.60E-04	2.09E-03	4.18E-04	2.56E-02	2.19E-02	6.35E-02
3988	495363.09	3853877.25	0.00684	0.00302	0.00356	0.0041	0.007	0.004	0.0034	0.00302	4.77E-02	5.58E-03	3.71E-07	1.44E-04	2.06E-03	3.92E-04	2.37E-02	2.05E-02	5.91E-02
3989	495863.09	3853877.25	0.00634	0.00284	0.0033	0.00383	0.006	0.004	0.0031	0.00284	4.42E-02	5.25E-03	3.44E-07	1.35E-04	2.02E-03	3.72E-04	2.22E-02	1.93E-02	5.48E-02
3990	496363.09	3853877.25	0.00602	0.00272	0.00316	0.0037	0.006	0.004	0.003	0.00272	4.20E-02	5.02E-03	3.29E-07	1.30E-04	1.99E-03	3.60E-04	2.10E-02	1.85E-02	5.20E-02
3991	496863.09	3853877.25	0.00545	0.00253	0.00294	0.0035	0.006	0.004	0.0027	0.00253	3.80E-02	4.67E-03	3.06E-07	1.23E-04	1.87E-03	3.37E-04	1.93E-02	1.72E-02	4.71E-02
3992	497363.09	3853877.25	0.00498	0.00236	0.00279	0.00333	0.006	0.003	0.0025	0.00236	3.47E-02	4.36E-03	2.90E-07	1.17E-04	1.76E-03	3.18E-04	1.79E-02	1.60E-02	4.31E-02
3993	497863.09	3853877.25	0.00439	0.00215	0.00258	0.00311	0.005	0.003	0.0023	0.00215	3.06E-02	3.97E-03	2.69E-07	1.09E-04	1.63E-03	2.94E-04	1.60E-02	1.46E-02	3.80E-02
3994	498363.09	3853877.25	0.00406	0.00201	0.00243	0.00301	0.005	0.003	0.0021	0.00201	2.83E-02	3.71E-03	2.53E-07	1.06E-04	1.54E-03	2.78E-04	1.49E-02	1.37E-02	3.52E-02
3995	471363.09	3854377.25	0.00166	0.00132	0.00069	0.001	0.001	0.001	0.0013	0.00132	1.16E-02	2.44E-03	7.18E-08	3.52E-05	3.89E-04	1.08E-04	9.35E-03	8.98E-03	1.49E-02
3996	471863.09	3854377.25	0.00174	0.00138	0.00072	0.00105	0.001	0.001	0.0014	0.00138	1.21E-02	2.55E-03	7.50E-08	3.70E-05	4.10E-04	1.13E-04	9.78E-03	9.38E-03	1.56E-02
3997	472363.09	3854377.25	0.00182	0.00142	0.00074	0.00109	0.001	0.001	0.0014	0.00142	1.27E-02	2.62E-03	7.70E-08	3.84E-05	4.36E-04	1.17E-04	1.01E-02	9.66E-03	1.63E-02
3998	472863.09	3854377.25	0.0019	0.00145	0.00077	0.00113	0.001	0.001	0.0015	0.00145	1.32E-02	2.68E-03	8.02E-08	3.98E-05	4.61E-04	1.20E-04	1.03E-02	9.86E-03	1.70E-02

3999	473363.09	3854377.25	0.002	0.0015	0.00079	0.00118	0.002	0.001	0.0015	0.0015	1.39E-02	2.77E-03	8.22E-08	4.15E-05	4.95E-04	1.25E-04	1.06E-02	1.02E-02	1.78E-02
4000	473863.09	3854377.25	0.00211	0.00156	0.00082	0.00124	0.002	0.001	0.0016	0.00156	1.47E-02	2.88E-03	8.54E-08	4.36E-05	5.33E-04	1.31E-04	1.11E-02	1.06E-02	1.87E-02
4001	474363.09	3854377.25	0.00221	0.0016	0.00087	0.0013	0.002	0.001	0.0016	0.0016	1.54E-02	2.96E-03	9.06E-08	4.58E-05	5.77E-04	1.36E-04	1.14E-02	1.09E-02	1.96E-02
4002	474863.09	3854377.25	0.0023	0.00157	0.00089	0.00133	0.002	0.001	0.0016	0.00157	1.60E-02	2.90E-03	9.27E-08	4.68E-05	6.14E-04	1.39E-04	1.13E-02	1.07E-02	2.03E-02
4003	475363.09	3854377.25	0.00233	0.0015	0.00091	0.00132	0.002	0.002	0.0015	0.0015	1.62E-02	2.77E-03	9.47E-08	4.65E-05	6.42E-04	1.41E-04	1.07E-02	1.02E-02	2.03E-02
4004	475863.09	3854377.25	0.00214	0.00136	0.00094	0.00126	0.002	0.001	0.0014	0.00136	1.49E-02	2.51E-03	9.79E-08	4.43E-05	6.02E-04	1.38E-04	9.57E-03	9.25E-03	1.85E-02
4005	476363.09	3854377.25	0.00212	0.00137	0.00097	0.00128	0.002	0.002	0.0014	0.00137	1.48E-02	2.53E-03	1.01E-07	4.51E-05	6.20E-04	1.41E-04	9.57E-03	9.32E-03	1.84E-02
4006	476863.09	3854377.25	0.00219	0.0014	0.00103	0.00131	0.002	0.002	0.0014	0.0014	1.53E-02	2.59E-03	1.07E-07	4.61E-05	6.36E-04	1.46E-04	9.71E-03	9.52E-03	1.89E-02
4007	477363.09	3854377.25	0.00226	0.00145	0.00109	0.00136	0.002	0.002	0.0014	0.00145	1.58E-02	2.68E-03	1.13E-07	4.79E-05	6.49E-04	1.52E-04	1.01E-02	9.86E-03	1.95E-02
4008	477863.09	3854377.25	0.00239	0.00151	0.00116	0.00143	0.002	0.002	0.0015	0.00151	1.67E-02	2.79E-03	1.21E-07	5.03E-05	6.58E-04	1.61E-04	1.04E-02	1.03E-02	2.05E-02
4009	478363.09	3854377.25	0.00263	0.00163	0.00125	0.00154	0.002	0.002	0.0016	0.00163	1.83E-02	3.01E-03	1.30E-07	5.42E-05	6.80E-04	1.72E-04	1.13E-02	1.11E-02	2.24E-02
4010	478863.09	3854377.25	0.00284	0.00171	0.00136	0.00164	0.002	0.002	0.0017	0.00171	1.98E-02	3.16E-03	1.42E-07	5.77E-05	7.05E-04	1.82E-04	1.18E-02	1.16E-02	2.40E-02
4011	479363.09	3854377.25	0.00344	0.00197	0.00154	0.00189	0.002	0.002	0.0019	0.00197	2.40E-02	3.64E-03	1.60E-07	6.65E-05	7.74E-04	2.06E-04	1.37E-02	1.34E-02	2.90E-02
4012	479863.09	3854377.25	0.00406	0.00219	0.00179	0.00211	0.003	0.002	0.0022	0.00219	2.83E-02	4.04E-03	1.86E-07	7.43E-05	8.43E-04	2.32E-04	1.54E-02	1.49E-02	3.40E-02
4013	480363.09	3854377.25	0.00494	0.0026	0.00224	0.00251	0.003	0.003	0.0026	0.0026	3.44E-02	4.80E-03	2.33E-07	8.83E-05	9.34E-04	2.76E-04	1.85E-02	1.77E-02	4.14E-02
4014	480863.09	3854377.25	0.00615	0.00336	0.00291	0.00312	0.003	0.004	0.0034	0.00336	4.29E-02	6.21E-03	3.03E-07	1.10E-04	1.03E-03	3.57E-04	2.38E-02	2.28E-02	5.15E-02
4015	481363.09	3854377.25	0.0074	0.00448	0.00404	0.00397	0.003	0.005	0.0043	0.00448	5.16E-02	8.27E-03	4.21E-07	1.40E-04	1.06E-03	4.95E-04	3.07E-02	3.05E-02	6.18E-02
4016	481863.09	3854377.25	0.0094	0.00704	0.00686	0.00498	0.003	0.009	0.0058	0.00704	6.55E-02	1.30E-02	7.14E-07	1.75E-04	1.06E-03	8.64E-04	4.10E-02	4.79E-02	7.38E-02
4017	482363.09	3854377.25	0.01555	0.01192	0.01003	0.00693	0.004	0.021	0.0078	0.01192	1.08E-01	2.20E-02	1.04E-06	2.44E-04	1.11E-03	1.94E-03	5.49E-02	8.11E-02	1.08E-01
4018	482863.09	3854377.25	0.07337	0.18322	0.01302	0.01253	0.004	0.082	0.0135	0.18322	5.12E-01	3.38E-01	1.36E-06	4.41E-04	1.20E-03	7.69E-03	9.57E-02	1.25E+00	-2.91E-01
4019	483363.09	3854377.25	0.09849	0.03175	0.01352	0.03798	0.004	0.044	0.051	0.03175	6.87E-01	5.86E-02	1.41E-06	1.34E-03	1.26E-03	4.09E-03	3.61E-01	2.16E-01	8.97E-01
4020	483863.09	3854377.25	0.06005	0.01474	0.01636	0.24931	0.004	0.122	0.0827	0.01474	4.19E-01	2.72E-02	1.70E-06	8.77E-03	1.22E-03	1.15E-02	5.86E-01	1.00E-01	9.53E-01
4021	484363.09	3854377.25	0.03651	0.00959	0.01672	0.05101	0.004	0.033	0.0282	0.00959	2.55E-01	1.77E-02	1.74E-06	1.80E-03	1.24E-03	3.15E-03	2.00E-01	6.52E-02	4.13E-01
4022	484863.09	3854377.25	0.02432	0.00711	0.01432	0.02519	0.004	0.019	0.0156	0.00711	1.70E-01	1.31E-02	1.49E-06	8.87E-04	1.13E-03	1.74E-03	1.11E-01	4.83E-02	2.49E-01
4023	485363.09	3854377.25	0.02218	0.00675	0.01263	0.02127	0.004	0.016	0.0137	0.00675	1.55E-01	1.25E-02	1.31E-06	7.49E-04	1.28E-03	1.52E-03	9.69E-02	4.59E-02	2.22E-01
4024	485863.09	3854377.25	0.01803	0.00561	0.01022	0.01499	0.004	0.012	0.01	0.00561	1.26E-01	1.04E-02	1.06E-06	5.28E-04	1.11E-03	1.13E-03	7.09E-02	3.81E-02	1.72E-01
4025	486363.09	3854377.25	0.01675	0.00521	0.00954	0.01303	0.004	0.011	0.0088	0.00521	1.17E-01	9.62E-03	9.93E-07	4.59E-04	1.29E-03	1.01E-03	6.24E-02	3.54E-02	1.56E-01
4026	486863.09	3854377.25	0.01504	0.00473	0.00831	0.01092	0.005	0.009	0.0075	0.00473	1.05E-01	8.74E-03	8.65E-07	3.84E-04	1.48E-03	8.69E-04	5.30E-02	3.22E-02	1.37E-01
4027	487363.09	3854377.25	0.01432	0.00463	0.00797	0.01002	0.005	0.009	0.007	0.00463	9.98E-02	8.55E-03	8.30E-07	3.53E-04	1.44E-03	8.06E-04	4.96E-02	3.15E-02	1.29E-01
4028	487863.09	3854377.25	0.01382	0.0047	0.00771	0.00949	0.004	0.008	0.0068	0.0047	9.63E-02	8.68E-03	8.03E-07	3.34E-04	1.17E-03	7.71E-04	4.83E-02	3.20E-02	1.24E-01
4029	488363.09	3854377.25	0.01318	0.00468	0.00749	0.00886	0.004	0.008	0.0065	0.00468	9.19E-02	8.64E-03	7.80E-07	3.12E-04	1.18E-03	7.30E-04	4.62E-02	3.18E-02	1.17E-01
4030	488863.09	3854377.25	0.01264	0.0046	0.00719	0.0083	0.004	0.007	0.0062	0.0046	8.81E-02	8.50E-03	7.49E-07	2.92E-04	1.35E-03	6.95E-04	4.39E-02	3.13E-02	1.12E-01
4031	489363.09	3854377.25	0.01212	0.00449	0.00682	0.00779	0.004	0.007	0.0059	0.00449	8.45E-02	8.29E-03	7.10E-07	2.74E-04	1.39E-03	6.61E-04	4.16E-02	3.05E-02	1.06E-01
4032	489863.09	3854377.25	0.01163	0.00435	0.0064	0.00732	0.005	0.007	0.0056	0.00435	8.11E-02	8.03E-03	6.66E-07	2.58E-04	1.56E-03	6.32E-04	3.94E-02	2.96E-02	1.01E-01
4033	490363.09	3854377.25	0.01116	0.00419	0.00605	0.00689	0.006	0.006	0.0053	0.00419	7.78E-02	7.74E-03	6.30E-07	2.43E-04	1.85E-03	6.01E-04	3.72E-02	2.85E-02	9.69E-02
4034	490863.09	3854377.25	0.0103	0.00379	0.00536	0.00608	0.006	0.006	0.0046	0.00379	7.18E-02	7.00E-03	5.58E-07	2.14E-04	1.77E-03	5.36E-04	3.29E-02	2.58E-02	8.84E-02
4035	491363.09	3854377.25	0.01023	0.00388	0.00538	0.00612	0.006	0.006	0.0047	0.00388	7.13E-02	7.17E-03	5.60E-07	2.15E-04	1.88E-03	5.48E-04	3.33E-02	2.64E-02	8.80E-02
4036	491863.09	3854377.25	0.01003	0.00392	0.0053	0.00601	0.007	0.006	0.0047	0.00392	6.99E-02	7.24E-03	5.52E-07	2.12E-04	2.09E-03	5.50E-04	3.32E-02	2.67E-02	8.65E-02
4037	492363.09	3854377.25	0.00974	0.00389	0.00516	0.00582	0.007	0.006	0.0046	0.00389	6.79E-02	7.18E-03	5.37E-07	2.05E-04	2.32E-03	5.43E-04	3.25E-02	2.65E-02	8.42E-02
4038	492863.09	3854377.25	0.00945	0.0038	0.00498	0.00568	0.008	0.006	0.0044	0.0038	6.59E-02	7.02E-03	5.18E-07	2.00E-04	2.54E-03	5.32E-04	3.13E-02	2.58E-02	8.17E-02
4039	493363.09	3854377.25	0.00914	0.00368	0.00474	0.00553	0.009	0.006	0.0042	0.00368	6.37E-02	6.80E-03	4.93E-07	1.95E-04	2.70E-03	5.17E-04	3.00E-02	2.50E-02	7.89E-02
4040	493863.09	3854377.25	0.00882	0.00356	0.00451	0.00523	0.009	0.005	0.0041	0.00356	6.15E-02	6.58E-03	4.70E-07	1.84E-04	2.80E-03	5.01E-04	2.88E-02	2.42E-02	7.61E-02
4041	494363.09	3854377.25	0.00851	0.00345	0.00436	0.00536	0.009	0.005	0.0039	0.00345	5.93E-02	6.37E-03	4.54E-07	1.89E-04	2.82E-03	4.84E-04	2.76E-02	2.35E-02	7.34E-02
4042	494863.09	3854377.25	0.00779	0.00315	0.00394	0.00468	0.008	0.005	0.0035	0.00315	5.43E-02	5.82E-03	4.10E-07	1.65E-04	2.61E-03	4.44E-04	2.49E-02	2.14E-02	6.68E-02
4043	495363.09	3854377.25	0.00679	0.00283	0.00355	0.00416	0.008	0.004	0.0031	0.00283	4.73E-02	5.23E-03	3.70E-07	1.46E-04	2.38E-03	4.05E-04	2.20E-02	1.92E-02	5.83E-02
4044	495863.09	3854377.25	0.00609	0.00262	0.00327	0.00391	0.007	0.004	0.0028	0.00262	4.25E-02	4.84E-03	3.40E-07	1.38E-04	2.22E-03	3.81E-04	2.01E-02	1.78E-02	5.23E-02
4045	496363.09	3854377.25	0.00576	0.00251	0.00314	0.00382	0.007	0.004	0.0027	0.00251	4.02E-02	4.64E-03	3.27E-07	1.34E-04	2.13E-03	3.67E-04	1.91E-02	1.71E-02	4.95E-02
4046	496863.09	3854377.25	0.00531	0.00238	0.00297	0.00368	0.006	0.004	0.0025	0.00238	3.70E-02	4.40E-03	3.09E-07	1.30E-04	2.03E-03	3.45E-04	1.79E-02	1.62E-02	4.57E-02
4047	497363.09	3854377.25	0.00468	0.00218	0.00274	0.00347	0.006	0.003	0.0023	0.00218	3.26E-02	4.03E-03	2.85E-07	1.22E-04	1.88E-03	3.18E-04	1.62E-02	1.48E-02	4.03E-02
4048	497863.09	3854377.25	0.00472	0.0022	0.00274	0.00355	0.006	0.003	0.0023	0.0022	3.29E-02	4.06E-03	2.85E-07	1.25E-04	1.88E-03	3.21E-04	1.63E-02	1.50E-02	4.06E-02
4049	498363.09	3854377.25	0.00437	0.00208	0.00258	0.00343	0.006	0.003	0.0022	0.00208	3.05E-02	3.84E-03	2.69E-07	1.21E-04	1.78E-03	3.04E-04	1.53E-02	1.41E-02	3.77E-02
4050	471363.09	3854877.25	0.00163	0.00129	0.00068	0.001	0.001	0.001	0.0013	0.00129	1.14E-02	2.38E-03	7.08E-08	3.52E-05	3.98E-04	1.07E-04	9.21E-03	8.77E-03	1.47E-02
4051	471863.09	3854877.25	0.0017	0.00134	0.00071	0.00104	0.001	0.001	0.0013	0.00134	1.19E-02	2.47E-03	7.39E-08	3.66E-05	4.14E-04	1.13E-04	9.49E-03	9.11E-03	1.53E-02
4052	472363.09	3854877.25	0.00177	0.00137	0.00074	0.00108	0.001	0.001	0.0014	0.00137	1.23E-02	2.53E-03	7.70E-08	3.80E-05	4.26E-04	1.17E-04	9.78E-03	9.32E-03	1.59E-02
4053	472863.09	3854877.25	0.00185	0.00139	0.00077	0.00112	0.001	0.001	0.0014	0.00139	1.29E-02	2.57E-03	8.02E-08	3.94E-05	4.36E-04	1.21E-04	9.85E-03	9.45E-03	1.65E-02
4054	473363.09	3854877.25	0.00195	0.00144	0.0008	0.00117	0.001	0.001	0.0014	0.00144	1.36E-02	2.66E-03	8.33E-08	4.12E-05	4.57E-04	1.28E-04	1.02E-02	9.79E-03	1.73E-02
4055	473863.09	3854877.25	0.00205	0.0015	0.00084	0.00123	0.002	0.001	0.0015	0.0015	1.43E-02	2.77E-03	8.74E-08	4.33E-05	4.79E-04	1.33E-04	1.06E-02	1.02E-02	1.81E-02
4056	474363.09	3854877.25	0.00216	0.00157	0.00088	0.0013	0.002	0.001	0.0016	0.00157	1.51E-02	2.90E-03	9.16E-08	4.58E-05	5.11E-04	1.40E-04	1.11E-02	1.07E-02	1.90E-02

4057	474863.09	3854877.25	0.00222	0.00146	0.00088	0.00127	0.002	0.001	0.0015	0.00146	1.55E-02	2.70E-03	9.16E-08	4.47E-05	5.14E-04	1.37E-04	1.03E-02	9.93E-03	1.92E-02
4058	475363.09	3854877.25	0.00214	0.00135	0.00089	0.00125	0.002	0.001	0.0013	0.00135	1.49E-02	2.49E-03	9.27E-08	4.40E-05	5.04E-04	1.35E-04	9.49E-03	9.18E-03	1.84E-02
4059	475863.09	3854877.25	0.00205	0.00127	0.00091	0.00123	0.002	0.001	0.0013	0.00127	1.43E-02	2.35E-03	9.47E-08	4.33E-05	5.17E-04	1.35E-04	8.86E-03	8.64E-03	1.76E-02
4060	476363.09	3854877.25	0.00188	0.00117	0.00092	0.00119	0.002	0.001	0.0011	0.00117	1.31E-02	2.16E-03	9.58E-08	4.19E-05	5.33E-04	1.33E-04	8.01E-03	7.96E-03	1.60E-02
4061	476863.09	3854877.25	0.00197	0.00119	0.00096	0.00124	0.002	0.001	0.0012	0.00119	1.37E-02	2.20E-03	9.99E-08	4.36E-05	5.73E-04	1.38E-04	8.15E-03	8.09E-03	1.67E-02
4062	477363.09	3854877.25	0.00216	0.0013	0.00104	0.00132	0.002	0.002	0.0013	0.0013	1.51E-02	2.40E-03	1.08E-07	4.65E-05	6.30E-04	1.48E-04	8.86E-03	8.84E-03	1.83E-02
4063	477863.09	3854877.25	0.00233	0.0014	0.00113	0.0014	0.002	0.002	0.0014	0.0014	1.62E-02	2.59E-03	1.18E-07	4.93E-05	6.80E-04	1.58E-04	9.64E-03	9.52E-03	1.98E-02
4064	478363.09	3854877.25	0.00271	0.00158	0.00127	0.00153	0.002	0.002	0.0015	0.00158	1.89E-02	2.92E-03	1.32E-07	5.39E-05	7.39E-04	1.74E-04	1.08E-02	1.07E-02	2.29E-02
4065	478863.09	3854877.25	0.0032	0.00181	0.00144	0.00173	0.003	0.002	0.0018	0.00181	2.23E-02	3.34E-03	1.50E-07	6.09E-05	8.27E-04	1.96E-04	1.25E-02	1.23E-02	2.70E-02
4066	479363.09	3854877.25	0.00394	0.00206	0.00165	0.00202	0.003	0.002	0.002	0.00206	2.75E-02	3.80E-03	1.72E-07	7.11E-05	9.21E-04	2.24E-04	1.44E-02	1.40E-02	3.29E-02
4067	479863.09	3854877.25	0.00474	0.00234	0.0019	0.00241	0.003	0.003	0.0023	0.00234	3.30E-02	4.32E-03	1.98E-07	8.48E-05	1.01E-03	2.58E-04	1.66E-02	1.59E-02	3.94E-02
4068	480363.09	3854877.25	0.00559	0.00261	0.00218	0.00278	0.003	0.003	0.0027	0.00261	3.90E-02	4.82E-03	2.27E-07	9.78E-05	1.03E-03	3.00E-04	1.88E-02	1.77E-02	4.62E-02
4069	480863.09	3854877.25	0.00673	0.00321	0.0027	0.00338	0.004	0.004	0.0033	0.00321	4.69E-02	5.93E-03	2.81E-07	1.19E-04	1.10E-03	3.80E-04	2.31E-02	2.18E-02	5.57E-02
4070	481363.09	3854877.25	0.00823	0.00396	0.00369	0.00401	0.004	0.005	0.0039	0.00396	5.74E-02	7.31E-03	3.84E-07	1.41E-04	1.20E-03	4.87E-04	2.73E-02	2.69E-02	6.69E-02
4071	481863.09	3854877.25	0.01132	0.00454	0.00519	0.00475	0.004	0.006	0.0043	0.00454	7.89E-02	8.39E-03	5.40E-07	1.67E-04	1.28E-03	6.10E-04	3.02E-02	3.09E-02	8.87E-02
4072	482363.09	3854877.25	0.01695	0.009	0.01265	0.00601	0.004	0.015	0.0056	0.009	1.18E-01	1.66E-02	1.32E-06	2.12E-04	1.33E-03	1.45E-03	3.94E-02	6.12E-02	1.16E-01
4073	482863.09	3854877.25	0.07496	0.02178	0.05977	0.00825	0.004	0.053	0.0071	0.02178	5.23E-01	4.02E-02	6.22E-06	2.90E-04	1.38E-03	4.94E-03	5.00E-02	1.48E-01	4.71E-01
4074	483363.09	3854877.25	0.10359	0.10492	1.22849	0.01223	0.005	0.068	0.0099	0.10492	7.22E-01	1.94E-01	1.28E-04	4.30E-04	1.48E-03	6.42E-03	7.04E-02	7.13E-01	2.81E-01
4075	483863.09	3854877.25	0.11617	0.02581	0.17258	0.02397	0.005	0.034	0.019	0.02581	8.10E-01	4.77E-02	1.80E-05	8.44E-04	1.61E-03	3.20E-03	1.34E-01	1.76E-01	8.22E-01
4076	484363.09	3854877.25	0.1218	0.01395	0.05558	0.09931	0.005	0.107	0.1155	0.01395	8.49E-01	2.58E-02	5.79E-06	3.50E-03	1.62E-03	1.01E-02	8.18E-01	9.49E-02	1.61E+00
4077	484863.09	3854877.25	0.06392	0.01041	0.02966	0.17375	0.005	0.078	0.0739	0.01041	4.46E-01	1.92E-02	3.09E-06	6.12E-03	1.67E-03	7.31E-03	5.24E-01	7.08E-02	9.33E-01
4078	485363.09	3854877.25	0.04119	0.00846	0.01954	0.05207	0.005	0.032	0.0282	0.00846	2.87E-01	1.56E-02	2.03E-06	1.83E-03	1.70E-03	3.04E-03	2.00E-01	5.75E-02	4.52E-01
4079	485863.09	3854877.25	0.03165	0.00722	0.015	0.02965	0.006	0.021	0.0173	0.00722	2.21E-01	1.33E-02	1.56E-06	1.04E-03	1.74E-03	1.94E-03	1.23E-01	4.91E-02	3.12E-01
4080	486363.09	3854877.25	0.02589	0.00632	0.01243	0.0206	0.006	0.015	0.0125	0.00632	1.80E-01	1.17E-02	1.29E-06	7.25E-04	1.75E-03	1.45E-03	8.86E-02	4.30E-02	2.42E-01
4081	486863.09	3854877.25	0.02226	0.0057	0.01084	0.01608	0.006	0.013	0.01	0.0057	1.55E-01	1.05E-02	1.13E-06	5.66E-04	2.03E-03	1.19E-03	7.09E-02	3.88E-02	2.02E-01
4082	487363.09	3854877.25	0.0201	0.00536	0.01014	0.01402	0.007	0.011	0.0088	0.00536	1.40E-01	9.90E-03	1.06E-06	4.93E-04	2.24E-03	1.07E-03	6.22E-02	3.64E-02	1.80E-01
4083	487863.09	3854877.25	0.01832	0.00514	0.00974	0.01255	0.005	0.01	0.0079	0.00514	1.28E-01	9.49E-03	1.01E-06	4.42E-04	1.67E-03	9.76E-04	5.62E-02	3.50E-02	1.62E-01
4084	488363.09	3854877.25	0.01691	0.00505	0.00927	0.01144	0.006	0.01	0.0074	0.00505	1.18E-01	9.33E-03	9.65E-07	4.03E-04	1.74E-03	9.07E-04	5.22E-02	3.43E-02	1.48E-01
4085	488863.09	3854877.25	0.01585	0.00504	0.00876	0.01058	0.007	0.009	0.007	0.00504	1.11E-01	9.31E-03	9.12E-07	3.72E-04	2.04E-03	8.60E-04	4.95E-02	3.43E-02	1.38E-01
4086	489363.09	3854877.25	0.01487	0.00494	0.00816	0.00977	0.007	0.009	0.0066	0.00494	1.04E-01	9.12E-03	8.50E-07	3.44E-04	2.31E-03	8.11E-04	4.66E-02	3.36E-02	1.29E-01
4087	489863.09	3854877.25	0.01396	0.00468	0.00746	0.00893	0.008	0.008	0.0061	0.00468	9.73E-02	8.64E-03	7.77E-07	3.14E-04	2.55E-03	7.51E-04	4.31E-02	3.18E-02	1.21E-01
4088	490363.09	3854877.25	0.01264	0.00405	0.00614	0.00746	0.008	0.007	0.0051	0.00405	8.81E-02	7.48E-03	6.39E-07	2.63E-04	2.37E-03	6.38E-04	3.63E-02	2.75E-02	1.08E-01
4089	490863.09	3854877.25	0.01028	0.00348	0.00511	0.006	0.007	0.006	0.0042	0.00348	7.17E-02	6.43E-03	5.32E-07	2.11E-04	2.18E-03	5.35E-04	2.95E-02	2.37E-02	8.69E-02
4090	491363.09	3854877.25	0.01053	0.00356	0.00499	0.00608	0.008	0.006	0.0043	0.00356	7.34E-02	6.58E-03	5.19E-07	2.14E-04	2.41E-03	5.44E-04	3.02E-02	2.42E-02	8.91E-02
4091	491863.09	3854877.25	0.01147	0.00416	0.00582	0.00708	0.011	0.007	0.005	0.00416	8.00E-02	7.68E-03	6.06E-07	2.49E-04	3.37E-03	6.38E-04	3.53E-02	2.83E-02	9.89E-02
4092	492363.09	3854877.25	0.01106	0.00413	0.00574	0.00685	0.012	0.007	0.0049	0.00413	7.71E-02	7.63E-03	5.98E-07	2.41E-04	3.79E-03	6.31E-04	3.44E-02	2.81E-02	9.57E-02
4093	492863.09	3854877.25	0.01063	0.00399	0.00543	0.00684	0.013	0.007	0.0046	0.00399	7.41E-02	7.37E-03	5.65E-07	2.41E-04	3.93E-03	6.12E-04	3.29E-02	2.71E-02	9.20E-02
4094	493363.09	3854877.25	0.01019	0.00382	0.00509	0.00622	0.012	0.006	0.0044	0.00382	7.10E-02	7.06E-03	5.30E-07	2.19E-04	3.91E-03	5.89E-04	3.12E-02	2.60E-02	8.80E-02
4095	493863.09	3854877.25	0.00979	0.00369	0.00495	0.0064	0.012	0.006	0.0042	0.00369	6.83E-02	6.82E-03	5.15E-07	2.25E-04	3.84E-03	5.68E-04	2.98E-02	2.51E-02	8.44E-02
4096	494363.09	3854877.25	0.00883	0.00327	0.00432	0.00539	0.011	0.005	0.0037	0.00327	6.16E-02	6.04E-03	4.50E-07	1.90E-04	3.30E-03	5.03E-04	2.61E-02	2.22E-02	7.54E-02
4097	494863.09	3854877.25	0.0073	0.00286	0.00376	0.00461	0.009	0.005	0.0031	0.00286	5.09E-02	5.28E-03	3.91E-07	1.62E-04	2.84E-03	4.42E-04	2.22E-02	1.94E-02	6.24E-02
4098	495363.09	3854877.25	0.00633	0.0026	0.00341	0.00427	0.008	0.004	0.0028	0.0026	4.41E-02	4.80E-03	3.55E-07	1.50E-04	2.59E-03	4.06E-04	1.98E-02	1.77E-02	5.42E-02
4099	495863.09	3854877.25	0.00578	0.00245	0.0032	0.0041	0.008	0.004	0.0026	0.00245	4.03E-02	4.52E-03	3.33E-07	1.44E-04	2.43E-03	3.84E-04	1.84E-02	1.67E-02	4.95E-02
4100	496363.09	3854877.25	0.00512	0.00225	0.00295	0.00389	0.007	0.004	0.0024	0.00225	3.57E-02	4.16E-03	3.07E-07	1.37E-04	2.25E-03	3.53E-04	1.67E-02	1.53E-02	4.39E-02
4101	496863.09	3854877.25	0.00473	0.00212	0.00278	0.00377	0.007	0.004	0.0022	0.00212	3.30E-02	3.92E-03	2.89E-07	1.33E-04	2.10E-03	3.32E-04	1.57E-02	1.44E-02	4.07E-02
4102	497363.09	3854877.25	0.00459	0.00208	0.00271	0.00375	0.006	0.003	0.0022	0.00208	3.20E-02	3.84E-03	2.82E-07	1.32E-04	2.01E-03	3.25E-04	1.53E-02	1.41E-02	3.95E-02
4103	497863.09	3854877.25	0.00473	0.00216	0.00279	0.00387	0.007	0.004	0.0022	0.00216	3.30E-02	3.99E-03	2.90E-07	1.36E-04	2.04E-03	3.34E-04	1.58E-02	1.47E-02	4.06E-02
4104	498363.09	3854877.25	0.00462	0.00214	0.00273	0.00383	0.006	0.004	0.0022	0.00214	3.22E-02	3.95E-03	2.84E-07	1.35E-04	1.98E-03	3.31E-04	1.56E-02	1.46E-02	3.96E-02
4105	471363.09	3855377.25	0.00158	0.00127	0.00065	0.00097	0.001	0.001	0.0013	0.00127	1.10E-02	2.35E-03	6.77E-08	3.41E-05	4.04E-04	1.04E-04	9.00E-03	8.64E-03	1.43E-02
4106	471863.09	3855377.25	0.00166	0.0013	0.00068	0.00101	0.001	0.001	0.0013	0.0013	1.16E-02	2.40E-03	7.08E-08	3.55E-05	4.20E-04	1.09E-04	9.21E-03	8.84E-03	1.49E-02
4107	472363.09	3855377.25	0.00174	0.00134	0.00072	0.00107	0.001	0.001	0.0014	0.00134	1.21E-02	2.47E-03	7.50E-08	3.77E-05	4.42E-04	1.15E-04	9.57E-03	9.11E-03	1.57E-02
4108	472863.09	3855377.25	0.00182	0.00136	0.00075	0.00111	0.001	0.001	0.0014	0.00136	1.27E-02	2.51E-03	7.81E-08	3.91E-05	4.57E-04	1.19E-04	9.71E-03	9.25E-03	1.63E-02
4109	473363.09	3855377.25	0.00192	0.00142	0.00079	0.00118	0.002	0.001	0.0014	0.00142	1.34E-02	2.62E-03	8.22E-08	4.15E-05	4.83E-04	1.28E-04	1.01E-02	9.66E-03	1.71E-02
4110	473863.09	3855377.25	0.00202	0.00148	0.00084	0.00125	0.002	0.001	0.0015	0.00148	1.41E-02	2.73E-03	8.74E-08	4.40E-05	5.04E-04	1.35E-04	1.05E-02	1.01E-02	1.79E-02
4111	474363.09	3855377.25	0.00213	0.00152	0.00087	0.00131	0.002	0.002	0.0015	0.00152	1.48E-02	2.81E-03	9.06E-08	4.61E-05	5.26E-04	1.43E-04	1.08E-02	1.03E-02	1.89E-02
4112	474863.09	3855377.25	0.00218	0.00143	0.00088	0.00129	0.002	0.001	0.0014	0.00143	1.52E-02	2.64E-03	9.16E-08	4.54E-05	5.11E-04	1.40E-04	1.01E-02	9.72E-03	1.89E-02
4113	475363.09	3855377.25	0.00181	0.00116	0.00084	0.00115	0.001	0.001	0.0011	0.00116	1.26E-02	2.14E-03	8.74E-08	4.05E-05	4.32E-04	1.29E-04	8.01E-03	7.89E-03	1.55E-02
4114	475863.09	3855377.25	0.00175	0.00111	0.00086	0.00112	0.001	0.001	0.0011	0.00111	1.22E-02	2.05E-03	8.95E-08	3.94E-05	4.36E-04	1.29E-04	7.58E-03	7.55E-03	1.49E-02

4115	476363.09	3855377.25	0.00189	0.00118	0.00091	0.0012	0.002	0.001	0.0011	0.00118	1.32E-02	2.18E-03	9.47E-08	4.22E-05	4.73E-04	1.36E-04	8.08E-03	8.02E-03	1.61E-02
4116	476863.09	3855377.25	0.00198	0.00121	0.00095	0.00123	0.002	0.002	0.0012	0.00121	1.38E-02	2.23E-03	9.89E-08	4.33E-05	5.04E-04	1.41E-04	8.22E-03	8.23E-03	1.67E-02
4117	477363.09	3855377.25	0.00213	0.00127	0.001	0.00131	0.002	0.002	0.0012	0.00127	1.48E-02	2.35E-03	1.04E-07	4.61E-05	5.42E-04	1.49E-04	8.71E-03	8.64E-03	1.80E-02
4118	477863.09	3855377.25	0.00241	0.0014	0.00109	0.00144	0.002	0.002	0.0014	0.0014	1.68E-02	2.59E-03	1.13E-07	5.07E-05	5.95E-04	1.62E-04	9.64E-03	9.52E-03	2.03E-02
4119	478363.09	3855377.25	0.0028	0.00156	0.00121	0.00158	0.002	0.002	0.0015	0.00156	1.95E-02	2.88E-03	1.26E-07	5.56E-05	6.64E-04	1.78E-04	1.08E-02	1.06E-02	2.35E-02
4120	478863.09	3855377.25	0.00323	0.00173	0.00133	0.00177	0.002	0.002	0.0017	0.00173	2.25E-02	3.20E-03	1.38E-07	6.23E-05	7.52E-04	1.96E-04	1.20E-02	1.18E-02	2.70E-02
4121	479363.09	3855377.25	0.00394	0.00193	0.00151	0.00205	0.003	0.002	0.0019	0.00193	2.75E-02	3.56E-03	1.57E-07	7.22E-05	8.99E-04	2.24E-04	1.37E-02	1.31E-02	3.28E-02
4122	479863.09	3855377.25	0.0047	0.00215	0.00177	0.00237	0.003	0.003	0.0022	0.00215	3.28E-02	3.97E-03	1.84E-07	8.34E-05	1.03E-03	2.57E-04	1.54E-02	1.46E-02	3.89E-02
4123	480363.09	3855377.25	0.00582	0.00251	0.00224	0.0029	0.004	0.003	0.0026	0.00251	4.06E-02	4.64E-03	2.33E-07	1.02E-04	1.26E-03	3.11E-04	1.84E-02	1.71E-02	4.82E-02
4124	480863.09	3855377.25	0.00699	0.0031	0.00319	0.00349	0.004	0.004	0.0031	0.0031	4.87E-02	5.73E-03	3.32E-07	1.23E-04	1.38E-03	3.88E-04	2.20E-02	2.11E-02	5.72E-02
4125	481363.09	3855377.25	0.0082	0.00397	0.00463	0.00406	0.005	0.005	0.0036	0.00397	5.72E-02	7.33E-03	4.82E-07	1.43E-04	1.47E-03	5.09E-04	2.56E-02	2.70E-02	6.52E-02
4126	481863.09	3855377.25	0.01064	0.00508	0.00643	0.00458	0.005	0.007	0.004	0.00508	7.42E-02	9.38E-03	6.69E-07	1.61E-04	1.51E-03	6.72E-04	2.86E-02	3.45E-02	7.99E-02
4127	482363.09	3855377.25	0.01691	0.00667	0.00952	0.00527	0.005	0.01	0.0044	0.00667	1.18E-01	1.23E-02	9.91E-07	1.85E-04	1.55E-03	9.14E-04	3.15E-02	4.54E-02	1.19E-01
4128	482863.09	3855377.25	0.07413	0.00988	0.0163	0.00636	0.005	0.015	0.0051	0.00988	5.17E-01	1.82E-02	1.70E-06	2.24E-04	1.67E-03	1.43E-03	3.61E-02	6.72E-02	5.07E-01
4129	483363.09	3855377.25	0.10379	0.02195	0.02081	0.00789	0.006	0.113	0.0061	0.02195	7.24E-01	4.05E-02	2.17E-06	2.78E-04	1.80E-03	1.07E-02	4.31E-02	1.49E-01	6.71E-01
4130	483863.09	3855377.25	0.11598	0.14213	0.02292	0.01046	0.006	0.042	0.0081	0.14213	8.09E-01	2.63E-01	2.39E-06	3.68E-04	1.95E-03	3.95E-03	5.74E-02	9.66E-01	1.68E-01
4131	484363.09	3855377.25	0.12451	0.02832	0.02582	0.01652	0.007	0.025	0.0123	0.02832	8.68E-01	5.23E-02	2.69E-06	5.81E-04	2.18E-03	2.38E-03	8.73E-02	1.93E-01	8.20E-01
4132	484863.09	3855377.25	0.1262	0.01702	0.02026	0.03718	0.008	0.036	0.0337	0.01702	8.80E-01	3.14E-02	2.11E-06	1.31E-03	2.39E-03	3.38E-03	2.39E-01	1.16E-01	1.04E+00
4133	485363.09	3855377.25	0.07784	0.01218	0.01971	0.29352	0.008	0.106	0.078	0.01218	5.43E-01	2.25E-02	2.05E-06	1.03E-02	2.52E-03	9.92E-03	5.53E-01	8.28E-02	1.06E+00
4134	485863.09	3855377.25	0.04823	0.00969	0.01843	0.05946	0.009	0.036	0.0285	0.00969	3.36E-01	1.79E-02	1.92E-06	2.09E-03	2.73E-03	3.36E-03	2.02E-01	6.59E-02	4.98E-01
4135	486363.09	3855377.25	0.03768	0.008	0.01654	0.03297	0.009	0.023	0.0176	0.008	2.63E-01	1.48E-02	1.72E-06	1.16E-03	2.84E-03	2.13E-03	1.25E-01	5.44E-02	3.54E-01
4136	486863.09	3855377.25	0.03101	0.00693	0.01436	0.02289	0.01	0.017	0.0129	0.00693	2.16E-01	1.28E-02	1.49E-06	8.06E-04	3.13E-03	1.59E-03	9.15E-02	4.71E-02	2.79E-01
4137	487363.09	3855377.25	0.02662	0.00655	0.01314	0.01902	0.012	0.015	0.0111	0.00655	1.86E-01	1.21E-02	1.37E-06	6.69E-04	3.64E-03	1.38E-03	7.83E-02	4.45E-02	2.37E-01
4138	487863.09	3855377.25	0.02331	0.00618	0.01212	0.01639	0.009	0.013	0.0097	0.00618	1.63E-01	1.14E-02	1.26E-06	5.77E-04	2.81E-03	1.23E-03	6.84E-02	4.20E-02	2.05E-01
4139	488363.09	3855377.25	0.02079	0.00585	0.01118	0.01453	0.009	0.012	0.0086	0.00585	1.45E-01	1.08E-02	1.16E-06	5.11E-04	2.90E-03	1.12E-03	6.09E-02	3.98E-02	1.81E-01
4140	488863.09	3855377.25	0.01887	0.00561	0.01038	0.01306	0.012	0.011	0.0078	0.00561	1.32E-01	1.04E-02	1.08E-06	4.60E-04	3.60E-03	1.04E-03	5.53E-02	3.81E-02	1.64E-01
4141	489363.09	3855377.25	0.01739	0.00538	0.00934	0.01186	0.013	0.01	0.0072	0.00538	1.21E-01	9.94E-03	9.72E-07	4.17E-04	4.10E-03	9.71E-04	5.09E-02	3.66E-02	1.51E-01
4142	489863.09	3855377.25	0.01628	0.00512	0.00862	0.01084	0.014	0.01	0.0067	0.00512	1.13E-01	9.46E-03	8.97E-07	3.82E-04	4.51E-03	8.99E-04	4.71E-02	3.48E-02	1.41E-01
4143	490363.09	3855377.25	0.01523	0.00504	0.00785	0.01024	0.015	0.009	0.0063	0.00504	1.06E-01	9.31E-03	8.17E-07	3.60E-04	4.85E-03	8.65E-04	4.46E-02	3.43E-02	1.32E-01
4144	490863.09	3855377.25	0.01348	0.00401	0.00596	0.00798	0.013	0.007	0.005	0.00401	9.40E-02	7.41E-03	6.20E-07	2.81E-04	3.92E-03	6.80E-04	3.55E-02	2.73E-02	1.14E-01
4145	491363.09	3855377.25	0.01205	0.00373	0.00546	0.00708	0.013	0.007	0.0045	0.00373	8.40E-02	6.89E-03	5.68E-07	2.49E-04	4.07E-03	6.20E-04	3.18E-02	2.54E-02	1.02E-01
4146	491863.09	3855377.25	0.0129	0.00443	0.00634	0.00837	0.018	0.008	0.0053	0.00443	8.99E-02	8.18E-03	6.60E-07	2.95E-04	5.69E-03	7.39E-04	3.74E-02	3.01E-02	1.12E-01
4147	492363.09	3855377.25	0.01231	0.00436	0.00605	0.00814	0.018	0.008	0.0051	0.00436	8.58E-02	8.05E-03	6.30E-07	2.86E-04	5.77E-03	7.28E-04	3.61E-02	2.96E-02	1.07E-01
4148	492863.09	3855377.25	0.01174	0.00419	0.00571	0.00768	0.018	0.007	0.0048	0.00419	8.18E-02	7.74E-03	5.94E-07	2.70E-04	5.60E-03	6.99E-04	3.43E-02	2.85E-02	1.02E-01
4149	493363.09	3855377.25	0.0111	0.00389	0.00539	0.00752	0.016	0.007	0.0045	0.00389	7.74E-02	7.18E-03	5.61E-07	2.65E-04	5.15E-03	6.53E-04	3.18E-02	2.65E-02	9.60E-02
4150	493863.09	3855377.25	0.01003	0.00345	0.0047	0.0064	0.014	0.006	0.0039	0.00345	6.99E-02	6.37E-03	4.89E-07	2.25E-04	4.37E-03	5.77E-04	2.78E-02	2.35E-02	8.58E-02
4151	494363.09	3855377.25	0.00831	0.00302	0.00406	0.00551	0.012	0.005	0.0033	0.00302	5.79E-02	5.58E-03	4.23E-07	1.94E-04	3.69E-03	5.06E-04	2.36E-02	2.05E-02	7.10E-02
4152	494863.09	3855377.25	0.00679	0.00265	0.00357	0.00491	0.01	0.005	0.0028	0.00265	4.73E-02	4.89E-03	3.72E-07	1.73E-04	3.16E-03	4.46E-04	2.01E-02	1.80E-02	5.81E-02
4153	495363.09	3855377.25	0.0058	0.00241	0.00324	0.00459	0.009	0.004	0.0025	0.00241	4.04E-02	4.45E-03	3.37E-07	1.62E-04	2.80E-03	4.03E-04	1.79E-02	1.64E-02	4.97E-02
4154	495863.09	3855377.25	0.00521	0.00223	0.00303	0.00437	0.008	0.004	0.0023	0.00223	3.63E-02	4.12E-03	3.15E-07	1.54E-04	2.54E-03	3.74E-04	1.64E-02	1.52E-02	4.47E-02
4155	496363.09	3855377.25	0.00502	0.00218	0.00295	0.00433	0.008	0.004	0.0023	0.00218	3.50E-02	4.03E-03	3.07E-07	1.52E-04	2.42E-03	3.66E-04	1.59E-02	1.48E-02	4.31E-02
4156	496863.09	3855377.25	0.00488	0.00215	0.0029	0.00427	0.007	0.004	0.0022	0.00215	3.40E-02	3.97E-03	3.02E-07	1.50E-04	2.30E-03	3.57E-04	1.57E-02	1.46E-02	4.18E-02
4157	497363.09	3855377.25	0.00483	0.00216	0.00287	0.00427	0.007	0.004	0.0022	0.00216	3.37E-02	3.99E-03	2.99E-07	1.50E-04	2.24E-03	3.55E-04	1.57E-02	1.47E-02	4.14E-02
4158	497863.09	3855377.25	0.00487	0.00219	0.00292	0.0043	0.007	0.004	0.0022	0.00219	3.40E-02	4.04E-03	3.04E-07	1.51E-04	2.20E-03	3.60E-04	1.59E-02	1.49E-02	4.17E-02
4159	498363.09	3855377.25	0.00496	0.00224	0.00294	0.00436	0.007	0.004	0.0023	0.00224	3.46E-02	4.14E-03	3.06E-07	1.53E-04	2.17E-03	3.68E-04	1.63E-02	1.52E-02	4.25E-02
4160	471363.09	3855877.25	0.00153	0.00124	0.00064	0.00097	0.001	0.001	0.0013	0.00124	1.07E-02	2.29E-03	6.66E-08	3.41E-05	3.70E-04	1.02E-04	8.86E-03	8.43E-03	1.39E-02
4161	471863.09	3855877.25	0.0016	0.00127	0.00067	0.00101	0.001	0.001	0.0013	0.00127	1.12E-02	2.35E-03	6.98E-08	3.55E-05	3.89E-04	1.06E-04	9.07E-03	8.64E-03	1.45E-02
4162	472363.09	3855877.25	0.0017	0.00132	0.00071	0.00106	0.001	0.001	0.0013	0.00132	1.19E-02	2.44E-03	7.39E-08	3.73E-05	4.10E-04	1.13E-04	9.49E-03	8.98E-03	1.54E-02
4163	472863.09	3855877.25	0.00178	0.00133	0.00074	0.0011	0.001	0.001	0.0014	0.00133	1.24E-02	2.46E-03	7.70E-08	3.87E-05	4.29E-04	1.17E-04	9.57E-03	9.04E-03	1.60E-02
4164	473363.09	3855877.25	0.00189	0.0014	0.0008	0.00118	0.001	0.001	0.0014	0.0014	1.32E-02	2.59E-03	8.33E-08	4.15E-05	4.57E-04	1.27E-04	1.01E-02	9.52E-03	1.69E-02
4165	473863.09	3855877.25	0.002	0.00145	0.00085	0.00125	0.002	0.001	0.0015	0.00145	1.39E-02	2.68E-03	8.85E-08	4.40E-05	4.86E-04	1.34E-04	1.04E-02	9.86E-03	1.78E-02
4166	474363.09	3855877.25	0.00211	0.00148	0.00088	0.00132	0.002	0.002	0.0015	0.00148	1.47E-02	2.73E-03	9.16E-08	4.65E-05	5.11E-04	1.42E-04	1.07E-02	1.01E-02	1.88E-02
4167	474863.09	3855877.25	0.00215	0.00136	0.00085	0.00128	0.002	0.001	0.0014	0.00136	1.50E-02	2.51E-03	8.85E-08	4.51E-05	4.98E-04	1.37E-04	9.78E-03	9.25E-03	1.87E-02
4168	475363.09	3855877.25	0.00194	0.00119	0.00084	0.00118	0.001	0.001	0.0012	0.00119	1.35E-02	2.20E-03	8.74E-08	4.15E-05	4.51E-04	1.31E-04	8.36E-03	8.09E-03	1.66E-02
4169	475863.09	3855877.25	0.00158	0.00099	0.00077	0.00104	0.001	0.001	0.001	0.00099	1.10E-02	1.83E-03	8.02E-08	3.66E-05	4.07E-04	1.20E-04	6.80E-03	6.73E-03	1.35E-02
4170	476363.09	3855877.25	0.00167	0.00103	0.00081	0.0011	0.001	0.001	0.001	0.00103	1.16E-02	1.90E-03	8.43E-08	3.87E-05	4.29E-04	1.27E-04	7.09E-03	7.00E-03	1.42E-02
4171	476863.09	3855877.25	0.00192	0.00117	0.00091	0.00123	0.002	0.002	0.0011	0.00117	1.34E-02	2.16E-03	9.47E-08	4.33E-05	4.70E-04	1.42E-04	8.08E-03	7.96E-03	1.63E-02
4172	477363.09	3855877.25	0.00214	0.00126	0.00099	0.00133	0.002	0.002	0.0012	0.00126	1.49E-02	2.33E-03	1.03E-07	4.68E-05	5.08E-04	1.53E-04	8.71E-03	8.57E-03	1.81E-02

4173	477863.09	3855877.25	0.00242	0.00137	0.00109	0.00144	0.002	0.002	0.0013	0.00137	1.69E-02	2.53E-03	1.13E-07	5.07E-05	5.48E-04	1.65E-04	9.49E-03	9.32E-03	2.03E-02
4174	478363.09	3855877.25	0.00281	0.00151	0.0012	0.00161	0.002	0.002	0.0015	0.00151	1.96E-02	2.79E-03	1.25E-07	5.67E-05	6.02E-04	1.80E-04	1.06E-02	1.03E-02	2.35E-02
4175	478863.09	3855877.25	0.00338	0.00168	0.00134	0.00181	0.002	0.002	0.0017	0.00168	2.36E-02	3.10E-03	1.40E-07	6.37E-05	6.86E-04	2.01E-04	1.18E-02	1.14E-02	2.80E-02
4176	479363.09	3855877.25	0.00411	0.00188	0.0015	0.00212	0.003	0.002	0.0019	0.00188	2.87E-02	3.47E-03	1.56E-07	7.46E-05	7.93E-04	2.29E-04	1.36E-02	1.28E-02	3.40E-02
4177	479863.09	3855877.25	0.00491	0.00209	0.00173	0.00246	0.003	0.003	0.0022	0.00209	3.42E-02	3.86E-03	1.80E-07	8.66E-05	9.15E-04	2.63E-04	1.53E-02	1.42E-02	4.04E-02
4178	480363.09	3855877.25	0.00589	0.00239	0.00216	0.00291	0.004	0.003	0.0025	0.00239	4.11E-02	4.41E-03	2.25E-07	1.02E-04	1.11E-03	3.10E-04	1.76E-02	1.63E-02	4.84E-02
4179	480863.09	3855877.25	0.00701	0.00283	0.00281	0.00343	0.004	0.004	0.0029	0.00283	4.89E-02	5.23E-03	2.93E-07	1.21E-04	1.32E-03	3.76E-04	2.04E-02	1.92E-02	5.71E-02
4180	481363.09	3855877.25	0.00852	0.00305	0.00308	0.00381	0.005	0.004	0.0031	0.00305	5.94E-02	5.63E-03	3.21E-07	1.34E-04	1.48E-03	4.17E-04	2.19E-02	2.07E-02	6.82E-02
4181	481863.09	3855877.25	0.00988	0.00434	0.00451	0.00435	0.006	0.006	0.0036	0.00434	6.89E-02	8.02E-03	4.70E-07	1.53E-04	1.73E-03	5.81E-04	2.52E-02	2.95E-02	7.51E-02
4182	482363.09	3855877.25	0.01359	0.00531	0.00644	0.00478	0.006	0.008	0.0038	0.00531	9.47E-02	9.81E-03	6.70E-07	1.68E-04	1.84E-03	7.30E-04	2.67E-02	3.61E-02	9.79E-02
4183	482863.09	3855877.25	0.02429	0.0067	0.0093	0.00541	0.006	0.01	0.0042	0.0067	1.69E-01	1.24E-02	9.68E-07	1.90E-04	2.02E-03	9.86E-04	2.95E-02	4.56E-02	1.69E-01
4184	483363.09	3855877.25	0.09093	0.00955	0.01129	0.00627	0.007	0.019	0.0047	0.00955	6.34E-01	1.76E-02	1.18E-06	2.21E-04	2.20E-03	1.78E-03	3.34E-02	6.49E-02	6.24E-01
4185	483863.09	3855877.25	0.11047	0.01972	0.02335	0.00752	0.008	0.298	0.0056	0.01972	7.70E-01	3.64E-02	2.43E-06	2.65E-04	2.43E-03	2.80E-02	3.98E-02	1.34E-01	7.43E-01
4186	484363.09	3855877.25	0.12068	0.2299	0.07102	0.00986	0.009	0.041	0.0074	0.2299	8.41E-01	4.25E-01	7.39E-06	3.47E-04	2.79E-03	3.82E-03	5.25E-02	1.56E+00	-2.38E-01
4187	484863.09	3855877.25	0.12718	0.03604	0.10394	0.01465	0.01	0.027	0.0111	0.03604	8.87E-01	6.66E-02	1.08E-05	5.16E-04	3.25E-03	2.49E-03	7.86E-02	2.45E-01	7.93E-01
4188	485363.09	3855877.25	0.12891	0.01998	0.0801	0.02935	0.012	0.032	0.0296	0.01998	8.99E-01	3.69E-02	8.34E-06	1.03E-03	3.85E-03	3.01E-03	2.10E-01	1.36E-01	1.02E+00
4189	485863.09	3855877.25	0.09169	0.01372	0.0464	0.88655	0.014	0.158	0.0861	0.01372	6.39E-01	2.53E-02	4.83E-06	3.12E-02	4.46E-03	1.49E-02	6.10E-01	9.33E-02	1.23E+00
4190	486363.09	3855877.25	0.05329	0.0103	0.02881	0.06786	0.016	0.038	0.028	0.0103	3.72E-01	1.90E-02	3.00E-06	2.39E-03	5.11E-03	3.61E-03	1.98E-01	7.00E-02	5.30E-01
4191	486863.09	3855877.25	0.04086	0.00864	0.02106	0.03627	0.019	0.024	0.0177	0.00864	2.85E-01	1.60E-02	2.19E-06	1.28E-03	5.83E-03	2.29E-03	1.26E-01	5.88E-02	3.77E-01
4192	487363.09	3855877.25	0.0331	0.00799	0.01706	0.02676	0.022	0.02	0.0141	0.00799	2.31E-01	1.48E-02	1.78E-06	9.42E-04	6.89E-03	1.85E-03	9.99E-02	5.43E-02	3.01E-01
4193	487863.09	3855877.25	0.02799	0.0075	0.01452	0.02152	0.019	0.017	0.0118	0.0075	1.95E-01	1.39E-02	1.51E-06	7.57E-04	6.04E-03	1.57E-03	8.38E-02	5.10E-02	2.50E-01
4194	488363.09	3855877.25	0.02436	0.00698	0.01232	0.01813	0.021	0.015	0.0102	0.00698	1.70E-01	1.29E-02	1.28E-06	6.38E-04	6.54E-03	1.38E-03	7.20E-02	4.75E-02	2.16E-01
4195	488863.09	3855877.25	0.02169	0.00654	0.01101	0.01584	0.025	0.013	0.009	0.00654	1.51E-01	1.21E-02	1.15E-06	5.58E-04	7.92E-03	1.25E-03	6.34E-02	4.45E-02	1.92E-01
4196	489363.09	3855877.25	0.01971	0.00614	0.0101	0.0142	0.028	0.012	0.008	0.00614	1.37E-01	1.13E-02	1.05E-06	5.00E-04	8.79E-03	1.15E-03	5.67E-02	4.18E-02	1.74E-01
4197	489863.09	3855877.25	0.01816	0.0058	0.00874	0.01302	0.03	0.012	0.0073	0.0058	1.27E-01	1.07E-02	9.10E-07	4.58E-04	9.50E-03	1.08E-03	5.17E-02	3.94E-02	1.61E-01
4198	490363.09	3855877.25	0.01683	0.00557	0.00806	0.01224	0.032	0.011	0.0068	0.00557	1.17E-01	1.03E-02	8.39E-07	4.31E-04	9.93E-03	1.01E-03	4.79E-02	3.79E-02	1.49E-01
4199	490863.09	3855877.25	0.01581	0.00522	0.00745	0.01159	0.031	0.01	0.0063	0.00522	1.10E-01	9.64E-03	7.76E-07	4.08E-04	9.82E-03	9.47E-04	4.46E-02	3.55E-02	1.40E-01
4200	491363.09	3855877.25	0.01499	0.00469	0.00652	0.01048	0.028	0.009	0.0057	0.00469	1.05E-01	8.66E-03	6.79E-07	3.69E-04	8.85E-03	8.57E-04	4.04E-02	3.19E-02	1.32E-01
4201	491863.09	3855877.25	0.01406	0.00486	0.00659	0.01059	0.029	0.009	0.0056	0.00486	9.80E-02	8.98E-03	6.86E-07	3.73E-04	9.20E-03	8.75E-04	3.99E-02	3.30E-02	1.24E-01
4202	492363.09	3855877.25	0.0134	0.0046	0.00625	0.0101	0.027	0.009	0.0053	0.0046	9.34E-02	8.50E-03	6.51E-07	3.55E-04	8.57E-03	8.28E-04	3.75E-02	3.13E-02	1.18E-01
4203	492863.09	3855877.25	0.01273	0.00438	0.00614	0.00969	0.025	0.008	0.005	0.00438	8.87E-02	8.09E-03	6.39E-07	3.41E-04	7.95E-03	7.89E-04	3.54E-02	2.98E-02	1.11E-01
4204	493363.09	3855877.25	0.01165	0.00381	0.00527	0.00826	0.02	0.007	0.0043	0.00381	8.12E-02	7.04E-03	5.49E-07	2.91E-04	6.41E-03	6.88E-04	3.08E-02	2.59E-02	1.00E-01
4205	493863.09	3855877.25	0.00963	0.00328	0.00446	0.00705	0.016	0.006	0.0036	0.00328	6.71E-02	6.06E-03	4.64E-07	2.48E-04	4.99E-03	5.88E-04	2.56E-02	2.23E-02	8.23E-02
4206	494363.09	3855877.25	0.0076	0.00284	0.00383	0.00624	0.013	0.005	0.003	0.00284	5.30E-02	5.25E-03	3.99E-07	2.20E-04	3.98E-03	5.09E-04	2.14E-02	1.93E-02	6.50E-02
4207	494863.09	3855877.25	0.00634	0.00254	0.00348	0.00569	0.011	0.005	0.0027	0.00254	4.42E-02	4.69E-03	3.62E-07	2.00E-04	3.38E-03	4.55E-04	1.88E-02	1.73E-02	5.44E-02
4208	495363.09	3855877.25	0.0053	0.00225	0.00312	0.00508	0.009	0.004	0.0023	0.00225	3.70E-02	4.16E-03	3.25E-07	1.79E-04	2.82E-03	4.01E-04	1.63E-02	1.53E-02	4.55E-02
4209	495863.09	3855877.25	0.00513	0.00221	0.00306	0.00498	0.008	0.004	0.0023	0.00221	3.58E-02	4.08E-03	3.19E-07	1.75E-04	2.65E-03	3.94E-04	1.59E-02	1.50E-02	4.40E-02
4210	496363.09	3855877.25	0.00502	0.00219	0.00302	0.00486	0.008	0.004	0.0022	0.00219	3.50E-02	4.04E-03	3.14E-07	1.71E-04	2.51E-03	3.88E-04	1.57E-02	1.49E-02	4.29E-02
4211	496863.09	3855877.25	0.005	0.0022	0.00302	0.00483	0.008	0.004	0.0022	0.0022	3.49E-02	4.06E-03	3.14E-07	1.70E-04	2.44E-03	3.87E-04	1.59E-02	1.50E-02	4.28E-02
4212	497363.09	3855877.25	0.00502	0.00223	0.00303	0.00481	0.008	0.004	0.0023	0.00223	3.50E-02	4.12E-03	3.15E-07	1.69E-04	2.38E-03	3.89E-04	1.61E-02	1.52E-02	4.30E-02
4213	497863.09	3855877.25	0.0051	0.00228	0.00304	0.00484	0.007	0.004	0.0023	0.00228	3.56E-02	4.21E-03	3.16E-07	1.70E-04	2.33E-03	3.96E-04	1.64E-02	1.55E-02	4.36E-02
4214	498363.09	3855877.25	0.0054	0.00239	0.00311	0.005	0.008	0.004	0.0024	0.00239	3.76E-02	4.41E-03	3.24E-07	1.76E-04	2.39E-03	4.15E-04	1.73E-02	1.63E-02	4.61E-02
4215	471363.09	3856377.25	0.00149	0.00119	0.00062	0.00097	0.001	0.001	0.0012	0.00119	1.04E-02	2.20E-03	6.45E-08	3.41E-05	3.48E-04	1.02E-04	8.50E-03	8.09E-03	1.35E-02
4216	471863.09	3856377.25	0.00156	0.00122	0.00064	0.00101	0.001	0.001	0.0012	0.00122	1.09E-02	2.25E-03	6.66E-08	3.55E-05	3.60E-04	1.06E-04	8.79E-03	8.30E-03	1.41E-02
4217	472363.09	3856377.25	0.00165	0.00126	0.00068	0.00106	0.001	0.001	0.0013	0.00126	1.15E-02	2.33E-03	7.08E-08	3.73E-05	3.76E-04	1.12E-04	9.14E-03	8.57E-03	1.49E-02
4218	472863.09	3856377.25	0.00175	0.00132	0.00072	0.00112	0.001	0.001	0.0013	0.00132	1.22E-02	2.44E-03	7.50E-08	3.94E-05	3.95E-04	1.18E-04	9.49E-03	8.98E-03	1.57E-02
4219	473363.09	3856377.25	0.00184	0.00136	0.00077	0.00118	0.001	0.001	0.0014	0.00136	1.28E-02	2.51E-03	8.02E-08	4.15E-05	4.14E-04	1.25E-04	9.85E-03	9.25E-03	1.65E-02
4220	473863.09	3856377.25	0.00196	0.00143	0.00084	0.00126	0.001	0.001	0.0015	0.00143	1.37E-02	2.64E-03	8.74E-08	4.43E-05	4.39E-04	1.34E-04	1.03E-02	9.72E-03	1.75E-02
4221	474363.09	3856377.25	0.00206	0.00142	0.00086	0.0013	0.001	0.001	0.0015	0.00142	1.44E-02	2.62E-03	8.95E-08	4.58E-05	4.54E-04	1.38E-04	1.03E-02	9.66E-03	1.82E-02
4222	474863.09	3856377.25	0.00216	0.00138	0.00084	0.00132	0.001	0.001	0.0014	0.00138	1.51E-02	2.55E-03	8.74E-08	4.65E-05	4.67E-04	1.38E-04	1.01E-02	9.38E-03	1.89E-02
4223	475363.09	3856377.25	0.00217	0.00128	0.00083	0.00129	0.001	0.001	0.0013	0.00128	1.51E-02	2.36E-03	8.64E-08	4.54E-05	4.64E-04	1.35E-04	9.35E-03	8.70E-03	1.88E-02
4224	475863.09	3856377.25	0.00197	0.00116	0.00083	0.0012	0.001	0.001	0.0012	0.00116	1.37E-02	2.14E-03	8.64E-08	4.22E-05	4.51E-04	1.32E-04	8.29E-03	7.89E-03	1.69E-02
4225	476363.09	3856377.25	0.00199	0.00116	0.00086	0.00123	0.001	0.001	0.0012	0.00116	1.39E-02	2.14E-03	8.95E-08	4.33E-05	4.64E-04	1.37E-04	8.29E-03	7.89E-03	1.71E-02
4226	476863.09	3856377.25	0.00209	0.0012	0.00091	0.00129	0.002	0.002	0.0012	0.0012	1.46E-02	2.22E-03	9.47E-08	4.54E-05	4.86E-04	1.45E-04	8.50E-03	8.16E-03	1.78E-02
4227	477363.09	3856377.25	0.00223	0.00126	0.00099	0.00137	0.002	0.002	0.0013	0.00126	1.55E-02	2.33E-03	1.03E-07	4.82E-05	5.14E-04	1.53E-04	8.86E-03	8.57E-03	1.89E-02
4228	477863.09	3856377.25	0.00214	0.00124	0.001	0.00135	0.002	0.002	0.0012	0.00124	1.49E-02	2.29E-03	1.04E-07	4.75E-05	5.23E-04	1.56E-04	8.57E-03	8.43E-03	1.81E-02
4229	478363.09	3856377.25	0.00219	0.00125	0.00107	0.00137	0.002	0.002	0.0012	0.00125	1.53E-02	2.31E-03	1.11E-07	4.82E-05	5.33E-04	1.63E-04	8.50E-03	8.50E-03	1.83E-02
4230	478863.09	3856377.25	0.003	0.00151	0.00132	0.00168	0.002	0.002	0.0015	0.00151	2.09E-02	2.79E-03	1.37E-07	5.91E-05	6.33E-04	1.92E-04	1.06E-02	1.03E-02	2.49E-02

4231	479363.09	3856377.25	0.00365	0.00167	0.00151	0.00189	0.002	0.002	0.0017	0.00167	2.54E-02	3.08E-03	1.57E-07	6.65E-05	7.11E-04	2.14E-04	1.18E-02	1.14E-02	3.00E-02
4232	479863.09	3856377.25	0.00479	0.00196	0.00173	0.00237	0.003	0.003	0.002	0.00196	3.34E-02	3.62E-03	1.80E-07	8.34E-05	8.80E-04	2.58E-04	1.43E-02	1.33E-02	3.92E-02
4233	480363.09	3856377.25	0.00575	0.0023	0.00204	0.00284	0.003	0.003	0.0024	0.0023	4.01E-02	4.25E-03	2.12E-07	1.00E-04	1.07E-03	3.10E-04	1.69E-02	1.56E-02	4.70E-02
4234	480863.09	3856377.25	0.0066	0.00267	0.00245	0.00329	0.004	0.004	0.0027	0.00267	4.60E-02	4.93E-03	2.55E-07	1.16E-04	1.23E-03	3.59E-04	1.90E-02	1.82E-02	5.35E-02
4235	481363.09	3856377.25	0.00751	0.00318	0.00326	0.00368	0.004	0.005	0.003	0.00318	5.24E-02	5.87E-03	3.39E-07	1.30E-04	1.39E-03	4.33E-04	2.10E-02	2.16E-02	5.96E-02
4236	481863.09	3856377.25	0.00864	0.00387	0.00431	0.0041	0.005	0.006	0.0032	0.00387	6.02E-02	7.15E-03	4.49E-07	1.44E-04	1.55E-03	5.35E-04	2.28E-02	2.63E-02	6.61E-02
4237	482363.09	3856377.25	0.01077	0.00451	0.00613	0.00445	0.006	0.007	0.0034	0.00451	7.51E-02	8.33E-03	6.38E-07	1.57E-04	1.73E-03	6.41E-04	2.41E-02	3.07E-02	7.94E-02
4238	482863.09	3856377.25	0.01546	0.00531	0.00666	0.00493	0.006	0.008	0.0037	0.00531	1.08E-01	9.81E-03	6.93E-07	1.74E-04	2.00E-03	7.75E-04	2.60E-02	3.61E-02	1.10E-01
4239	483363.09	3856377.25	0.04431	0.00653	0.00865	0.00552	0.008	0.011	0.004	0.00653	3.09E-01	1.21E-02	9.01E-07	1.94E-04	2.35E-03	1.03E-03	2.83E-02	4.44E-02	3.08E-01
4240	483863.09	3856377.25	0.09996	0.00906	0.01446	0.00628	0.009	0.018	0.0045	0.00906	6.97E-01	1.67E-02	1.51E-06	2.21E-04	2.79E-03	1.72E-03	3.21E-02	6.16E-02	6.89E-01
4241	484363.09	3856377.25	0.1145	0.01666	0.03634	0.00741	0.011	0.179	0.0055	0.01666	7.98E-01	3.08E-02	3.78E-06	2.61E-04	3.35E-03	1.68E-02	3.88E-02	1.13E-01	7.75E-01
4242	484863.09	3856377.25	0.12249	0.17119	0.04526	0.00952	0.013	0.051	0.007	0.17119	8.54E-01	3.16E-01	4.71E-06	3.35E-04	4.15E-03	4.75E-03	4.97E-02	1.16E+00	6.51E-02
4243	485363.09	3856377.25	0.12795	0.04784	0.0436	0.0135	0.017	0.03	0.0104	0.04784	8.92E-01	8.84E-02	4.54E-06	4.75E-04	5.42E-03	2.78E-03	7.35E-02	3.25E-01	7.37E-01
4244	485863.09	3856377.25	0.13002	0.02294	0.03013	0.02446	0.024	0.03	0.026	0.02294	9.06E-01	4.24E-02	3.14E-06	8.61E-04	7.46E-03	2.86E-03	1.84E-01	1.56E-01	9.88E-01
4245	486363.09	3856377.25	0.11271	0.01398	0.01962	0.22468	0.033	0.304	0.0993	0.01398	7.86E-01	2.58E-02	2.04E-06	7.91E-03	1.04E-02	2.85E-02	7.04E-01	9.51E-02	1.47E+00
4246	486863.09	3856377.25	0.05561	0.0114	0.01601	0.08606	0.047	0.046	0.0314	0.0114	3.88E-01	2.11E-02	1.67E-06	3.03E-03	1.48E-02	4.33E-03	2.22E-01	7.75E-02	5.76E-01
4247	487363.09	3856377.25	0.04077	0.01001	0.01305	0.04163	0.062	0.028	0.0195	0.01001	2.84E-01	1.85E-02	1.36E-06	1.47E-03	1.94E-02	2.66E-03	1.38E-01	6.81E-02	3.96E-01
4248	487863.09	3856377.25	0.03271	0.00919	0.01146	0.02872	0.065	0.022	0.0146	0.00919	2.28E-01	1.70E-02	1.19E-06	1.01E-03	2.04E-02	2.05E-03	1.04E-01	6.25E-02	3.10E-01
4249	488363.09	3856377.25	0.02761	0.00845	0.01016	0.02281	0.074	0.018	0.012	0.00845	1.92E-01	1.56E-02	1.06E-06	8.03E-04	2.33E-02	1.72E-03	8.50E-02	5.75E-02	2.61E-01
4250	488863.09	3856377.25	0.02412	0.0078	0.01025	0.01937	0.081	0.016	0.0103	0.0078	1.68E-01	1.44E-02	1.07E-06	6.82E-04	2.54E-02	1.53E-03	7.26E-02	5.30E-02	2.30E-01
4251	489363.09	3856377.25	0.02166	0.00723	0.00925	0.01708	0.079	0.015	0.009	0.00723	1.51E-01	1.34E-02	9.63E-07	6.01E-04	2.47E-02	1.40E-03	6.38E-02	4.92E-02	2.06E-01
4252	489863.09	3856377.25	0.01973	0.00673	0.00866	0.0157	0.072	0.014	0.0081	0.00673	1.38E-01	1.24E-02	9.02E-07	5.53E-04	2.27E-02	1.29E-03	5.71E-02	4.58E-02	1.86E-01
4253	490363.09	3856377.25	0.01825	0.00624	0.00823	0.01505	0.065	0.013	0.0073	0.00624	1.27E-01	1.15E-02	8.57E-07	5.30E-04	2.03E-02	1.20E-03	5.19E-02	4.24E-02	1.70E-01
4254	490863.09	3856377.25	0.01707	0.00582	0.00774	0.01478	0.057	0.012	0.0068	0.00582	1.19E-01	1.07E-02	8.06E-07	5.20E-04	1.79E-02	1.13E-03	4.78E-02	3.96E-02	1.58E-01
4255	491363.09	3856377.25	0.01602	0.0055	0.00759	0.01556	0.05	0.011	0.0063	0.0055	1.12E-01	1.02E-02	7.90E-07	5.48E-04	1.58E-02	1.07E-03	4.45E-02	3.74E-02	1.46E-01
4256	491863.09	3856377.25	0.01516	0.00519	0.0073	0.01589	0.044	0.011	0.0059	0.00519	1.06E-01	9.59E-03	7.60E-07	5.59E-04	1.38E-02	1.02E-03	4.16E-02	3.53E-02	1.37E-01
4257	492363.09	3856377.25	0.01446	0.00484	0.00688	0.01486	0.038	0.01	0.0055	0.00484	1.01E-01	8.94E-03	7.16E-07	5.23E-04	1.19E-02	9.43E-04	3.86E-02	3.29E-02	1.29E-01
4258	492863.09	3856377.25	0.01347	0.00429	0.00601	0.01437	0.03	0.009	0.0049	0.00429	9.39E-02	7.92E-03	6.26E-07	5.06E-04	9.54E-03	8.33E-04	3.44E-02	2.92E-02	1.18E-01
4259	493363.09	3856377.25	0.01087	0.0035	0.00474	0.01093	0.02	0.007	0.0038	0.0035	7.58E-02	6.46E-03	4.93E-07	3.85E-04	6.41E-03	6.74E-04	2.72E-02	2.38E-02	9.31E-02
4260	493863.09	3856377.25	0.00898	0.00315	0.0043	0.00928	0.017	0.006	0.0034	0.00315	6.26E-02	5.82E-03	4.48E-07	3.27E-04	5.19E-03	6.05E-04	2.38E-02	2.14E-02	7.69E-02
4261	494363.09	3856377.25	0.0072	0.00277	0.00387	0.00782	0.013	0.006	0.0029	0.00277	5.02E-02	5.12E-03	4.03E-07	2.75E-04	4.13E-03	5.32E-04	2.03E-02	1.88E-02	6.17E-02
4262	494863.09	3856377.25	0.00602	0.00248	0.0035	0.00676	0.011	0.005	0.0025	0.00248	4.20E-02	4.58E-03	3.64E-07	2.38E-04	3.39E-03	4.74E-04	1.79E-02	1.69E-02	5.16E-02
4263	495363.09	3856377.25	0.00535	0.0023	0.00326	0.006	0.009	0.005	0.0023	0.0023	3.73E-02	4.25E-03	3.39E-07	2.11E-04	2.89E-03	4.38E-04	1.64E-02	1.56E-02	4.59E-02
4264	495863.09	3856377.25	0.00514	0.00226	0.00319	0.00567	0.009	0.005	0.0023	0.00226	3.58E-02	4.17E-03	3.32E-07	2.00E-04	2.68E-03	4.27E-04	1.61E-02	1.54E-02	4.40E-02
4265	496363.09	3856377.25	0.00509	0.00226	0.00315	0.00549	0.008	0.005	0.0023	0.00226	3.55E-02	4.17E-03	3.28E-07	1.93E-04	2.54E-03	4.24E-04	1.60E-02	1.54E-02	4.35E-02
4266	496863.09	3856377.25	0.00518	0.00231	0.00317	0.00547	0.008	0.005	0.0023	0.00231	3.61E-02	4.27E-03	3.30E-07	1.93E-04	2.50E-03	4.30E-04	1.64E-02	1.57E-02	4.42E-02
4267	497363.09	3856377.25	0.00527	0.00236	0.00317	0.00547	0.008	0.005	0.0024	0.00236	3.67E-02	4.36E-03	3.30E-07	1.93E-04	2.43E-03	4.35E-04	1.68E-02	1.60E-02	4.49E-02
4268	497863.09	3856377.25	0.00547	0.00243	0.00321	0.00553	0.008	0.005	0.0025	0.00243	3.81E-02	4.49E-03	3.34E-07	1.95E-04	2.43E-03	4.50E-04	1.74E-02	1.65E-02	4.66E-02
4269	498363.09	3856377.25	0.00579	0.00253	0.00326	0.00565	0.008	0.005	0.0026	0.00253	4.04E-02	4.67E-03	3.39E-07	1.99E-04	2.47E-03	4.99E-04	1.83E-02	1.72E-02	4.93E-02
4270	471363.09	3856877.25	0.00147	0.00115	0.00062	0.00099	0.001	0.001	0.0012	0.00115	1.02E-02	2.12E-03	6.45E-08	3.48E-05	3.42E-04	1.03E-04	8.29E-03	7.82E-03	1.33E-02
4271	471863.09	3856877.25	0.00154	0.00117	0.00064	0.00102	0.001	0.001	0.0012	0.00117	1.07E-02	2.16E-03	6.66E-08	3.59E-05	3.54E-04	1.07E-04	8.43E-03	7.96E-03	1.39E-02
4272	472363.09	3856877.25	0.00162	0.00121	0.00068	0.00107	0.001	0.001	0.0012	0.00121	1.13E-02	2.23E-03	7.08E-08	3.77E-05	3.67E-04	1.13E-04	8.71E-03	8.23E-03	1.45E-02
4273	472863.09	3856877.25	0.00171	0.00124	0.00071	0.00112	0.001	0.001	0.0013	0.00124	1.19E-02	2.29E-03	7.39E-08	3.94E-05	3.82E-04	1.18E-04	9.00E-03	8.43E-03	1.53E-02
4274	473363.09	3856877.25	0.00182	0.00131	0.00076	0.00119	0.001	0.001	0.0013	0.00131	1.27E-02	2.42E-03	7.91E-08	4.19E-05	4.01E-04	1.26E-04	9.49E-03	8.91E-03	1.63E-02
4275	473863.09	3856877.25	0.00193	0.00136	0.0008	0.00125	0.001	0.001	0.0014	0.00136	1.35E-02	2.51E-03	8.33E-08	4.40E-05	4.17E-04	1.33E-04	9.85E-03	9.25E-03	1.72E-02
4276	474363.09	3856877.25	0.00203	0.00136	0.0008	0.00128	0.001	0.001	0.0014	0.00136	1.42E-02	2.51E-03	8.33E-08	4.51E-05	4.32E-04	1.34E-04	9.85E-03	9.25E-03	1.79E-02
4277	474863.09	3856877.25	0.00212	0.00132	0.00078	0.00129	0.001	0.001	0.0014	0.00132	1.48E-02	2.44E-03	8.12E-08	4.54E-05	4.42E-04	1.34E-04	9.71E-03	8.98E-03	1.86E-02
4278	475363.09	3856877.25	0.00216	0.00126	0.00079	0.00128	0.001	0.001	0.0013	0.00126	1.51E-02	2.33E-03	8.22E-08	4.51E-05	4.48E-04	1.33E-04	9.21E-03	8.57E-03	1.87E-02
4279	475863.09	3856877.25	0.00227	0.00126	0.00083	0.00132	0.001	0.001	0.0013	0.00126	1.58E-02	2.33E-03	8.64E-08	4.65E-05	4.67E-04	1.38E-04	9.28E-03	8.57E-03	1.95E-02
4280	476363.09	3856877.25	0.00226	0.00122	0.00085	0.00131	0.002	0.001	0.0013	0.00122	1.58E-02	2.25E-03	8.85E-08	4.61E-05	4.76E-04	1.40E-04	8.86E-03	8.30E-03	1.92E-02
4281	476863.09	3856877.25	0.00229	0.00123	0.00091	0.00134	0.002	0.002	0.0013	0.00123	1.60E-02	2.27E-03	9.47E-08	4.72E-05	4.92E-04	1.45E-04	8.86E-03	8.36E-03	1.94E-02
4282	477363.09	3856877.25	0.00227	0.00123	0.00097	0.00134	0.002	0.002	0.0012	0.00123	1.58E-02	2.27E-03	1.01E-07	4.72E-05	5.08E-04	1.49E-04	8.71E-03	8.36E-03	1.92E-02
4283	477863.09	3856877.25	0.00201	0.00116	0.00097	0.00128	0.002	0.002	0.0011	0.00116	1.40E-02	2.14E-03	1.01E-07	4.51E-05	4.92E-04	1.47E-04	8.08E-03	7.89E-03	1.70E-02
4284	478363.09	3856877.25	0.00205	0.00117	0.00101	0.00131	0.002	0.002	0.0011	0.00117	1.43E-02	2.16E-03	1.05E-07	4.61E-05	5.11E-04	1.52E-04	8.01E-03	7.96E-03	1.72E-02
4285	478863.09	3856877.25	0.00232	0.00128	0.0011	0.00145	0.002	0.002	0.0012	0.00128	1.62E-02	2.36E-03	1.15E-07	5.10E-05	5.61E-04	1.68E-04	8.79E-03	8.70E-03	1.94E-02
4286	479363.09	3856877.25	0.00277	0.00141	0.00122	0.00163	0.002	0.002	0.0014	0.00141	1.93E-02	2.60E-03	1.27E-07	5.74E-05	6.30E-04	1.88E-04	9.78E-03	9.59E-03	2.30E-02
4287	479863.09	3856877.25	0.00451	0.0018	0.00155	0.00227	0.002	0.003	0.0019	0.0018	3.14E-02	3.32E-03	1.61E-07	7.99E-05	7.80E-04	2.43E-04	1.32E-02	1.22E-02	3.69E-02
4288	480363.09	3856877.25	0.00544	0.00215	0.0019	0.00276	0.003	0.003	0.0022	0.00215	3.79E-02	3.97E-03	1.98E-07	9.71E-05	9.27E-04	2.97E-04	1.58E-02	1.46E-02	4.44E-02

4289	480863.09	3856877.25	0.00605	0.0026	0.00269	0.00315	0.003	0.004	0.0025	0.0026	4.22E-02	4.80E-03	2.80E-07	1.11E-04	1.07E-03	3.60E-04	1.80E-02	1.77E-02	4.88E-02
4290	481363.09	3856877.25	0.00666	0.00301	0.00326	0.00348	0.004	0.005	0.0028	0.00301	4.64E-02	5.56E-03	3.39E-07	1.22E-04	1.23E-03	4.31E-04	1.95E-02	2.05E-02	5.28E-02
4291	481863.09	3856877.25	0.0076	0.00336	0.00388	0.00382	0.004	0.005	0.0029	0.00336	5.30E-02	6.21E-03	4.04E-07	1.34E-04	1.38E-03	4.82E-04	2.08E-02	2.28E-02	5.91E-02
4292	482363.09	3856877.25	0.0087	0.00395	0.00521	0.00411	0.005	0.006	0.0031	0.00395	6.07E-02	7.30E-03	5.42E-07	1.45E-04	1.53E-03	5.74E-04	2.20E-02	2.69E-02	6.53E-02
4293	482863.09	3856877.25	0.01121	0.00447	0.00526	0.00448	0.006	0.007	0.0033	0.00447	7.82E-02	8.26E-03	5.48E-07	1.58E-04	1.75E-03	6.68E-04	2.35E-02	3.04E-02	8.20E-02
4294	483363.09	3856877.25	0.01823	0.00517	0.00572	0.00499	0.007	0.009	0.0036	0.00517	1.27E-01	9.55E-03	5.95E-07	1.76E-04	2.06E-03	8.07E-04	2.54E-02	3.52E-02	1.30E-01
4295	483863.09	3856877.25	0.08123	0.00629	0.00723	0.0056	0.008	0.011	0.004	0.00629	5.66E-01	1.16E-02	7.53E-07	1.97E-04	2.49E-03	1.04E-03	2.80E-02	4.28E-02	5.67E-01
4296	484363.09	3856877.25	0.102	0.00859	0.0093	0.00639	0.01	0.017	0.0045	0.00859	7.11E-01	1.59E-02	9.68E-07	2.25E-04	3.13E-03	1.62E-03	3.19E-02	5.84E-02	7.05E-01
4297	484863.09	3856877.25	0.11211	0.01386	0.00886	0.00751	0.013	0.071	0.0054	0.01386	7.82E-01	2.56E-02	9.22E-07	2.64E-04	4.07E-03	6.65E-03	3.80E-02	9.42E-02	7.62E-01
4298	485363.09	3856877.25	0.11884	0.05183	0.01042	0.00946	0.018	0.06	0.0068	0.05183	8.29E-01	9.57E-02	1.08E-06	3.33E-04	5.75E-03	5.60E-03	4.84E-02	3.52E-01	6.32E-01
4299	485863.09	3856877.25	0.12422	0.06758	0.00996	0.01299	0.029	0.032	0.01	0.06758	8.66E-01	1.25E-01	1.04E-06	4.57E-04	8.99E-03	3.03E-03	7.07E-02	4.60E-01	6.14E-01
4300	486363.09	3856877.25	0.13048	0.0222	0.0095	0.02308	0.055	0.028	0.0246	0.0222	9.10E-01	4.10E-02	9.89E-07	8.12E-04	1.72E-02	2.66E-03	1.74E-01	1.51E-01	9.95E-01
4301	486863.09	3856877.25	0.1187	0.01603	0.01049	0.12017	0.158	0.212	0.1153	0.01603	8.28E-01	2.96E-02	1.09E-06	4.23E-03	4.94E-02	1.99E-02	8.17E-01	1.09E-01	1.64E+00
4302	487363.09	3856877.25	0.05506	0.01332	0.00976	0.09556	1.947	0.054	0.0325	0.01332	3.84E-01	2.46E-02	1.02E-06	3.36E-03	6.10E-01	5.05E-03	2.31E-01	9.06E-02	1.17E+00
4303	487863.09	3856877.25	0.0393	0.01158	0.00936	0.04402	1.604	0.032	0.0198	0.01158	2.74E-01	2.14E-02	9.74E-07	1.55E-03	5.02E-01	2.99E-03	1.41E-01	7.87E-02	8.64E-01
4304	488363.09	3856877.25	0.03139	0.01043	0.01055	0.03032	0.481	0.025	0.0147	0.01043	2.19E-01	1.93E-02	1.10E-06	1.07E-03	1.51E-01	2.31E-03	1.04E-01	7.09E-02	4.26E-01
4305	488863.09	3856877.25	0.02671	0.00942	0.01015	0.02433	0.273	0.021	0.012	0.00942	1.86E-01	1.74E-02	1.06E-06	8.56E-04	8.56E-02	1.97E-03	8.50E-02	6.41E-02	3.13E-01
4306	489363.09	3856877.25	0.02358	0.00862	0.0105	0.02085	0.181	0.019	0.0103	0.00862	1.64E-01	1.59E-02	1.09E-06	7.34E-04	5.68E-02	1.76E-03	7.28E-02	5.86E-02	2.54E-01
4307	489863.09	3856877.25	0.02136	0.00789	0.00976	0.01913	0.13	0.017	0.0091	0.00789	1.49E-01	1.46E-02	1.02E-06	6.73E-04	4.09E-02	1.60E-03	6.42E-02	5.37E-02	2.17E-01
4308	490363.09	3856877.25	0.01981	0.00719	0.00984	0.01855	0.098	0.016	0.0081	0.00719	1.38E-01	1.33E-02	1.02E-06	6.53E-04	3.08E-02	1.47E-03	5.74E-02	4.89E-02	1.93E-01
4309	490863.09	3856877.25	0.0185	0.00661	0.00928	0.02031	0.076	0.015	0.0073	0.00661	1.29E-01	1.22E-02	9.66E-07	7.15E-04	2.39E-02	1.36E-03	5.19E-02	4.49E-02	1.74E-01
4310	491363.09	3856877.25	0.01734	0.00612	0.00875	0.02842	0.061	0.014	0.0067	0.00612	1.21E-01	1.13E-02	9.11E-07	1.00E-03	1.91E-02	1.27E-03	4.73E-02	4.16E-02	1.59E-01
4311	491863.09	3856877.25	0.0164	0.00566	0.00834	0.15984	0.05	0.013	0.0061	0.00566	1.14E-01	1.05E-02	8.68E-07	5.63E-03	1.55E-02	1.18E-03	4.35E-02	3.85E-02	1.52E-01
4312	492363.09	3856877.25	0.01551	0.0048	0.00713	0.10158	0.038	0.011	0.0053	0.0048	1.08E-01	8.87E-03	7.42E-07	3.58E-03	1.18E-02	1.01E-03	3.76E-02	3.26E-02	1.38E-01
4313	492863.09	3856877.25	0.01399	0.0042	0.00608	0.02926	0.029	0.009	0.0046	0.0042	9.75E-02	7.76E-03	6.33E-07	1.03E-03	8.94E-03	8.82E-04	3.26E-02	2.86E-02	1.20E-01
4314	493363.09	3856877.25	0.01154	0.00365	0.0052	0.01669	0.021	0.008	0.0039	0.00365	8.05E-02	6.74E-03	5.41E-07	5.87E-04	6.56E-03	7.58E-04	2.76E-02	2.48E-02	9.78E-02
4315	493863.09	3856877.25	0.00864	0.00313	0.00446	0.01169	0.015	0.007	0.0032	0.00313	6.02E-02	5.78E-03	4.64E-07	4.11E-04	4.85E-03	6.45E-04	2.29E-02	2.13E-02	7.35E-02
4316	494363.09	3856877.25	0.00683	0.00276	0.00398	0.00907	0.012	0.006	0.0028	0.00276	4.76E-02	5.10E-03	4.14E-07	3.19E-04	3.78E-03	5.63E-04	1.97E-02	1.88E-02	5.83E-02
4317	494863.09	3856877.25	0.00609	0.00258	0.00374	0.00776	0.01	0.006	0.0026	0.00258	4.25E-02	4.77E-03	3.89E-07	2.73E-04	3.24E-03	5.24E-04	1.83E-02	1.75E-02	5.20E-02
4318	495363.09	3856877.25	0.00567	0.00247	0.00358	0.00697	0.009	0.005	0.0025	0.00247	3.95E-02	4.56E-03	3.73E-07	2.45E-04	2.95E-03	5.02E-04	1.74E-02	1.68E-02	4.84E-02
4319	495863.09	3856877.25	0.00549	0.00244	0.00347	0.00656	0.009	0.005	0.0024	0.00244	3.83E-02	4.51E-03	3.61E-07	2.31E-04	2.68E-03	4.96E-04	1.72E-02	1.66E-02	4.68E-02
4320	496363.09	3856877.25	0.00538	0.00243	0.00337	0.00624	0.008	0.005	0.0024	0.00243	3.75E-02	4.49E-03	3.51E-07	2.20E-04	2.52E-03	4.93E-04	1.71E-02	1.65E-02	4.58E-02
4321	496863.09	3856877.25	0.00537	0.00245	0.00334	0.00604	0.008	0.005	0.0024	0.00245	3.74E-02	4.52E-03	3.48E-07	2.13E-04	2.42E-03	4.98E-04	1.73E-02	1.67E-02	4.57E-02
4322	497363.09	3856877.25	0.00548	0.0025	0.00334	0.00596	0.008	0.005	0.0025	0.0025	3.82E-02	4.62E-03	3.48E-07	2.10E-04	2.36E-03	5.04E-04	1.77E-02	1.70E-02	4.66E-02
4323	497863.09	3856877.25	0.00587	0.00262	0.00344	0.00608	0.008	0.006	0.0026	0.00262	4.09E-02	4.84E-03	3.58E-07	2.14E-04	2.41E-03	5.69E-04	1.86E-02	1.78E-02	4.98E-02
4324	498363.09	3856877.25	0.00636	0.00275	0.00356	0.00629	0.008	0.006	0.0028	0.00275	4.43E-02	5.08E-03	3.71E-07	2.21E-04	2.49E-03	6.02E-04	1.98E-02	1.87E-02	5.39E-02
4325	471363.09	3857377.25	0.00147	0.00113	0.00062	0.00101	0.001	0.001	0.0012	0.00113	1.02E-02	2.09E-03	6.45E-08	3.55E-05	3.26E-04	1.04E-04	8.15E-03	7.68E-03	1.33E-02
4326	471863.09	3857377.25	0.00153	0.00114	0.00063	0.00104	0.001	0.001	0.0012	0.00114	1.07E-02	2.11E-03	6.56E-08	3.66E-05	3.38E-04	1.07E-04	8.29E-03	7.75E-03	1.38E-02
4327	472363.09	3857377.25	0.00161	0.00117	0.00065	0.00108	0.001	0.001	0.0012	0.00117	1.12E-02	2.16E-03	6.77E-08	3.80E-05	3.51E-04	1.11E-04	8.50E-03	7.96E-03	1.44E-02
4328	472863.09	3857377.25	0.00169	0.0012	0.00068	0.00112	0.001	0.001	0.0012	0.0012	1.18E-02	2.22E-03	7.08E-08	3.94E-05	3.63E-04	1.17E-04	8.71E-03	8.16E-03	1.51E-02
4329	473363.09	3857377.25	0.00179	0.00125	0.00073	0.00117	0.001	0.001	0.0013	0.00125	1.25E-02	2.31E-03	7.60E-08	4.12E-05	3.79E-04	1.23E-04	9.00E-03	8.50E-03	1.58E-02
4330	473863.09	3857377.25	0.0019	0.00131	0.00079	0.00124	0.001	0.001	0.0013	0.00131	1.32E-02	2.42E-03	8.22E-08	4.36E-05	3.95E-04	1.31E-04	9.42E-03	8.91E-03	1.68E-02
4331	474363.09	3857377.25	0.00199	0.00128	0.00078	0.00125	0.001	0.001	0.0013	0.00128	1.39E-02	2.36E-03	8.12E-08	4.40E-05	4.07E-04	1.31E-04	9.28E-03	8.70E-03	1.74E-02
4332	474863.09	3857377.25	0.00199	0.00116	0.00072	0.0012	0.001	0.001	0.0012	0.00116	1.39E-02	2.14E-03	7.50E-08	4.22E-05	4.17E-04	1.24E-04	8.50E-03	7.89E-03	1.72E-02
4333	475363.09	3857377.25	0.00181	0.00105	0.00072	0.00112	0.001	0.001	0.0011	0.00105	1.26E-02	1.94E-03	7.50E-08	3.94E-05	4.23E-04	1.17E-04	7.58E-03	7.14E-03	1.56E-02
4334	475863.09	3857377.25	0.0018	0.00105	0.00076	0.00113	0.001	0.001	0.0011	0.00105	1.25E-02	1.94E-03	7.91E-08	3.98E-05	4.39E-04	1.20E-04	7.51E-03	7.14E-03	1.55E-02
4335	476363.09	3857377.25	0.00212	0.00114	0.00086	0.00125	0.001	0.001	0.0012	0.00114	1.48E-02	2.11E-03	8.95E-08	4.40E-05	4.67E-04	1.33E-04	8.29E-03	7.75E-03	1.81E-02
4336	476863.09	3857377.25	0.00226	0.00119	0.00094	0.00131	0.002	0.002	0.0012	0.00119	1.58E-02	2.20E-03	9.79E-08	4.61E-05	4.89E-04	1.41E-04	8.57E-03	8.09E-03	1.91E-02
4337	477363.09	3857377.25	0.00222	0.00118	0.00092	0.00132	0.002	0.002	0.0012	0.00118	1.55E-02	2.18E-03	9.58E-08	4.65E-05	5.08E-04	1.44E-04	8.43E-03	8.02E-03	1.88E-02
4338	477863.09	3857377.25	0.00201	0.00114	0.0009	0.00128	0.002	0.002	0.0011	0.00114	1.40E-02	2.11E-03	9.37E-08	4.51E-05	5.20E-04	1.43E-04	8.01E-03	7.75E-03	1.71E-02
4339	478363.09	3857377.25	0.00191	0.00111	0.00091	0.00125	0.002	0.002	0.0011	0.00111	1.33E-02	2.05E-03	9.47E-08	4.40E-05	5.11E-04	1.44E-04	7.65E-03	7.55E-03	1.62E-02
4340	478863.09	3857377.25	0.0019	0.0011	0.00094	0.00128	0.002	0.002	0.0011	0.0011	1.32E-02	2.03E-03	9.79E-08	4.51E-05	5.20E-04	1.47E-04	7.58E-03	7.48E-03	1.61E-02
4341	479363.09	3857377.25	0.00235	0.00127	0.00106	0.00148	0.002	0.002	0.0012	0.00127	1.64E-02	2.35E-03	1.10E-07	5.21E-05	6.11E-04	1.68E-04	8.79E-03	8.64E-03	1.97E-02
4342	479863.09	3857377.25	0.00409	0.00162	0.00129	0.00203	0.002	0.002	0.0017	0.00162	2.85E-02	2.99E-03	1.34E-07	7.14E-05	7.18E-04	2.17E-04	1.19E-02	1.10E-02	3.34E-02
4343	480363.09	3857377.25	0.00392	0.0016	0.00136	0.00199	0.002	0.002	0.0016	0.0016	2.73E-02	2.96E-03	1.42E-07	7.00E-05	7.46E-04	2.19E-04	1.15E-02	1.09E-02	3.19E-02
4344	480863.09	3857377.25	0.00559	0.00243	0.00245	0.00301	0.003	0.004	0.0024	0.00243	3.90E-02	4.49E-03	2.55E-07	1.06E-04	9.87E-04	3.42E-04	1.69E-02	1.65E-02	4.52E-02
4345	481363.09	3857377.25	0.00629	0.00254	0.00265	0.00329	0.004	0.004	0.0025	0.00254	4.39E-02	4.69E-03	2.76E-07	1.16E-04	1.10E-03	3.69E-04	1.77E-02	1.73E-02	5.06E-02
4346	481863.09	3857377.25	0.00685	0.00291	0.00349	0.00363	0.004	0.005	0.0027	0.00291	4.78E-02	5.37E-03	3.63E-07	1.28E-04	1.29E-03	4.32E-04	1.91E-02	1.98E-02	5.43E-02

4347	482363.09	3857377.25	0.00725	0.00348	0.00376	0.00389	0.005	0.006	0.0029	0.00348	5.05E-02	6.43E-03	3.91E-07	1.37E-04	1.48E-03	5.31E-04	2.04E-02	2.37E-02	5.59E-02
4348	482863.09	3857377.25	0.00831	0.00387	0.00419	0.00418	0.005	0.006	0.003	0.00387	5.79E-02	7.15E-03	4.36E-07	1.47E-04	1.69E-03	6.06E-04	2.15E-02	2.63E-02	6.27E-02
4349	483363.09	3857377.25	0.00982	0.00432	0.00472	0.00455	0.006	0.007	0.0032	0.00432	6.85E-02	7.98E-03	4.91E-07	1.60E-04	1.99E-03	7.01E-04	2.30E-02	2.94E-02	7.29E-02
4350	483863.09	3857377.25	0.01186	0.005	0.00595	0.00502	0.008	0.009	0.0035	0.005	8.27E-02	9.23E-03	6.19E-07	1.77E-04	2.43E-03	8.39E-04	2.51E-02	3.40E-02	8.64E-02
4351	484363.09	3857377.25	0.01536	0.00606	0.00561	0.00562	0.01	0.012	0.0039	0.00606	1.07E-01	1.12E-02	5.84E-07	1.98E-04	3.06E-03	1.08E-03	2.78E-02	4.12E-02	1.09E-01
4352	484863.09	3857377.25	0.02082	0.008	0.00554	0.00646	0.013	0.017	0.0045	0.008	1.45E-01	1.48E-02	5.77E-07	2.27E-04	4.04E-03	1.61E-03	3.20E-02	5.44E-02	1.43E-01
4353	485363.09	3857377.25	0.03695	0.0119	0.00719	0.00768	0.018	0.045	0.0053	0.0119	2.58E-01	2.20E-02	7.49E-07	2.70E-04	5.60E-03	4.27E-03	3.74E-02	8.09E-02	2.46E-01
4354	485863.09	3857377.25	0.0966	0.02822	0.00871	0.00948	0.026	0.079	0.0066	0.02822	6.73E-01	5.21E-02	9.07E-07	3.34E-04	8.30E-03	7.43E-03	4.68E-02	1.92E-01	5.97E-01
4355	486363.09	3857377.25	0.11432	0.10234	0.0098	0.01317	0.046	0.036	0.0098	0.10234	7.97E-01	1.89E-01	1.02E-06	4.64E-04	1.45E-02	3.41E-03	6.95E-02	6.96E-01	3.78E-01
4356	486863.09	3857377.25	0.12338	0.02815	0.01084	0.02213	0.102	0.031	0.0226	0.02815	8.60E-01	5.20E-02	1.13E-06	7.79E-04	3.20E-02	2.92E-03	1.60E-01	1.91E-01	9.16E-01
4357	487363.09	3857377.25	0.11866	0.02002	0.0117	0.08671	0.285	0.092	0.137	0.02002	8.27E-01	3.70E-02	1.22E-06	3.05E-03	8.92E-02	8.64E-03	9.71E-01	1.36E-01	1.80E+00
4358	487863.09	3857377.25	0.05555	0.01628	0.01335	0.10832	2.14	0.067	0.0337	0.01628	3.87E-01	3.01E-02	1.39E-06	3.81E-03	6.70E-01	6.28E-03	2.39E-01	1.11E-01	1.23E+00
4359	488363.09	3857377.25	0.03891	0.01373	0.01613	0.04774	0.931	0.039	0.0202	0.01373	2.71E-01	2.54E-02	1.68E-06	1.68E-03	2.92E-01	3.62E-03	1.43E-01	9.34E-02	6.44E-01
4360	488863.09	3857377.25	0.03118	0.01198	0.01713	0.03363	0.346	0.03	0.0149	0.01198	2.17E-01	2.21E-02	1.78E-06	1.18E-03	1.08E-01	2.86E-03	1.06E-01	8.15E-02	3.76E-01
4361	489363.09	3857377.25	0.02681	0.01061	0.01803	0.02736	0.193	0.026	0.0121	0.01061	1.87E-01	1.96E-02	1.88E-06	9.63E-04	6.05E-02	2.45E-03	8.58E-02	7.21E-02	2.84E-01
4362	489863.09	3857377.25	0.02408	0.00942	0.01574	0.02488	0.128	0.023	0.0103	0.00942	1.68E-01	1.74E-02	1.64E-06	8.76E-04	4.00E-02	2.12E-03	7.30E-02	6.41E-02	2.37E-01
4363	490363.09	3857377.25	0.02215	0.00848	0.014	0.02486	0.091	0.02	0.0091	0.00848	1.54E-01	1.57E-02	1.46E-06	8.75E-04	2.86E-02	1.88E-03	6.42E-02	5.77E-02	2.08E-01
4364	490863.09	3857377.25	0.02049	0.00771	0.01232	0.02939	0.069	0.018	0.0081	0.00771	1.43E-01	1.42E-02	1.28E-06	1.03E-03	2.16E-02	1.69E-03	5.73E-02	5.24E-02	1.86E-01
4365	491363.09	3857377.25	0.01898	0.00706	0.01109	0.06981	0.054	0.016	0.0073	0.00706	1.32E-01	1.30E-02	1.15E-06	2.46E-03	1.70E-02	1.54E-03	5.19E-02	4.80E-02	1.70E-01
4366	491863.09	3857377.25	0.01786	0.00627	0.00981	0.09765	0.044	0.015	0.0065	0.00627	1.25E-01	1.16E-02	1.02E-06	3.44E-03	1.36E-02	1.37E-03	4.63E-02	4.26E-02	1.58E-01
4367	492363.09	3857377.25	0.01658	0.00499	0.00753	0.03393	0.031	0.012	0.0053	0.00499	1.16E-01	9.22E-03	7.84E-07	1.19E-03	9.86E-03	1.10E-03	3.76E-02	3.39E-02	1.41E-01
4368	492863.09	3857377.25	0.01364	0.00412	0.00628	0.02049	0.021	0.01	0.0043	0.00412	9.51E-02	7.61E-03	6.54E-07	7.21E-04	6.70E-03	9.00E-04	3.04E-02	2.80E-02	1.13E-01
4369	493363.09	3857377.25	0.01009	0.00352	0.00525	0.01443	0.015	0.008	0.0036	0.00352	7.03E-02	6.50E-03	5.47E-07	5.08E-04	4.85E-03	7.60E-04	2.52E-02	2.39E-02	8.42E-02
4370	493863.09	3857377.25	0.00862	0.00325	0.00488	0.01176	0.013	0.007	0.0033	0.00325	6.01E-02	6.00E-03	5.08E-07	4.14E-04	4.01E-03	7.02E-04	2.30E-02	2.21E-02	7.22E-02
4371	494363.09	3857377.25	0.00736	0.003	0.00451	0.00978	0.011	0.007	0.003	0.003	5.13E-02	5.54E-03	4.70E-07	3.44E-04	3.35E-03	6.46E-04	2.10E-02	2.04E-02	6.18E-02
4372	494863.09	3857377.25	0.00672	0.00287	0.00425	0.00863	0.009	0.007	0.0028	0.00287	4.68E-02	5.30E-03	4.42E-07	3.04E-04	2.96E-03	6.22E-04	2.01E-02	1.95E-02	5.66E-02
4373	495363.09	3857377.25	0.00623	0.00276	0.00396	0.00778	0.008	0.007	0.0027	0.00276	4.34E-02	5.10E-03	4.12E-07	2.74E-04	2.66E-03	6.12E-04	1.93E-02	1.88E-02	5.26E-02
4374	495863.09	3857377.25	0.00602	0.00272	0.00382	0.00728	0.008	0.007	0.0027	0.00272	4.20E-02	5.02E-03	3.98E-07	2.56E-04	2.48E-03	6.30E-04	1.90E-02	1.85E-02	5.08E-02
4375	496363.09	3857377.25	0.00588	0.00269	0.00369	0.0069	0.007	0.007	0.0027	0.00269	4.10E-02	4.97E-03	3.84E-07	2.43E-04	2.33E-03	6.68E-04	1.89E-02	1.83E-02	4.98E-02
4376	496863.09	3857377.25	0.0058	0.00268	0.00362	0.00661	0.007	0.007	0.0027	0.00268	4.04E-02	4.95E-03	3.77E-07	2.33E-04	2.23E-03	7.04E-04	1.88E-02	1.82E-02	4.92E-02
4377	497363.09	3857377.25	0.00593	0.00272	0.0036	0.00649	0.007	0.008	0.0027	0.00272	4.13E-02	5.02E-03	3.75E-07	2.28E-04	2.18E-03	7.48E-04	1.92E-02	1.85E-02	5.02E-02
4378	497863.09	3857377.25	0.00621	0.0028	0.00365	0.0065	0.007	0.009	0.0028	0.0028	4.33E-02	5.17E-03	3.80E-07	2.29E-04	2.21E-03	8.82E-04	1.99E-02	1.90E-02	5.27E-02
4379	498363.09	3857377.25	0.007	0.00304	0.00389	0.007	0.008	0.01	0.0031	0.00304	4.88E-02	5.61E-03	4.05E-07	2.46E-04	2.38E-03	9.52E-04	2.19E-02	2.07E-02	5.92E-02
4380	471363.09	3857877.25	0.00147	0.00109	0.0006	0.00099	0.001	0.001	0.0011	0.00109	1.02E-02	2.01E-03	6.25E-08	3.48E-05	3.20E-04	1.02E-04	7.86E-03	7.41E-03	1.32E-02
4381	471863.09	3857877.25	0.00153	0.00111	0.00063	0.00102	0.001	0.001	0.0011	0.00111	1.07E-02	2.05E-03	6.56E-08	3.59E-05	3.32E-04	1.06E-04	8.01E-03	7.55E-03	1.36E-02
4382	472363.09	3857877.25	0.0016	0.00113	0.00066	0.00106	0.001	0.001	0.0012	0.00113	1.12E-02	2.09E-03	6.87E-08	3.73E-05	3.45E-04	1.10E-04	8.15E-03	7.68E-03	1.42E-02
4383	472863.09	3857877.25	0.00168	0.00118	0.0007	0.00112	0.001	0.001	0.0012	0.00118	1.17E-02	2.18E-03	7.29E-08	3.94E-05	3.63E-04	1.17E-04	8.50E-03	8.02E-03	1.49E-02
4384	473363.09	3857877.25	0.00177	0.00121	0.00074	0.00116	0.001	0.001	0.0012	0.00121	1.23E-02	2.23E-03	7.70E-08	4.08E-05	3.79E-04	1.22E-04	8.71E-03	8.23E-03	1.56E-02
4385	473863.09	3857877.25	0.00187	0.00126	0.0008	0.00123	0.001	0.001	0.0013	0.00126	1.30E-02	2.33E-03	8.33E-08	4.33E-05	4.01E-04	1.30E-04	9.00E-03	8.57E-03	1.64E-02
4386	474363.09	3857877.25	0.00195	0.0012	0.00078	0.00124	0.001	0.001	0.0012	0.0012	1.36E-02	2.22E-03	8.12E-08	4.36E-05	4.10E-04	1.28E-04	8.79E-03	8.16E-03	1.70E-02
4387	474863.09	3857877.25	0.00191	0.00109	0.00076	0.00117	0.001	0.001	0.0011	0.00109	1.33E-02	2.01E-03	7.91E-08	4.12E-05	4.07E-04	1.19E-04	7.94E-03	7.41E-03	1.64E-02
4388	475363.09	3857877.25	0.00154	0.00093	0.0007	0.00102	0.001	0.001	0.0009	0.00093	1.07E-02	1.72E-03	7.29E-08	3.59E-05	3.92E-04	1.07E-04	6.59E-03	6.32E-03	1.33E-02
4389	475863.09	3857877.25	0.00119	0.00079	0.0006	0.00088	0.001	0.001	0.0008	0.00079	8.30E-03	1.46E-03	6.25E-08	3.10E-05	3.42E-04	9.59E-05	5.46E-03	5.37E-03	1.03E-02
4390	476363.09	3857877.25	0.00174	0.00099	0.00075	0.00113	0.001	0.001	0.001	0.00099	1.21E-02	1.83E-03	7.81E-08	3.98E-05	4.26E-04	1.20E-04	7.01E-03	6.73E-03	1.48E-02
4391	476863.09	3857877.25	0.00202	0.00106	0.00084	0.00124	0.001	0.001	0.0011	0.00106	1.41E-02	1.96E-03	8.74E-08	4.36E-05	4.57E-04	1.31E-04	7.65E-03	7.21E-03	1.71E-02
4392	477363.09	3857877.25	0.00208	0.00109	0.00087	0.00128	0.002	0.001	0.0011	0.00109	1.45E-02	2.01E-03	9.06E-08	4.51E-05	4.70E-04	1.36E-04	7.79E-03	7.41E-03	1.75E-02
4393	477863.09	3857877.25	0.0021	0.00111	0.00092	0.00131	0.002	0.002	0.0011	0.00111	1.46E-02	2.05E-03	9.58E-08	4.61E-05	4.83E-04	1.41E-04	7.94E-03	7.55E-03	1.77E-02
4394	478363.09	3857877.25	0.00169	0.00101	0.00084	0.00118	0.001	0.001	0.001	0.00101	1.18E-02	1.87E-03	8.74E-08	4.15E-05	4.42E-04	1.33E-04	7.01E-03	6.87E-03	1.44E-02
4395	478863.09	3857877.25	0.00167	0.001	0.00082	0.00116	0.001	0.001	0.001	0.001	1.16E-02	1.85E-03	8.54E-08	4.08E-05	4.32E-04	1.32E-04	6.87E-03	6.80E-03	1.42E-02
4396	479363.09	3857877.25	0.00356	0.00149	0.0012	0.00185	0.002	0.002	0.0016	0.00149	2.48E-02	2.75E-03	1.25E-07	6.51E-05	6.74E-04	1.94E-04	1.10E-02	1.01E-02	2.94E-02
4397	479863.09	3857877.25	0.0043	0.00188	0.0017	0.00233	0.003	0.003	0.0019	0.00188	3.00E-02	3.47E-03	1.77E-07	8.20E-05	9.06E-04	2.48E-04	1.37E-02	1.28E-02	3.56E-02
4398	480363.09	3857877.25	0.00459	0.00214	0.00202	0.00256	0.003	0.003	0.0021	0.00214	3.20E-02	3.95E-03	2.10E-07	9.01E-05	1.04E-03	2.87E-04	1.50E-02	1.46E-02	3.78E-02
4399	480863.09	3857877.25	0.00502	0.00226	0.00203	0.00279	0.004	0.003	0.0022	0.00226	3.50E-02	4.17E-03	2.11E-07	9.82E-05	1.17E-03	3.18E-04	1.57E-02	1.54E-02	4.11E-02
4400	481363.09	3857877.25	0.00549	0.00239	0.00239	0.00304	0.004	0.004	0.0023	0.00239	3.83E-02	4.41E-03	2.49E-07	1.07E-04	1.34E-03	3.45E-04	1.65E-02	1.63E-02	4.47E-02
4401	481863.09	3857877.25	0.00592	0.0026	0.00261	0.00331	0.005	0.004	0.0025	0.0026	4.13E-02	4.80E-03	2.72E-07	1.16E-04	1.57E-03	3.86E-04	1.76E-02	1.77E-02	4.80E-02
4402	482363.09	3857877.25	0.00619	0.00302	0.00303	0.00364	0.006	0.005	0.0027	0.00302	4.32E-02	5.58E-03	3.15E-07	1.28E-04	1.83E-03	4.62E-04	1.91E-02	2.05E-02	4.97E-02
4403	482863.09	3857877.25	0.00648	0.0034	0.00346	0.00391	0.006	0.006	0.0028	0.0034	4.52E-02	6.28E-03	3.60E-07	1.38E-04	2.03E-03	5.45E-04	1.98E-02	2.31E-02	5.09E-02
4404	483363.09	3857877.25	0.00706	0.00372	0.00395	0.00427	0.008	0.007	0.003	0.00372	4.92E-02	6.87E-03	4.11E-07	1.50E-04	2.38E-03	6.26E-04	2.10E-02	2.53E-02	5.50E-02

4405	483863.09	3857877.25	0.00774	0.00417	0.00394	0.00467	0.009	0.008	0.0032	0.00417	5.40E-02	7.70E-03	4.10E-07	1.64E-04	2.81E-03	7.32E-04	2.27E-02	2.84E-02	5.98E-02
4406	484363.09	3857877.25	0.00916	0.00475	0.004	0.00515	0.011	0.01	0.0035	0.00475	6.39E-02	8.77E-03	4.16E-07	1.81E-04	3.34E-03	8.95E-04	2.48E-02	3.23E-02	6.95E-02
4407	484863.09	3857877.25	0.01146	0.00578	0.00428	0.00575	0.013	0.013	0.0039	0.00578	7.99E-02	1.07E-02	4.46E-07	2.02E-04	4.05E-03	1.19E-03	2.78E-02	3.93E-02	8.46E-02
4408	485363.09	3857877.25	0.01544	0.00737	0.00547	0.00663	0.016	0.019	0.0045	0.00737	1.08E-01	1.36E-02	5.69E-07	2.33E-04	5.08E-03	1.80E-03	3.19E-02	5.01E-02	1.10E-01
4409	485863.09	3857877.25	0.03677	0.01031	0.00769	0.00791	0.021	0.047	0.0053	0.01031	2.56E-01	1.90E-02	8.01E-07	2.78E-04	6.64E-03	4.41E-03	3.75E-02	7.01E-02	2.54E-01
4410	486363.09	3857877.25	0.09466	0.01891	0.01385	0.00985	0.029	0.267	0.0066	0.01891	6.60E-01	3.49E-02	1.44E-06	3.47E-04	9.00E-03	2.51E-02	4.67E-02	1.29E-01	6.47E-01
4411	486863.09	3857877.25	0.11148	0.15293	0.04575	0.01321	0.04	0.085	0.0095	0.15293	7.77E-01	2.82E-01	4.76E-06	4.65E-04	1.25E-02	7.95E-03	6.71E-02	1.04E+00	1.08E-01
4412	487363.09	3857877.25	0.11956	0.06248	0.10426	0.02155	0.055	0.059	0.0205	0.06248	8.34E-01	1.15E-01	1.09E-05	7.58E-04	1.71E-02	5.56E-03	1.45E-01	4.25E-01	6.93E-01
4413	487863.09	3857877.25	0.11894	0.03039	0.12239	0.06931	0.072	0.114	0.1631	0.03039	8.29E-01	5.61E-02	1.27E-05	2.44E-03	2.27E-02	1.08E-02	1.16E+00	2.07E-01	1.87E+00
4414	488363.09	3857877.25	0.05947	0.02151	0.0663	0.12782	0.107	0.111	0.0351	0.02151	4.15E-01	3.97E-02	6.90E-06	4.50E-03	3.37E-02	1.04E-02	2.49E-01	1.46E-01	6.06E-01
4415	488863.09	3857877.25	0.04219	0.01698	0.04089	0.05582	0.093	0.054	0.0209	0.01698	2.94E-01	3.14E-02	4.26E-06	1.96E-03	2.92E-02	5.11E-03	1.48E-01	1.15E-01	3.94E-01
4416	489363.09	3857877.25	0.04236	0.0139	0.02862	0.04251	0.079	0.038	0.0153	0.0139	2.95E-01	2.57E-02	2.98E-06	1.50E-03	2.47E-02	3.60E-03	1.09E-01	9.45E-02	3.65E-01
4417	489863.09	3857877.25	0.04222	0.01178	0.02034	0.03986	0.067	0.03	0.0123	0.01178	2.94E-01	2.18E-02	2.12E-06	1.40E-03	2.11E-02	2.82E-03	8.69E-02	8.01E-02	3.48E-01
4418	490363.09	3857877.25	0.02914	0.01038	0.0159	0.0432	0.056	0.025	0.0104	0.01038	2.03E-01	1.92E-02	1.66E-06	1.52E-03	1.76E-02	2.36E-03	7.40E-02	7.06E-02	2.47E-01
4419	490863.09	3857877.25	0.02318	0.00928	0.0133	0.05754	0.047	0.022	0.0092	0.00928	1.62E-01	1.71E-02	1.38E-06	2.03E-03	1.48E-02	2.04E-03	6.50E-02	6.31E-02	2.00E-01
4420	491363.09	3857877.25	0.02088	0.00798	0.0116	0.29281	0.04	0.018	0.0079	0.00798	1.46E-01	1.47E-02	1.21E-06	1.03E-02	1.25E-02	1.72E-03	5.62E-02	5.43E-02	1.87E-01
4421	491863.09	3857877.25	0.01932	0.00672	0.00956	0.05659	0.033	0.015	0.0068	0.00672	1.35E-01	1.24E-02	9.95E-07	1.99E-03	1.02E-02	1.44E-03	4.80E-02	4.57E-02	1.63E-01
4422	492363.09	3857877.25	0.01694	0.00525	0.00772	0.02796	0.022	0.012	0.0053	0.00525	1.18E-01	9.70E-03	8.04E-07	9.84E-04	6.99E-03	1.13E-03	3.78E-02	3.57E-02	1.39E-01
4423	492863.09	3857877.25	0.01281	0.0043	0.00643	0.01832	0.015	0.01	0.0043	0.0043	8.93E-02	7.94E-03	6.69E-07	6.45E-04	4.82E-03	9.27E-04	3.04E-02	2.92E-02	1.05E-01
4424	493363.09	3857877.25	0.01067	0.00387	0.00593	0.01438	0.013	0.009	0.0038	0.00387	7.44E-02	7.15E-03	6.17E-07	5.06E-04	3.94E-03	8.44E-04	2.71E-02	2.63E-02	8.77E-02
4425	493863.09	3857877.25	0.00952	0.00363	0.00549	0.01213	0.011	0.009	0.0036	0.00363	6.64E-02	6.70E-03	5.72E-07	4.27E-04	3.46E-03	8.06E-04	2.54E-02	2.47E-02	7.84E-02
4426	494363.09	3857877.25	0.00869	0.00346	0.00504	0.01059	0.01	0.008	0.0034	0.00346	6.06E-02	6.39E-03	5.25E-07	3.73E-04	3.07E-03	7.86E-04	2.42E-02	2.35E-02	7.18E-02
4427	494863.09	3857877.25	0.00757	0.00323	0.00465	0.00916	0.008	0.008	0.0032	0.00323	5.28E-02	5.97E-03	4.84E-07	3.22E-04	2.66E-03	7.58E-04	2.25E-02	2.20E-02	6.30E-02
4428	495363.09	3857877.25	0.00709	0.00313	0.00441	0.00836	0.008	0.008	0.0031	0.00313	4.94E-02	5.78E-03	4.59E-07	2.94E-04	2.43E-03	7.86E-04	2.18E-02	2.13E-02	5.92E-02
4429	495863.09	3857877.25	0.00668	0.00303	0.00418	0.00771	0.007	0.009	0.003	0.00303	4.66E-02	5.60E-03	4.35E-07	2.71E-04	2.26E-03	8.84E-04	2.11E-02	2.06E-02	5.61E-02
4430	496363.09	3857877.25	0.00659	0.00301	0.00402	0.00737	0.007	0.014	0.003	0.00301	4.59E-02	5.56E-03	4.19E-07	2.59E-04	2.17E-03	1.32E-03	2.10E-02	2.05E-02	5.58E-02
4431	496863.09	3857877.25	0.00651	0.003	0.00393	0.00706	0.007	0.073	0.003	0.003	4.54E-02	5.54E-03	4.09E-07	2.48E-04	2.09E-03	6.83E-03	2.10E-02	2.04E-02	6.07E-02
4432	497363.09	3857877.25	0.00634	0.00297	0.00378	0.00674	0.006	0.134	0.003	0.00297	4.42E-02	5.49E-03	3.94E-07	2.37E-04	2.01E-03	1.26E-02	2.09E-02	2.02E-02	6.52E-02
4433	497863.09	3857877.25	0.00685	0.00312	0.00387	0.00696	0.007	0.025	0.0031	0.00312	4.78E-02	5.76E-03	4.03E-07	2.45E-04	2.13E-03	2.36E-03	2.22E-02	2.12E-02	5.92E-02
4434	498363.09	3857877.25	0.00727	0.00326	0.00392	0.00721	0.007	0.016	0.0033	0.00326	5.07E-02	6.02E-03	4.08E-07	2.54E-04	2.24E-03	1.52E-03	2.35E-02	2.22E-02	6.20E-02
4435	471363.09	3858377.25	0.00146	0.00107	0.00062	0.00099	0.001	0.001	0.0011	0.00107	1.02E-02	1.98E-03	6.45E-08	3.48E-05	3.57E-04	1.02E-04	7.72E-03	7.28E-03	1.31E-02
4436	471863.09	3858377.25	0.00152	0.00109	0.00064	0.00102	0.001	0.001	0.0011	0.00109	1.06E-02	2.01E-03	6.66E-08	3.59E-05	3.73E-04	1.06E-04	7.79E-03	7.41E-03	1.35E-02
4437	472363.09	3858377.25	0.00158	0.0011	0.00066	0.00106	0.001	0.001	0.0011	0.0011	1.10E-02	2.03E-03	6.87E-08	3.73E-05	3.89E-04	1.10E-04	7.94E-03	7.48E-03	1.40E-02
4438	472863.09	3858377.25	0.00166	0.00114	0.00071	0.00111	0.001	0.001	0.0012	0.00114	1.16E-02	2.11E-03	7.39E-08	3.91E-05	4.10E-04	1.16E-04	8.15E-03	7.75E-03	1.46E-02
4439	473363.09	3858377.25	0.00175	0.0012	0.00078	0.00118	0.001	0.001	0.0012	0.0012	1.22E-02	2.22E-03	8.12E-08	4.15E-05	4.36E-04	1.24E-04	8.57E-03	8.16E-03	1.54E-02
4440	473863.09	3858377.25	0.00183	0.0012	0.0008	0.00121	0.001	0.001	0.0012	0.0012	1.28E-02	2.22E-03	8.33E-08	4.26E-05	4.54E-04	1.26E-04	8.57E-03	8.16E-03	1.60E-02
4441	474363.09	3858377.25	0.00189	0.00112	0.00077	0.00121	0.001	0.001	0.0012	0.00112	1.32E-02	2.07E-03	8.02E-08	4.26E-05	4.51E-04	1.23E-04	8.22E-03	7.62E-03	1.65E-02
4442	474863.09	3858377.25	0.00188	0.00105	0.00073	0.00118	0.001	0.001	0.0011	0.00105	1.31E-02	1.94E-03	7.60E-08	4.15E-05	4.23E-04	1.18E-04	7.72E-03	7.14E-03	1.62E-02
4443	475363.09	3858377.25	0.00168	0.00094	0.0007	0.00109	0.001	0.001	0.001	0.00094	1.17E-02	1.74E-03	7.29E-08	3.84E-05	3.70E-04	1.11E-04	6.80E-03	6.39E-03	1.44E-02
4444	475863.09	3858377.25	0.00148	0.00087	0.00067	0.00102	0.001	0.001	0.0009	0.00087	1.03E-02	1.61E-03	6.98E-08	3.59E-05	3.42E-04	1.07E-04	6.24E-03	5.92E-03	1.27E-02
4445	476363.09	3858377.25	0.00158	0.0009	0.00072	0.00108	0.001	0.001	0.0009	0.0009	1.10E-02	1.66E-03	7.50E-08	3.80E-05	3.57E-04	1.14E-04	6.45E-03	6.12E-03	1.35E-02
4446	476863.09	3858377.25	0.0017	0.00094	0.00077	0.00114	0.001	0.001	0.0009	0.00094	1.19E-02	1.74E-03	8.02E-08	4.01E-05	3.73E-04	1.20E-04	6.66E-03	6.39E-03	1.44E-02
4447	477363.09	3858377.25	0.00172	0.00095	0.00079	0.00116	0.001	0.001	0.001	0.00095	1.20E-02	1.75E-03	8.22E-08	4.08E-05	3.76E-04	1.24E-04	6.73E-03	6.46E-03	1.46E-02
4448	477863.09	3858377.25	0.00206	0.00104	0.00088	0.00131	0.001	0.001	0.0011	0.00104	1.44E-02	1.92E-03	9.16E-08	4.61E-05	4.23E-04	1.36E-04	7.51E-03	7.07E-03	1.73E-02
4449	478363.09	3858377.25	0.00221	0.00109	0.00091	0.00139	0.001	0.002	0.0011	0.00109	1.54E-02	2.01E-03	9.47E-08	4.89E-05	4.48E-04	1.45E-04	7.86E-03	7.41E-03	1.85E-02
4450	478863.09	3858377.25	0.00187	0.00105	0.00087	0.00128	0.001	0.001	0.001	0.00105	1.30E-02	1.94E-03	9.06E-08	4.51E-05	4.01E-04	1.39E-04	7.30E-03	7.14E-03	1.57E-02
4451	479363.09	3858377.25	0.00335	0.0014	0.00113	0.00184	0.002	0.002	0.0015	0.0014	2.34E-02	2.59E-03	1.18E-07	6.48E-05	7.24E-04	1.89E-04	1.05E-02	9.52E-03	2.79E-02
4452	479863.09	3858377.25	0.00386	0.00183	0.00153	0.00227	0.003	0.003	0.0019	0.00183	2.69E-02	3.38E-03	1.59E-07	7.99E-05	1.09E-03	2.44E-04	1.31E-02	1.24E-02	3.24E-02
4453	480363.09	3858377.25	0.00407	0.00207	0.00161	0.00248	0.004	0.003	0.002	0.00207	2.84E-02	3.82E-03	1.68E-07	8.73E-05	1.26E-03	2.80E-04	1.42E-02	1.41E-02	3.40E-02
4454	480863.09	3858377.25	0.00441	0.00218	0.00186	0.00267	0.005	0.003	0.0021	0.00218	3.07E-02	4.03E-03	1.94E-07	9.40E-05	1.42E-03	3.00E-04	1.50E-02	1.48E-02	3.68E-02
4455	481363.09	3858377.25	0.00474	0.00232	0.00215	0.00287	0.005	0.003	0.0022	0.00232	3.30E-02	4.28E-03	2.24E-07	1.01E-04	1.59E-03	3.26E-04	1.59E-02	1.58E-02	3.94E-02
4456	481863.09	3858377.25	0.0051	0.00242	0.00227	0.00307	0.006	0.004	0.0023	0.00242	3.56E-02	4.47E-03	2.36E-07	1.08E-04	1.78E-03	3.51E-04	1.66E-02	1.65E-02	4.24E-02
4457	482363.09	3858377.25	0.00545	0.00263	0.00237	0.0033	0.006	0.004	0.0025	0.00263	3.80E-02	4.86E-03	2.47E-07	1.16E-04	1.97E-03	3.98E-04	1.76E-02	1.79E-02	4.50E-02
4458	482863.09	3858377.25	0.00562	0.00298	0.00291	0.00363	0.007	0.005	0.0026	0.00298	3.92E-02	5.50E-03	3.03E-07	1.28E-04	2.16E-03	4.75E-04	1.87E-02	2.03E-02	4.59E-02
4459	483363.09	3858377.25	0.00579	0.0033	0.00362	0.00391	0.007	0.006	0.0028	0.0033	4.04E-02	6.09E-03	3.77E-07	1.38E-04	2.27E-03	5.63E-04	1.96E-02	2.24E-02	4.65E-02
4460	483863.09	3858377.25	0.00626	0.00359	0.00337	0.00424	0.008	0.007	0.0029	0.00359	4.36E-02	6.63E-03	3.51E-07	1.49E-04	2.48E-03	6.58E-04	2.07E-02	2.44E-02	4.98E-02
4461	484363.09	3858377.25	0.00714	0.00397	0.00385	0.00471	0.009	0.008	0.0032	0.00397	4.98E-02	7.33E-03	4.01E-07	1.66E-04	2.83E-03	7.94E-04	2.24E-02	2.70E-02	5.63E-02
4462	484863.09	3858377.25	0.00881	0.00457	0.00429	0.00527	0.01	0.011	0.0035	0.00457	6.14E-02	8.44E-03	4.47E-07	1.85E-04	3.26E-03	1.01E-03	2.47E-02	3.11E-02	6.80E-02

4463	485363.09	3858377.25	0.01132	0.00542	0.00515	0.00595	0.012	0.015	0.0039	0.00542	7.89E-02	1.00E-02	5.36E-07	2.09E-04	3.83E-03	1.42E-03	2.78E-02	3.69E-02	8.54E-02
4464	485863.09	3858377.25	0.01612	0.00663	0.00704	0.00692	0.014	0.026	0.0045	0.00663	1.12E-01	1.22E-02	7.33E-07	2.44E-04	4.54E-03	2.42E-03	3.19E-02	4.51E-02	1.19E-01
4465	486363.09	3858377.25	0.04187	0.00855	0.01053	0.00825	0.017	0.18	0.0053	0.00855	2.92E-01	1.58E-02	1.10E-06	2.90E-04	5.23E-03	1.69E-02	3.76E-02	5.81E-02	3.10E-01
4466	486863.09	3858377.25	0.0999	0.01233	0.01851	0.01025	0.018	0.14	0.0066	0.01233	6.96E-01	2.28E-02	1.93E-06	3.61E-04	5.71E-03	1.32E-02	4.70E-02	8.38E-02	7.02E-01
4467	487363.09	3858377.25	0.11385	0.0244	0.03768	0.01381	0.017	0.207	0.0095	0.0244	7.94E-01	4.51E-02	3.92E-06	4.86E-04	5.24E-03	1.94E-02	6.70E-02	1.66E-01	7.65E-01
4468	487863.09	3858377.25	0.12015	0.41487	0.0367	0.02206	0.012	0.129	0.0197	0.41487	8.38E-01	7.66E-01	3.82E-06	7.76E-04	3.86E-03	1.22E-02	1.39E-01	2.82E+00	-1.06E+00
4469	488363.09	3858377.25	0.11944	0.05693	0.03332	0.06153	0.02	0.085	0.2134	0.05693	8.33E-01	1.05E-01	3.47E-06	2.17E-03	6.39E-03	7.96E-03	1.51E+00	3.87E-01	2.08E+00
4470	488863.09	3858377.25	0.06187	0.03051	0.02526	0.16353	0.024	0.109	0.0379	0.03051	4.31E-01	5.63E-02	2.63E-06	5.76E-03	7.50E-03	1.03E-02	2.69E-01	2.07E-01	5.72E-01
4471	489363.09	3858377.25	0.04062	0.02115	0.02057	0.29704	0.024	0.053	0.0219	0.02115	2.83E-01	3.91E-02	2.14E-06	1.05E-02	7.54E-03	4.96E-03	1.55E-01	1.44E-01	3.57E-01
4472	489863.09	3858377.25	0.03159	0.01642	0.016	0.32079	0.025	0.038	0.0161	0.01642	2.20E-01	3.03E-02	1.67E-06	1.13E-02	7.68E-03	3.53E-03	1.14E-01	1.12E-01	2.75E-01
4473	490363.09	3858377.25	0.02657	0.01351	0.01328	0.26364	0.025	0.03	0.013	0.01351	1.85E-01	2.50E-02	1.38E-06	9.28E-03	7.75E-03	2.81E-03	9.19E-02	9.19E-02	2.30E-01
4474	490863.09	3858377.25	0.02325	0.01154	0.01321	0.17616	0.025	0.025	0.011	0.01154	1.62E-01	2.13E-02	1.38E-06	6.20E-03	7.81E-03	2.34E-03	7.78E-02	7.85E-02	1.99E-01
4475	491363.09	3858377.25	0.0213	0.00943	0.01189	0.06901	0.024	0.02	0.009	0.00943	1.48E-01	1.74E-02	1.24E-06	2.43E-03	7.58E-03	1.90E-03	6.39E-02	6.41E-02	1.78E-01
4476	491863.09	3858377.25	0.01993	0.00712	0.00986	0.03319	0.02	0.015	0.0069	0.00712	1.39E-01	1.32E-02	1.03E-06	1.17E-03	6.25E-03	1.44E-03	4.92E-02	4.84E-02	1.62E-01
4477	492363.09	3858377.25	0.01571	0.00551	0.00825	0.01981	0.013	0.012	0.0054	0.00551	1.10E-01	1.02E-02	8.59E-07	6.97E-04	4.11E-03	1.11E-03	3.81E-02	3.75E-02	1.26E-01
4478	492863.09	3858377.25	0.01531	0.0054	0.00797	0.01769	0.014	0.012	0.0053	0.0054	1.07E-01	9.97E-03	8.30E-07	6.23E-04	4.28E-03	1.11E-03	3.78E-02	3.67E-02	1.24E-01
4479	493363.09	3858377.25	0.01313	0.00483	0.00709	0.01444	0.012	0.011	0.0048	0.00483	9.15E-02	8.92E-03	7.38E-07	5.08E-04	3.67E-03	1.03E-03	3.38E-02	3.28E-02	1.07E-01
4480	493863.09	3858377.25	0.0117	0.00445	0.00647	0.01253	0.011	0.011	0.0044	0.00445	8.16E-02	8.22E-03	6.74E-07	4.41E-04	3.32E-03	1.01E-03	3.12E-02	3.03E-02	9.55E-02
4481	494363.09	3858377.25	0.01029	0.0041	0.00584	0.01094	0.009	0.011	0.0041	0.0041	7.17E-02	7.57E-03	6.08E-07	3.85E-04	2.94E-03	9.97E-04	2.87E-02	2.79E-02	8.45E-02
4482	494863.09	3858377.25	0.00913	0.00383	0.00529	0.00973	0.008	0.011	0.0038	0.00383	6.37E-02	7.07E-03	5.51E-07	3.42E-04	2.61E-03	1.03E-03	2.69E-02	2.60E-02	7.55E-02
4483	495363.09	3858377.25	0.00802	0.00357	0.00476	0.00863	0.007	0.012	0.0035	0.00357	5.59E-02	6.59E-03	4.96E-07	3.04E-04	2.31E-03	1.12E-03	2.49E-02	2.43E-02	6.69E-02
4484	495863.09	3858377.25	0.00765	0.00347	0.00449	0.0081	0.007	0.017	0.0034	0.00347	5.33E-02	6.41E-03	4.67E-07	2.85E-04	2.21E-03	1.61E-03	2.43E-02	2.36E-02	6.46E-02
4485	496363.09	3858377.25	0.00726	0.00337	0.00424	0.00759	0.007	0.079	0.0033	0.00337	5.06E-02	6.22E-03	4.41E-07	2.67E-04	2.10E-03	7.42E-03	2.37E-02	2.29E-02	6.74E-02
4486	496863.09	3858377.25	0.00729	0.00338	0.00416	0.00743	0.007	0.048	0.0034	0.00338	5.08E-02	6.24E-03	4.33E-07	2.62E-04	2.09E-03	4.53E-03	2.39E-02	2.30E-02	6.48E-02
4487	497363.09	3858377.25	0.0071	0.00335	0.00398	0.00716	0.006	0.025	0.0034	0.00335	4.95E-02	6.19E-03	4.14E-07	2.52E-04	2.03E-03	2.39E-03	2.37E-02	2.28E-02	6.13E-02
4488	497863.09	3858377.25	0.00735	0.00348	0.00407	0.00731	0.007	0.019	0.0035	0.00348	5.12E-02	6.43E-03	4.24E-07	2.57E-04	2.14E-03	1.76E-03	2.48E-02	2.37E-02	6.30E-02
4489	498363.09	3858377.25	0.00749	0.00368	0.00425	0.00764	0.007	0.016	0.0037	0.00368	5.22E-02	6.80E-03	4.42E-07	2.69E-04	2.29E-03	1.49E-03	2.63E-02	2.50E-02	6.43E-02
4490	471363.09	3858877.25	0.00144	0.00105	0.00061	0.00099	0.001	0.001	0.0011	0.00105	1.00E-02	1.94E-03	6.35E-08	3.48E-05	3.79E-04	1.02E-04	7.51E-03	7.14E-03	1.29E-02
4491	471863.09	3858877.25	0.00149	0.00106	0.00064	0.00102	0.001	0.001	0.0011	0.00106	1.04E-02	1.96E-03	6.66E-08	3.59E-05	3.89E-04	1.05E-04	7.58E-03	7.21E-03	1.32E-02
4492	472363.09	3858877.25	0.00157	0.0011	0.00069	0.00107	0.001	0.001	0.0011	0.0011	1.09E-02	2.03E-03	7.18E-08	3.77E-05	4.04E-04	1.11E-04	7.86E-03	7.48E-03	1.39E-02
4493	472863.09	3858877.25	0.00164	0.00112	0.00073	0.00111	0.001	0.001	0.0011	0.00112	1.14E-02	2.07E-03	7.60E-08	3.91E-05	4.20E-04	1.16E-04	8.08E-03	7.62E-03	1.45E-02
4494	473363.09	3858877.25	0.00171	0.00117	0.00079	0.00117	0.001	0.001	0.0012	0.00117	1.19E-02	2.16E-03	8.22E-08	4.12E-05	4.42E-04	1.22E-04	8.36E-03	7.96E-03	1.51E-02
4495	473863.09	3858877.25	0.0018	0.00117	0.0008	0.0012	0.001	0.001	0.0012	0.00117	1.25E-02	2.16E-03	8.33E-08	4.22E-05	4.54E-04	1.24E-04	8.43E-03	7.96E-03	1.58E-02
4496	474363.09	3858877.25	0.00186	0.00112	0.00075	0.00121	0.001	0.001	0.0012	0.00112	1.30E-02	2.07E-03	7.81E-08	4.26E-05	4.48E-04	1.23E-04	8.15E-03	7.62E-03	1.62E-02
4497	474863.09	3858877.25	0.00158	0.00088	0.00065	0.00104	0.001	0.001	0.0009	0.00088	1.10E-02	1.63E-03	6.77E-08	3.66E-05	3.26E-04	1.04E-04	6.45E-03	5.98E-03	1.36E-02
4498	475363.09	3858877.25	0.00141	0.00083	0.00064	0.00098	9E-04	0.001	0.0008	0.00083	9.83E-03	1.53E-03	6.66E-08	3.45E-05	2.95E-04	1.01E-04	5.95E-03	5.64E-03	1.21E-02
4499	475863.09	3858877.25	0.00153	0.00086	0.00068	0.00104	0.001	0.001	0.0009	0.00086	1.07E-02	1.59E-03	7.08E-08	3.66E-05	3.20E-04	1.07E-04	6.24E-03	5.85E-03	1.31E-02
4500	476363.09	3858877.25	0.00129	0.00078	0.00066	0.00096	9E-04	0.001	0.0008	0.00078	8.99E-03	1.44E-03	6.87E-08	3.38E-05	2.79E-04	1.01E-04	5.53E-03	5.30E-03	1.11E-02
4501	476863.09	3858877.25	0.00145	0.00084	0.00071	0.00104	1E-03	0.001	0.0008	0.00084	1.01E-02	1.55E-03	7.39E-08	3.66E-05	3.10E-04	1.10E-04	5.95E-03	5.71E-03	1.24E-02
4502	477363.09	3858877.25	0.00152	0.00087	0.00071	0.00109	0.001	0.001	0.0009	0.00087	1.06E-02	1.61E-03	7.39E-08	3.84E-05	3.26E-04	1.15E-04	6.16E-03	5.92E-03	1.29E-02
4503	477863.09	3858877.25	0.00173	0.00093	0.00075	0.00118	0.001	0.001	0.0009	0.00093	1.21E-02	1.72E-03	7.81E-08	4.15E-05	3.76E-04	1.23E-04	6.59E-03	6.32E-03	1.46E-02
4504	478363.09	3858877.25	0.00253	0.00112	0.00089	0.0015	0.002	0.002	0.0012	0.00112	1.76E-02	2.07E-03	9.27E-08	5.28E-05	5.92E-04	1.51E-04	8.36E-03	7.62E-03	2.12E-02
4505	478863.09	3858877.25	0.00242	0.00111	0.0009	0.00147	0.002	0.002	0.0012	0.00111	1.69E-02	2.05E-03	9.37E-08	5.17E-05	5.55E-04	1.50E-04	8.15E-03	7.55E-03	2.03E-02
4506	479363.09	3858877.25	0.00221	0.0011	0.0009	0.00142	0.002	0.002	0.0011	0.0011	1.54E-02	2.03E-03	9.37E-08	5.00E-05	5.17E-04	1.48E-04	7.86E-03	7.48E-03	1.85E-02
4507	479863.09	3858877.25	0.00345	0.00176	0.00139	0.00219	0.004	0.003	0.0017	0.00176	2.41E-02	3.25E-03	1.45E-07	7.71E-05	1.19E-03	2.42E-04	1.23E-02	1.20E-02	2.91E-02
4508	480363.09	3858877.25	0.00365	0.00191	0.00158	0.00239	0.004	0.003	0.0018	0.00191	2.54E-02	3.53E-03	1.64E-07	8.41E-05	1.29E-03	2.72E-04	1.30E-02	1.30E-02	3.07E-02
4509	480863.09	3858877.25	0.00388	0.00203	0.00198	0.00258	0.004	0.003	0.0019	0.00203	2.71E-02	3.75E-03	2.06E-07	9.08E-05	1.38E-03	2.96E-04	1.37E-02	1.38E-02	3.25E-02
4510	481363.09	3858877.25	0.00412	0.00215	0.00221	0.00275	0.005	0.003	0.0021	0.00215	2.87E-02	3.97E-03	2.30E-07	9.68E-05	1.47E-03	3.22E-04	1.45E-02	1.46E-02	3.45E-02
4511	481863.09	3858877.25	0.00436	0.00228	0.00218	0.00296	0.005	0.004	0.0022	0.00228	3.04E-02	4.21E-03	2.27E-07	1.04E-04	1.56E-03	3.50E-04	1.54E-02	1.55E-02	3.65E-02
4512	482363.09	3858877.25	0.00469	0.00243	0.00208	0.00317	0.005	0.004	0.0023	0.00243	3.27E-02	4.49E-03	2.17E-07	1.12E-04	1.68E-03	3.81E-04	1.63E-02	1.65E-02	3.91E-02
4513	482863.09	3858877.25	0.00498	0.0026	0.00285	0.00345	0.006	0.005	0.0025	0.0026	3.47E-02	4.80E-03	2.97E-07	1.21E-04	1.84E-03	4.25E-04	1.74E-02	1.77E-02	4.16E-02
4514	483363.09	3858877.25	0.0049	0.00304	0.00302	0.0037	0.006	0.006	0.0026	0.00304	3.42E-02	5.61E-03	3.14E-07	1.30E-04	1.87E-03	5.27E-04	1.86E-02	2.07E-02	4.03E-02
4515	483863.09	3858877.25	0.00529	0.00324	0.00282	0.00399	0.006	0.006	0.0028	0.00324	3.69E-02	5.98E-03	2.94E-07	1.40E-04	2.02E-03	6.06E-04	1.96E-02	2.20E-02	4.32E-02
4516	484363.09	3858877.25	0.00594	0.00349	0.00325	0.00438	0.007	0.008	0.0029	0.00349	4.14E-02	6.45E-03	3.38E-07	1.54E-04	2.28E-03	7.13E-04	2.08E-02	2.37E-02	4.80E-02
4517	484863.09	3858877.25	0.00711	0.00381	0.00352	0.00485	0.008	0.009	0.0031	0.00381	4.96E-02	7.04E-03	3.66E-07	1.71E-04	2.62E-03	8.75E-04	2.22E-02	2.59E-02	5.66E-02
4518	485363.09	3858877.25	0.00907	0.00431	0.00426	0.00542	0.009	0.012	0.0035	0.00431	6.32E-02	7.96E-03	4.43E-07	1.91E-04	2.91E-03	1.14E-03	2.44E-02	2.93E-02	7.06E-02
4519	485863.09	3858877.25	0.01251	0.00498	0.00493	0.00626	0.01	0.018	0.0039	0.00498	8.72E-02	9.20E-03	5.13E-07	2.20E-04	3.09E-03	1.66E-03	2.75E-02	3.39E-02	9.50E-02
4520	486363.09	3858877.25	0.0236	0.00584	0.0064	0.00738	0.01	0.041	0.0044	0.00584	1.65E-01	1.08E-02	6.66E-07	2.60E-04	3.22E-03	3.82E-03	3.14E-02	3.97E-02	1.74E-01

4521	486863.09	3858877.25	0.09045	0.00711	0.00954	0.00906	0.01	0.065	0.0053	0.00711	6.31E-01	1.31E-02	9.93E-07	3.19E-04	3.05E-03	6.15E-03	3.73E-02	4.83E-02	6.42E-01
4522	487363.09	3858877.25	0.10866	0.00933	0.00881	0.01172	0.008	0.051	0.0067	0.00933	7.58E-01	1.72E-02	9.17E-07	4.12E-04	2.57E-03	4.79E-03	4.76E-02	6.34E-02	7.67E-01
4523	487863.09	3858877.25	0.11658	0.01378	0.0104	0.01584	0.006	0.164	0.0094	0.01378	8.13E-01	2.55E-02	1.08E-06	5.58E-04	1.93E-03	1.54E-02	6.67E-02	9.37E-02	8.29E-01
4524	488363.09	3858877.25	0.11879	0.03097	0.0116	0.02547	0.008	0.088	0.0184	0.03097	8.28E-01	5.72E-02	1.21E-06	8.96E-04	2.41E-03	8.27E-03	1.30E-01	2.11E-01	8.16E-01
4525	488863.09	3858877.25	0.10397	0.21332	0.01524	0.0676	0.014	0.067	0.3109	0.21332	7.25E-01	3.94E-01	1.59E-06	2.38E-03	4.33E-03	6.31E-03	2.20E+00	1.45E+00	1.88E+00
4526	489363.09	3858877.25	0.04764	0.04905	0.01953	0.32502	0.012	0.126	0.0498	0.04905	3.32E-01	9.06E-02	2.03E-06	1.14E-02	3.73E-03	1.18E-02	3.53E-01	3.34E-01	4.69E-01
4527	489863.09	3858877.25	0.03451	0.02837	0.0202	0.09452	0.012	0.054	0.0271	0.02837	2.41E-01	5.24E-02	2.10E-06	3.33E-03	3.75E-03	5.10E-03	1.92E-01	1.93E-01	3.04E-01
4528	490363.09	3858877.25	0.02796	0.01972	0.02392	0.05903	0.013	0.037	0.0187	0.01972	1.95E-01	3.64E-02	2.49E-06	2.08E-03	3.95E-03	3.48E-03	1.32E-01	1.34E-01	2.39E-01
4529	490863.09	3858877.25	0.02453	0.01397	0.02333	0.04062	0.012	0.027	0.0133	0.01397	1.71E-01	2.58E-02	2.43E-06	1.43E-03	3.89E-03	2.51E-03	9.42E-02	9.50E-02	2.04E-01
4530	491363.09	3858877.25	0.02249	0.00996	0.01878	0.02701	0.011	0.019	0.0096	0.00996	1.57E-01	1.84E-02	1.96E-06	9.51E-04	3.44E-03	1.82E-03	6.79E-02	6.77E-02	1.82E-01
4531	491863.09	3858877.25	0.01904	0.00756	0.0136	0.01929	0.009	0.015	0.0073	0.00756	1.33E-01	1.40E-02	1.42E-06	6.79E-04	2.92E-03	1.40E-03	5.19E-02	5.14E-02	1.52E-01
4532	492363.09	3858877.25	0.01765	0.0074	0.01238	0.01915	0.011	0.015	0.0072	0.0074	1.23E-01	1.37E-02	1.29E-06	6.74E-04	3.50E-03	1.40E-03	5.08E-02	5.03E-02	1.43E-01
4533	492863.09	3858877.25	0.01603	0.00752	0.01229	0.01977	0.012	0.016	0.0073	0.00752	1.12E-01	1.39E-02	1.28E-06	6.96E-04	3.81E-03	1.47E-03	5.17E-02	5.11E-02	1.32E-01
4534	493363.09	3858877.25	0.0146	0.00663	0.01012	0.01685	0.011	0.015	0.0065	0.00663	1.02E-01	1.22E-02	1.05E-06	5.93E-04	3.55E-03	1.38E-03	4.59E-02	4.51E-02	1.20E-01
4535	493863.09	3858877.25	0.01294	0.00565	0.00809	0.01352	0.01	0.014	0.0056	0.00565	9.02E-02	1.04E-02	8.42E-07	4.76E-04	2.98E-03	1.33E-03	3.95E-02	3.84E-02	1.06E-01
4536	494363.09	3858877.25	0.01176	0.00514	0.00695	0.01206	0.009	0.016	0.0051	0.00514	8.20E-02	9.49E-03	7.24E-07	4.24E-04	2.77E-03	1.53E-03	3.61E-02	3.50E-02	9.74E-02
4537	494863.09	3858877.25	0.01054	0.00468	0.00616	0.01062	0.008	0.021	0.0047	0.00468	7.35E-02	8.64E-03	6.41E-07	3.74E-04	2.53E-03	2.01E-03	3.30E-02	3.18E-02	8.82E-02
4538	495363.09	3858877.25	0.00941	0.0043	0.00542	0.00941	0.007	0.029	0.0043	0.0043	6.56E-02	7.94E-03	5.64E-07	3.31E-04	2.32E-03	2.69E-03	3.03E-02	2.92E-02	7.99E-02
4539	495863.09	3858877.25	0.00867	0.00407	0.00494	0.00865	0.007	0.103	0.0041	0.00407	6.04E-02	7.52E-03	5.14E-07	3.04E-04	2.21E-03	9.68E-03	2.87E-02	2.77E-02	8.12E-02
4540	496363.09	3858877.25	0.00822	0.00395	0.00462	0.00818	0.007	0.053	0.0039	0.00395	5.73E-02	7.30E-03	4.81E-07	2.88E-04	2.14E-03	4.97E-03	2.79E-02	2.69E-02	7.31E-02
4541	496863.09	3858877.25	0.00782	0.00385	0.00436	0.00779	0.007	0.029	0.0039	0.00385	5.45E-02	7.11E-03	4.54E-07	2.74E-04	2.08E-03	2.68E-03	2.73E-02	2.62E-02	6.78E-02
4542	497363.09	3858877.25	0.00743	0.00376	0.00413	0.00742	0.006	0.02	0.0038	0.00376	5.18E-02	6.94E-03	4.30E-07	2.61E-04	2.00E-03	1.92E-03	2.66E-02	2.56E-02	6.40E-02
4543	497863.09	3858877.25	0.00745	0.00392	0.00421	0.00769	0.007	0.017	0.0039	0.00392	5.19E-02	7.24E-03	4.38E-07	2.71E-04	2.11E-03	1.59E-03	2.78E-02	2.67E-02	6.43E-02
4544	498363.09	3858877.25	0.00725	0.00412	0.0043	0.00796	0.007	0.015	0.0041	0.00412	5.05E-02	7.61E-03	4.48E-07	2.80E-04	2.19E-03	1.39E-03	2.92E-02	2.80E-02	6.32E-02
4545	471363.09	3859377.25	0.00142	0.00102	0.00065	0.00098	0.001	0.001	0.001	0.00102	9.90E-03	1.88E-03	6.77E-08	3.45E-05	3.54E-04	1.02E-04	7.30E-03	6.94E-03	1.26E-02
4546	471863.09	3859377.25	0.00147	0.00104	0.00068	0.00102	0.001	0.001	0.0011	0.00104	1.02E-02	1.92E-03	7.08E-08	3.59E-05	3.73E-04	1.06E-04	7.44E-03	7.07E-03	1.31E-02
4547	472363.09	3859377.25	0.00154	0.00107	0.00072	0.00106	0.001	0.001	0.0011	0.00107	1.07E-02	1.98E-03	7.50E-08	3.73E-05	3.98E-04	1.11E-04	7.65E-03	7.28E-03	1.36E-02
4548	472863.09	3859377.25	0.00159	0.0011	0.00075	0.00111	0.001	0.001	0.0011	0.0011	1.11E-02	2.03E-03	7.81E-08	3.91E-05	4.26E-04	1.16E-04	7.86E-03	7.48E-03	1.41E-02
4549	473363.09	3859377.25	0.00165	0.00114	0.00078	0.00115	0.001	0.001	0.0011	0.00114	1.15E-02	2.11E-03	8.12E-08	4.05E-05	4.61E-04	1.21E-04	8.08E-03	7.75E-03	1.46E-02
4550	473863.09	3859377.25	0.00173	0.00116	0.00078	0.0012	0.002	0.001	0.0012	0.00116	1.21E-02	2.14E-03	8.12E-08	4.22E-05	4.95E-04	1.26E-04	8.22E-03	7.89E-03	1.52E-02
4551	474363.09	3859377.25	0.00179	0.00109	0.00074	0.0012	0.002	0.001	0.0011	0.00109	1.25E-02	2.01E-03	7.70E-08	4.22E-05	5.01E-04	1.23E-04	7.94E-03	7.41E-03	1.57E-02
4552	474863.09	3859377.25	0.00177	0.00098	0.00072	0.00114	0.001	0.001	0.001	0.00098	1.23E-02	1.81E-03	7.50E-08	4.01E-05	4.51E-04	1.15E-04	7.23E-03	6.66E-03	1.53E-02
4553	475363.09	3859377.25	0.00159	0.00087	0.0007	0.00104	0.001	0.001	0.0009	0.00087	1.11E-02	1.61E-03	7.29E-08	3.66E-05	3.73E-04	1.05E-04	6.31E-03	5.92E-03	1.36E-02
4554	475863.09	3859377.25	0.00132	0.00079	0.00063	0.00094	9E-04	0.001	0.0008	0.00079	9.20E-03	1.46E-03	6.56E-08	3.31E-05	2.95E-04	9.87E-05	5.60E-03	5.37E-03	1.13E-02
4555	476363.09	3859377.25	0.00128	0.00077	0.00061	0.00095	9E-04	0.001	0.0008	0.00077	8.92E-03	1.42E-03	6.35E-08	3.34E-05	2.95E-04	9.96E-05	5.53E-03	5.24E-03	1.11E-02
4556	476863.09	3859377.25	0.00119	0.00074	0.00058	0.00092	9E-04	0.001	0.0007	0.00074	8.30E-03	1.37E-03	6.04E-08	3.24E-05	2.82E-04	9.78E-05	5.24E-03	5.03E-03	1.03E-02
4557	477363.09	3859377.25	0.00128	0.00077	0.0006	0.00097	1E-03	0.001	0.0008	0.00077	8.92E-03	1.42E-03	6.25E-08	3.41E-05	3.07E-04	1.02E-04	5.46E-03	5.24E-03	1.10E-02
4558	477863.09	3859377.25	0.00175	0.0009	0.0007	0.00118	0.001	0.001	0.0009	0.0009	1.22E-02	1.66E-03	7.29E-08	4.15E-05	4.14E-04	1.19E-04	6.52E-03	6.12E-03	1.48E-02
4559	478363.09	3859377.25	0.00228	0.00103	0.00083	0.00141	0.002	0.001	0.0011	0.00103	1.59E-02	1.90E-03	8.64E-08	4.96E-05	5.80E-04	1.39E-04	7.58E-03	7.00E-03	1.91E-02
4560	478863.09	3859377.25	0.00274	0.00121	0.00093	0.00169	0.003	0.002	0.0013	0.00121	1.91E-02	2.23E-03	9.68E-08	5.95E-05	7.96E-04	1.64E-04	9.00E-03	8.23E-03	2.31E-02
4561	479363.09	3859377.25	0.00301	0.0014	0.00107	0.00192	0.003	0.002	0.0014	0.0014	2.10E-02	2.59E-03	1.11E-07	6.76E-05	9.31E-04	1.92E-04	1.02E-02	9.52E-03	2.54E-02
4562	479863.09	3859377.25	0.0032	0.00158	0.00123	0.00213	0.003	0.002	0.0016	0.00158	2.23E-02	2.92E-03	1.28E-07	7.50E-05	1.00E-03	2.24E-04	1.12E-02	1.07E-02	2.70E-02
4563	480363.09	3859377.25	0.00332	0.00176	0.00168	0.00233	0.003	0.003	0.0017	0.00176	2.31E-02	3.25E-03	1.75E-07	8.20E-05	1.07E-03	2.57E-04	1.20E-02	1.20E-02	2.79E-02
4564	480863.09	3859377.25	0.00346	0.00189	0.00192	0.0025	0.004	0.003	0.0018	0.00189	2.41E-02	3.49E-03	2.00E-07	8.80E-05	1.16E-03	2.83E-04	1.28E-02	1.29E-02	2.90E-02
4565	481363.09	3859377.25	0.00361	0.002	0.00185	0.00266	0.004	0.003	0.0019	0.002	2.52E-02	3.69E-03	1.93E-07	9.36E-05	1.24E-03	3.08E-04	1.34E-02	1.36E-02	3.03E-02
4566	481863.09	3859377.25	0.00379	0.00211	0.00181	0.00283	0.004	0.004	0.002	0.00211	2.64E-02	3.90E-03	1.88E-07	9.96E-05	1.34E-03	3.33E-04	1.40E-02	1.43E-02	3.18E-02
4567	482363.09	3859377.25	0.00405	0.00223	0.00197	0.00303	0.005	0.004	0.0021	0.00223	2.82E-02	4.12E-03	2.05E-07	1.07E-04	1.46E-03	3.64E-04	1.48E-02	1.52E-02	3.39E-02
4568	482863.09	3859377.25	0.00427	0.00237	0.0024	0.00329	0.005	0.004	0.0022	0.00237	2.98E-02	4.38E-03	2.50E-07	1.16E-04	1.58E-03	4.05E-04	1.56E-02	1.61E-02	3.57E-02
4569	483363.09	3859377.25	0.00438	0.00264	0.00241	0.00358	0.005	0.005	0.0024	0.00264	3.05E-02	4.88E-03	2.51E-07	1.26E-04	1.68E-03	4.70E-04	1.67E-02	1.80E-02	3.65E-02
4570	483863.09	3859377.25	0.00457	0.00285	0.00245	0.00381	0.006	0.006	0.0025	0.00285	3.19E-02	5.26E-03	2.55E-07	1.34E-04	1.76E-03	5.40E-04	1.77E-02	1.94E-02	3.79E-02
4571	484363.09	3859377.25	0.00507	0.00309	0.00283	0.00416	0.006	0.007	0.0027	0.00309	3.53E-02	5.71E-03	2.95E-07	1.46E-04	1.95E-03	6.19E-04	1.91E-02	2.10E-02	4.19E-02
4572	484863.09	3859377.25	0.00585	0.00335	0.00269	0.00461	0.007	0.008	0.0029	0.00335	4.08E-02	6.19E-03	2.80E-07	1.62E-04	2.10E-03	7.28E-04	2.07E-02	2.28E-02	4.79E-02
4573	485363.09	3859377.25	0.00718	0.0037	0.00299	0.0051	0.007	0.01	0.0032	0.0037	5.01E-02	6.83E-03	3.11E-07	1.80E-04	2.11E-03	9.00E-04	2.25E-02	2.52E-02	5.75E-02
4574	485863.09	3859377.25	0.00928	0.00411	0.00373	0.0057	0.007	0.013	0.0035	0.00411	6.47E-02	7.59E-03	3.88E-07	2.01E-04	2.10E-03	1.19E-03	2.47E-02	2.79E-02	7.26E-02
4575	486363.09	3859377.25	0.01329	0.00458	0.00469	0.0065	0.007	0.02	0.0039	0.00458	9.27E-02	8.46E-03	4.88E-07	2.29E-04	2.11E-03	1.90E-03	2.73E-02	3.11E-02	1.01E-01
4576	486863.09	3859377.25	0.03489	0.00518	0.0048	0.00757	0.006	0.094	0.0043	0.00518	2.43E-01	9.57E-03	5.00E-07	2.66E-04	1.91E-03	8.80E-03	3.06E-02	3.52E-02	2.59E-01
4577	487363.09	3859377.25	0.09071	0.00603	0.00482	0.0092	0.005	0.112	0.0051	0.00603	6.32E-01	1.11E-02	5.02E-07	3.24E-04	1.43E-03	1.05E-02	3.59E-02	4.10E-02	6.51E-01
4578	487863.09	3859377.25	0.10507	0.00739	0.00564	0.012	0.004	0.073	0.0063	0.00739	7.33E-01	1.36E-02	5.87E-07	4.22E-04	1.28E-03	6.87E-03	4.48E-02	5.03E-02	7.49E-01

4579	488363.09	3859377.25	0.11073	0.0098	0.00765	0.0171	0.004	0.244	0.0085	0.0098	7.72E-01	1.81E-02	7.96E-07	6.02E-04	1.20E-03	2.29E-02	6.04E-02	6.66E-02	8.09E-01
4580	488863.09	3859377.25	0.0786	0.01531	0.01338	0.03162	0.007	0.053	0.0139	0.01531	5.48E-01	2.83E-02	1.39E-06	1.11E-03	2.32E-03	5.00E-03	9.82E-02	1.04E-01	5.79E-01
4581	489363.09	3859377.25	0.04407	0.04131	0.06061	0.1256	0.009	0.045	0.039	0.04131	3.07E-01	7.63E-02	6.31E-06	4.42E-03	2.85E-03	4.21E-03	2.76E-01	2.81E-01	3.90E-01
4582	489863.09	3859377.25	0.07528	0.13388	1.73507	0.39961	0.007	0.312	0.1361	0.13388	5.25E-01	2.47E-01	1.81E-04	1.41E-02	2.28E-03	2.93E-02	9.64E-01	9.10E-01	8.72E-01
4583	490363.09	3859377.25	0.03506	0.04282	0.18765	0.12107	0.007	0.073	0.0422	0.04282	2.44E-01	7.91E-02	1.95E-05	4.26E-03	2.31E-03	6.82E-03	2.99E-01	2.91E-01	3.45E-01
4584	490863.09	3859377.25	0.02674	0.02346	0.06327	0.05575	0.008	0.038	0.023	0.02346	1.86E-01	4.33E-02	6.59E-06	1.96E-03	2.54E-03	3.54E-03	1.63E-01	1.60E-01	2.41E-01
4585	491363.09	3859377.25	0.02347	0.0139	0.02667	0.03109	0.008	0.023	0.0137	0.0139	1.64E-01	2.57E-02	2.78E-06	1.09E-03	2.39E-03	2.19E-03	9.70E-02	9.45E-02	1.97E-01
4586	491863.09	3859377.25	0.01918	0.0131	0.02148	0.02927	0.007	0.023	0.0128	0.0131	1.34E-01	2.42E-02	2.24E-06	1.03E-03	2.25E-03	2.16E-03	9.08E-02	8.91E-02	1.65E-01
4587	492363.09	3859377.25	0.01688	0.01116	0.01617	0.025	0.007	0.021	0.0109	0.01116	1.18E-01	2.06E-02	1.68E-06	8.80E-04	2.21E-03	1.95E-03	7.72E-02	7.59E-02	1.45E-01
4588	492863.09	3859377.25	0.01501	0.00998	0.01317	0.02207	0.008	0.02	0.0097	0.00998	1.05E-01	1.84E-02	1.37E-06	7.77E-04	2.41E-03	1.87E-03	6.88E-02	6.79E-02	1.29E-01
4589	493363.09	3859377.25	0.01376	0.00839	0.01039	0.01812	0.008	0.019	0.0082	0.00839	9.59E-02	1.55E-02	1.08E-06	6.38E-04	2.51E-03	1.75E-03	5.79E-02	5.71E-02	1.17E-01
4590	493863.09	3859377.25	0.0125	0.00759	0.00887	0.01601	0.008	0.021	0.0074	0.00759	8.71E-02	1.40E-02	9.23E-07	5.63E-04	2.54E-03	1.97E-03	5.24E-02	5.16E-02	1.07E-01
4591	494363.09	3859377.25	0.01149	0.00679	0.0076	0.01386	0.008	0.033	0.0066	0.00679	8.01E-02	1.25E-02	7.91E-07	4.88E-04	2.46E-03	3.12E-03	4.70E-02	4.62E-02	9.96E-02
4592	494863.09	3859377.25	0.01046	0.00581	0.00617	0.01141	0.007	0.352	0.0057	0.00581	7.29E-02	1.07E-02	6.42E-07	4.02E-04	2.24E-03	3.31E-02	4.06E-02	3.95E-02	1.20E-01
4593	495363.09	3859377.25	0.00964	0.00539	0.00555	0.01043	0.007	0.051	0.0053	0.00539	6.72E-02	9.95E-03	5.78E-07	3.67E-04	2.19E-03	4.76E-03	3.78E-02	3.67E-02	8.57E-02
4594	495863.09	3859377.25	0.00887	0.00495	0.00495	0.00937	0.007	0.034	0.0049	0.00495	6.18E-02	9.14E-03	5.15E-07	3.30E-04	2.08E-03	3.22E-03	3.49E-02	3.37E-02	7.79E-02
4595	496363.09	3859377.25	0.00831	0.00477	0.00464	0.00887	0.007	0.026	0.0047	0.00477	5.79E-02	8.81E-03	4.83E-07	3.12E-04	2.08E-03	2.42E-03	3.36E-02	3.24E-02	7.27E-02
4596	496863.09	3859377.25	0.00764	0.00439	0.00411	0.00786	0.006	0.02	0.0044	0.00439	5.33E-02	8.11E-03	4.28E-07	2.77E-04	1.93E-03	1.84E-03	3.10E-02	2.99E-02	6.65E-02
4597	497363.09	3859377.25	0.0073	0.00439	0.00402	0.00775	0.006	0.016	0.0044	0.00439	5.09E-02	8.11E-03	4.19E-07	2.73E-04	1.99E-03	1.55E-03	3.10E-02	2.99E-02	6.39E-02
4598	497863.09	3859377.25	0.00701	0.00456	0.0041	0.00796	0.007	0.015	0.0045	0.00456	4.89E-02	8.42E-03	4.27E-07	2.80E-04	2.07E-03	1.39E-03	3.21E-02	3.10E-02	6.21E-02
4599	498363.09	3859377.25	0.00667	0.00472	0.00415	0.00797	0.007	0.014	0.0047	0.00472	4.65E-02	8.72E-03	4.32E-07	2.81E-04	2.06E-03	1.27E-03	3.30E-02	3.21E-02	5.98E-02
4600	471363.09	3859877.25	0.00139	0.001	0.00067	0.00099	0.001	0.001	0.001	0.001	9.69E-03	1.85E-03	6.98E-08	3.48E-05	4.04E-04	1.03E-04	7.09E-03	6.80E-03	1.24E-02
4601	471863.09	3859877.25	0.00144	0.00102	0.00069	0.00102	0.001	0.001	0.001	0.00102	1.00E-02	1.88E-03	7.18E-08	3.59E-05	4.36E-04	1.07E-04	7.23E-03	6.94E-03	1.28E-02
4602	472363.09	3859877.25	0.00149	0.00104	0.0007	0.00106	0.001	0.001	0.001	0.00104	1.04E-02	1.92E-03	7.29E-08	3.73E-05	4.67E-04	1.10E-04	7.37E-03	7.07E-03	1.32E-02
4603	472863.09	3859877.25	0.00154	0.00108	0.00073	0.00111	0.002	0.001	0.0011	0.00108	1.07E-02	1.99E-03	7.60E-08	3.91E-05	5.01E-04	1.16E-04	7.58E-03	7.34E-03	1.36E-02
4604	473363.09	3859877.25	0.0016	0.00111	0.00076	0.00116	0.002	0.001	0.0011	0.00111	1.12E-02	2.05E-03	7.91E-08	4.08E-05	5.33E-04	1.21E-04	7.79E-03	7.55E-03	1.41E-02
4605	473863.09	3859877.25	0.00166	0.00113	0.0008	0.00121	0.002	0.001	0.0011	0.00113	1.16E-02	2.09E-03	8.33E-08	4.26E-05	5.64E-04	1.27E-04	7.94E-03	7.68E-03	1.46E-02
4606	474363.09	3859877.25	0.00176	0.00109	0.00078	0.00123	0.002	0.001	0.0011	0.00109	1.23E-02	2.01E-03	8.12E-08	4.33E-05	5.83E-04	1.25E-04	7.86E-03	7.41E-03	1.55E-02
4607	474863.09	3859877.25	0.00178	0.00102	0.00074	0.00121	0.002	0.001	0.0011	0.00102	1.24E-02	1.88E-03	7.70E-08	4.26E-05	5.58E-04	1.20E-04	7.44E-03	6.94E-03	1.55E-02
4608	475363.09	3859877.25	0.00165	0.00088	0.00066	0.00108	0.001	0.001	0.0009	0.00088	1.15E-02	1.63E-03	6.87E-08	3.80E-05	4.36E-04	1.07E-04	6.45E-03	5.98E-03	1.42E-02
4609	475863.09	3859877.25	0.00126	0.00076	0.00056	0.00091	1E-03	0.001	0.0008	0.00076	8.78E-03	1.40E-03	5.83E-08	3.20E-05	3.10E-04	9.49E-05	5.38E-03	5.17E-03	1.08E-02
4610	476363.09	3859877.25	0.00104	0.00068	0.0005	0.00082	9E-04	9E-04	0.0007	0.00068	7.25E-03	1.26E-03	5.21E-08	2.89E-05	2.85E-04	8.74E-05	4.75E-03	4.62E-03	9.03E-03
4611	476863.09	3859877.25	0.00111	0.00071	0.00054	0.00088	1E-03	1E-03	0.0007	0.00071	7.74E-03	1.31E-03	5.62E-08	3.10E-05	3.10E-04	9.31E-05	5.03E-03	4.83E-03	9.69E-03
4612	477363.09	3859877.25	0.00116	0.00073	0.00057	0.00091	0.001	0.001	0.0007	0.00073	8.09E-03	1.35E-03	5.93E-08	3.20E-05	3.32E-04	9.68E-05	5.17E-03	4.96E-03	1.01E-02
4613	477863.09	3859877.25	0.00159	0.00085	0.00065	0.00109	0.001	0.001	0.0009	0.00085	1.11E-02	1.57E-03	6.77E-08	3.84E-05	4.04E-04	1.13E-04	6.09E-03	5.78E-03	1.35E-02
4614	478363.09	3859877.25	0.00217	0.00099	0.00075	0.00135	0.002	0.001	0.001	0.00099	1.51E-02	1.83E-03	7.81E-08	4.75E-05	5.26E-04	1.34E-04	7.30E-03	6.73E-03	1.82E-02
4615	478863.09	3859877.25	0.00257	0.00116	0.00084	0.00161	0.002	0.002	0.0012	0.00116	1.79E-02	2.14E-03	8.74E-08	5.67E-05	6.74E-04	1.60E-04	8.64E-03	7.89E-03	2.17E-02
4616	479363.09	3859877.25	0.00282	0.00138	0.00099	0.00186	0.002	0.002	0.0014	0.00138	1.97E-02	2.55E-03	1.03E-07	6.55E-05	7.71E-04	1.93E-04	9.85E-03	9.38E-03	2.37E-02
4617	479863.09	3859877.25	0.00293	0.00155	0.00131	0.00208	0.003	0.002	0.0015	0.00155	2.04E-02	2.86E-03	1.36E-07	7.32E-05	8.55E-04	2.23E-04	1.08E-02	1.05E-02	2.47E-02
4618	480363.09	3859877.25	0.00301	0.00169	0.00161	0.00227	0.003	0.003	0.0016	0.00169	2.10E-02	3.12E-03	1.68E-07	7.99E-05	9.65E-04	2.49E-04	1.15E-02	1.15E-02	2.54E-02
4619	480863.09	3859877.25	0.0031	0.0018	0.00165	0.00244	0.003	0.003	0.0017	0.0018	2.16E-02	3.32E-03	1.72E-07	8.59E-05	1.05E-03	2.72E-04	1.21E-02	1.22E-02	2.62E-02
4620	481363.09	3859877.25	0.00321	0.00189	0.00158	0.00261	0.004	0.003	0.0018	0.00189	2.24E-02	3.49E-03	1.64E-07	9.19E-05	1.13E-03	2.91E-04	1.26E-02	1.29E-02	2.71E-02
4621	481863.09	3859877.25	0.00337	0.00198	0.00177	0.00278	0.004	0.003	0.0019	0.00198	2.35E-02	3.66E-03	1.84E-07	9.78E-05	1.21E-03	3.13E-04	1.32E-02	1.35E-02	2.85E-02
4622	482363.09	3859877.25	0.00355	0.00209	0.00209	0.00296	0.004	0.004	0.002	0.00209	2.47E-02	3.86E-03	2.18E-07	1.04E-04	1.29E-03	3.40E-04	1.38E-02	1.42E-02	3.00E-02
4623	482863.09	3859877.25	0.00372	0.00219	0.00233	0.00319	0.004	0.004	0.002	0.00219	2.59E-02	4.04E-03	2.43E-07	1.12E-04	1.39E-03	3.71E-04	1.45E-02	1.49E-02	3.14E-02
4624	483363.09	3859877.25	0.0039	0.00231	0.00221	0.00342	0.005	0.004	0.0021	0.00231	2.72E-02	4.27E-03	2.30E-07	1.20E-04	1.50E-03	4.13E-04	1.52E-02	1.57E-02	3.29E-02
4625	483863.09	3859877.25	0.00396	0.00251	0.00218	0.00363	0.005	0.005	0.0023	0.00251	2.76E-02	4.64E-03	2.27E-07	1.28E-04	1.54E-03	4.82E-04	1.60E-02	1.71E-02	3.33E-02
4626	484363.09	3859877.25	0.00429	0.00267	0.00237	0.00387	0.005	0.006	0.0024	0.00267	2.99E-02	4.93E-03	2.47E-07	1.36E-04	1.60E-03	5.42E-04	1.69E-02	1.82E-02	3.59E-02
4627	484863.09	3859877.25	0.0048	0.00284	0.00252	0.00418	0.005	0.007	0.0026	0.00284	3.35E-02	5.25E-03	2.62E-07	1.47E-04	1.56E-03	6.21E-04	1.81E-02	1.93E-02	3.98E-02
4628	485363.09	3859877.25	0.00561	0.00308	0.0029	0.00456	0.005	0.008	0.0028	0.00308	3.91E-02	5.69E-03	3.02E-07	1.60E-04	1.49E-03	7.35E-04	1.96E-02	2.09E-02	4.58E-02
4629	485863.09	3859877.25	0.00682	0.00341	0.00321	0.00504	0.005	0.009	0.003	0.00341	4.75E-02	6.30E-03	3.34E-07	1.77E-04	1.53E-03	8.86E-04	2.15E-02	2.32E-02	5.48E-02
4630	486363.09	3859877.25	0.0085	0.00381	0.00413	0.00571	0.005	0.012	0.0034	0.00381	5.93E-02	7.04E-03	4.30E-07	2.01E-04	1.53E-03	1.12E-03	2.40E-02	2.59E-02	6.73E-02
4631	486863.09	3859877.25	0.01132	0.00428	0.00384	0.00664	0.004	0.017	0.0038	0.00428	7.89E-02	7.90E-03	4.00E-07	2.34E-04	1.22E-03	1.55E-03	2.70E-02	2.91E-02	8.77E-02
4632	487363.09	3859877.25	0.02022	0.00478	0.00418	0.00788	0.003	0.032	0.0043	0.00478	1.41E-01	8.83E-03	4.35E-07	2.77E-04	1.00E-03	2.99E-03	3.03E-02	3.25E-02	1.52E-01
4633	487863.09	3859877.25	0.08511	0.00543	0.00452	0.00983	0.003	0.071	0.005	0.00543	5.93E-01	1.00E-02	4.71E-07	3.46E-04	9.53E-04	6.68E-03	3.51E-02	3.69E-02	6.10E-01
4634	488363.09	3859877.25	0.08888	0.00622	0.00632	0.01317	0.002	0.203	0.0058	0.00622	6.20E-01	1.15E-02	6.58E-07	4.64E-04	7.80E-04	1.91E-02	4.09E-02	4.23E-02	6.50E-01
4635	488863.09	3859877.25	0.04885	0.00772	0.00838	0.02402	0.004	0.047	0.0073	0.00772	3.41E-01	1.43E-02	8.72E-07	8.45E-04	1.16E-03	4.41E-03	5.15E-02	5.25E-02	3.60E-01
4636	489363.09	3859877.25	0.03856	0.01039	0.01416	0.10393	0.007	0.032	0.0101	0.01039	2.69E-01	1.92E-02	1.47E-06	3.66E-03	2.11E-03	3.02E-03	7.12E-02	7.07E-02	2.97E-01

4637	489863.09	3859877.25	0.02861	0.01636	0.01638	0.04128	0.006	0.029	0.016	0.01636	1.99E-01	3.02E-02	1.71E-06	1.45E-03	1.92E-03	2.75E-03	1.13E-01	1.11E-01	2.38E-01
4638	490363.09	3859877.25	0.02462	0.03678	0.0169	0.04774	0.005	0.036	0.0362	0.03678	1.72E-01	6.79E-02	1.76E-06	1.68E-03	1.53E-03	3.40E-03	2.56E-01	2.50E-01	2.52E-01
4639	490863.09	3859877.25	0.05763	0.27913	0.01885	0.2926	0.005	0.305	0.3076	0.27913	4.02E-01	5.16E-01	1.96E-06	1.03E-02	1.58E-03	2.87E-02	2.18E+00	1.90E+00	1.24E+00
4640	491363.09	3859877.25	0.03288	0.05403	0.01721	0.23577	0.005	0.115	0.0539	0.05403	2.29E-01	9.98E-02	1.79E-06	8.30E-03	1.65E-03	1.08E-02	3.82E-01	3.67E-01	3.64E-01
4641	491863.09	3859877.25	0.02009	0.02736	0.0144	0.08043	0.006	0.056	0.0272	0.02736	1.40E-01	5.05E-02	1.50E-06	2.83E-03	1.78E-03	5.28E-03	1.92E-01	1.86E-01	2.07E-01
4642	492363.09	3859877.25	0.01582	0.01857	0.01184	0.0424	0.006	0.041	0.0184	0.01857	1.10E-01	3.43E-02	1.23E-06	1.49E-03	1.73E-03	3.81E-03	1.30E-01	1.26E-01	1.56E-01
4643	492863.09	3859877.25	0.01349	0.01364	0.00955	0.02636	0.005	0.033	0.0135	0.01364	9.40E-02	2.52E-02	9.94E-07	9.28E-04	1.60E-03	3.08E-03	9.54E-02	9.27E-02	1.28E-01
4644	493363.09	3859877.25	0.01181	0.01124	0.00812	0.01977	0.005	0.031	0.0111	0.01124	8.23E-02	2.08E-02	8.45E-07	6.96E-04	1.58E-03	2.92E-03	7.84E-02	7.64E-02	1.10E-01
4645	493863.09	3859877.25	0.0106	0.00966	0.00711	0.01608	0.005	0.034	0.0095	0.00966	7.39E-02	1.78E-02	7.40E-07	5.66E-04	1.68E-03	3.17E-03	6.71E-02	6.57E-02	9.86E-02
4646	494363.09	3859877.25	0.00974	0.00833	0.00623	0.01342	0.006	0.083	0.0082	0.00833	6.79E-02	1.54E-02	6.49E-07	4.72E-04	1.77E-03	7.78E-03	5.77E-02	5.66E-02	9.44E-02
4647	494863.09	3859877.25	0.00895	0.00761	0.00572	0.01194	0.006	0.054	0.0074	0.00761	6.24E-02	1.41E-02	5.95E-07	4.20E-04	1.83E-03	5.10E-03	5.27E-02	5.17E-02	8.48E-02
4648	495363.09	3859877.25	0.00835	0.00687	0.0052	0.01061	0.006	0.033	0.0067	0.00687	5.82E-02	1.27E-02	5.41E-07	3.73E-04	1.82E-03	3.06E-03	4.77E-02	4.67E-02	7.71E-02
4649	495863.09	3859877.25	0.00783	0.00624	0.00472	0.00951	0.006	0.024	0.0061	0.00624	5.46E-02	1.15E-02	4.91E-07	3.35E-04	1.79E-03	2.23E-03	4.34E-02	4.24E-02	7.15E-02
4650	496363.09	3859877.25	0.00736	0.00552	0.00412	0.00828	0.005	0.018	0.0055	0.00552	5.13E-02	1.02E-02	4.29E-07	2.91E-04	1.71E-03	1.69E-03	3.86E-02	3.75E-02	6.63E-02
4651	496863.09	3859877.25	0.00654	0.00457	0.00327	0.00654	0.004	0.013	0.0046	0.00457	4.56E-02	8.44E-03	3.40E-07	2.30E-04	1.38E-03	1.22E-03	3.23E-02	3.11E-02	5.81E-02
4652	497363.09	3859877.25	0.00649	0.00485	0.00353	0.00713	0.005	0.013	0.0048	0.00485	4.52E-02	8.96E-03	3.67E-07	2.51E-04	1.64E-03	1.21E-03	3.42E-02	3.30E-02	5.85E-02
4653	497863.09	3859877.25	0.0062	0.00525	0.0038	0.00757	0.006	0.013	0.0052	0.00525	4.32E-02	9.70E-03	3.96E-07	2.66E-04	1.75E-03	1.18E-03	3.67E-02	3.57E-02	5.71E-02
4654	498363.09	3859877.25	0.0058	0.00546	0.00383	0.00748	0.006	0.012	0.0054	0.00546	4.04E-02	1.01E-02	3.99E-07	2.63E-04	1.75E-03	1.09E-03	3.80E-02	3.71E-02	5.45E-02
4655	471363.09	3860377.25	0.00134	0.00098	0.00066	0.00098	0.001	0.001	0.001	0.00098	9.34E-03	1.81E-03	6.87E-08	3.45E-05	4.57E-04	1.02E-04	6.87E-03	6.66E-03	1.20E-02
4656	471863.09	3860377.25	0.00139	0.001	0.00069	0.00101	0.002	0.001	0.001	0.001	9.69E-03	1.85E-03	7.18E-08	3.55E-05	4.79E-04	1.07E-04	7.01E-03	6.80E-03	1.24E-02
4657	472363.09	3860377.25	0.00144	0.00103	0.00072	0.00105	0.002	0.001	0.001	0.00103	1.00E-02	1.90E-03	7.50E-08	3.70E-05	4.98E-04	1.12E-04	7.23E-03	7.00E-03	1.28E-02
4658	472863.09	3860377.25	0.00148	0.00105	0.00077	0.0011	0.002	0.001	0.001	0.00105	1.03E-02	1.94E-03	8.02E-08	3.87E-05	5.17E-04	1.17E-04	7.37E-03	7.14E-03	1.32E-02
4659	473363.09	3860377.25	0.00154	0.00108	0.00082	0.00114	0.002	0.001	0.0011	0.00108	1.07E-02	1.99E-03	8.54E-08	4.01E-05	5.39E-04	1.24E-04	7.58E-03	7.34E-03	1.37E-02
4660	473863.09	3860377.25	0.00161	0.0011	0.00085	0.00119	0.002	0.001	0.0011	0.0011	1.12E-02	2.03E-03	8.85E-08	4.19E-05	5.58E-04	1.29E-04	7.72E-03	7.48E-03	1.42E-02
4661	474363.09	3860377.25	0.00169	0.0011	0.00084	0.00122	0.002	0.001	0.0011	0.0011	1.18E-02	2.03E-03	8.74E-08	4.29E-05	5.73E-04	1.31E-04	7.79E-03	7.48E-03	1.49E-02
4662	474863.09	3860377.25	0.00178	0.00108	0.00078	0.00124	0.002	0.001	0.0011	0.00108	1.24E-02	1.99E-03	8.12E-08	4.36E-05	5.83E-04	1.31E-04	7.72E-03	7.34E-03	1.55E-02
4663	475363.09	3860377.25	0.00183	0.00102	0.0007	0.00123	0.002	0.001	0.0011	0.00102	1.28E-02	1.88E-03	7.29E-08	4.33E-05	5.64E-04	1.26E-04	7.44E-03	6.94E-03	1.59E-02
4664	475863.09	3860377.25	0.00184	0.00096	0.00066	0.0012	0.002	0.001	0.001	0.00096	1.28E-02	1.77E-03	6.87E-08	4.22E-05	5.30E-04	1.20E-04	7.01E-03	6.53E-03	1.58E-02
4665	476363.09	3860377.25	0.00178	0.00088	0.00065	0.00114	0.001	0.001	0.0009	0.00088	1.24E-02	1.63E-03	6.77E-08	4.01E-05	4.45E-04	1.13E-04	6.52E-03	5.98E-03	1.52E-02
4666	476863.09	3860377.25	0.00175	0.00086	0.00066	0.00113	0.001	0.001	0.0009	0.00086	1.22E-02	1.59E-03	6.87E-08	3.98E-05	4.29E-04	1.13E-04	6.31E-03	5.85E-03	1.48E-02
4667	477363.09	3860377.25	0.00137	0.00078	0.00056	0.00098	0.001	0.001	0.0008	0.00078	9.55E-03	1.44E-03	5.83E-08	3.45E-05	3.63E-04	1.02E-04	5.60E-03	5.30E-03	1.18E-02
4668	477863.09	3860377.25	0.00157	0.00083	0.0006	0.00109	0.001	0.001	0.0009	0.00083	1.09E-02	1.53E-03	6.25E-08	3.84E-05	3.98E-04	1.11E-04	6.02E-03	5.64E-03	1.34E-02
4669	478363.09	3860377.25	0.00215	0.00098	0.00069	0.00139	0.002	0.001	0.001	0.00098	1.50E-02	1.81E-03	7.18E-08	4.89E-05	5.04E-04	1.33E-04	7.23E-03	6.66E-03	1.80E-02
4670	478863.09	3860377.25	0.00242	0.00114	0.00084	0.00163	0.002	0.002	0.0012	0.00114	1.69E-02	2.11E-03	8.74E-08	5.74E-05	6.20E-04	1.58E-04	8.29E-03	7.75E-03	2.04E-02
4671	479363.09	3860377.25	0.00263	0.00132	0.00108	0.0019	0.002	0.002	0.0013	0.00132	1.83E-02	2.44E-03	1.12E-07	6.69E-05	7.55E-04	1.87E-04	9.42E-03	8.98E-03	2.22E-02
4672	479863.09	3860377.25	0.00268	0.00149	0.00144	0.00211	0.003	0.002	0.0015	0.00149	1.87E-02	2.75E-03	1.50E-07	7.43E-05	8.74E-04	2.15E-04	1.03E-02	1.01E-02	2.27E-02
4673	480363.09	3860377.25	0.00272	0.00161	0.00156	0.00226	0.003	0.003	0.0016	0.00161	1.90E-02	2.97E-03	1.62E-07	7.95E-05	9.34E-04	2.38E-04	1.10E-02	1.09E-02	2.32E-02
4674	480863.09	3860377.25	0.00277	0.00172	0.0016	0.00238	0.003	0.003	0.0016	0.00172	1.93E-02	3.18E-03	1.67E-07	8.38E-05	9.78E-04	2.58E-04	1.15E-02	1.17E-02	2.37E-02
4675	481363.09	3860377.25	0.00287	0.00179	0.00171	0.00251	0.003	0.003	0.0017	0.00179	2.00E-02	3.31E-03	1.78E-07	8.83E-05	1.02E-03	2.74E-04	1.20E-02	1.22E-02	2.45E-02
4676	481863.09	3860377.25	0.00297	0.00189	0.00197	0.00265	0.003	0.003	0.0018	0.00189	2.07E-02	3.49E-03	2.05E-07	9.33E-05	1.07E-03	2.96E-04	1.26E-02	1.29E-02	2.54E-02
4677	482363.09	3860377.25	0.00311	0.00198	0.00203	0.00281	0.004	0.003	0.0019	0.00198	2.17E-02	3.66E-03	2.11E-07	9.89E-05	1.15E-03	3.22E-04	1.32E-02	1.35E-02	2.66E-02
4678	482863.09	3860377.25	0.00325	0.00205	0.002	0.00298	0.004	0.004	0.0019	0.00205	2.27E-02	3.79E-03	2.08E-07	1.05E-04	1.24E-03	3.48E-04	1.37E-02	1.39E-02	2.79E-02
4679	483363.09	3860377.25	0.00334	0.00217	0.00197	0.00315	0.004	0.004	0.002	0.00217	2.33E-02	4.01E-03	2.05E-07	1.11E-04	1.32E-03	3.83E-04	1.43E-02	1.48E-02	2.87E-02
4680	483863.09	3860377.25	0.00351	0.00228	0.00203	0.00335	0.004	0.004	0.0021	0.00228	2.45E-02	4.21E-03	2.11E-07	1.18E-04	1.34E-03	4.16E-04	1.50E-02	1.55E-02	3.01E-02
4681	484363.09	3860377.25	0.00361	0.00242	0.00238	0.00357	0.004	0.005	0.0022	0.00242	2.52E-02	4.47E-03	2.48E-07	1.26E-04	1.22E-03	4.67E-04	1.57E-02	1.65E-02	3.07E-02
4682	484863.09	3860377.25	0.00391	0.00254	0.00242	0.00389	0.004	0.006	0.0023	0.00254	2.73E-02	4.69E-03	2.52E-07	1.37E-04	1.12E-03	5.23E-04	1.66E-02	1.73E-02	3.30E-02
4683	485363.09	3860377.25	0.00435	0.00268	0.00235	0.00425	0.004	0.006	0.0025	0.00268	3.03E-02	4.95E-03	2.45E-07	1.50E-04	1.14E-03	5.88E-04	1.76E-02	1.82E-02	3.65E-02
4684	485863.09	3860377.25	0.00507	0.0029	0.00299	0.00467	0.004	0.007	0.0027	0.0029	3.53E-02	5.36E-03	3.11E-07	1.64E-04	1.23E-03	6.80E-04	1.89E-02	1.97E-02	4.20E-02
4685	486363.09	3860377.25	0.00608	0.00316	0.003	0.00521	0.003	0.009	0.0029	0.00316	4.24E-02	5.84E-03	3.12E-07	1.83E-04	1.09E-03	8.29E-04	2.05E-02	2.15E-02	4.94E-02
4686	486863.09	3860377.25	0.0079	0.00344	0.00304	0.00592	0.003	0.012	0.0032	0.00344	5.51E-02	6.35E-03	3.16E-07	2.08E-04	8.05E-04	1.11E-03	2.25E-02	2.34E-02	6.26E-02
4687	487363.09	3860377.25	0.01381	0.00379	0.00337	0.00684	0.002	0.025	0.0035	0.00379	9.63E-02	7.00E-03	3.51E-07	2.41E-04	7.80E-04	2.37E-03	2.47E-02	2.58E-02	1.06E-01
4688	487863.09	3860377.25	0.075	0.00426	0.00332	0.00829	0.002	0.08	0.004	0.00426	5.23E-01	7.87E-03	3.46E-07	2.92E-04	7.30E-04	7.55E-03	2.81E-02	2.90E-02	5.38E-01
4689	488363.09	3860377.25	0.09417	0.00479	0.00396	0.0112	0.002	0.18	0.0045	0.00479	6.57E-01	8.85E-03	4.12E-07	3.94E-04	5.80E-04	1.70E-02	3.21E-02	3.26E-02	6.83E-01
4690	488863.09	3860377.25	0.09814	0.0055	0.00496	0.02075	0.002	0.046	0.0053	0.0055	6.84E-01	1.02E-02	5.16E-07	7.30E-04	6.74E-04	4.36E-03	3.74E-02	3.74E-02	7.00E-01
4691	489363.09	3860377.25	0.04575	0.00647	0.00635	0.09839	0.004	0.028	0.0063	0.00647	3.19E-01	1.19E-02	6.61E-07	3.46E-03	1.26E-03	2.60E-03	4.44E-02	4.40E-02	3.39E-01
4692	489863.09	3860377.25	0.02348	0.00777	0.00539	0.03137	0.005	0.021	0.0076	0.00777	1.64E-01	1.44E-02	5.61E-07	1.10E-03	1.68E-03	2.02E-03	5.38E-02	5.28E-02	1.84E-01
4693	490363.09	3860377.25	0.01677	0.00997	0.00587	0.02372	0.004	0.019	0.0098	0.00997	1.17E-01	1.84E-02	6.11E-07	8.35E-04	1.34E-03	1.81E-03	6.94E-02	6.78E-02	1.41E-01
4694	490863.09	3860377.25	0.01417	0.01508	0.00564	0.02223	0.004	0.019	0.0149	0.01508	9.88E-02	2.79E-02	5.87E-07	7.82E-04	1.10E-03	1.80E-03	1.05E-01	1.03E-01	1.33E-01

4695	491363.09	3860377.25	0.0161	0.04555	0.00547	0.02245	0.004	0.021	0.0445	0.04555	1.12E-01	8.41E-02	5.69E-07	7.90E-04	1.12E-03	2.01E-03	3.15E-01	3.10E-01	2.06E-01
4696	491863.09	3860377.25	0.0212	0.07813	0.00595	0.02138	0.004	0.029	0.0806	0.07813	1.48E-01	1.44E-01	6.19E-07	7.52E-04	1.14E-03	2.74E-03	5.71E-01	5.31E-01	3.36E-01
4697	492363.09	3860377.25	0.01221	0.03142	0.00642	0.01993	0.004	0.072	0.0318	0.03142	8.51E-02	5.80E-02	6.68E-07	7.01E-04	1.27E-03	6.78E-03	2.25E-01	2.14E-01	1.64E-01
4698	492863.09	3860377.25	0.00984	0.02111	0.00625	0.01762	0.004	0.312	0.0211	0.02111	6.86E-02	3.90E-02	6.51E-07	6.20E-04	1.32E-03	2.94E-02	1.50E-01	1.44E-01	1.45E-01
4699	493363.09	3860377.25	0.0088	0.01526	0.00598	0.01509	0.004	0.083	0.0152	0.01526	6.14E-02	2.82E-02	6.23E-07	5.31E-04	1.27E-03	7.81E-03	1.08E-01	1.04E-01	1.03E-01
4700	493863.09	3860377.25	0.00789	0.0131	0.00573	0.01324	0.004	0.073	0.013	0.0131	5.50E-02	2.42E-02	5.97E-07	4.66E-04	1.15E-03	6.86E-03	9.21E-02	8.91E-02	9.07E-02
4701	494363.09	3860377.25	0.00741	0.01096	0.00529	0.0117	0.004	0.06	0.0108	0.01096	5.17E-02	2.02E-02	5.51E-07	4.12E-04	1.14E-03	5.62E-03	7.67E-02	7.45E-02	8.13E-02
4702	494863.09	3860377.25	0.00686	0.0101	0.00502	0.01062	0.004	0.034	0.0099	0.0101	4.78E-02	1.87E-02	5.23E-07	3.74E-04	1.20E-03	3.18E-03	7.04E-02	6.87E-02	7.30E-02
4703	495363.09	3860377.25	0.00656	0.00892	0.00463	0.0097	0.004	0.023	0.0088	0.00892	4.57E-02	1.65E-02	4.82E-07	3.41E-04	1.29E-03	2.18E-03	6.21E-02	6.07E-02	6.74E-02
4704	495863.09	3860377.25	0.00641	0.00756	0.00409	0.0086	0.004	0.017	0.0074	0.00756	4.47E-02	1.40E-02	4.26E-07	3.03E-04	1.36E-03	1.61E-03	5.26E-02	5.14E-02	6.31E-02
4705	496363.09	3860377.25	0.00619	0.00659	0.00358	0.00754	0.004	0.013	0.0065	0.00659	4.32E-02	1.22E-02	3.73E-07	2.65E-04	1.36E-03	1.24E-03	4.60E-02	4.48E-02	5.94E-02
4706	496863.09	3860377.25	0.00592	0.00596	0.00325	0.00676	0.004	0.011	0.0059	0.00596	4.13E-02	1.10E-02	3.38E-07	2.38E-04	1.32E-03	1.04E-03	4.17E-02	4.05E-02	5.61E-02
4707	497363.09	3860377.25	0.00557	0.00531	0.00289	0.00597	0.004	0.009	0.0053	0.00531	3.88E-02	9.81E-03	3.01E-07	2.10E-04	1.24E-03	8.68E-04	3.73E-02	3.61E-02	5.22E-02
4708	497863.09	3860377.25	0.0054	0.00564	0.00312	0.00646	0.004	0.009	0.0056	0.00564	3.76E-02	1.04E-02	3.25E-07	2.27E-04	1.36E-03	8.92E-04	3.95E-02	3.84E-02	5.17E-02
4709	498363.09	3860377.25	0.00506	0.00601	0.00325	0.00663	0.004	0.009	0.0059	0.00601	3.53E-02	1.11E-02	3.38E-07	2.33E-04	1.40E-03	8.76E-04	4.19E-02	4.09E-02	5.00E-02
4710	471363.09	3860877.25	0.0013	0.00096	0.0007	0.00097	0.001	0.001	0.001	0.00096	9.06E-03	1.77E-03	7.29E-08	3.41E-05	4.48E-04	1.05E-04	6.73E-03	6.53E-03	1.16E-02
4711	471863.09	3860877.25	0.00134	0.00098	0.00073	0.001	0.001	0.001	0.001	0.00098	9.34E-03	1.81E-03	7.60E-08	3.52E-05	4.67E-04	1.11E-04	6.87E-03	6.66E-03	1.20E-02
4712	472363.09	3860877.25	0.00139	0.001	0.00076	0.00104	0.002	0.001	0.001	0.001	9.69E-03	1.85E-03	7.91E-08	3.66E-05	4.83E-04	1.16E-04	7.01E-03	6.80E-03	1.24E-02
4713	472863.09	3860877.25	0.00144	0.00103	0.00079	0.00109	0.002	0.001	0.001	0.00103	1.00E-02	1.90E-03	8.22E-08	3.84E-05	5.04E-04	1.21E-04	7.16E-03	7.00E-03	1.28E-02
4714	473363.09	3860877.25	0.0015	0.00105	0.00081	0.00114	0.002	0.001	0.001	0.00105	1.05E-02	1.94E-03	8.43E-08	4.01E-05	5.20E-04	1.26E-04	7.30E-03	7.14E-03	1.32E-02
4715	473863.09	3860877.25	0.00156	0.00107	0.00081	0.00119	0.002	0.001	0.0011	0.00107	1.09E-02	1.98E-03	8.43E-08	4.19E-05	5.30E-04	1.30E-04	7.44E-03	7.28E-03	1.37E-02
4716	474363.09	3860877.25	0.00163	0.00109	0.0008	0.00123	0.002	0.001	0.0011	0.00109	1.14E-02	2.01E-03	8.33E-08	4.33E-05	5.33E-04	1.33E-04	7.58E-03	7.41E-03	1.43E-02
4717	474863.09	3860877.25	0.0017	0.0011	0.00078	0.00129	0.002	0.001	0.0011	0.0011	1.19E-02	2.03E-03	8.12E-08	4.54E-05	5.30E-04	1.38E-04	7.72E-03	7.48E-03	1.48E-02
4718	475363.09	3860877.25	0.00179	0.0011	0.00077	0.00134	0.002	0.001	0.0011	0.0011	1.25E-02	2.03E-03	8.02E-08	4.72E-05	5.17E-04	1.39E-04	7.72E-03	7.48E-03	1.55E-02
4719	475863.09	3860877.25	0.00187	0.00107	0.00078	0.00136	0.002	0.001	0.0011	0.00107	1.30E-02	1.98E-03	8.12E-08	4.79E-05	4.95E-04	1.36E-04	7.65E-03	7.28E-03	1.61E-02
4720	476363.09	3860877.25	0.00191	0.00101	0.00076	0.00135	0.002	0.001	0.001	0.00101	1.33E-02	1.87E-03	7.91E-08	4.75E-05	4.76E-04	1.31E-04	7.37E-03	6.87E-03	1.63E-02
4721	476863.09	3860877.25	0.00196	0.001	0.00072	0.00136	0.002	0.001	0.001	0.001	1.37E-02	1.85E-03	7.50E-08	4.79E-05	4.79E-04	1.31E-04	7.30E-03	6.80E-03	1.67E-02
4722	477363.09	3860877.25	0.00202	0.00101	0.0007	0.0014	0.002	0.001	0.001	0.00101	1.41E-02	1.87E-03	7.29E-08	4.93E-05	5.04E-04	1.34E-04	7.37E-03	6.87E-03	1.71E-02
4723	477863.09	3860877.25	0.00202	0.00096	0.00065	0.00135	0.002	0.001	0.001	0.00096	1.41E-02	1.77E-03	6.77E-08	4.75E-05	5.08E-04	1.29E-04	7.09E-03	6.53E-03	1.71E-02
4724	478363.09	3860877.25	0.00169	0.00084	0.00062	0.00114	0.001	0.001	0.0009	0.00084	1.18E-02	1.55E-03	6.45E-08	4.01E-05	4.39E-04	1.16E-04	6.09E-03	5.71E-03	1.43E-02
4725	478863.09	3860877.25	0.00226	0.00108	0.00083	0.00153	0.002	0.002	0.0011	0.00108	1.58E-02	1.99E-03	8.64E-08	5.39E-05	6.45E-04	1.50E-04	7.86E-03	7.34E-03	1.91E-02
4726	479363.09	3860877.25	0.00243	0.00127	0.00118	0.00181	0.002	0.002	0.0013	0.00127	1.69E-02	2.35E-03	1.23E-07	6.37E-05	7.74E-04	1.81E-04	9.00E-03	8.64E-03	2.07E-02
4727	479863.09	3860877.25	0.00245	0.00142	0.00144	0.00201	0.003	0.002	0.0014	0.00142	1.71E-02	2.62E-03	1.50E-07	7.07E-05	8.08E-04	2.08E-04	9.78E-03	9.66E-03	2.09E-02
4728	480363.09	3860877.25	0.00245	0.00153	0.00155	0.00216	0.003	0.002	0.0015	0.00153	1.71E-02	2.83E-03	1.61E-07	7.60E-05	8.43E-04	2.30E-04	1.04E-02	1.04E-02	2.11E-02
4729	480863.09	3860877.25	0.0025	0.00161	0.00153	0.00226	0.003	0.003	0.0015	0.00161	1.74E-02	2.97E-03	1.59E-07	7.95E-05	8.68E-04	2.47E-04	1.08E-02	1.09E-02	2.15E-02
4730	481363.09	3860877.25	0.00256	0.00168	0.00172	0.00236	0.003	0.003	0.0016	0.00168	1.78E-02	3.10E-03	1.79E-07	8.31E-05	9.15E-04	2.63E-04	1.13E-02	1.14E-02	2.21E-02
4731	481863.09	3860877.25	0.00266	0.00176	0.00168	0.00245	0.003	0.003	0.0017	0.00176	1.85E-02	3.25E-03	1.75E-07	8.62E-05	9.84E-04	2.82E-04	1.18E-02	1.20E-02	2.29E-02
4732	482363.09	3860877.25	0.00275	0.00184	0.00175	0.00259	0.003	0.003	0.0017	0.00184	1.92E-02	3.40E-03	1.82E-07	9.12E-05	1.05E-03	3.03E-04	1.23E-02	1.25E-02	2.38E-02
4733	482863.09	3860877.25	0.00286	0.0019	0.00178	0.00277	0.004	0.003	0.0018	0.0019	1.99E-02	3.51E-03	1.85E-07	9.75E-05	1.10E-03	3.23E-04	1.27E-02	1.29E-02	2.47E-02
4734	483363.09	3860877.25	0.00296	0.00199	0.0017	0.00297	0.004	0.004	0.0019	0.00199	2.06E-02	3.68E-03	1.77E-07	1.05E-04	1.10E-03	3.48E-04	1.32E-02	1.35E-02	2.56E-02
4735	483863.09	3860877.25	0.00307	0.00209	0.00192	0.00319	0.003	0.004	0.002	0.00209	2.14E-02	3.86E-03	2.00E-07	1.12E-04	1.03E-03	3.76E-04	1.39E-02	1.42E-02	2.65E-02
4736	484363.09	3860877.25	0.00315	0.0022	0.00209	0.0034	0.003	0.004	0.0021	0.0022	2.20E-02	4.06E-03	2.18E-07	1.20E-04	9.18E-04	4.15E-04	1.46E-02	1.50E-02	2.71E-02
4737	484863.09	3860877.25	0.00328	0.0023	0.00193	0.0036	0.003	0.005	0.0022	0.0023	2.29E-02	4.25E-03	2.01E-07	1.27E-04	8.84E-04	4.51E-04	1.52E-02	1.56E-02	2.82E-02
4738	485363.09	3860877.25	0.00352	0.00241	0.00219	0.00391	0.003	0.005	0.0023	0.00241	2.45E-02	4.45E-03	2.28E-07	1.38E-04	9.90E-04	4.95E-04	1.61E-02	1.64E-02	3.03E-02
4739	485863.09	3860877.25	0.00393	0.00256	0.00259	0.00431	0.003	0.006	0.0024	0.00256	2.74E-02	4.73E-03	2.70E-07	1.52E-04	9.96E-04	5.59E-04	1.71E-02	1.74E-02	3.36E-02
4740	486363.09	3860877.25	0.00446	0.00275	0.00248	0.00474	0.002	0.007	0.0026	0.00275	3.11E-02	5.08E-03	2.58E-07	1.67E-04	7.52E-04	6.45E-04	1.83E-02	1.87E-02	3.73E-02
4741	486863.09	3860877.25	0.00522	0.00296	0.0025	0.00526	0.002	0.008	0.0028	0.00296	3.64E-02	5.47E-03	2.60E-07	1.85E-04	6.14E-04	7.77E-04	1.97E-02	2.01E-02	4.30E-02
4742	487363.09	3860877.25	0.00636	0.00319	0.00249	0.00595	0.002	0.011	0.003	0.00319	4.43E-02	5.89E-03	2.59E-07	2.09E-04	6.58E-04	1.05E-03	2.12E-02	2.17E-02	5.16E-02
4743	487863.09	3860877.25	0.00781	0.00346	0.00256	0.00718	0.002	0.018	0.0033	0.00346	5.44E-02	6.39E-03	2.67E-07	2.53E-04	5.80E-04	1.65E-03	2.30E-02	2.35E-02	6.28E-02
4744	488363.09	3860877.25	0.01005	0.00382	0.00294	0.00958	0.001	0.021	0.0036	0.00382	7.01E-02	7.06E-03	3.06E-07	3.37E-04	4.61E-04	2.00E-03	2.56E-02	2.60E-02	7.95E-02
4745	488863.09	3860877.25	0.01063	0.00415	0.00394	0.01883	0.002	0.018	0.004	0.00415	7.41E-02	7.66E-03	4.10E-07	6.63E-04	4.86E-04	1.74E-03	2.83E-02	2.82E-02	8.47E-02
4746	489363.09	3860877.25	0.01072	0.00464	0.00338	0.08873	0.002	0.015	0.0045	0.00464	7.47E-02	8.57E-03	3.52E-07	3.12E-03	7.05E-04	1.42E-03	3.22E-02	3.16E-02	8.92E-02
4747	489863.09	3860877.25	0.0097	0.00534	0.00311	0.02762	0.004	0.013	0.0052	0.00534	6.76E-02	9.86E-03	3.24E-07	9.72E-04	1.22E-03	1.20E-03	3.71E-02	3.63E-02	8.17E-02
4748	490363.09	3860877.25	0.00863	0.00644	0.00313	0.01875	0.004	0.012	0.0063	0.00644	6.02E-02	1.19E-02	3.26E-07	6.60E-04	1.27E-03	1.11E-03	4.47E-02	4.38E-02	7.60E-02
4749	490863.09	3860877.25	0.00787	0.00825	0.00325	0.01523	0.003	0.012	0.0081	0.00825	5.49E-02	1.52E-02	3.38E-07	5.36E-04	9.87E-04	1.08E-03	5.76E-02	5.61E-02	7.42E-02
4750	491363.09	3860877.25	0.00718	0.01188	0.00321	0.01333	0.003	0.012	0.0117	0.01188	5.01E-02	2.19E-02	3.34E-07	4.69E-04	8.40E-04	1.09E-03	8.32E-02	8.08E-02	7.68E-02
4751	491863.09	3860877.25	0.00682	0.02587	0.00314	0.01193	0.003	0.012	0.0255	0.02587	4.75E-02	4.78E-02	3.27E-07	4.20E-04	8.87E-04	1.12E-03	1.81E-01	1.76E-01	1.03E-01
4752	492363.09	3860877.25	0.00636	0.13855	0.0032	0.01081	0.003	0.012	0.1397	0.13855	4.43E-02	2.56E-01	3.33E-07	3.80E-04	8.65E-04	1.16E-03	9.90E-01	9.42E-01	3.51E-01

4753	492863.09	3860877.25	0.00603	0.04075	0.00335	0.00999	0.003	0.013	0.0409	0.04075	4.20E-02	7.53E-02	3.49E-07	3.52E-04	9.15E-04	1.22E-03	2.90E-01	2.77E-01	1.33E-01
4754	493363.09	3860877.25	0.00586	0.0257	0.00363	0.00961	0.003	0.014	0.0258	0.0257	4.09E-02	4.75E-02	3.78E-07	3.38E-04	1.02E-03	1.28E-03	1.83E-01	1.75E-01	9.89E-02
4755	493863.09	3860877.25	0.00559	0.0201	0.00365	0.00933	0.003	0.014	0.0201	0.0201	3.90E-02	3.71E-02	3.80E-07	3.28E-04	1.03E-03	1.30E-03	1.42E-01	1.37E-01	8.44E-02
4756	494363.09	3860877.25	0.00534	0.01692	0.0036	0.00887	0.003	0.013	0.0169	0.01692	3.72E-02	3.12E-02	3.75E-07	3.12E-04	9.49E-04	1.23E-03	1.19E-01	1.15E-01	7.54E-02
4757	494863.09	3860877.25	0.00517	0.0145	0.00359	0.00839	0.003	0.012	0.0144	0.0145	3.60E-02	2.68E-02	3.74E-07	2.95E-04	8.71E-04	1.17E-03	1.02E-01	9.86E-02	6.87E-02
4758	495363.09	3860877.25	0.00501	0.01267	0.00356	0.00791	0.003	0.012	0.0126	0.01267	3.49E-02	2.34E-02	3.71E-07	2.78E-04	8.59E-04	1.10E-03	8.91E-02	8.62E-02	6.35E-02
4759	495863.09	3860877.25	0.00484	0.01149	0.00349	0.00745	0.003	0.011	0.0114	0.01149	3.37E-02	2.12E-02	3.63E-07	2.62E-04	8.99E-04	1.01E-03	8.06E-02	7.81E-02	5.96E-02
4760	496363.09	3860877.25	0.0048	0.00983	0.00339	0.00706	0.003	0.01	0.0097	0.00983	3.35E-02	1.82E-02	3.53E-07	2.48E-04	9.84E-04	9.42E-04	6.89E-02	6.68E-02	5.58E-02
4761	496863.09	3860877.25	0.00483	0.00801	0.00311	0.00642	0.003	0.009	0.0079	0.00801	3.37E-02	1.48E-02	3.24E-07	2.26E-04	1.06E-03	8.35E-04	5.61E-02	5.45E-02	5.22E-02
4762	497363.09	3860877.25	0.00467	0.00752	0.00302	0.00613	0.003	0.008	0.0074	0.00752	3.26E-02	1.39E-02	3.14E-07	2.16E-04	1.09E-03	7.75E-04	5.26E-02	5.11E-02	5.00E-02
4763	497863.09	3860877.25	0.00455	0.00688	0.00285	0.00578	0.003	0.008	0.0068	0.00688	3.17E-02	1.27E-02	2.97E-07	2.03E-04	1.09E-03	7.17E-04	4.83E-02	4.68E-02	4.79E-02
4764	498363.09	3860877.25	0.00433	0.00695	0.00287	0.00576	0.004	0.007	0.0069	0.00695	3.02E-02	1.28E-02	2.99E-07	2.03E-04	1.11E-03	6.99E-04	4.87E-02	4.73E-02	4.65E-02
4765	471363.09	3861377.25	0.00127	0.00094	0.0007	0.00098	0.001	0.001	0.0009	0.00094	8.85E-03	1.74E-03	7.29E-08	3.45E-05	4.42E-04	1.08E-04	6.59E-03	6.39E-03	1.14E-02
4766	471863.09	3861377.25	0.00131	0.00096	0.00072	0.00103	0.001	0.001	0.001	0.00096	9.13E-03	1.77E-03	7.50E-08	3.63E-05	4.54E-04	1.12E-04	6.73E-03	6.53E-03	1.17E-02
4767	472363.09	3861377.25	0.00136	0.00098	0.00073	0.00107	0.001	0.001	0.001	0.00098	9.48E-03	1.81E-03	7.60E-08	3.77E-05	4.61E-04	1.16E-04	6.87E-03	6.66E-03	1.21E-02
4768	472863.09	3861377.25	0.0014	0.00101	0.00074	0.00112	0.002	0.001	0.001	0.00101	9.76E-03	1.87E-03	7.70E-08	3.94E-05	4.70E-04	1.20E-04	7.01E-03	6.87E-03	1.24E-02
4769	473363.09	3861377.25	0.00146	0.00103	0.00074	0.00116	0.002	0.001	0.001	0.00103	1.02E-02	1.90E-03	7.70E-08	4.08E-05	4.70E-04	1.25E-04	7.16E-03	7.00E-03	1.29E-02
4770	473863.09	3861377.25	0.00152	0.00104	0.00074	0.00121	0.001	0.001	0.001	0.00104	1.06E-02	1.92E-03	7.70E-08	4.26E-05	4.54E-04	1.29E-04	7.23E-03	7.07E-03	1.33E-02
4771	474363.09	3861377.25	0.00157	0.00107	0.00076	0.00127	0.001	0.001	0.001	0.00107	1.09E-02	1.98E-03	7.91E-08	4.47E-05	4.61E-04	1.34E-04	7.37E-03	7.28E-03	1.37E-02
4772	474863.09	3861377.25	0.00163	0.00108	0.00079	0.00132	0.001	0.001	0.0011	0.00108	1.14E-02	1.99E-03	8.22E-08	4.65E-05	4.45E-04	1.38E-04	7.51E-03	7.34E-03	1.42E-02
4773	475363.09	3861377.25	0.00168	0.00111	0.00086	0.00137	0.001	0.002	0.0011	0.00111	1.17E-02	2.05E-03	8.95E-08	4.82E-05	4.57E-04	1.44E-04	7.65E-03	7.55E-03	1.45E-02
4774	475863.09	3861377.25	0.00176	0.00112	0.00088	0.0014	0.002	0.002	0.0011	0.00112	1.23E-02	2.07E-03	9.16E-08	4.93E-05	4.73E-04	1.46E-04	7.72E-03	7.62E-03	1.51E-02
4775	476363.09	3861377.25	0.00184	0.00111	0.00086	0.00142	0.002	0.002	0.0011	0.00111	1.28E-02	2.05E-03	8.95E-08	5.00E-05	5.04E-04	1.46E-04	7.79E-03	7.55E-03	1.58E-02
4776	476863.09	3861377.25	0.00191	0.0011	0.00084	0.00144	0.002	0.002	0.0011	0.0011	1.33E-02	2.03E-03	8.74E-08	5.07E-05	5.51E-04	1.46E-04	7.79E-03	7.48E-03	1.64E-02
4777	477363.09	3861377.25	0.00197	0.0011	0.00082	0.00146	0.002	0.002	0.0011	0.0011	1.37E-02	2.03E-03	8.54E-08	5.14E-05	6.05E-04	1.48E-04	7.79E-03	7.48E-03	1.69E-02
4778	477863.09	3861377.25	0.00198	0.00102	0.00078	0.00138	0.002	0.001	0.001	0.00102	1.38E-02	1.88E-03	8.12E-08	4.86E-05	5.92E-04	1.36E-04	7.37E-03	6.94E-03	1.69E-02
4779	478363.09	3861377.25	0.00176	0.00085	0.00066	0.00116	0.001	0.001	0.0009	0.00085	1.23E-02	1.57E-03	6.87E-08	4.08E-05	4.54E-04	1.17E-04	6.24E-03	5.78E-03	1.49E-02
4780	478863.09	3861377.25	0.00195	0.00091	0.00072	0.0013	0.002	0.001	0.001	0.00091	1.36E-02	1.68E-03	7.50E-08	4.58E-05	5.01E-04	1.29E-04	6.73E-03	6.19E-03	1.65E-02
4781	479363.09	3861377.25	0.00223	0.00118	0.00106	0.00168	0.002	0.002	0.0012	0.00118	1.55E-02	2.18E-03	1.10E-07	5.91E-05	6.39E-04	1.71E-04	8.43E-03	8.02E-03	1.90E-02
4782	479863.09	3861377.25	0.00223	0.00133	0.00126	0.00185	0.002	0.002	0.0013	0.00133	1.55E-02	2.46E-03	1.31E-07	6.51E-05	6.89E-04	1.99E-04	9.28E-03	9.04E-03	1.92E-02
4783	480363.09	3861377.25	0.00222	0.00145	0.00131	0.00197	0.002	0.002	0.0014	0.00145	1.55E-02	2.68E-03	1.36E-07	6.93E-05	7.58E-04	2.24E-04	9.92E-03	9.86E-03	1.93E-02
4784	480863.09	3861377.25	0.00226	0.00152	0.00136	0.00207	0.003	0.003	0.0015	0.00152	1.58E-02	2.81E-03	1.42E-07	7.29E-05	8.05E-04	2.38E-04	1.03E-02	1.03E-02	1.97E-02
4785	481363.09	3861377.25	0.0023	0.00158	0.00148	0.00219	0.003	0.003	0.0015	0.00158	1.60E-02	2.92E-03	1.54E-07	7.71E-05	8.59E-04	2.51E-04	1.07E-02	1.07E-02	2.01E-02
4786	481863.09	3861377.25	0.00237	0.00165	0.00144	0.00232	0.003	0.003	0.0016	0.00165	1.65E-02	3.05E-03	1.50E-07	8.17E-05	9.02E-04	2.66E-04	1.11E-02	1.12E-02	2.07E-02
4787	482363.09	3861377.25	0.00245	0.00172	0.00151	0.00248	0.003	0.003	0.0016	0.00172	1.71E-02	3.18E-03	1.57E-07	8.73E-05	9.27E-04	2.86E-04	1.15E-02	1.17E-02	2.13E-02
4788	482863.09	3861377.25	0.00251	0.00177	0.00161	0.00265	0.003	0.003	0.0017	0.00177	1.75E-02	3.27E-03	1.68E-07	9.33E-05	9.15E-04	3.05E-04	1.18E-02	1.20E-02	2.19E-02
4789	483363.09	3861377.25	0.00258	0.00184	0.00165	0.00279	0.003	0.003	0.0017	0.00184	1.80E-02	3.40E-03	1.72E-07	9.82E-05	8.55E-04	3.21E-04	1.23E-02	1.25E-02	2.25E-02
4790	483863.09	3861377.25	0.00264	0.00191	0.00182	0.00294	0.002	0.004	0.0018	0.00191	1.84E-02	3.53E-03	1.89E-07	1.03E-04	7.61E-04	3.40E-04	1.28E-02	1.30E-02	2.30E-02
4791	484363.09	3861377.25	0.00272	0.00199	0.00182	0.00312	0.002	0.004	0.0019	0.00199	1.90E-02	3.68E-03	1.89E-07	1.10E-04	7.36E-04	3.65E-04	1.34E-02	1.35E-02	2.37E-02
4792	484863.09	3861377.25	0.00273	0.00207	0.00192	0.00333	0.003	0.004	0.002	0.00207	1.90E-02	3.82E-03	2.00E-07	1.17E-04	8.05E-04	3.91E-04	1.40E-02	1.41E-02	2.41E-02
4793	485363.09	3861377.25	0.00277	0.00214	0.00205	0.00358	0.003	0.004	0.002	0.00214	1.93E-02	3.95E-03	2.13E-07	1.26E-04	8.52E-04	4.15E-04	1.45E-02	1.46E-02	2.46E-02
4794	485863.09	3861377.25	0.00291	0.00224	0.00195	0.00387	0.002	0.005	0.0022	0.00224	2.03E-02	4.14E-03	2.03E-07	1.36E-04	7.36E-04	4.47E-04	1.52E-02	1.52E-02	2.57E-02
4795	486363.09	3861377.25	0.00311	0.00238	0.00184	0.00419	0.002	0.005	0.0023	0.00238	2.17E-02	4.40E-03	1.92E-07	1.47E-04	5.39E-04	4.83E-04	1.62E-02	1.62E-02	2.72E-02
4796	486863.09	3861377.25	0.00337	0.00256	0.00204	0.0046	0.002	0.006	0.0024	0.00256	2.35E-02	4.73E-03	2.12E-07	1.62E-04	5.04E-04	5.30E-04	1.72E-02	1.74E-02	2.92E-02
4797	487363.09	3861377.25	0.00349	0.00273	0.00226	0.00523	0.002	0.006	0.0026	0.00273	2.43E-02	5.04E-03	2.35E-07	1.84E-04	5.83E-04	5.74E-04	1.84E-02	1.86E-02	3.05E-02
4798	487863.09	3861377.25	0.0034	0.00293	0.00208	0.00635	0.002	0.006	0.0028	0.00293	2.37E-02	5.41E-03	2.17E-07	2.23E-04	4.83E-04	6.10E-04	1.97E-02	1.99E-02	3.02E-02
4799	488363.09	3861377.25	0.00362	0.00316	0.00232	0.00862	0.001	0.007	0.003	0.00316	2.52E-02	5.84E-03	2.42E-07	3.03E-04	3.60E-04	6.45E-04	2.13E-02	2.15E-02	3.22E-02
4800	488863.09	3861377.25	0.00398	0.00343	0.00268	0.01784	0.001	0.007	0.0033	0.00343	2.77E-02	6.33E-03	2.79E-07	6.28E-04	3.92E-04	6.57E-04	2.32E-02	2.33E-02	3.57E-02
4801	489363.09	3861377.25	0.00433	0.00371	0.00224	0.09236	0.001	0.007	0.0036	0.00371	3.02E-02	6.85E-03	2.33E-07	3.25E-03	4.14E-04	6.59E-04	2.56E-02	2.52E-02	4.17E-02
4802	489863.09	3861377.25	0.00449	0.0041	0.00222	0.02596	0.003	0.007	0.0041	0.0041	3.13E-02	7.57E-03	2.31E-07	9.14E-04	8.02E-04	6.66E-04	2.87E-02	2.79E-02	4.21E-02
4803	490363.09	3861377.25	0.00439	0.00468	0.00198	0.01681	0.003	0.007	0.0046	0.00468	3.06E-02	8.64E-03	2.06E-07	5.92E-04	1.07E-03	6.72E-04	3.28E-02	3.18E-02	4.26E-02
4804	490863.09	3861377.25	0.00431	0.00554	0.00243	0.01319	0.003	0.007	0.0054	0.00554	3.00E-02	1.02E-02	2.53E-07	4.64E-04	9.84E-04	6.73E-04	3.85E-02	3.77E-02	4.33E-02
4805	491363.09	3861377.25	0.00427	0.00688	0.00225	0.01101	0.002	0.007	0.0068	0.00688	2.98E-02	1.27E-02	2.34E-07	3.88E-04	7.58E-04	6.80E-04	4.82E-02	4.68E-02	4.57E-02
4806	491863.09	3861377.25	0.00427	0.00948	0.00222	0.0098	0.002	0.007	0.0095	0.00948	2.98E-02	1.75E-02	2.31E-07	3.45E-04	6.64E-04	6.97E-04	6.70E-02	6.45E-02	5.15E-02
4807	492363.09	3861377.25	0.00424	0.01668	0.00215	0.00894	0.002	0.007	0.0166	0.01668	2.96E-02	3.08E-02	2.24E-07	3.15E-04	7.14E-04	6.99E-04	1.18E-01	1.13E-01	6.62E-02
4808	492863.09	3861377.25	0.00413	0.05798	0.00225	0.0081	0.002	0.007	0.0575	0.05798	2.88E-02	1.07E-01	2.34E-07	2.85E-04	7.05E-04	6.82E-04	4.08E-01	3.94E-01	1.51E-01
4809	493363.09	3861377.25	0.00404	0.26003	0.0023	0.00765	0.002	0.007	0.2458	0.26003	2.82E-02	4.80E-01	2.39E-07	2.69E-04	7.14E-04	6.81E-04	1.74E+00	1.77E+00	4.84E-01
4810	493863.09	3861377.25	0.00391	0.07752	0.00233	0.00706	0.002	0.007	0.0764	0.07752	2.73E-02	1.43E-01	2.43E-07	2.48E-04	7.77E-04	6.61E-04	5.41E-01	5.27E-01	1.86E-01

4811	494363.09	3861377.25	0.00383	0.04481	0.00241	0.00664	0.003	0.007	0.0446	0.04481	2.67E-02	8.28E-02	2.51E-07	2.34E-04	8.27E-04	6.48E-04	3.16E-01	3.05E-01	1.23E-01
4812	494863.09	3861377.25	0.00377	0.03147	0.00247	0.00646	0.003	0.007	0.0314	0.03147	2.63E-02	5.81E-02	2.57E-07	2.27E-04	8.12E-04	6.43E-04	2.23E-01	2.14E-01	9.48E-02
4813	495363.09	3861377.25	0.0037	0.0246	0.00247	0.0062	0.002	0.007	0.0246	0.0246	2.58E-02	4.54E-02	2.57E-07	2.18E-04	7.43E-04	6.34E-04	1.74E-01	1.67E-01	7.98E-02
4814	495863.09	3861377.25	0.00362	0.02051	0.00243	0.00588	0.002	0.007	0.0205	0.02051	2.52E-02	3.79E-02	2.53E-07	2.07E-04	6.74E-04	6.17E-04	1.45E-01	1.39E-01	7.04E-02
4815	496363.09	3861377.25	0.00361	0.017	0.00247	0.00568	0.002	0.006	0.017	0.017	2.52E-02	3.14E-02	2.57E-07	2.00E-04	6.67E-04	6.09E-04	1.20E-01	1.16E-01	6.28E-02
4816	496863.09	3861377.25	0.00367	0.01331	0.00255	0.00555	0.002	0.006	0.0133	0.01331	2.56E-02	2.46E-02	2.65E-07	1.95E-04	7.14E-04	6.07E-04	9.41E-02	9.05E-02	5.53E-02
4817	497363.09	3861377.25	0.00364	0.01167	0.00254	0.00535	0.002	0.006	0.0116	0.01167	2.54E-02	2.16E-02	2.64E-07	1.88E-04	7.74E-04	5.90E-04	8.23E-02	7.94E-02	5.15E-02
4818	497863.09	3861377.25	0.0036	0.01038	0.00252	0.00515	0.003	0.006	0.0103	0.01038	2.51E-02	1.92E-02	2.62E-07	1.81E-04	8.27E-04	5.71E-04	7.31E-02	7.06E-02	4.84E-02
4819	498363.09	3861377.25	0.00356	0.00929	0.00248	0.00498	0.003	0.006	0.0092	0.00929	2.48E-02	1.72E-02	2.58E-07	1.75E-04	8.65E-04	5.51E-04	6.54E-02	6.32E-02	4.58E-02
4820	471363.09	3861877.25	0.00124	0.00092	0.00067	0.00101	0.001	0.001	0.0009	0.00092	8.64E-03	1.70E-03	6.98E-08	3.55E-05	4.10E-04	1.08E-04	6.45E-03	6.26E-03	1.11E-02
4821	471863.09	3861877.25	0.00128	0.00094	0.00068	0.00104	0.001	0.001	0.0009	0.00094	8.92E-03	1.74E-03	7.08E-08	3.66E-05	4.07E-04	1.12E-04	6.52E-03	6.39E-03	1.13E-02
4822	472363.09	3861877.25	0.00132	0.00096	0.00069	0.00108	0.001	0.001	0.0009	0.00096	9.20E-03	1.77E-03	7.18E-08	3.80E-05	4.04E-04	1.16E-04	6.66E-03	6.53E-03	1.17E-02
4823	472863.09	3861877.25	0.00136	0.00098	0.0007	0.00112	0.001	0.001	0.001	0.00098	9.48E-03	1.81E-03	7.29E-08	3.94E-05	4.01E-04	1.20E-04	6.80E-03	6.66E-03	1.20E-02
4824	473363.09	3861877.25	0.0014	0.001	0.00071	0.00115	0.001	0.001	0.001	0.001	9.76E-03	1.85E-03	7.39E-08	4.05E-05	3.98E-04	1.24E-04	6.94E-03	6.80E-03	1.23E-02
4825	473863.09	3861877.25	0.00145	0.00101	0.00073	0.00119	0.001	0.001	0.001	0.00101	1.01E-02	1.87E-03	7.60E-08	4.19E-05	4.04E-04	1.29E-04	7.01E-03	6.87E-03	1.27E-02
4826	474363.09	3861877.25	0.0015	0.00103	0.00078	0.00123	0.001	0.001	0.001	0.00103	1.05E-02	1.90E-03	8.12E-08	4.33E-05	4.20E-04	1.33E-04	7.16E-03	7.00E-03	1.31E-02
4827	474863.09	3861877.25	0.00154	0.00105	0.00083	0.00127	0.001	0.001	0.001	0.00105	1.07E-02	1.94E-03	8.64E-08	4.47E-05	4.42E-04	1.36E-04	7.30E-03	7.14E-03	1.35E-02
4828	475363.09	3861877.25	0.00159	0.00107	0.00088	0.00131	0.002	0.001	0.0011	0.00107	1.11E-02	1.98E-03	9.16E-08	4.61E-05	4.76E-04	1.40E-04	7.44E-03	7.28E-03	1.39E-02
4829	475863.09	3861877.25	0.00163	0.0011	0.00091	0.00135	0.002	0.002	0.0011	0.0011	1.14E-02	2.03E-03	9.47E-08	4.75E-05	5.14E-04	1.44E-04	7.58E-03	7.48E-03	1.42E-02
4830	476363.09	3861877.25	0.00168	0.00112	0.00093	0.00139	0.002	0.002	0.0011	0.00112	1.17E-02	2.07E-03	9.68E-08	4.89E-05	5.51E-04	1.49E-04	7.72E-03	7.62E-03	1.46E-02
4831	476863.09	3861877.25	0.00174	0.00113	0.00093	0.00143	0.002	0.002	0.0011	0.00113	1.21E-02	2.09E-03	9.68E-08	5.03E-05	5.89E-04	1.50E-04	7.79E-03	7.68E-03	1.51E-02
4832	477363.09	3861877.25	0.0018	0.00112	0.00094	0.00145	0.002	0.002	0.0011	0.00112	1.25E-02	2.07E-03	9.79E-08	5.10E-05	6.02E-04	1.51E-04	7.79E-03	7.62E-03	1.56E-02
4833	477863.09	3861877.25	0.00184	0.001	0.00077	0.00133	0.002	0.001	0.001	0.001	1.28E-02	1.85E-03	8.02E-08	4.68E-05	5.39E-04	1.35E-04	7.23E-03	6.80E-03	1.58E-02
4834	478363.09	3861877.25	0.00152	0.00079	0.00057	0.00105	0.001	0.001	0.0008	0.00079	1.06E-02	1.46E-03	5.93E-08	3.70E-05	3.92E-04	1.07E-04	5.74E-03	5.37E-03	1.30E-02
4835	478863.09	3861877.25	0.00187	0.00093	0.00075	0.00128	0.002	0.001	0.001	0.00093	1.30E-02	1.72E-03	7.81E-08	4.51E-05	4.73E-04	1.31E-04	6.80E-03	6.32E-03	1.59E-02
4836	479363.09	3861877.25	0.00185	0.0009	0.0007	0.00127	0.002	0.001	0.0009	0.0009	1.29E-02	1.66E-03	7.29E-08	4.47E-05	4.89E-04	1.29E-04	6.66E-03	6.12E-03	1.58E-02
4837	479863.09	3861877.25	0.00204	0.00127	0.00105	0.00173	0.002	0.002	0.0013	0.00127	1.42E-02	2.35E-03	1.09E-07	6.09E-05	6.74E-04	1.87E-04	8.86E-03	8.64E-03	1.77E-02
4838	480363.09	3861877.25	0.00201	0.00139	0.00112	0.00188	0.002	0.002	0.0013	0.00139	1.40E-02	2.57E-03	1.17E-07	6.62E-05	7.27E-04	2.11E-04	9.49E-03	9.45E-03	1.76E-02
4839	480863.09	3861877.25	0.00203	0.00144	0.00129	0.00199	0.002	0.002	0.0014	0.00144	1.42E-02	2.66E-03	1.34E-07	7.00E-05	7.58E-04	2.24E-04	9.78E-03	9.79E-03	1.79E-02
4840	481363.09	3861877.25	0.00205	0.0015	0.00132	0.0021	0.003	0.003	0.0014	0.0015	1.43E-02	2.77E-03	1.37E-07	7.39E-05	7.83E-04	2.36E-04	1.01E-02	1.02E-02	1.81E-02
4841	481863.09	3861877.25	0.00209	0.00156	0.00132	0.0022	0.003	0.003	0.0015	0.00156	1.46E-02	2.88E-03	1.37E-07	7.74E-05	7.93E-04	2.52E-04	1.05E-02	1.06E-02	1.85E-02
4842	482363.09	3861877.25	0.00214	0.00161	0.00148	0.00231	0.002	0.003	0.0015	0.00161	1.49E-02	2.97E-03	1.54E-07	8.13E-05	7.77E-04	2.64E-04	1.08E-02	1.09E-02	1.89E-02
4843	482863.09	3861877.25	0.00219	0.00165	0.00163	0.00242	0.002	0.003	0.0016	0.00165	1.53E-02	3.05E-03	1.70E-07	8.52E-05	7.24E-04	2.74E-04	1.11E-02	1.12E-02	1.93E-02
4844	483363.09	3861877.25	0.00221	0.00171	0.00159	0.00254	0.002	0.003	0.0016	0.00171	1.54E-02	3.16E-03	1.66E-07	8.94E-05	6.42E-04	2.86E-04	1.15E-02	1.16E-02	1.95E-02
4845	483863.09	3861877.25	0.00221	0.00176	0.00167	0.0027	0.002	0.003	0.0017	0.00176	1.54E-02	3.25E-03	1.74E-07	9.50E-05	6.02E-04	2.99E-04	1.20E-02	1.20E-02	1.97E-02
4846	484363.09	3861877.25	0.0022	0.00183	0.00163	0.00287	0.002	0.003	0.0018	0.00183	1.53E-02	3.38E-03	1.70E-07	1.01E-04	6.55E-04	3.14E-04	1.24E-02	1.24E-02	1.97E-02
4847	484863.09	3861877.25	0.00224	0.00191	0.00176	0.00304	0.002	0.004	0.0018	0.00191	1.56E-02	3.53E-03	1.83E-07	1.07E-04	7.52E-04	3.32E-04	1.30E-02	1.30E-02	2.03E-02
4848	485363.09	3861877.25	0.00223	0.00197	0.00167	0.00323	0.002	0.004	0.0019	0.00197	1.55E-02	3.64E-03	1.74E-07	1.14E-04	7.08E-04	3.49E-04	1.34E-02	1.34E-02	2.04E-02
4849	485863.09	3861877.25	0.0022	0.00203	0.00152	0.00341	0.002	0.004	0.002	0.00203	1.53E-02	3.75E-03	1.58E-07	1.20E-04	5.36E-04	3.60E-04	1.39E-02	1.38E-02	2.02E-02
4850	486363.09	3861877.25	0.00227	0.00213	0.00155	0.00369	0.001	0.004	0.0021	0.00213	1.58E-02	3.93E-03	1.61E-07	1.30E-04	4.23E-04	3.78E-04	1.46E-02	1.45E-02	2.08E-02
4851	486863.09	3861877.25	0.00235	0.00226	0.00192	0.00408	0.001	0.004	0.0022	0.00226	1.64E-02	4.17E-03	2.00E-07	1.44E-04	4.29E-04	3.89E-04	1.54E-02	1.54E-02	2.16E-02
4852	487363.09	3861877.25	0.00232	0.00241	0.00187	0.00473	0.002	0.004	0.0023	0.00241	1.62E-02	4.45E-03	1.95E-07	1.66E-04	5.30E-04	4.05E-04	1.64E-02	1.64E-02	2.17E-02
4853	487863.09	3861877.25	0.00225	0.00255	0.00175	0.00575	0.001	0.004	0.0024	0.00255	1.57E-02	4.71E-03	1.82E-07	2.02E-04	4.10E-04	3.94E-04	1.73E-02	1.73E-02	2.14E-02
4854	488363.09	3861877.25	0.00229	0.00272	0.00203	0.00798	1E-03	0.004	0.0026	0.00272	1.60E-02	5.02E-03	2.11E-07	2.81E-04	3.01E-04	4.15E-04	1.84E-02	1.85E-02	2.19E-02
4855	488863.09	3861877.25	0.00262	0.00293	0.00184	0.01714	0.001	0.005	0.0028	0.00293	1.83E-02	5.41E-03	1.92E-07	6.03E-04	3.26E-04	4.47E-04	1.98E-02	1.99E-02	2.50E-02
4856	489363.09	3861877.25	0.00286	0.00314	0.00183	0.08904	1E-03	0.005	0.003	0.00314	1.99E-02	5.80E-03	1.91E-07	3.13E-03	3.07E-04	4.52E-04	2.15E-02	2.14E-02	2.97E-02
4857	489863.09	3861877.25	0.00299	0.00339	0.00171	0.0248	0.002	0.005	0.0033	0.00339	2.08E-02	6.26E-03	1.78E-07	8.73E-04	4.79E-04	4.58E-04	2.36E-02	2.31E-02	2.95E-02
4858	490363.09	3861877.25	0.0029	0.00372	0.00151	0.0156	0.003	0.005	0.0037	0.00372	2.02E-02	6.87E-03	1.57E-07	5.49E-04	8.18E-04	4.54E-04	2.63E-02	2.53E-02	2.99E-02
4859	490863.09	3861877.25	0.00279	0.00421	0.00173	0.01191	0.003	0.005	0.0042	0.00421	1.95E-02	7.78E-03	1.80E-07	4.19E-04	8.90E-04	4.62E-04	2.96E-02	2.86E-02	3.00E-02
4860	491363.09	3861877.25	0.00278	0.00489	0.00182	0.00996	0.003	0.005	0.0048	0.00489	1.94E-02	9.03E-03	1.89E-07	3.51E-04	7.83E-04	4.69E-04	3.40E-02	3.33E-02	3.08E-02
4861	491863.09	3861877.25	0.00283	0.00581	0.00175	0.00865	0.002	0.005	0.0058	0.00581	1.97E-02	1.07E-02	1.82E-07	3.04E-04	6.08E-04	4.72E-04	4.08E-02	3.95E-02	3.31E-02
4862	492363.09	3861877.25	0.0029	0.00719	0.00169	0.00778	0.002	0.005	0.0072	0.00719	2.02E-02	1.33E-02	1.76E-07	2.74E-04	5.42E-04	4.66E-04	5.09E-02	4.89E-02	3.68E-02
4863	492863.09	3861877.25	0.0029	0.00931	0.00163	0.00711	0.002	0.005	0.0093	0.00931	2.02E-02	1.72E-02	1.70E-07	2.50E-04	5.92E-04	4.65E-04	6.59E-02	6.33E-02	4.13E-02
4864	493363.09	3861877.25	0.00291	0.01257	0.00167	0.00641	0.002	0.005	0.0126	0.01257	2.03E-02	2.32E-02	1.74E-07	2.26E-04	5.89E-04	4.65E-04	8.92E-02	8.55E-02	4.85E-02
4865	493863.09	3861877.25	0.00291	0.01854	0.00177	0.00603	0.002	0.005	0.0187	0.01854	2.03E-02	3.42E-02	1.84E-07	2.12E-04	5.77E-04	4.50E-04	1.33E-01	1.26E-01	6.23E-02
4866	494363.09	3861877.25	0.00288	0.03327	0.00177	0.0057	0.002	0.005	0.0339	0.03327	2.01E-02	6.14E-02	1.84E-07	2.01E-04	6.17E-04	4.46E-04	2.40E-01	2.26E-01	9.70E-02
4867	494863.09	3861877.25	0.00283	0.13589	0.00177	0.00528	0.002	0.005	0.1423	0.13589	1.97E-02	2.51E-01	1.84E-07	1.86E-04	6.74E-04	4.33E-04	1.01E+00	9.24E-01	3.56E-01
4868	495363.09	3861877.25	0.00281	0.15933	0.00182	0.00494	0.002	0.005	0.1583	0.15933	1.96E-02	2.94E-01	1.89E-07	1.74E-04	6.96E-04	4.25E-04	1.12E+00	1.08E+00	3.53E-01

4869	495863.09	3861877.25	0.00279	0.06551	0.00185	0.00477	0.002	0.005	0.0657	0.06551	1.95E-02	1.21E-01	1.93E-07	1.68E-04	6.67E-04	4.24E-04	4.66E-01	4.45E-01	1.62E-01
4870	496363.09	3861877.25	0.00278	0.04116	0.00187	0.00462	0.002	0.005	0.0414	0.04116	1.94E-02	7.60E-02	1.95E-07	1.63E-04	6.08E-04	4.25E-04	2.93E-01	2.80E-01	1.10E-01
4871	496863.09	3861877.25	0.00298	0.02134	0.00202	0.00462	0.002	0.005	0.0214	0.02134	2.08E-02	3.94E-02	2.10E-07	1.63E-04	5.95E-04	4.43E-04	1.52E-01	1.45E-01	6.80E-02
4872	497363.09	3861877.25	0.00282	0.02241	0.00193	0.00434	0.002	0.005	0.0225	0.02241	1.97E-02	4.14E-02	2.01E-07	1.53E-04	5.51E-04	4.24E-04	1.59E-01	1.52E-01	6.91E-02
4873	497863.09	3861877.25	0.00278	0.01999	0.00189	0.00415	0.002	0.004	0.02	0.01999	1.94E-02	3.69E-02	1.97E-07	1.46E-04	5.64E-04	4.15E-04	1.42E-01	1.36E-01	6.35E-02
4874	498363.09	3861877.25	0.00276	0.0174	0.00189	0.00401	0.002	0.004	0.0174	0.0174	1.92E-02	3.21E-02	1.97E-07	1.41E-04	6.05E-04	4.08E-04	1.23E-01	1.18E-01	5.76E-02
4875	471363.09	3862377.25	0.0012	0.0009	0.00064	0.00099	0.001	0.001	0.0009	0.0009	8.37E-03	1.66E-03	6.66E-08	3.48E-05	3.48E-04	1.07E-04	6.24E-03	6.12E-03	1.06E-02
4876	471863.09	3862377.25	0.00123	0.00091	0.00065	0.00102	0.001	0.001	0.0009	0.00091	8.58E-03	1.68E-03	6.77E-08	3.59E-05	3.45E-04	1.10E-04	6.38E-03	6.19E-03	1.09E-02
4877	472363.09	3862377.25	0.00126	0.00093	0.00066	0.00105	0.001	0.001	0.0009	0.00093	8.78E-03	1.72E-03	6.87E-08	3.70E-05	3.48E-04	1.14E-04	6.45E-03	6.32E-03	1.11E-02
4878	472863.09	3862377.25	0.0013	0.00095	0.00067	0.00108	0.001	0.001	0.0009	0.00095	9.06E-03	1.75E-03	6.98E-08	3.80E-05	3.60E-04	1.17E-04	6.59E-03	6.46E-03	1.15E-02
4879	473363.09	3862377.25	0.00134	0.00097	0.0007	0.00112	0.001	0.001	0.001	0.00097	9.34E-03	1.79E-03	7.29E-08	3.94E-05	3.79E-04	1.20E-04	6.73E-03	6.60E-03	1.18E-02
4880	473863.09	3862377.25	0.00137	0.00098	0.00075	0.00116	0.001	0.001	0.001	0.00098	9.55E-03	1.81E-03	7.81E-08	4.08E-05	4.04E-04	1.23E-04	6.80E-03	6.66E-03	1.21E-02
4881	474363.09	3862377.25	0.00142	0.001	0.0008	0.0012	0.001	0.001	0.001	0.001	9.90E-03	1.85E-03	8.33E-08	4.22E-05	4.39E-04	1.27E-04	6.87E-03	6.80E-03	1.24E-02
4882	474863.09	3862377.25	0.00146	0.00102	0.00083	0.00123	0.002	0.001	0.001	0.00102	1.02E-02	1.88E-03	8.64E-08	4.33E-05	4.70E-04	1.30E-04	7.01E-03	6.94E-03	1.28E-02
4883	475363.09	3862377.25	0.00149	0.00104	0.00086	0.00127	0.002	0.001	0.001	0.00104	1.04E-02	1.92E-03	8.95E-08	4.47E-05	4.98E-04	1.34E-04	7.16E-03	7.07E-03	1.31E-02
4884	475863.09	3862377.25	0.00151	0.00107	0.00088	0.0013	0.002	0.001	0.001	0.00107	1.05E-02	1.98E-03	9.16E-08	4.58E-05	5.14E-04	1.40E-04	7.37E-03	7.28E-03	1.33E-02
4885	476363.09	3862377.25	0.00154	0.00109	0.00091	0.00132	0.002	0.002	0.0011	0.00109	1.07E-02	2.01E-03	9.47E-08	4.65E-05	5.23E-04	1.46E-04	7.51E-03	7.41E-03	1.36E-02
4886	476863.09	3862377.25	0.00158	0.00111	0.00094	0.00135	0.002	0.002	0.0011	0.00111	1.10E-02	2.05E-03	9.79E-08	4.75E-05	5.30E-04	1.50E-04	7.65E-03	7.55E-03	1.39E-02
4887	477363.09	3862377.25	0.00164	0.00111	0.00093	0.00136	0.002	0.002	0.0011	0.00111	1.14E-02	2.05E-03	9.68E-08	4.79E-05	5.11E-04	1.52E-04	7.72E-03	7.55E-03	1.44E-02
4888	477863.09	3862377.25	0.00173	0.00103	0.00077	0.00131	0.001	0.001	0.001	0.00103	1.21E-02	1.90E-03	8.02E-08	4.61E-05	4.64E-04	1.40E-04	7.30E-03	7.00E-03	1.49E-02
4889	478363.09	3862377.25	0.00173	0.00093	0.00072	0.00125	0.001	0.001	0.001	0.00093	1.21E-02	1.72E-03	7.50E-08	4.40E-05	4.54E-04	1.29E-04	6.73E-03	6.32E-03	1.48E-02
4890	478863.09	3862377.25	0.00177	0.00095	0.00075	0.00133	0.002	0.001	0.001	0.00095	1.23E-02	1.75E-03	7.81E-08	4.68E-05	5.11E-04	1.35E-04	6.87E-03	6.46E-03	1.52E-02
4891	479363.09	3862377.25	0.00184	0.00102	0.00081	0.00147	0.002	0.002	0.001	0.00102	1.28E-02	1.88E-03	8.43E-08	5.17E-05	6.02E-04	1.48E-04	7.37E-03	6.94E-03	1.59E-02
4892	479863.09	3862377.25	0.00183	0.00123	0.00097	0.0017	0.002	0.002	0.0012	0.00123	1.28E-02	2.27E-03	1.01E-07	5.98E-05	6.71E-04	1.83E-04	8.50E-03	8.36E-03	1.61E-02
4893	480363.09	3862377.25	0.00179	0.00133	0.00113	0.00181	0.002	0.002	0.0013	0.00133	1.25E-02	2.46E-03	1.18E-07	6.37E-05	6.77E-04	2.01E-04	9.00E-03	9.04E-03	1.58E-02
4894	480863.09	3862377.25	0.00179	0.00137	0.00124	0.00188	0.002	0.002	0.0013	0.00137	1.25E-02	2.53E-03	1.29E-07	6.62E-05	6.83E-04	2.11E-04	9.28E-03	9.32E-03	1.59E-02
4895	481363.09	3862377.25	0.00179	0.00142	0.00126	0.00194	0.002	0.002	0.0014	0.00142	1.25E-02	2.62E-03	1.31E-07	6.83E-05	6.86E-04	2.20E-04	9.64E-03	9.66E-03	1.61E-02
4896	481863.09	3862377.25	0.00181	0.00148	0.00134	0.00199	0.002	0.002	0.0014	0.00148	1.26E-02	2.73E-03	1.40E-07	7.00E-05	6.67E-04	2.29E-04	9.99E-03	1.01E-02	1.62E-02
4897	482363.09	3862377.25	0.00185	0.00152	0.00153	0.00209	0.002	0.003	0.0015	0.00152	1.29E-02	2.81E-03	1.59E-07	7.36E-05	6.17E-04	2.38E-04	1.03E-02	1.03E-02	1.66E-02
4898	482863.09	3862377.25	0.00187	0.00155	0.00149	0.00221	0.002	0.003	0.0015	0.00155	1.30E-02	2.86E-03	1.55E-07	7.78E-05	5.51E-04	2.45E-04	1.06E-02	1.05E-02	1.68E-02
4899	483363.09	3862377.25	0.00189	0.0016	0.00137	0.00233	0.002	0.003	0.0015	0.0016	1.32E-02	2.96E-03	1.43E-07	8.20E-05	5.08E-04	2.54E-04	1.08E-02	1.09E-02	1.69E-02
4900	483863.09	3862377.25	0.00186	0.00165	0.00142	0.00246	0.002	0.003	0.0016	0.00165	1.30E-02	3.05E-03	1.48E-07	8.66E-05	5.36E-04	2.65E-04	1.13E-02	1.12E-02	1.69E-02
4901	484363.09	3862377.25	0.00186	0.00171	0.00148	0.00259	0.002	0.003	0.0017	0.00171	1.30E-02	3.16E-03	1.54E-07	9.12E-05	6.27E-04	2.74E-04	1.17E-02	1.16E-02	1.72E-02
4902	484863.09	3862377.25	0.00184	0.00177	0.0015	0.00272	0.002	0.003	0.0017	0.00177	1.28E-02	3.27E-03	1.56E-07	9.57E-05	6.52E-04	2.85E-04	1.21E-02	1.20E-02	1.72E-02
4903	485363.09	3862377.25	0.00179	0.00182	0.00137	0.00288	0.002	0.003	0.0018	0.00182	1.25E-02	3.36E-03	1.43E-07	1.01E-04	5.36E-04	2.90E-04	1.25E-02	1.24E-02	1.69E-02
4904	485863.09	3862377.25	0.00173	0.00188	0.00139	0.00305	0.001	0.003	0.0018	0.00188	1.21E-02	3.47E-03	1.45E-07	1.07E-04	4.07E-04	2.96E-04	1.30E-02	1.28E-02	1.65E-02
4905	486363.09	3862377.25	0.00173	0.00196	0.00143	0.00325	0.001	0.003	0.0019	0.00196	1.21E-02	3.62E-03	1.49E-07	1.14E-04	3.51E-04	3.02E-04	1.35E-02	1.33E-02	1.66E-02
4906	486863.09	3862377.25	0.00172	0.00206	0.00159	0.00361	0.001	0.003	0.002	0.00206	1.20E-02	3.80E-03	1.66E-07	1.27E-04	3.82E-04	3.05E-04	1.42E-02	1.40E-02	1.68E-02
4907	487363.09	3862377.25	0.0017	0.00218	0.00153	0.00423	0.002	0.003	0.0021	0.00218	1.19E-02	4.03E-03	1.59E-07	1.49E-04	4.79E-04	3.14E-04	1.50E-02	1.48E-02	1.69E-02
4908	487863.09	3862377.25	0.00169	0.00231	0.00169	0.00521	0.001	0.003	0.0022	0.00231	1.18E-02	4.27E-03	1.76E-07	1.83E-04	3.54E-04	3.05E-04	1.57E-02	1.57E-02	1.69E-02
4909	488363.09	3862377.25	0.00169	0.00244	0.0016	0.00736	8E-04	0.003	0.0023	0.00244	1.18E-02	4.51E-03	1.67E-07	2.59E-04	2.57E-04	3.17E-04	1.66E-02	1.66E-02	1.71E-02
4910	488863.09	3862377.25	0.0019	0.0026	0.00141	0.01638	9E-04	0.004	0.0025	0.0026	1.32E-02	4.80E-03	1.47E-07	5.77E-04	2.76E-04	3.40E-04	1.76E-02	1.77E-02	1.92E-02
4911	489363.09	3862377.25	0.00217	0.00277	0.00157	0.08829	9E-04	0.004	0.0027	0.00277	1.51E-02	5.12E-03	1.63E-07	3.11E-03	2.73E-04	3.57E-04	1.89E-02	1.88E-02	2.41E-02
4912	489863.09	3862377.25	0.00231	0.00295	0.00146	0.02414	1E-03	0.004	0.0029	0.00295	1.61E-02	5.45E-03	1.52E-07	8.50E-04	2.98E-04	3.61E-04	2.04E-02	2.01E-02	2.34E-02
4913	490363.09	3862377.25	0.0023	0.00315	0.00124	0.01493	0.002	0.004	0.0031	0.00315	1.60E-02	5.82E-03	1.29E-07	5.25E-04	5.77E-04	3.60E-04	2.22E-02	2.14E-02	2.41E-02
4914	490863.09	3862377.25	0.00216	0.00342	0.0013	0.01122	0.002	0.004	0.0034	0.00342	1.51E-02	6.32E-03	1.35E-07	3.95E-04	7.74E-04	3.59E-04	2.42E-02	2.33E-02	2.39E-02
4915	491363.09	3862377.25	0.00208	0.00378	0.00153	0.00919	0.002	0.004	0.0038	0.00378	1.45E-02	6.98E-03	1.59E-07	3.23E-04	7.55E-04	3.56E-04	2.66E-02	2.57E-02	2.39E-02
4916	491863.09	3862377.25	0.00208	0.0042	0.00148	0.00778	0.002	0.004	0.0041	0.0042	1.45E-02	7.76E-03	1.54E-07	2.74E-04	6.42E-04	3.48E-04	2.93E-02	2.86E-02	2.42E-02
4917	492363.09	3862377.25	0.00213	0.00471	0.00144	0.00682	0.002	0.004	0.0047	0.00471	1.48E-02	8.70E-03	1.50E-07	2.40E-04	4.98E-04	3.39E-04	3.30E-02	3.20E-02	2.56E-02
4918	492863.09	3862377.25	0.00218	0.00539	0.0014	0.00622	0.001	0.004	0.0054	0.00539	1.52E-02	9.95E-03	1.46E-07	2.19E-04	4.61E-04	3.49E-04	3.83E-02	3.67E-02	2.78E-02
4919	493363.09	3862377.25	0.00218	0.00627	0.00135	0.00567	0.002	0.004	0.0063	0.00627	1.52E-02	1.16E-02	1.41E-07	2.00E-04	5.08E-04	3.47E-04	4.44E-02	4.26E-02	2.96E-02
4920	493863.09	3862377.25	0.0022	0.00735	0.00132	0.00509	0.002	0.004	0.0073	0.00735	1.53E-02	1.36E-02	1.37E-07	1.79E-04	5.11E-04	3.41E-04	5.19E-02	5.00E-02	3.18E-02
4921	494363.09	3862377.25	0.00223	0.00892	0.00141	0.00476	0.002	0.004	0.0089	0.00892	1.55E-02	1.65E-02	1.47E-07	1.68E-04	4.89E-04	3.37E-04	6.31E-02	6.07E-02	3.54E-02
4922	494863.09	3862377.25	0.00225	0.01116	0.00147	0.00455	0.002	0.004	0.0112	0.01116	1.57E-02	2.06E-02	1.53E-07	1.60E-04	5.08E-04	3.30E-04	7.94E-02	7.59E-02	4.08E-02
4923	495363.09	3862377.25	0.00221	0.0145	0.00144	0.00427	0.002	0.003	0.0146	0.0145	1.54E-02	2.68E-02	1.50E-07	1.50E-04	5.51E-04	3.22E-04	1.03E-01	9.86E-02	4.81E-02
4924	495863.09	3862377.25	0.00218	0.02165	0.00143	0.00394	0.002	0.003	0.0218	0.02165	1.52E-02	4.00E-02	1.49E-07	1.39E-04	5.89E-04	3.18E-04	1.55E-01	1.47E-01	6.38E-02
4925	496363.09	3862377.25	0.00216	0.04291	0.00144	0.0037	0.002	0.003	0.0432	0.04291	1.51E-02	7.93E-02	1.50E-07	1.30E-04	5.92E-04	3.13E-04	3.06E-01	2.92E-01	1.10E-01
4926	496863.09	3862377.25	0.00218	0.37585	0.00149	0.00362	0.002	0.003	0.3664	0.37585	1.52E-02	6.94E-01	1.55E-07	1.27E-04	5.64E-04	3.15E-04	2.60E+00	2.56E+00	7.50E-01

4927	497363.09	3862377.25	0.00217	0.22287	0.00149	0.0035	0.002	0.003	0.2248	0.22287	1.51E-02	4.12E-01	1.55E-07	1.23E-04	5.08E-04	3.13E-04	1.59E+00	1.52E+00	5.05E-01
4928	497863.09	3862377.25	0.00217	0.58596	0.00149	0.00339	0.001	0.003	0.6297	0.58596	1.51E-02	1.08E+00	1.55E-07	1.19E-04	4.64E-04	3.11E-04	4.46E+00	3.98E+00	1.58E+00
4929	498363.09	3862377.25	0.00217	0.07701	0.00148	0.00325	0.001	0.003	0.0764	0.07701	1.51E-02	1.42E-01	1.54E-07	1.14E-04	4.45E-04	3.08E-04	5.41E-01	5.24E-01	1.76E-01
4930	471363.09	3862877.25	0.00115	0.00087	0.0006	0.00097	0.001	0.001	0.0009	0.00087	8.02E-03	1.61E-03	6.25E-08	3.41E-05	3.13E-04	1.03E-04	6.09E-03	5.92E-03	1.03E-02
4931	471863.09	3862877.25	0.00118	0.00089	0.00061	0.001	0.001	0.001	0.0009	0.00089	8.23E-03	1.64E-03	6.35E-08	3.52E-05	3.29E-04	1.06E-04	6.16E-03	6.05E-03	1.05E-02
4932	472363.09	3862877.25	0.00121	0.00091	0.00063	0.00104	0.001	0.001	0.0009	0.00091	8.44E-03	1.68E-03	6.56E-08	3.66E-05	3.51E-04	1.09E-04	6.31E-03	6.19E-03	1.07E-02
4933	472863.09	3862877.25	0.00124	0.00093	0.00066	0.00107	0.001	0.001	0.0009	0.00093	8.64E-03	1.72E-03	6.87E-08	3.77E-05	3.76E-04	1.13E-04	6.38E-03	6.32E-03	1.09E-02
4934	473363.09	3862877.25	0.00127	0.00094	0.00071	0.0011	0.001	0.001	0.0009	0.00094	8.85E-03	1.74E-03	7.39E-08	3.87E-05	4.04E-04	1.16E-04	6.52E-03	6.39E-03	1.13E-02
4935	473863.09	3862877.25	0.0013	0.00096	0.00076	0.00113	0.001	0.001	0.0009	0.00096	9.06E-03	1.77E-03	7.91E-08	3.98E-05	4.29E-04	1.19E-04	6.59E-03	6.53E-03	1.15E-02
4936	474363.09	3862877.25	0.00133	0.00097	0.00079	0.00115	0.001	0.001	0.001	0.00097	9.27E-03	1.79E-03	8.22E-08	4.05E-05	4.51E-04	1.24E-04	6.73E-03	6.60E-03	1.18E-02
4937	474863.09	3862877.25	0.00136	0.00099	0.0008	0.00117	0.001	0.001	0.001	0.00099	9.48E-03	1.83E-03	8.33E-08	4.12E-05	4.64E-04	1.28E-04	6.87E-03	6.73E-03	1.21E-02
4938	475363.09	3862877.25	0.00138	0.00102	0.00082	0.00119	0.001	0.001	0.001	0.00102	9.62E-03	1.88E-03	8.54E-08	4.19E-05	4.64E-04	1.33E-04	7.01E-03	6.94E-03	1.22E-02
4939	475863.09	3862877.25	0.0014	0.00104	0.00085	0.00121	0.001	0.001	0.001	0.00104	9.76E-03	1.92E-03	8.85E-08	4.26E-05	4.61E-04	1.38E-04	7.16E-03	7.07E-03	1.24E-02
4940	476363.09	3862877.25	0.00142	0.00106	0.00088	0.00124	0.001	0.002	0.001	0.00106	9.90E-03	1.96E-03	9.16E-08	4.36E-05	4.57E-04	1.42E-04	7.30E-03	7.21E-03	1.26E-02
4941	476863.09	3862877.25	0.00146	0.00107	0.00088	0.00128	0.001	0.002	0.0011	0.00107	1.02E-02	1.98E-03	9.16E-08	4.51E-05	4.64E-04	1.47E-04	7.44E-03	7.28E-03	1.30E-02
4942	477363.09	3862877.25	0.0015	0.00109	0.00086	0.00133	0.002	0.002	0.0011	0.00109	1.05E-02	2.01E-03	8.95E-08	4.68E-05	4.83E-04	1.50E-04	7.51E-03	7.41E-03	1.32E-02
4943	477863.09	3862877.25	0.00157	0.00106	0.00086	0.00137	0.002	0.002	0.0011	0.00106	1.09E-02	1.96E-03	8.95E-08	4.82E-05	4.86E-04	1.49E-04	7.44E-03	7.21E-03	1.38E-02
4944	478363.09	3862877.25	0.00161	0.00097	0.00077	0.00133	0.002	0.001	0.001	0.00097	1.12E-02	1.79E-03	8.02E-08	4.68E-05	5.20E-04	1.37E-04	6.94E-03	6.60E-03	1.41E-02
4945	478863.09	3862877.25	0.00164	0.00098	0.00077	0.00139	0.002	0.002	0.001	0.00098	1.14E-02	1.81E-03	8.02E-08	4.89E-05	5.73E-04	1.42E-04	7.01E-03	6.66E-03	1.44E-02
4946	479363.09	3862877.25	0.00167	0.00101	0.00082	0.00146	0.002	0.002	0.001	0.00101	1.16E-02	1.87E-03	8.54E-08	5.14E-05	5.92E-04	1.48E-04	7.23E-03	6.87E-03	1.47E-02
4947	479863.09	3862877.25	0.0016	0.00122	0.00103	0.00164	0.002	0.002	0.0012	0.00122	1.12E-02	2.25E-03	1.07E-07	5.77E-05	6.08E-04	1.80E-04	8.36E-03	8.30E-03	1.43E-02
4948	480363.09	3862877.25	0.00158	0.00127	0.00116	0.00168	0.002	0.002	0.0012	0.00127	1.10E-02	2.35E-03	1.21E-07	5.91E-05	6.05E-04	1.89E-04	8.64E-03	8.64E-03	1.42E-02
4949	480863.09	3862877.25	0.00158	0.0013	0.00122	0.00173	0.002	0.002	0.0013	0.0013	1.10E-02	2.40E-03	1.27E-07	6.09E-05	6.05E-04	1.94E-04	8.86E-03	8.84E-03	1.43E-02
4950	481363.09	3862877.25	0.00157	0.00135	0.00125	0.00177	0.002	0.002	0.0013	0.00135	1.09E-02	2.49E-03	1.30E-07	6.23E-05	5.83E-04	2.00E-04	9.21E-03	9.18E-03	1.43E-02
4951	481863.09	3862877.25	0.00162	0.00139	0.00128	0.00185	0.002	0.002	0.0013	0.00139	1.13E-02	2.57E-03	1.33E-07	6.51E-05	5.45E-04	2.08E-04	9.49E-03	9.45E-03	1.47E-02
4952	482363.09	3862877.25	0.00161	0.00143	0.00135	0.00195	0.002	0.002	0.0014	0.00143	1.12E-02	2.64E-03	1.41E-07	6.86E-05	4.76E-04	2.15E-04	9.71E-03	9.72E-03	1.46E-02
4953	482863.09	3862877.25	0.00163	0.00147	0.00123	0.00207	0.001	0.002	0.0014	0.00147	1.14E-02	2.71E-03	1.28E-07	7.29E-05	4.36E-04	2.20E-04	9.99E-03	1.00E-02	1.48E-02
4954	483363.09	3862877.25	0.00163	0.00151	0.00117	0.00216	0.001	0.002	0.0015	0.00151	1.14E-02	2.79E-03	1.22E-07	7.60E-05	4.48E-04	2.27E-04	1.03E-02	1.03E-02	1.49E-02
4955	483863.09	3862877.25	0.0016	0.00155	0.00131	0.00224	0.002	0.002	0.0015	0.00155	1.12E-02	2.86E-03	1.36E-07	7.88E-05	5.17E-04	2.32E-04	1.06E-02	1.05E-02	1.49E-02
4956	484363.09	3862877.25	0.00157	0.0016	0.00136	0.00233	0.002	0.003	0.0016	0.0016	1.09E-02	2.96E-03	1.42E-07	8.20E-05	5.83E-04	2.39E-04	1.10E-02	1.09E-02	1.49E-02
4957	484863.09	3862877.25	0.00152	0.00166	0.0013	0.00242	0.002	0.003	0.0016	0.00166	1.06E-02	3.07E-03	1.35E-07	8.52E-05	5.30E-04	2.44E-04	1.14E-02	1.13E-02	1.46E-02
4958	485363.09	3862877.25	0.00146	0.00171	0.00126	0.00252	0.001	0.003	0.0017	0.00171	1.02E-02	3.16E-03	1.31E-07	8.87E-05	4.04E-04	2.45E-04	1.18E-02	1.16E-02	1.43E-02
4959	485863.09	3862877.25	0.0014	0.00176	0.00127	0.00264	0.001	0.003	0.0017	0.00176	9.76E-03	3.25E-03	1.32E-07	9.29E-05	3.29E-04	2.48E-04	1.22E-02	1.20E-02	1.39E-02
4960	486363.09	3862877.25	0.00136	0.00182	0.00121	0.00285	1E-03	0.003	0.0018	0.00182	9.48E-03	3.36E-03	1.26E-07	1.00E-04	3.01E-04	2.55E-04	1.26E-02	1.24E-02	1.37E-02
4961	486863.09	3862877.25	0.00132	0.0019	0.00132	0.0032	0.001	0.003	0.0019	0.0019	9.20E-03	3.51E-03	1.37E-07	1.13E-04	3.54E-04	2.57E-04	1.32E-02	1.29E-02	1.37E-02
4962	487363.09	3862877.25	0.00132	0.002	0.00142	0.00368	0.001	0.003	0.0019	0.002	9.20E-03	3.69E-03	1.48E-07	1.30E-04	4.36E-04	2.57E-04	1.37E-02	1.36E-02	1.39E-02
4963	487863.09	3862877.25	0.00133	0.0021	0.00147	0.00455	1E-03	0.003	0.002	0.0021	9.27E-03	3.88E-03	1.53E-07	1.60E-04	3.10E-04	2.53E-04	1.44E-02	1.43E-02	1.40E-02
4964	488363.09	3862877.25	0.00135	0.00221	0.0013	0.00654	7E-04	0.003	0.0021	0.00221	9.41E-03	4.08E-03	1.35E-07	2.30E-04	2.26E-04	2.58E-04	1.51E-02	1.50E-02	1.43E-02
4965	488863.09	3862877.25	0.00146	0.00232	0.00114	0.01535	7E-04	0.003	0.0022	0.00232	1.02E-02	4.28E-03	1.19E-07	5.40E-04	2.29E-04	2.69E-04	1.59E-02	1.58E-02	1.56E-02
4966	489363.09	3862877.25	0.00169	0.00246	0.00131	0.08708	8E-04	0.003	0.0024	0.00246	1.18E-02	4.54E-03	1.36E-07	3.06E-03	2.54E-04	2.91E-04	1.68E-02	1.67E-02	2.00E-02
4967	489863.09	3862877.25	0.00188	0.0026	0.00129	0.023	7E-04	0.003	0.0025	0.0026	1.31E-02	4.80E-03	1.34E-07	8.10E-04	2.16E-04	3.01E-04	1.79E-02	1.77E-02	1.94E-02
4968	490363.09	3862877.25	0.00193	0.00274	0.00107	0.01364	0.001	0.003	0.0027	0.00274	1.35E-02	5.06E-03	1.11E-07	4.80E-04	3.70E-04	2.95E-04	1.91E-02	1.86E-02	2.02E-02
4969	490863.09	3862877.25	0.00183	0.0029	0.00107	0.00988	0.002	0.003	0.0029	0.0029	1.28E-02	5.36E-03	1.11E-07	3.48E-04	6.11E-04	2.89E-04	2.05E-02	1.97E-02	2.02E-02
4970	491363.09	3862877.25	0.00173	0.00309	0.00125	0.00788	0.002	0.003	0.0031	0.00309	1.21E-02	5.71E-03	1.30E-07	2.77E-04	6.96E-04	2.87E-04	2.20E-02	2.10E-02	2.00E-02
4971	491863.09	3862877.25	0.00166	0.00333	0.00127	0.00652	0.002	0.003	0.0033	0.00333	1.16E-02	6.15E-03	1.32E-07	2.29E-04	6.39E-04	2.79E-04	2.35E-02	2.26E-02	1.98E-02
4972	492363.09	3862877.25	0.00168	0.00361	0.00126	0.00565	0.002	0.003	0.0036	0.00361	1.17E-02	6.67E-03	1.31E-07	1.99E-04	5.39E-04	2.77E-04	2.52E-02	2.45E-02	2.00E-02
4973	492863.09	3862877.25	0.00173	0.00393	0.00123	0.00502	0.001	0.003	0.0039	0.00393	1.21E-02	7.26E-03	1.28E-07	1.77E-04	4.20E-04	2.74E-04	2.75E-02	2.67E-02	2.10E-02
4974	493363.09	3862877.25	0.00175	0.00431	0.00121	0.00464	0.001	0.003	0.0043	0.00431	1.22E-02	7.96E-03	1.26E-07	1.63E-04	3.98E-04	2.72E-04	3.06E-02	2.93E-02	2.23E-02
4975	493863.09	3862877.25	0.00175	0.00469	0.00116	0.00432	0.001	0.003	0.0047	0.00469	1.22E-02	8.66E-03	1.21E-07	1.52E-04	4.45E-04	2.74E-04	3.32E-02	3.19E-02	2.31E-02
4976	494363.09	3862877.25	0.00177	0.00521	0.00111	0.00394	0.001	0.003	0.0052	0.00521	1.23E-02	9.62E-03	1.16E-07	1.39E-04	4.54E-04	2.71E-04	3.67E-02	3.54E-02	2.41E-02
4977	494863.09	3862877.25	0.00178	0.00596	0.00114	0.00367	0.001	0.003	0.0059	0.00596	1.24E-02	1.10E-02	1.19E-07	1.29E-04	4.26E-04	2.61E-04	4.19E-02	4.05E-02	2.57E-02
4978	495363.09	3862877.25	0.00181	0.00677	0.00122	0.00353	0.001	0.003	0.0068	0.00677	1.26E-02	1.25E-02	1.27E-07	1.24E-04	4.26E-04	2.59E-04	4.78E-02	4.60E-02	2.77E-02
4979	495863.09	3862877.25	0.00181	0.00764	0.00125	0.00341	0.001	0.003	0.0076	0.00764	1.26E-02	1.41E-02	1.30E-07	1.20E-04	4.61E-04	2.59E-04	5.41E-02	5.20E-02	2.98E-02
4980	496363.09	3862877.25	0.00179	0.00865	0.00122	0.00324	0.002	0.003	0.0087	0.00865	1.25E-02	1.60E-02	1.27E-07	1.14E-04	4.98E-04	2.56E-04	6.15E-02	5.88E-02	3.20E-02
4981	496863.09	3862877.25	0.00176	0.00997	0.0012	0.00302	0.002	0.003	0.01	0.00997	1.23E-02	1.84E-02	1.25E-07	1.06E-04	5.20E-04	2.50E-04	7.10E-02	6.78E-02	3.48E-02
4982	497363.09	3862877.25	0.00175	0.01086	0.0012	0.00286	0.002	0.003	0.0109	0.01086	1.22E-02	2.01E-02	1.25E-07	1.01E-04	5.14E-04	2.44E-04	7.73E-02	7.38E-02	3.66E-02
4983	497863.09	3862877.25	0.00175	0.01086	0.00121	0.00278	0.002	0.003	0.0109	0.01086	1.22E-02	2.01E-02	1.26E-07	9.78E-05	4.79E-04	2.43E-04	7.73E-02	7.38E-02	3.65E-02
4984	498363.09	3862877.25	0.00176	0.01044	0.00123	0.00273	0.001	0.003	0.0105	0.01044	1.23E-02	1.93E-02	1.28E-07	9.61E-05	4.36E-04	2.46E-04	7.42E-02	7.10E-02	3.55E-02

4985	471363.09	3863377.25	0.0011	0.00085	0.00057	0.00096	0.001	0.001	0.0008	0.00085	7.67E-03	1.57E-03	5.93E-08	3.38E-05	3.29E-04	1.01E-04	5.95E-03	5.78E-03	9.87E-03
4986	471863.09	3863377.25	0.00113	0.00087	0.0006	0.00099	0.001	0.001	0.0009	0.00087	7.88E-03	1.61E-03	6.25E-08	3.48E-05	3.54E-04	1.04E-04	6.02E-03	5.92E-03	1.01E-02
4987	472363.09	3863377.25	0.00115	0.00088	0.00063	0.00101	0.001	0.001	0.0009	0.00088	8.02E-03	1.63E-03	6.56E-08	3.55E-05	3.76E-04	1.07E-04	6.16E-03	5.98E-03	1.03E-02
4988	472863.09	3863377.25	0.00118	0.0009	0.00068	0.00103	0.001	0.001	0.0009	0.0009	8.23E-03	1.66E-03	7.08E-08	3.63E-05	3.95E-04	1.11E-04	6.24E-03	6.12E-03	1.05E-02
4989	473363.09	3863377.25	0.0012	0.00092	0.00072	0.00104	0.001	0.001	0.0009	0.00092	8.37E-03	1.70E-03	7.50E-08	3.66E-05	4.10E-04	1.15E-04	6.31E-03	6.26E-03	1.07E-02
4990	473863.09	3863377.25	0.00122	0.00093	0.00075	0.00105	0.001	0.001	0.0009	0.00093	8.51E-03	1.72E-03	7.81E-08	3.70E-05	4.17E-04	1.18E-04	6.45E-03	6.32E-03	1.09E-02
4991	474363.09	3863377.25	0.00125	0.00095	0.00075	0.00107	0.001	0.001	0.0009	0.00095	8.71E-03	1.75E-03	7.81E-08	3.77E-05	4.17E-04	1.21E-04	6.52E-03	6.46E-03	1.11E-02
4992	474863.09	3863377.25	0.00126	0.00097	0.00077	0.0011	0.001	0.001	0.0009	0.00097	8.78E-03	1.79E-03	8.02E-08	3.87E-05	4.10E-04	1.25E-04	6.66E-03	6.60E-03	1.12E-02
4993	475363.09	3863377.25	0.00128	0.00098	0.00079	0.00113	0.001	0.001	0.001	0.00098	8.92E-03	1.81E-03	8.22E-08	3.98E-05	4.04E-04	1.29E-04	6.80E-03	6.66E-03	1.14E-02
4994	475863.09	3863377.25	0.0013	0.001	0.0008	0.00117	0.001	0.001	0.001	0.001	9.06E-03	1.85E-03	8.33E-08	4.12E-05	4.07E-04	1.33E-04	6.94E-03	6.80E-03	1.16E-02
4995	476363.09	3863377.25	0.00131	0.00102	0.00081	0.00121	0.001	0.001	0.001	0.00102	9.13E-03	1.88E-03	8.43E-08	4.26E-05	4.17E-04	1.36E-04	7.01E-03	6.94E-03	1.17E-02
4996	476863.09	3863377.25	0.00133	0.00104	0.00081	0.00126	0.001	0.001	0.001	0.00104	9.27E-03	1.92E-03	8.43E-08	4.43E-05	4.39E-04	1.40E-04	7.16E-03	7.07E-03	1.19E-02
4997	477363.09	3863377.25	0.00135	0.00106	0.00084	0.00132	0.002	0.002	0.001	0.00106	9.41E-03	1.96E-03	8.74E-08	4.65E-05	4.70E-04	1.44E-04	7.30E-03	7.21E-03	1.21E-02
4998	477863.09	3863377.25	0.0014	0.00106	0.00087	0.00136	0.002	0.002	0.001	0.00106	9.76E-03	1.96E-03	9.06E-08	4.79E-05	5.08E-04	1.48E-04	7.30E-03	7.21E-03	1.25E-02
4999	478363.09	3863377.25	0.00146	0.00102	0.00082	0.00139	0.002	0.002	0.001	0.00102	1.02E-02	1.88E-03	8.54E-08	4.89E-05	5.42E-04	1.46E-04	7.16E-03	6.94E-03	1.30E-02
5000	478863.09	3863377.25	0.00147	0.00104	0.00086	0.00143	0.002	0.002	0.001	0.00104	1.02E-02	1.92E-03	8.95E-08	5.03E-05	5.42E-04	1.50E-04	7.30E-03	7.07E-03	1.31E-02
5001	479363.09	3863377.25	0.00145	0.00111	0.00096	0.00147	0.002	0.002	0.0011	0.00111	1.01E-02	2.05E-03	9.99E-08	5.17E-05	5.51E-04	1.61E-04	7.72E-03	7.55E-03	1.31E-02
5002	479863.09	3863377.25	0.00141	0.00118	0.00107	0.00152	0.002	0.002	0.0011	0.00118	9.83E-03	2.18E-03	1.11E-07	5.35E-05	5.39E-04	1.69E-04	8.08E-03	8.02E-03	1.28E-02
5003	480363.09	3863377.25	0.00141	0.00121	0.00114	0.00156	0.002	0.002	0.0012	0.00121	9.83E-03	2.23E-03	1.19E-07	5.49E-05	5.36E-04	1.75E-04	8.29E-03	8.23E-03	1.29E-02
5004	480863.09	3863377.25	0.0014	0.00124	0.00117	0.00162	0.002	0.002	0.0012	0.00124	9.76E-03	2.29E-03	1.22E-07	5.70E-05	5.17E-04	1.79E-04	8.50E-03	8.43E-03	1.29E-02
5005	481363.09	3863377.25	0.00139	0.00129	0.00112	0.00168	0.002	0.002	0.0012	0.00129	9.69E-03	2.38E-03	1.17E-07	5.91E-05	4.70E-04	1.83E-04	8.79E-03	8.77E-03	1.28E-02
5006	481863.09	3863377.25	0.0014	0.00133	0.00112	0.00176	0.001	0.002	0.0013	0.00133	9.76E-03	2.46E-03	1.17E-07	6.19E-05	4.17E-04	1.88E-04	9.07E-03	9.04E-03	1.29E-02
5007	482363.09	3863377.25	0.00141	0.00137	0.00115	0.00186	0.001	0.002	0.0013	0.00137	9.83E-03	2.53E-03	1.20E-07	6.55E-05	3.82E-04	1.92E-04	9.28E-03	9.32E-03	1.30E-02
5008	482863.09	3863377.25	0.00141	0.0014	0.00105	0.00192	0.001	0.002	0.0014	0.0014	9.83E-03	2.59E-03	1.09E-07	6.76E-05	3.79E-04	1.96E-04	9.57E-03	9.52E-03	1.31E-02
5009	483363.09	3863377.25	0.0014	0.00143	0.00109	0.00198	0.001	0.002	0.0014	0.00143	9.76E-03	2.64E-03	1.13E-07	6.97E-05	4.32E-04	2.02E-04	9.85E-03	9.72E-03	1.32E-02
5010	483863.09	3863377.25	0.00138	0.00147	0.00125	0.00205	0.002	0.002	0.0014	0.00147	9.62E-03	2.71E-03	1.30E-07	7.22E-05	4.98E-04	2.07E-04	1.01E-02	1.00E-02	1.32E-02
5011	484363.09	3863377.25	0.00132	0.00151	0.00122	0.00212	0.002	0.002	0.0015	0.00151	9.20E-03	2.79E-03	1.27E-07	7.46E-05	5.04E-04	2.11E-04	1.04E-02	1.03E-02	1.29E-02
5012	484863.09	3863377.25	0.00127	0.00156	0.0012	0.00218	0.001	0.002	0.0015	0.00156	8.85E-03	2.88E-03	1.25E-07	7.67E-05	4.14E-04	2.13E-04	1.08E-02	1.06E-02	1.26E-02
5013	485363.09	3863377.25	0.00121	0.00161	0.00116	0.00224	0.001	0.002	0.0016	0.00161	8.44E-03	2.97E-03	1.21E-07	7.88E-05	3.16E-04	2.13E-04	1.11E-02	1.09E-02	1.22E-02
5014	485863.09	3863377.25	0.00116	0.00165	0.00105	0.00235	9E-04	0.002	0.0016	0.00165	8.09E-03	3.05E-03	1.09E-07	8.27E-05	2.79E-04	2.18E-04	1.15E-02	1.12E-02	1.20E-02
5015	486363.09	3863377.25	0.00111	0.0017	0.00103	0.00255	8E-04	0.002	0.0017	0.0017	7.74E-03	3.14E-03	1.07E-07	8.98E-05	2.57E-04	2.21E-04	1.18E-02	1.16E-02	1.17E-02
5016	486863.09	3863377.25	0.00106	0.00175	0.00122	0.00279	0.001	0.002	0.0017	0.00175	7.39E-03	3.23E-03	1.27E-07	9.82E-05	3.42E-04	2.16E-04	1.22E-02	1.19E-02	1.16E-02
5017	487363.09	3863377.25	0.00105	0.00183	0.0013	0.00311	0.001	0.002	0.0018	0.00183	7.32E-03	3.38E-03	1.35E-07	1.09E-04	3.95E-04	2.16E-04	1.27E-02	1.24E-02	1.17E-02
5018	487863.09	3863377.25	0.00108	0.00191	0.00122	0.00369	9E-04	0.002	0.0019	0.00191	7.53E-03	3.53E-03	1.27E-07	1.30E-04	2.76E-04	2.17E-04	1.32E-02	1.30E-02	1.19E-02
5019	488363.09	3863377.25	0.00111	0.002	0.00111	0.00487	6E-04	0.002	0.0019	0.002	7.74E-03	3.69E-03	1.16E-07	1.71E-04	2.01E-04	2.18E-04	1.37E-02	1.36E-02	1.22E-02
5020	488863.09	3863377.25	0.00118	0.00208	0.00099	0.0111	6E-04	0.002	0.002	0.00208	8.23E-03	3.84E-03	1.03E-07	3.91E-04	1.91E-04	2.24E-04	1.42E-02	1.41E-02	1.30E-02
5021	489363.09	3863377.25	0.00134	0.00218	0.00112	0.07683	7E-04	0.003	0.0021	0.00218	9.34E-03	4.03E-03	1.17E-07	2.70E-03	2.29E-04	2.41E-04	1.49E-02	1.48E-02	1.66E-02
5022	489863.09	3863377.25	0.00154	0.00229	0.00111	0.01524	6E-04	0.003	0.0022	0.00229	1.07E-02	4.23E-03	1.16E-07	5.36E-04	1.88E-04	2.50E-04	1.57E-02	1.56E-02	1.61E-02
5023	490363.09	3863377.25	0.00165	0.00239	0.00098	0.00864	8E-04	0.003	0.0023	0.00239	1.15E-02	4.41E-03	1.02E-07	3.04E-04	2.35E-04	2.51E-04	1.66E-02	1.63E-02	1.70E-02
5024	490863.09	3863377.25	0.00164	0.00249	0.00093	0.00644	0.001	0.003	0.0025	0.00249	1.14E-02	4.60E-03	9.68E-08	2.27E-04	4.42E-04	2.43E-04	1.75E-02	1.69E-02	1.75E-02
5025	491363.09	3863377.25	0.00151	0.0026	0.00098	0.00532	0.002	0.002	0.0026	0.0026	1.05E-02	4.80E-03	1.02E-07	1.87E-04	5.92E-04	2.34E-04	1.86E-02	1.77E-02	1.72E-02
5026	491863.09	3863377.25	0.00141	0.00274	0.00112	0.00463	0.002	0.002	0.0028	0.00274	9.83E-03	5.06E-03	1.17E-07	1.63E-04	5.98E-04	2.32E-04	1.95E-02	1.86E-02	1.67E-02
5027	492363.09	3863377.25	0.0014	0.00287	0.00109	0.00422	0.002	0.003	0.0029	0.00287	9.76E-03	5.30E-03	1.13E-07	1.49E-04	5.58E-04	2.39E-04	2.02E-02	1.95E-02	1.67E-02
5028	492863.09	3863377.25	0.00146	0.00281	0.00115	0.00391	0.002	0.003	0.0028	0.00281	1.02E-02	5.19E-03	1.20E-07	1.38E-04	4.73E-04	2.38E-04	1.96E-02	1.91E-02	1.67E-02
5029	493363.09	3863377.25	0.00153	0.00269	0.00114	0.00362	0.001	0.002	0.0026	0.00269	1.07E-02	4.97E-03	1.19E-07	1.27E-04	3.82E-04	2.30E-04	1.87E-02	1.83E-02	1.68E-02
5030	493863.09	3863377.25	0.00154	0.00284	0.00112	0.00345	0.001	0.002	0.0029	0.00284	1.07E-02	5.25E-03	1.17E-07	1.21E-04	3.63E-04	2.27E-04	2.02E-02	1.93E-02	1.76E-02
5031	494363.09	3863377.25	0.00151	0.00317	0.00106	0.00331	0.001	0.002	0.0032	0.00317	1.05E-02	5.85E-03	1.10E-07	1.16E-04	4.01E-04	2.30E-04	2.25E-02	2.16E-02	1.81E-02
5032	494863.09	3863377.25	0.00153	0.00323	0.00101	0.00311	0.001	0.002	0.0032	0.00323	1.07E-02	5.97E-03	1.05E-07	1.09E-04	4.17E-04	2.26E-04	2.27E-02	2.20E-02	1.82E-02
5033	495363.09	3863377.25	0.00157	0.00318	0.00103	0.00295	0.001	0.002	0.0031	0.00318	1.09E-02	5.87E-03	1.07E-07	1.04E-04	4.01E-04	2.24E-04	2.22E-02	2.16E-02	1.81E-02
5034	495863.09	3863377.25	0.00161	0.00323	0.00113	0.00287	0.001	0.002	0.0032	0.00323	1.12E-02	5.97E-03	1.18E-07	1.01E-04	3.92E-04	2.26E-04	2.25E-02	2.20E-02	1.85E-02
5035	496363.09	3863377.25	0.00155	0.0045	0.0011	0.00276	0.001	0.002	0.0045	0.0045	1.08E-02	8.31E-03	1.15E-07	9.71E-05	3.98E-04	2.19E-04	3.17E-02	3.06E-02	2.09E-02
5036	496863.09	3863377.25	0.00151	0.00465	0.00108	0.00263	0.001	0.002	0.0046	0.00465	1.05E-02	8.59E-03	1.12E-07	9.26E-05	4.23E-04	2.12E-04	3.29E-02	3.16E-02	2.11E-02
5037	497363.09	3863377.25	0.00149	0.00457	0.00105	0.00251	0.001	0.002	0.0046	0.00457	1.04E-02	8.44E-03	1.09E-07	8.83E-05	4.51E-04	2.08E-04	3.25E-02	3.11E-02	2.10E-02
5038	497863.09	3863377.25	0.00147	0.00443	0.00103	0.00238	0.001	0.002	0.0045	0.00443	1.02E-02	8.18E-03	1.07E-07	8.38E-05	4.64E-04	2.03E-04	3.15E-02	3.01E-02	2.06E-02
5039	498363.09	3863377.25	0.00146	0.00439	0.00102	0.00228	0.001	0.002	0.0044	0.00439	1.02E-02	8.11E-03	1.06E-07	8.02E-05	4.51E-04	2.00E-04	3.12E-02	2.99E-02	2.04E-02
5040	471363.09	3863877.25	0.00105	0.00083	0.00058	0.00092	0.001	0.001	0.0008	0.00083	7.32E-03	1.53E-03	6.04E-08	3.24E-05	3.51E-04	9.96E-05	5.74E-03	5.64E-03	9.43E-03
5041	471863.09	3863877.25	0.00108	0.00084	0.00061	0.00093	0.001	0.001	0.0008	0.00084	7.53E-03	1.55E-03	6.35E-08	3.27E-05	3.70E-04	1.02E-04	5.88E-03	5.71E-03	9.75E-03
5042	472363.09	3863877.25	0.0011	0.00086	0.00066	0.00094	0.001	0.001	0.0008	0.00086	7.67E-03	1.59E-03	6.87E-08	3.31E-05	3.79E-04	1.06E-04	5.95E-03	5.85E-03	9.88E-03

5043	472863.09	3863877.25	0.00112	0.00088	0.00069	0.00096	0.001	0.001	0.0009	0.00088	7.81E-03	1.63E-03	7.18E-08	3.38E-05	3.82E-04	1.09E-04	6.02E-03	5.98E-03	1.00E-02
5044	473363.09	3863877.25	0.00113	0.00089	0.0007	0.00098	0.001	0.001	0.0009	0.00089	7.88E-03	1.64E-03	7.29E-08	3.45E-05	3.76E-04	1.12E-04	6.16E-03	6.05E-03	1.02E-02
5045	473863.09	3863877.25	0.00115	0.00091	0.0007	0.001	0.001	0.001	0.0009	0.00091	8.02E-03	1.68E-03	7.29E-08	3.52E-05	3.70E-04	1.15E-04	6.24E-03	6.19E-03	1.03E-02
5046	474363.09	3863877.25	0.00116	0.00092	0.00071	0.00104	0.001	0.001	0.0009	0.00092	8.09E-03	1.70E-03	7.39E-08	3.66E-05	3.63E-04	1.17E-04	6.38E-03	6.26E-03	1.04E-02
5047	474863.09	3863877.25	0.00116	0.00094	0.00074	0.00107	0.001	0.001	0.0009	0.00094	8.09E-03	1.74E-03	7.70E-08	3.77E-05	3.60E-04	1.20E-04	6.45E-03	6.39E-03	1.04E-02
5048	475363.09	3863877.25	0.00118	0.00095	0.00075	0.00111	0.001	0.001	0.0009	0.00095	8.23E-03	1.75E-03	7.81E-08	3.91E-05	3.70E-04	1.23E-04	6.59E-03	6.46E-03	1.06E-02
5049	475863.09	3863877.25	0.00118	0.00097	0.00076	0.00115	0.001	0.001	0.0009	0.00097	8.23E-03	1.79E-03	7.91E-08	4.05E-05	3.85E-04	1.26E-04	6.66E-03	6.60E-03	1.06E-02
5050	476363.09	3863877.25	0.00119	0.00099	0.00077	0.00119	0.001	0.001	0.001	0.00099	8.30E-03	1.83E-03	8.02E-08	4.19E-05	4.10E-04	1.29E-04	6.80E-03	6.73E-03	1.08E-02
5051	476863.09	3863877.25	0.0012	0.00101	0.00081	0.00123	0.001	0.001	0.001	0.00101	8.37E-03	1.87E-03	8.43E-08	4.33E-05	4.36E-04	1.33E-04	6.94E-03	6.87E-03	1.09E-02
5052	477363.09	3863877.25	0.00122	0.00103	0.00085	0.00127	0.001	0.001	0.001	0.00103	8.51E-03	1.90E-03	8.85E-08	4.47E-05	4.64E-04	1.37E-04	7.01E-03	7.00E-03	1.11E-02
5053	477863.09	3863877.25	0.00126	0.00103	0.00087	0.0013	0.002	0.002	0.001	0.00103	8.78E-03	1.90E-03	9.06E-08	4.58E-05	4.86E-04	1.41E-04	7.16E-03	7.00E-03	1.15E-02
5054	478363.09	3863877.25	0.00131	0.00101	0.00084	0.0013	0.002	0.002	0.001	0.00101	9.13E-03	1.87E-03	8.74E-08	4.58E-05	4.89E-04	1.41E-04	7.01E-03	6.87E-03	1.18E-02
5055	478863.09	3863877.25	0.0013	0.00107	0.0009	0.00134	0.002	0.002	0.001	0.00107	9.06E-03	1.98E-03	9.37E-08	4.72E-05	4.89E-04	1.49E-04	7.37E-03	7.28E-03	1.18E-02
5056	479363.09	3863877.25	0.00129	0.00111	0.00097	0.00139	0.002	0.002	0.0011	0.00111	8.99E-03	2.05E-03	1.01E-07	4.89E-05	4.86E-04	1.54E-04	7.58E-03	7.55E-03	1.18E-02
5057	479863.09	3863877.25	0.00128	0.00114	0.00103	0.00143	0.002	0.002	0.0011	0.00114	8.92E-03	2.11E-03	1.07E-07	5.03E-05	4.83E-04	1.58E-04	7.79E-03	7.75E-03	1.18E-02
5058	480363.09	3863877.25	0.00127	0.00117	0.00107	0.00149	0.001	0.002	0.0011	0.00117	8.85E-03	2.16E-03	1.11E-07	5.24E-05	4.61E-04	1.60E-04	8.01E-03	7.96E-03	1.17E-02
5059	480863.09	3863877.25	0.00124	0.00119	0.00103	0.00155	0.001	0.002	0.0012	0.00119	8.64E-03	2.20E-03	1.07E-07	5.46E-05	4.20E-04	1.62E-04	8.22E-03	8.09E-03	1.16E-02
5060	481363.09	3863877.25	0.00123	0.00123	0.00096	0.00161	0.001	0.002	0.0012	0.00123	8.58E-03	2.27E-03	9.99E-08	5.67E-05	3.70E-04	1.64E-04	8.43E-03	8.36E-03	1.15E-02
5061	481863.09	3863877.25	0.00123	0.00127	0.00099	0.00167	0.001	0.002	0.0012	0.00127	8.58E-03	2.35E-03	1.03E-07	5.88E-05	3.38E-04	1.68E-04	8.64E-03	8.64E-03	1.15E-02
5062	482363.09	3863877.25	0.00124	0.0013	0.00101	0.00172	0.001	0.002	0.0013	0.0013	8.64E-03	2.40E-03	1.05E-07	6.05E-05	3.32E-04	1.74E-04	8.86E-03	8.84E-03	1.16E-02
5063	482863.09	3863877.25	0.00123	0.00132	0.00095	0.00177	0.001	0.002	0.0013	0.00132	8.58E-03	2.44E-03	9.89E-08	6.23E-05	3.63E-04	1.79E-04	9.07E-03	8.98E-03	1.17E-02
5064	483363.09	3863877.25	0.00122	0.00135	0.00105	0.00182	0.001	0.002	0.0013	0.00135	8.51E-03	2.49E-03	1.09E-07	6.41E-05	4.23E-04	1.83E-04	9.28E-03	9.18E-03	1.18E-02
5065	483863.09	3863877.25	0.00118	0.00138	0.00119	0.00188	0.001	0.002	0.0013	0.00138	8.23E-03	2.55E-03	1.24E-07	6.62E-05	4.61E-04	1.86E-04	9.49E-03	9.38E-03	1.16E-02
5066	484363.09	3863877.25	0.00112	0.00141	0.00115	0.00192	0.001	0.002	0.0014	0.00141	7.81E-03	2.60E-03	1.20E-07	6.76E-05	4.14E-04	1.88E-04	9.78E-03	9.59E-03	1.13E-02
5067	484863.09	3863877.25	0.00106	0.00145	0.00106	0.00195	0.001	0.002	0.0014	0.00145	7.39E-03	2.68E-03	1.10E-07	6.86E-05	3.20E-04	1.88E-04	1.01E-02	9.86E-03	1.08E-02
5068	485363.09	3863877.25	0.00103	0.00149	0.001	0.00201	8E-04	0.002	0.0015	0.00149	7.18E-03	2.75E-03	1.04E-07	7.07E-05	2.63E-04	1.88E-04	1.03E-02	1.01E-02	1.07E-02
5069	485863.09	3863877.25	0.001	0.00152	0.00089	0.00213	8E-04	0.002	0.0015	0.00152	6.97E-03	2.81E-03	9.27E-08	7.50E-05	2.41E-04	1.94E-04	1.06E-02	1.03E-02	1.05E-02
5070	486363.09	3863877.25	0.00093	0.00156	0.00096	0.00229	7E-04	0.002	0.0015	0.00156	6.48E-03	2.88E-03	9.99E-08	8.06E-05	2.29E-04	1.91E-04	1.08E-02	1.06E-02	1.01E-02
5071	486863.09	3863877.25	0.00087	0.0016	0.00116	0.00244	0.001	0.002	0.0016	0.0016	6.07E-03	2.96E-03	1.21E-07	8.59E-05	3.29E-04	1.86E-04	1.12E-02	1.09E-02	9.94E-03
5072	487363.09	3863877.25	0.00086	0.00166	0.00112	0.00264	0.001	0.002	0.0016	0.00166	6.00E-03	3.07E-03	1.17E-07	9.29E-05	3.57E-04	1.89E-04	1.15E-02	1.13E-02	9.96E-03
5073	487863.09	3863877.25	0.0009	0.00173	0.00101	0.00292	8E-04	0.002	0.0017	0.00173	6.27E-03	3.20E-03	1.05E-07	1.03E-04	2.44E-04	1.92E-04	1.20E-02	1.18E-02	1.02E-02
5074	488363.09	3863877.25	0.00093	0.0018	0.00097	0.00328	6E-04	0.002	0.0018	0.0018	6.48E-03	3.32E-03	1.01E-07	1.15E-04	1.82E-04	1.90E-04	1.24E-02	1.22E-02	1.05E-02
5075	488863.09	3863877.25	0.00098	0.00188	0.00091	0.00415	5E-04	0.002	0.0018	0.00188	6.83E-03	3.47E-03	9.47E-08	1.46E-04	1.63E-04	1.90E-04	1.29E-02	1.28E-02	1.09E-02
5076	489363.09	3863877.25	0.00109	0.00195	0.00099	0.0034	7E-04	0.002	0.0019	0.00195	7.60E-03	3.60E-03	1.03E-07	1.20E-04	2.04E-04	1.99E-04	1.34E-02	1.33E-02	1.19E-02
5077	489863.09	3863877.25	0.00127	0.00203	0.00094	0.0034	6E-04	0.002	0.002	0.00203	8.85E-03	3.75E-03	9.79E-08	1.20E-04	1.79E-04	2.09E-04	1.39E-02	1.38E-02	1.32E-02
5078	490363.09	3863877.25	0.00141	0.0021	0.0009	0.00341	5E-04	0.002	0.002	0.0021	9.83E-03	3.88E-03	9.37E-08	1.20E-04	1.66E-04	2.15E-04	1.45E-02	1.43E-02	1.44E-02
5079	490863.09	3863877.25	0.00147	0.00216	0.00086	0.00338	1E-03	0.002	0.0021	0.00216	1.02E-02	3.99E-03	8.95E-08	1.19E-04	2.98E-04	2.11E-04	1.51E-02	1.47E-02	1.53E-02
5080	491363.09	3863877.25	0.0014	0.00222	0.00083	0.00327	0.002	0.002	0.0022	0.00222	9.76E-03	4.10E-03	8.64E-08	1.15E-04	4.76E-04	2.03E-04	1.57E-02	1.51E-02	1.52E-02
5081	491863.09	3863877.25	0.00132	0.00218	0.00099	0.00316	0.002	0.002	0.0022	0.00218	9.20E-03	4.03E-03	1.03E-07	1.11E-04	5.64E-04	2.07E-04	1.56E-02	1.48E-02	1.49E-02
5082	492363.09	3863877.25	0.0013	0.00194	0.001	0.00294	0.002	0.002	0.002	0.00194	9.06E-03	3.58E-03	1.04E-07	1.03E-04	5.64E-04	2.02E-04	1.40E-02	1.32E-02	1.43E-02
5083	492863.09	3863877.25	0.00131	0.00173	0.00093	0.00272	0.002	0.002	0.0018	0.00173	9.13E-03	3.20E-03	9.68E-08	9.57E-05	5.17E-04	1.96E-04	1.24E-02	1.18E-02	1.38E-02
5084	493363.09	3863877.25	0.00133	0.00181	0.00098	0.00265	0.001	0.002	0.0018	0.00181	9.27E-03	3.34E-03	1.02E-07	9.33E-05	4.23E-04	1.96E-04	1.25E-02	1.23E-02	1.35E-02
5085	493863.09	3863877.25	0.00135	0.00196	0.00098	0.00258	0.001	0.002	0.0019	0.00196	9.41E-03	3.62E-03	1.02E-07	9.08E-05	3.38E-04	1.91E-04	1.35E-02	1.33E-02	1.38E-02
5086	494363.09	3863877.25	0.00135	0.0021	0.00098	0.00257	0.001	0.002	0.0021	0.0021	9.41E-03	3.88E-03	1.02E-07	9.05E-05	3.23E-04	1.91E-04	1.50E-02	1.43E-02	1.46E-02
5087	494863.09	3863877.25	0.00134	0.00215	0.00095	0.00256	0.001	0.002	0.0022	0.00215	9.34E-03	3.97E-03	9.89E-08	9.01E-05	3.60E-04	1.94E-04	1.54E-02	1.46E-02	1.47E-02
5088	495363.09	3863877.25	0.00134	0.00223	0.00089	0.00247	0.001	0.002	0.0022	0.00223	9.34E-03	4.12E-03	9.27E-08	8.69E-05	3.79E-04	1.93E-04	1.57E-02	1.52E-02	1.47E-02
5089	495863.09	3863877.25	0.00136	0.00226	0.00087	0.00236	0.001	0.002	0.0022	0.00226	9.48E-03	4.17E-03	9.06E-08	8.31E-05	3.63E-04	1.90E-04	1.57E-02	1.54E-02	1.47E-02
5090	496363.09	3863877.25	0.00135	0.00256	0.00093	0.0023	0.001	0.002	0.0025	0.00256	9.41E-03	4.73E-03	9.68E-08	8.10E-05	3.42E-04	1.90E-04	1.78E-02	1.74E-02	1.51E-02
5091	496863.09	3863877.25	0.00134	0.00288	0.00097	0.00226	0.001	0.002	0.0028	0.00288	9.34E-03	5.32E-03	1.01E-07	7.95E-05	3.48E-04	1.87E-04	2.01E-02	1.96E-02	1.58E-02
5092	497363.09	3863877.25	0.00133	0.00296	0.00098	0.00222	0.001	0.002	0.0029	0.00296	9.27E-03	5.47E-03	1.02E-07	7.81E-05	3.70E-04	1.84E-04	2.08E-02	2.01E-02	1.60E-02
5093	497863.09	3863877.25	0.00131	0.00291	0.00097	0.00216	0.001	0.002	0.0029	0.00291	9.13E-03	5.37E-03	1.01E-07	7.60E-05	3.98E-04	1.80E-04	2.05E-02	1.98E-02	1.59E-02
5094	498363.09	3863877.25	0.00128	0.00282	0.00093	0.00206	0.001	0.002	0.0028	0.00282	8.92E-03	5.21E-03	9.68E-08	7.25E-05	4.14E-04	1.76E-04	2.00E-02	1.92E-02	1.56E-02
5095	471363.09	3864377.25	0.00101	0.00081	0.00059	0.00086	0.001	0.001	0.0008	0.00081	7.04E-03	1.50E-03	6.14E-08	3.03E-05	3.51E-04	9.78E-05	5.60E-03	5.51E-03	9.11E-03
5096	471863.09	3864377.25	0.00102	0.00082	0.00063	0.00088	0.001	0.001	0.0008	0.00082	7.11E-03	1.51E-03	6.56E-08	3.10E-05	3.51E-04	1.01E-04	5.67E-03	5.58E-03	9.20E-03
5097	472363.09	3864377.25	0.00104	0.00084	0.00064	0.00091	0.001	0.001	0.0008	0.00084	7.25E-03	1.55E-03	6.66E-08	3.20E-05	3.45E-04	1.02E-04	5.81E-03	5.71E-03	9.38E-03
5098	472863.09	3864377.25	0.00106	0.00085	0.00065	0.00093	0.001	0.001	0.0008	0.00085	7.39E-03	1.57E-03	6.77E-08	3.27E-05	3.38E-04	1.05E-04	5.88E-03	5.78E-03	9.54E-03
5099	473363.09	3864377.25	0.00106	0.00087	0.00065	0.00096	0.001	0.001	0.0008	0.00087	7.39E-03	1.61E-03	6.77E-08	3.38E-05	3.29E-04	1.07E-04	5.95E-03	5.92E-03	9.50E-03
5100	473863.09	3864377.25	0.00107	0.00088	0.00067	0.00099	0.001	0.001	0.0009	0.00088	7.46E-03	1.63E-03	6.98E-08	3.48E-05	3.26E-04	1.10E-04	6.09E-03	5.98E-03	9.67E-03

5101	474363.09	3864377.25	0.00108	0.00089	0.00069	0.00102	0.001	0.001	0.0009	0.00089	7.53E-03	1.64E-03	7.18E-08	3.59E-05	3.32E-04	1.12E-04	6.16E-03	6.05E-03	9.77E-03
5102	474863.09	3864377.25	0.00107	0.00091	0.00071	0.00106	0.001	0.001	0.0009	0.00091	7.46E-03	1.68E-03	7.39E-08	3.73E-05	3.45E-04	1.14E-04	6.24E-03	6.19E-03	9.68E-03
5103	475363.09	3864377.25	0.00108	0.00092	0.00073	0.00109	0.001	0.001	0.0009	0.00092	7.53E-03	1.70E-03	7.60E-08	3.84E-05	3.67E-04	1.17E-04	6.38E-03	6.26E-03	9.87E-03
5104	475863.09	3864377.25	0.00108	0.00094	0.00074	0.00112	0.001	0.001	0.0009	0.00094	7.53E-03	1.74E-03	7.70E-08	3.94E-05	3.89E-04	1.19E-04	6.45E-03	6.39E-03	9.87E-03
5105	476363.09	3864377.25	0.00109	0.00096	0.00076	0.00115	0.001	0.001	0.0009	0.00096	7.60E-03	1.77E-03	7.91E-08	4.05E-05	4.10E-04	1.23E-04	6.59E-03	6.53E-03	1.00E-02
5106	476863.09	3864377.25	0.00111	0.00097	0.0008	0.00117	0.001	0.001	0.0009	0.00097	7.74E-03	1.79E-03	8.33E-08	4.12E-05	4.29E-04	1.27E-04	6.66E-03	6.60E-03	1.02E-02
5107	477363.09	3864377.25	0.00112	0.001	0.00084	0.00119	0.001	0.001	0.001	0.001	7.81E-03	1.85E-03	8.74E-08	4.19E-05	4.32E-04	1.31E-04	6.80E-03	6.80E-03	1.03E-02
5108	477863.09	3864377.25	0.00114	0.00101	0.00084	0.00121	0.001	0.001	0.001	0.00101	7.95E-03	1.87E-03	8.74E-08	4.26E-05	4.32E-04	1.34E-04	6.94E-03	6.87E-03	1.05E-02
5109	478363.09	3864377.25	0.00115	0.00103	0.00085	0.00125	0.001	0.001	0.001	0.00103	8.02E-03	1.90E-03	8.85E-08	4.40E-05	4.32E-04	1.37E-04	7.09E-03	7.00E-03	1.06E-02
5110	478863.09	3864377.25	0.00116	0.00105	0.00089	0.00129	0.001	0.001	0.001	0.00105	8.09E-03	1.94E-03	9.27E-08	4.54E-05	4.39E-04	1.40E-04	7.16E-03	7.14E-03	1.07E-02
5111	479363.09	3864377.25	0.00116	0.00107	0.00093	0.00133	0.001	0.002	0.001	0.00107	8.09E-03	1.98E-03	9.68E-08	4.68E-05	4.36E-04	1.42E-04	7.30E-03	7.28E-03	1.07E-02
5112	479863.09	3864377.25	0.00115	0.00109	0.00096	0.00138	0.001	0.002	0.0011	0.00109	8.02E-03	2.01E-03	9.99E-08	4.86E-05	4.14E-04	1.44E-04	7.44E-03	7.41E-03	1.07E-02
5113	480363.09	3864377.25	0.00113	0.00111	0.00096	0.00144	0.001	0.002	0.0011	0.00111	7.88E-03	2.05E-03	9.99E-08	5.07E-05	3.76E-04	1.46E-04	7.58E-03	7.55E-03	1.05E-02
5114	480863.09	3864377.25	0.0011	0.00113	0.00089	0.00147	0.001	0.002	0.0011	0.00113	7.67E-03	2.09E-03	9.27E-08	5.17E-05	3.32E-04	1.47E-04	7.79E-03	7.68E-03	1.04E-02
5115	481363.09	3864377.25	0.00108	0.00116	0.00084	0.0015	1E-03	0.002	0.0011	0.00116	7.53E-03	2.14E-03	8.74E-08	5.28E-05	3.01E-04	1.50E-04	8.01E-03	7.89E-03	1.03E-02
5116	481863.09	3864377.25	0.00109	0.00119	0.00088	0.00153	9E-04	0.002	0.0012	0.00119	7.60E-03	2.20E-03	9.16E-08	5.39E-05	2.91E-04	1.55E-04	8.15E-03	8.09E-03	1.04E-02
5117	482363.09	3864377.25	0.00109	0.00122	0.0009	0.00157	1E-03	0.002	0.0012	0.00122	7.60E-03	2.25E-03	9.37E-08	5.53E-05	3.10E-04	1.60E-04	8.36E-03	8.30E-03	1.04E-02
5118	482863.09	3864377.25	0.00108	0.00124	0.00091	0.00162	0.001	0.002	0.0012	0.00124	7.53E-03	2.29E-03	9.47E-08	5.70E-05	3.60E-04	1.64E-04	8.50E-03	8.43E-03	1.05E-02
5119	483363.09	3864377.25	0.00106	0.00126	0.00105	0.00166	0.001	0.002	0.0012	0.00126	7.39E-03	2.33E-03	1.09E-07	5.84E-05	4.07E-04	1.66E-04	8.71E-03	8.57E-03	1.05E-02
5120	483863.09	3864377.25	0.00102	0.00129	0.00111	0.00168	0.001	0.002	0.0013	0.00129	7.11E-03	2.38E-03	1.16E-07	5.91E-05	3.98E-04	1.67E-04	8.93E-03	8.77E-03	1.03E-02
5121	484363.09	3864377.25	0.00096	0.00131	0.00102	0.0017	0.001	0.002	0.0013	0.00131	6.69E-03	2.42E-03	1.06E-07	5.98E-05	3.26E-04	1.66E-04	9.14E-03	8.91E-03	9.90E-03
5122	484863.09	3864377.25	0.00091	0.00135	0.0009	0.00173	8E-04	0.002	0.0013	0.00135	6.34E-03	2.49E-03	9.37E-08	6.09E-05	2.54E-04	1.65E-04	9.35E-03	9.18E-03	9.49E-03
5123	485363.09	3864377.25	0.00089	0.00139	0.00086	0.00179	7E-04	0.002	0.0014	0.00139	6.20E-03	2.57E-03	8.95E-08	6.30E-05	2.32E-04	1.67E-04	9.64E-03	9.45E-03	9.42E-03
5124	485863.09	3864377.25	0.00086	0.00142	0.00079	0.0019	7E-04	0.002	0.0014	0.00142	6.00E-03	2.62E-03	8.22E-08	6.69E-05	2.07E-04	1.72E-04	9.92E-03	9.66E-03	9.33E-03
5125	486363.09	3864377.25	0.0008	0.00145	0.00095	0.002	7E-04	0.002	0.0014	0.00145	5.58E-03	2.68E-03	9.89E-08	7.04E-05	2.10E-04	1.68E-04	1.01E-02	9.86E-03	8.98E-03
5126	486863.09	3864377.25	0.00074	0.00149	0.00106	0.0021	0.001	0.002	0.0015	0.00149	5.16E-03	2.75E-03	1.10E-07	7.39E-05	3.23E-04	1.67E-04	1.04E-02	1.01E-02	8.76E-03
5127	487363.09	3864377.25	0.00072	0.00153	0.00095	0.0022	0.001	0.002	0.0015	0.00153	5.02E-03	2.83E-03	9.89E-08	7.74E-05	3.26E-04	1.67E-04	1.07E-02	1.04E-02	8.71E-03
5128	487863.09	3864377.25	0.00076	0.00157	0.00087	0.00232	7E-04	0.002	0.0016	0.00157	5.30E-03	2.90E-03	9.06E-08	8.17E-05	2.19E-04	1.70E-04	1.10E-02	1.07E-02	8.98E-03
5129	488363.09	3864377.25	0.00079	0.00163	0.00084	0.00241	5E-04	0.002	0.0016	0.00163	5.51E-03	3.01E-03	8.74E-08	8.48E-05	1.66E-04	1.64E-04	1.13E-02	1.11E-02	9.12E-03
5130	488863.09	3864377.25	0.00083	0.00167	0.00085	0.00247	5E-04	0.002	0.0016	0.00167	5.79E-03	3.08E-03	8.85E-08	8.69E-05	1.41E-04	1.64E-04	1.15E-02	1.14E-02	9.46E-03
5131	489363.09	3864377.25	0.0009	0.00172	0.00091	0.00212	6E-04	0.002	0.0017	0.00172	6.27E-03	3.18E-03	9.47E-08	7.46E-05	1.79E-04	1.69E-04	1.18E-02	1.17E-02	1.00E-02
5132	489863.09	3864377.25	0.00104	0.00176	0.00081	0.00208	6E-04	0.002	0.0017	0.00176	7.25E-03	3.25E-03	8.43E-08	7.32E-05	1.79E-04	1.76E-04	1.21E-02	1.20E-02	1.11E-02
5133	490363.09	3864377.25	0.0012	0.00181	0.0008	0.00215	4E-04	0.002	0.0018	0.00181	8.37E-03	3.34E-03	8.33E-08	7.57E-05	1.35E-04	1.83E-04	1.25E-02	1.23E-02	1.23E-02
5134	490863.09	3864377.25	0.00132	0.00186	0.00081	0.00219	6E-04	0.002	0.0018	0.00186	9.20E-03	3.44E-03	8.43E-08	7.71E-05	1.97E-04	1.89E-04	1.28E-02	1.26E-02	1.33E-02
5135	491363.09	3864377.25	0.00139	0.00176	0.00078	0.00217	0.001	0.002	0.0017	0.00176	9.69E-03	3.25E-03	8.12E-08	7.64E-05	3.70E-04	1.92E-04	1.23E-02	1.20E-02	1.39E-02
5136	491863.09	3864377.25	0.0013	0.00102	0.00056	0.00139	0.001	0.001	0.0011	0.00102	9.06E-03	1.88E-03	5.83E-08	4.89E-05	3.95E-04	1.25E-04	7.72E-03	6.94E-03	1.23E-02
5137	492363.09	3864377.25	0.00127	0.00129	0.00082	0.00182	0.002	0.002	0.0014	0.00129	8.85E-03	2.38E-03	8.54E-08	6.41E-05	5.45E-04	1.57E-04	9.64E-03	8.77E-03	1.29E-02
5138	492863.09	3864377.25	0.00113	0.00106	0.00059	0.00151	0.001	0.001	0.0011	0.00106	7.88E-03	1.96E-03	6.14E-08	5.31E-05	4.17E-04	1.28E-04	8.01E-03	7.21E-03	1.12E-02
5139	493363.09	3864377.25	0.00118	0.00124	0.00077	0.0018	0.001	0.002	0.0013	0.00124	8.23E-03	2.29E-03	8.02E-08	6.34E-05	4.54E-04	1.48E-04	8.86E-03	8.43E-03	1.16E-02
5140	493863.09	3864377.25	0.00118	0.00145	0.00083	0.00196	0.001	0.002	0.0014	0.00145	8.23E-03	2.68E-03	8.64E-08	6.90E-05	3.57E-04	1.61E-04	9.92E-03	9.86E-03	1.16E-02
5141	494363.09	3864377.25	0.00118	0.0016	0.00086	0.00198	1E-03	0.002	0.0016	0.0016	8.23E-03	2.96E-03	8.95E-08	6.97E-05	2.98E-04	1.63E-04	1.10E-02	1.09E-02	1.18E-02
5142	494863.09	3864377.25	0.00118	0.00171	0.00088	0.00203	9E-04	0.002	0.0017	0.00171	8.23E-03	3.16E-03	9.16E-08	7.14E-05	2.88E-04	1.64E-04	1.21E-02	1.16E-02	1.24E-02
5143	495363.09	3864377.25	0.00118	0.00171	0.00086	0.00209	0.001	0.002	0.0017	0.00171	8.23E-03	3.16E-03	8.95E-08	7.36E-05	3.23E-04	1.67E-04	1.23E-02	1.16E-02	1.26E-02
5144	495863.09	3864377.25	0.00118	0.00173	0.0008	0.00205	0.001	0.002	0.0017	0.00173	8.23E-03	3.20E-03	8.33E-08	7.22E-05	3.45E-04	1.67E-04	1.23E-02	1.18E-02	1.25E-02
5145	496363.09	3864377.25	0.00118	0.00183	0.00077	0.00197	0.001	0.002	0.0018	0.00183	8.23E-03	3.38E-03	8.02E-08	6.93E-05	3.29E-04	1.65E-04	1.28E-02	1.24E-02	1.25E-02
5146	496863.09	3864377.25	0.00119	0.00188	0.0008	0.00191	1E-03	0.002	0.0018	0.00188	8.30E-03	3.47E-03	8.33E-08	6.72E-05	3.10E-04	1.64E-04	1.30E-02	1.28E-02	1.26E-02
5147	497363.09	3864377.25	0.00119	0.00205	0.00085	0.00189	1E-03	0.002	0.002	0.00205	8.30E-03	3.79E-03	8.85E-08	6.65E-05	3.07E-04	1.64E-04	1.42E-02	1.39E-02	1.29E-02
5148	497863.09	3864377.25	0.00121	0.00208	0.00091	0.00191	0.001	0.002	0.0021	0.00208	8.44E-03	3.84E-03	9.47E-08	6.72E-05	3.32E-04	1.64E-04	1.45E-02	1.41E-02	1.32E-02
5149	498363.09	3864377.25	0.00118	0.0022	0.00089	0.00187	0.001	0.002	0.0022	0.0022	8.23E-03	4.06E-03	9.27E-08	6.58E-05	3.51E-04	1.60E-04	1.54E-02	1.50E-02	1.33E-02
5150	471363.09	3864877.25	0.00096	0.00079	0.00059	0.00084	0.001	0.001	0.0008	0.00079	6.69E-03	1.46E-03	6.14E-08	2.96E-05	3.16E-04	9.49E-05	5.46E-03	5.37E-03	8.68E-03
5151	471863.09	3864877.25	0.00097	0.0008	0.0006	0.00087	1E-03	0.001	0.0008	0.0008	6.76E-03	1.48E-03	6.25E-08	3.06E-05	3.07E-04	9.78E-05	5.53E-03	5.44E-03	8.76E-03
5152	472363.09	3864877.25	0.00098	0.00081	0.0006	0.00089	1E-03	0.001	0.0008	0.00081	6.83E-03	1.50E-03	6.25E-08	3.13E-05	3.01E-04	9.87E-05	5.60E-03	5.51E-03	8.85E-03
5153	472863.09	3864877.25	0.00099	0.00082	0.00061	0.00092	1E-03	0.001	0.0008	0.00082	6.90E-03	1.51E-03	6.35E-08	3.24E-05	3.01E-04	1.01E-04	5.74E-03	5.58E-03	9.01E-03
5154	473363.09	3864877.25	0.00099	0.00084	0.00063	0.00095	1E-03	0.001	0.0008	0.00084	6.90E-03	1.55E-03	6.56E-08	3.34E-05	3.01E-04	1.02E-04	5.81E-03	5.71E-03	8.99E-03
5155	473863.09	3864877.25	0.00099	0.00085	0.00066	0.00097	0.001	0.001	0.0008	0.00085	6.90E-03	1.57E-03	6.87E-08	3.41E-05	3.13E-04	1.04E-04	5.88E-03	5.78E-03	9.02E-03
5156	474363.09	3864877.25	0.00099	0.00086	0.00068	0.001	0.001	0.001	0.0008	0.00086	6.90E-03	1.59E-03	7.08E-08	3.52E-05	3.29E-04	1.06E-04	5.95E-03	5.85E-03	9.06E-03
5157	474863.09	3864877.25	0.00099	0.00088	0.0007	0.00102	0.001	0.001	0.0009	0.00088	6.90E-03	1.63E-03	7.29E-08	3.59E-05	3.48E-04	1.08E-04	6.02E-03	5.98E-03	9.06E-03
5158	475363.09	3864877.25	0.00099	0.00089	0.00071	0.00104	0.001	0.001	0.0009	0.00089	6.90E-03	1.64E-03	7.39E-08	3.66E-05	3.67E-04	1.11E-04	6.16E-03	6.05E-03	9.17E-03

5159	475863.09	3864877.25	0.00099	0.00091	0.00072	0.00105	0.001	0.001	0.0009	0.00091	6.90E-03	1.68E-03	7.50E-08	3.70E-05	3.82E-04	1.15E-04	6.24E-04	6.19E-03	9.16E-03
5160	476363.09	3864877.25	0.00101	0.00092	0.00074	0.00107	0.001	0.001	0.0009	0.00092	7.04E-03	1.70E-03	7.70E-08	3.77E-05	3.95E-04	1.17E-04	6.38E-04	6.26E-03	9.41E-03
5161	476863.09	3864877.25	0.00103	0.00094	0.00077	0.0011	0.001	0.001	0.0009	0.00094	7.18E-03	1.74E-03	8.02E-08	3.87E-05	3.98E-04	1.21E-04	6.45E-03	6.39E-03	9.53E-03
5162	477363.09	3864877.25	0.00104	0.00095	0.00077	0.00112	0.001	0.001	0.0009	0.00095	7.25E-03	1.75E-03	8.02E-08	3.94E-05	3.92E-04	1.24E-04	6.52E-03	6.46E-03	9.62E-03
5163	477863.09	3864877.25	0.00105	0.00097	0.00077	0.00116	0.001	0.001	0.0009	0.00097	7.32E-03	1.79E-03	8.02E-08	4.08E-05	3.92E-04	1.26E-04	6.66E-03	6.60E-03	9.73E-03
5164	478363.09	3864877.25	0.00106	0.00098	0.00081	0.0012	0.001	0.001	0.001	0.00098	7.39E-03	1.81E-03	8.43E-08	4.22E-05	3.98E-04	1.28E-04	6.73E-03	6.66E-03	9.84E-03
5165	478863.09	3864877.25	0.00105	0.001	0.00085	0.00124	0.001	0.001	0.001	0.001	7.32E-03	1.85E-03	8.85E-08	4.36E-05	3.95E-04	1.29E-04	6.87E-03	6.80E-03	9.81E-03
5166	479363.09	3864877.25	0.00104	0.00102	0.00087	0.00127	0.001	0.001	0.001	0.00102	7.25E-03	1.88E-03	9.06E-08	4.47E-05	3.73E-04	1.31E-04	7.01E-03	6.94E-03	9.76E-03
5167	479863.09	3864877.25	0.00103	0.00103	0.00087	0.00131	0.001	0.001	0.001	0.00103	7.18E-03	1.90E-03	9.06E-08	4.61E-05	3.38E-04	1.33E-04	7.09E-03	7.00E-03	9.68E-03
5168	480363.09	3864877.25	0.00101	0.00105	0.00084	0.00134	1E-03	0.001	0.001	0.00105	7.04E-03	1.94E-03	8.74E-08	4.72E-05	3.01E-04	1.34E-04	7.23E-03	7.14E-03	9.55E-03
5169	480863.09	3864877.25	0.00098	0.00107	0.00077	0.00135	9E-04	0.001	0.0011	0.00107	6.83E-03	1.98E-03	8.02E-08	4.75E-05	2.73E-04	1.36E-04	7.44E-03	7.28E-03	9.43E-03
5170	481363.09	3864877.25	0.00096	0.0011	0.00075	0.00136	8E-04	0.001	0.0011	0.0011	6.69E-03	2.03E-03	7.81E-08	4.79E-05	2.63E-04	1.40E-04	7.58E-03	7.48E-03	9.28E-03
5171	481863.09	3864877.25	0.00096	0.00113	0.00081	0.0014	9E-04	0.002	0.0011	0.00113	6.69E-03	2.09E-03	8.43E-08	4.93E-05	2.73E-04	1.44E-04	7.79E-03	7.68E-03	9.36E-03
5172	482363.09	3864877.25	0.00096	0.00115	0.00085	0.00145	1E-03	0.002	0.0011	0.00115	6.69E-03	2.12E-03	8.85E-08	5.10E-05	3.07E-04	1.48E-04	7.94E-03	7.82E-03	9.44E-03
5173	482863.09	3864877.25	0.00095	0.00117	0.00092	0.00148	0.001	0.002	0.0011	0.00117	6.62E-03	2.16E-03	9.58E-08	5.21E-05	3.57E-04	1.49E-04	8.08E-03	7.96E-03	9.46E-03
5174	483363.09	3864877.25	0.00093	0.00119	0.00101	0.00149	0.001	0.002	0.0012	0.00119	6.48E-03	2.20E-03	1.05E-07	5.24E-05	3.73E-04	1.49E-04	8.22E-03	8.09E-03	9.38E-03
5175	483863.09	3864877.25	0.00088	0.00122	0.00099	0.0015	0.001	0.002	0.0012	0.00122	6.14E-03	2.25E-03	1.03E-07	5.28E-05	3.29E-04	1.49E-04	8.43E-03	8.30E-03	9.05E-03
5176	484363.09	3864877.25	0.00084	0.00124	0.00087	0.00153	8E-04	0.002	0.0012	0.00124	5.86E-03	2.29E-03	9.06E-08	5.39E-05	2.57E-04	1.49E-04	8.57E-03	8.43E-03	8.75E-03
5177	484863.09	3864877.25	0.0008	0.00126	0.0008	0.00156	7E-04	0.002	0.0012	0.00126	5.58E-03	2.33E-03	8.33E-08	5.49E-05	2.13E-04	1.49E-04	8.79E-03	8.57E-03	8.54E-03
5178	485363.09	3864877.25	0.00078	0.00129	0.00076	0.00163	7E-04	0.002	0.0013	0.00129	5.44E-03	2.38E-03	7.91E-08	5.74E-05	2.07E-04	1.53E-04	9.00E-03	8.77E-03	8.46E-03
5179	485863.09	3864877.25	0.00075	0.00132	0.00076	0.00169	6E-04	0.002	0.0013	0.00132	5.23E-03	2.44E-03	7.91E-08	5.95E-05	1.75E-04	1.55E-04	9.14E-03	8.98E-03	8.22E-03
5180	486363.09	3864877.25	0.0007	0.00133	0.00093	0.00175	7E-04	0.002	0.0013	0.00133	4.88E-03	2.46E-03	9.68E-08	6.16E-05	2.04E-04	1.51E-04	9.35E-03	9.04E-03	8.06E-03
5181	486863.09	3864877.25	0.00064	0.00135	0.00094	0.00182	0.001	0.002	0.0013	0.00135	4.46E-03	2.49E-03	9.79E-08	6.41E-05	3.13E-04	1.51E-04	9.49E-03	9.18E-03	7.80E-03
5182	487363.09	3864877.25	0.00063	0.00138	0.00081	0.0019	9E-04	0.002	0.0014	0.00138	4.39E-03	2.55E-03	8.43E-08	6.69E-05	2.95E-04	1.49E-04	9.71E-03	9.38E-03	7.78E-03
5183	487863.09	3864877.25	0.00065	0.00141	0.00077	0.00189	6E-04	0.002	0.0014	0.00141	4.53E-03	2.60E-03	8.02E-08	6.65E-05	2.01E-04	1.49E-04	9.92E-03	9.59E-03	7.88E-03
5184	488363.09	3864877.25	0.00068	0.00146	0.00072	0.00189	5E-04	0.002	0.0014	0.00146	4.74E-03	2.70E-03	7.50E-08	6.65E-05	1.54E-04	1.46E-04	1.01E-02	9.93E-03	8.01E-03
5185	488863.09	3864877.25	0.00071	0.0015	0.0008	0.00195	4E-04	0.002	0.0015	0.0015	4.95E-03	2.77E-03	8.33E-08	6.86E-05	1.25E-04	1.45E-04	1.03E-02	1.02E-02	8.20E-03
5186	489363.09	3864877.25	0.00077	0.00153	0.00085	0.00169	5E-04	0.002	0.0015	0.00153	5.37E-03	2.83E-03	8.85E-08	5.95E-05	1.54E-04	1.45E-04	1.05E-02	1.04E-02	8.63E-03
5187	489863.09	3864877.25	0.00087	0.00156	0.00073	0.00157	6E-04	0.002	0.0015	0.00156	6.07E-03	2.88E-03	7.60E-08	5.53E-05	1.72E-04	1.50E-04	1.07E-02	1.06E-02	9.42E-03
5188	490363.09	3864877.25	0.00102	0.00159	0.00071	0.00169	4E-04	0.002	0.0015	0.00159	7.11E-03	2.94E-03	7.39E-08	5.95E-05	1.28E-04	1.59E-04	1.09E-02	1.08E-02	1.05E-02
5189	490863.09	3864877.25	0.00127	0.00138	0.00074	0.00158	5E-04	0.002	0.0013	0.00138	8.85E-03	2.55E-03	7.70E-08	5.56E-05	1.47E-04	1.68E-04	9.42E-03	9.38E-03	1.18E-02
5190	491363.09	3864877.25	0.00128	0.00156	0.00074	0.00171	8E-04	0.002	0.0015	0.00156	8.92E-03	2.88E-03	7.70E-08	6.02E-05	2.60E-04	1.79E-04	1.08E-02	1.06E-02	1.25E-02
5191	491863.09	3864877.25	0.0013	0.00134	0.00062	0.00157	0.001	0.002	0.0013	0.00134	9.06E-03	2.47E-03	6.45E-08	5.53E-05	4.17E-04	1.61E-04	9.49E-03	9.11E-03	1.26E-02
5192	492363.09	3864877.25	0.0009	0.00082	0.00049	0.00099	8E-04	0.001	0.0009	0.00082	6.27E-03	1.51E-03	5.10E-08	3.48E-05	2.35E-04	9.59E-05	6.16E-03	5.58E-03	8.74E-03
5193	492863.09	3864877.25	0.00096	0.00088	0.0005	0.00111	0.001	0.001	0.0009	0.00088	6.69E-03	1.63E-03	5.21E-08	3.91E-05	3.13E-04	1.03E-04	6.66E-03	5.98E-03	9.45E-03
5194	493363.09	3864877.25	0.00089	0.00086	0.0005	0.00109	1E-03	0.001	0.0009	0.00086	6.20E-03	1.59E-03	5.21E-08	3.84E-05	3.04E-04	9.78E-05	6.38E-03	5.85E-03	8.76E-03
5195	493863.09	3864877.25	0.00104	0.00113	0.00072	0.00156	0.001	0.001	0.0011	0.00113	7.25E-03	2.09E-03	7.50E-08	5.49E-05	3.98E-04	1.35E-04	8.08E-03	7.68E-03	1.03E-02
5196	494363.09	3864877.25	0.00103	0.00131	0.00075	0.00166	1E-03	0.002	0.0013	0.00131	7.18E-03	2.42E-03	7.81E-08	5.84E-05	3.10E-04	1.45E-04	9.00E-03	8.91E-03	1.02E-02
5197	494863.09	3864877.25	0.00104	0.00138	0.00079	0.00162	8E-04	0.002	0.0013	0.00138	7.25E-03	2.55E-03	8.22E-08	5.70E-05	2.63E-04	1.43E-04	9.35E-03	9.38E-03	1.02E-02
5198	495363.09	3864877.25	0.00104	0.00141	0.0008	0.00166	8E-04	0.002	0.0014	0.00141	7.25E-03	2.60E-03	8.33E-08	5.84E-05	2.57E-04	1.45E-04	9.92E-03	9.59E-03	1.06E-02
5199	495863.09	3864877.25	0.00103	0.0015	0.00079	0.00175	9E-04	0.002	0.0015	0.0015	7.18E-03	2.77E-03	8.22E-08	6.16E-05	2.88E-04	1.49E-04	1.07E-02	1.02E-02	1.09E-02
5200	496363.09	3864877.25	0.00105	0.00143	0.00073	0.00172	0.001	0.002	0.0014	0.00143	7.32E-03	2.64E-03	7.60E-08	6.05E-05	3.13E-04	1.49E-04	1.02E-02	9.72E-03	1.10E-02
5201	496863.09	3864877.25	0.00106	0.00146	0.00068	0.00166	1E-03	0.002	0.0014	0.00146	7.39E-03	2.70E-03	7.08E-08	5.84E-05	3.04E-04	1.46E-04	1.02E-02	9.93E-03	1.09E-02
5202	497363.09	3864877.25	0.00106	0.00151	0.0007	0.00162	9E-04	0.002	0.0015	0.00151	7.39E-03	2.79E-03	7.29E-08	5.70E-05	2.82E-04	1.45E-04	1.05E-02	1.03E-02	1.09E-02
5203	497863.09	3864877.25	0.00108	0.00157	0.00075	0.00161	9E-04	0.002	0.0015	0.00157	7.53E-03	2.90E-03	7.81E-08	5.67E-05	2.76E-04	1.45E-04	1.08E-02	1.07E-02	1.11E-02
5204	498363.09	3864877.25	0.00107	0.0017	0.00079	0.00162	9E-04	0.002	0.0017	0.0017	7.46E-03	3.14E-03	8.22E-08	5.70E-05	2.88E-04	1.45E-04	1.18E-02	1.16E-02	1.13E-02
5205	471363.09	3865377.25	0.00091	0.00076	0.00057	0.00084	9E-04	1E-03	0.0008	0.00076	6.34E-03	1.40E-03	5.93E-08	2.96E-05	2.76E-04	9.21E-05	5.31E-03	5.17E-03	8.29E-03
5206	471863.09	3865377.25	0.00091	0.00077	0.00057	0.00086	9E-04	1E-03	0.0008	0.00077	6.34E-03	1.42E-03	5.93E-08	3.03E-05	2.73E-04	9.31E-05	5.38E-03	5.24E-03	8.31E-03
5207	472363.09	3865377.25	0.00092	0.00079	0.00058	0.00088	9E-04	0.001	0.0008	0.00079	6.41E-03	1.46E-03	6.04E-08	3.10E-05	2.79E-04	9.40E-05	5.46E-03	5.37E-03	8.36E-03
5208	472863.09	3865377.25	0.00093	0.0008	0.0006	0.0009	9E-04	0.001	0.0008	0.0008	6.48E-03	1.48E-03	6.25E-08	3.17E-05	2.88E-04	9.59E-05	5.53E-03	5.44E-03	8.46E-03
5209	473363.09	3865377.25	0.00092	0.00081	0.00064	0.00092	1E-03	0.001	0.0008	0.00081	6.41E-03	1.50E-03	6.66E-08	3.24E-05	2.98E-04	9.68E-05	5.60E-03	5.51E-03	8.43E-03
5210	473863.09	3865377.25	0.00092	0.00082	0.00065	0.00094	0.001	0.001	0.0008	0.00082	6.41E-03	1.51E-03	6.77E-08	3.31E-05	3.13E-04	9.96E-05	5.67E-03	5.58E-03	8.47E-03
5211	474363.09	3865377.25	0.00092	0.00083	0.00066	0.00095	0.001	0.001	0.0008	0.00083	6.41E-03	1.53E-03	6.87E-08	3.34E-05	3.32E-04	1.02E-04	5.74E-03	5.64E-03	8.51E-03
5212	474863.09	3865377.25	0.00092	0.00085	0.00067	0.00096	0.001	0.001	0.0008	0.00085	6.41E-03	1.57E-03	6.98E-08	3.38E-05	3.48E-04	1.03E-04	5.81E-03	5.78E-03	8.50E-03
5213	475363.09	3865377.25	0.00092	0.00086	0.00067	0.00097	0.001	0.001	0.0008	0.00086	6.41E-03	1.59E-03	6.98E-08	3.41E-05	3.57E-04	1.06E-04	5.95E-03	5.85E-03	8.60E-03
5214	475863.09	3865377.25	0.00093	0.00088	0.00068	0.00099	0.001	0.001	0.0009	0.00088	6.48E-03	1.63E-03	7.08E-08	3.48E-05	3.63E-04	1.09E-04	6.02E-03	5.98E-03	8.66E-03
5215	476363.09	3865377.25	0.00096	0.00089	0.0007	0.00103	0.001	0.001	0.0009	0.00089	6.69E-03	1.64E-03	7.29E-08	3.63E-05	3.70E-04	1.11E-04	6.09E-03	6.05E-03	8.90E-03
5216	476863.09	3865377.25	0.00102	0.00086	0.00066	0.00104	0.001	0.001	0.0009	0.00086	7.11E-03	1.59E-03	6.87E-08	3.66E-05	3.63E-04	1.10E-04	6.02E-03	5.85E-03	9.38E-03

5217	477363.09	3865377.25	0.00099	0.00092	0.0007	0.0011	0.001	0.001	0.0009	0.00092	6.90E-03	1.70E-03	7.29E-08	3.87E-05	3.67E-04	1.16E-04	6.38E-03	6.26E-03	9.24E-03
5218	477863.09	3865377.25	0.00097	0.00093	0.00074	0.00112	0.001	0.001	0.0009	0.00093	6.76E-03	1.72E-03	7.70E-08	3.94E-05	3.67E-04	1.17E-04	6.45E-03	6.32E-03	9.13E-03
5219	478363.09	3865377.25	0.00097	0.00095	0.00079	0.00115	0.001	0.001	0.0009	0.00095	6.76E-03	1.75E-03	8.22E-08	4.05E-05	3.63E-04	1.19E-04	6.52E-03	6.46E-03	9.10E-03
5220	478863.09	3865377.25	0.00096	0.00096	0.00081	0.00118	0.001	0.001	0.0009	0.00096	6.69E-03	1.77E-03	8.43E-08	4.15E-05	3.38E-04	1.21E-04	6.66E-03	6.53E-03	9.10E-03
5221	479363.09	3865377.25	0.00094	0.00098	0.00079	0.0012	1E-03	0.001	0.001	0.00098	6.55E-03	1.81E-03	8.22E-08	4.22E-05	3.04E-04	1.23E-04	6.73E-03	6.66E-03	8.90E-03
5222	479863.09	3865377.25	0.00093	0.00099	0.00078	0.00122	9E-04	0.001	0.001	0.00099	6.48E-03	1.83E-03	8.12E-08	4.29E-05	2.73E-04	1.24E-04	6.87E-03	6.73E-03	8.89E-03
5223	480363.09	3865377.25	0.00089	0.001	0.00073	0.00123	8E-04	0.001	0.001	0.001	6.20E-03	1.85E-03	7.60E-08	4.33E-05	2.48E-04	1.25E-04	6.94E-03	6.80E-03	8.61E-03
5224	480863.09	3865377.25	0.00087	0.00102	0.00068	0.00124	8E-04	0.001	0.001	0.00102	6.07E-03	1.88E-03	7.08E-08	4.36E-05	2.38E-04	1.26E-04	7.09E-03	6.94E-03	8.51E-03
5225	481363.09	3865377.25	0.00086	0.00105	0.0007	0.00126	8E-04	0.001	0.001	0.00105	6.00E-03	1.94E-03	7.29E-08	4.43E-05	2.41E-04	1.30E-04	7.23E-03	7.14E-03	8.44E-03
5226	481863.09	3865377.25	0.00085	0.00107	0.00078	0.00131	9E-04	0.001	0.001	0.00107	5.93E-03	1.98E-03	8.12E-08	4.61E-05	2.66E-04	1.33E-04	7.37E-03	7.28E-03	8.44E-03
5227	482363.09	3865377.25	0.00085	0.00108	0.00085	0.00134	1E-03	0.001	0.0011	0.00108	5.93E-03	1.99E-03	8.85E-08	4.72E-05	3.07E-04	1.33E-04	7.44E-03	7.34E-03	8.50E-03
5228	482863.09	3865377.25	0.00084	0.0011	0.00089	0.00134	0.001	0.001	0.0011	0.0011	5.86E-03	2.03E-03	9.27E-08	4.72E-05	3.38E-04	1.34E-04	7.58E-03	7.48E-03	8.51E-03
5229	483363.09	3865377.25	0.00082	0.00112	0.00091	0.00134	0.001	0.001	0.0011	0.00112	5.72E-03	2.07E-03	9.47E-08	4.72E-05	3.26E-04	1.34E-04	7.72E-03	7.62E-03	8.40E-03
5230	483863.09	3865377.25	0.00078	0.00113	0.00087	0.00136	9E-04	0.001	0.0011	0.00113	5.44E-03	2.09E-03	9.06E-08	4.79E-05	2.66E-04	1.35E-04	7.86E-03	7.68E-03	8.16E-03
5231	484363.09	3865377.25	0.00075	0.00115	0.00076	0.00138	7E-04	0.001	0.0011	0.00115	5.23E-03	2.12E-03	7.91E-08	4.86E-05	2.07E-04	1.36E-04	8.01E-03	7.82E-03	7.93E-03
5232	484863.09	3865377.25	0.00072	0.00117	0.00072	0.00142	6E-04	0.001	0.0012	0.00117	5.02E-03	2.16E-03	7.50E-08	5.00E-05	1.91E-04	1.38E-04	8.15E-03	7.96E-03	7.75E-03
5233	485363.09	3865377.25	0.00069	0.00119	0.00071	0.00147	6E-04	0.001	0.0012	0.00119	4.81E-03	2.20E-03	7.39E-08	5.17E-05	1.85E-04	1.40E-04	8.29E-03	8.09E-03	7.58E-03
5234	485863.09	3865377.25	0.00066	0.00121	0.00076	0.00152	5E-04	0.001	0.0012	0.00121	4.60E-03	2.23E-03	7.91E-08	5.35E-05	1.54E-04	1.40E-04	8.43E-03	8.23E-03	7.39E-03
5235	486363.09	3865377.25	0.00062	0.00123	0.00086	0.00159	6E-04	0.001	0.0012	0.00123	4.32E-03	2.27E-03	8.95E-08	5.60E-05	2.01E-04	1.37E-04	8.57E-03	8.36E-03	7.20E-03
5236	486863.09	3865377.25	0.00057	0.00124	0.00083	0.00162	1E-03	0.001	0.0012	0.00124	3.97E-03	2.29E-03	8.64E-08	5.70E-05	3.04E-04	1.37E-04	8.71E-03	8.43E-03	7.05E-03
5237	487363.09	3865377.25	0.00056	0.00126	0.00072	0.00163	9E-04	0.001	0.0013	0.00126	3.90E-03	2.33E-03	7.50E-08	5.74E-05	2.69E-04	1.34E-04	8.86E-03	8.57E-03	6.98E-03
5238	487863.09	3865377.25	0.00057	0.00128	0.00069	0.00161	6E-04	0.001	0.0013	0.00128	3.97E-03	2.36E-03	7.18E-08	5.67E-05	1.82E-04	1.34E-04	9.00E-03	8.70E-03	7.01E-03
5239	488363.09	3865377.25	0.00058	0.00131	0.00063	0.00154	5E-04	0.001	0.0013	0.00131	4.04E-03	2.42E-03	6.56E-08	5.42E-05	1.44E-04	1.30E-04	9.14E-03	8.91E-03	7.02E-03
5240	488863.09	3865377.25	0.00061	0.00135	0.00075	0.00169	4E-04	0.001	0.0013	0.00135	4.25E-03	2.49E-03	7.81E-08	5.95E-05	1.13E-04	1.28E-04	9.35E-03	9.18E-03	7.22E-03
5241	489363.09	3865377.25	0.00066	0.00139	0.0008	0.00144	4E-04	0.001	0.0014	0.00139	4.60E-03	2.57E-03	8.33E-08	5.07E-05	1.32E-04	1.28E-04	9.57E-03	9.45E-03	7.59E-03
5242	489863.09	3865377.25	0.00075	0.00141	0.00069	0.00131	5E-04	0.001	0.0014	0.00141	5.23E-03	2.60E-03	7.18E-08	4.61E-05	1.63E-04	1.33E-04	9.71E-03	9.59E-03	8.29E-03
5243	490363.09	3865377.25	0.00093	0.00127	0.00059	0.00132	4E-04	0.001	0.0012	0.00127	6.48E-03	2.35E-03	6.14E-08	4.65E-05	1.38E-04	1.39E-04	8.71E-03	8.64E-03	9.23E-03
5244	490863.09	3865377.25	0.00109	0.00123	0.00063	0.00133	4E-04	0.002	0.0012	0.00123	7.60E-03	2.27E-03	6.56E-08	4.68E-05	1.16E-04	1.49E-04	8.36E-03	8.36E-03	1.02E-02
5245	491363.09	3865377.25	0.00121	0.00121	0.00068	0.00129	6E-04	0.002	0.0012	0.00121	8.44E-03	2.23E-03	7.08E-08	4.54E-05	1.82E-04	1.52E-04	8.22E-03	8.23E-03	1.10E-02
5246	491863.09	3865377.25	0.00123	0.00121	0.00056	0.00133	1E-03	0.002	0.0012	0.00121	8.58E-03	2.23E-03	5.83E-08	4.68E-05	3.10E-04	1.50E-04	8.43E-03	8.23E-03	1.15E-02
5247	492363.09	3865377.25	0.00119	0.00102	0.00055	0.00122	0.001	0.001	0.0011	0.00102	8.30E-03	1.88E-03	5.73E-08	4.29E-05	4.26E-04	1.24E-04	7.44E-03	6.94E-03	1.13E-02
5248	492863.09	3865377.25	0.00101	0.00086	0.00055	0.00107	0.001	0.001	0.0009	0.00086	7.04E-03	1.59E-03	5.73E-08	3.77E-05	3.79E-04	1.03E-04	6.52E-03	5.85E-03	9.82E-03
5249	493363.09	3865377.25	0.00082	0.00078	0.00045	0.00097	9E-04	9E-04	0.0008	0.00078	5.72E-03	1.44E-03	4.68E-08	3.41E-05	2.76E-04	8.84E-05	5.88E-03	5.30E-03	8.13E-03
5250	493863.09	3865377.25	0.00089	0.00088	0.00055	0.0012	0.001	0.001	0.0009	0.00088	6.20E-03	1.63E-03	5.73E-08	4.22E-05	3.67E-04	1.08E-04	6.59E-03	5.98E-03	8.95E-03
5251	494363.09	3865377.25	0.00092	0.00102	0.00066	0.00138	0.001	0.001	0.001	0.00102	6.41E-03	1.88E-03	6.87E-08	4.86E-05	3.48E-04	1.23E-04	7.23E-03	6.94E-03	9.11E-03
5252	494863.09	3865377.25	0.00092	0.00113	0.00068	0.00141	9E-04	0.001	0.0011	0.00113	6.41E-03	2.09E-03	7.08E-08	4.96E-05	2.69E-04	1.28E-04	7.72E-03	7.68E-03	8.99E-03
5253	495363.09	3865377.25	0.00093	0.00118	0.00071	0.00138	8E-04	0.001	0.0011	0.00118	6.48E-03	2.18E-03	7.39E-08	4.86E-05	2.35E-04	1.28E-04	8.01E-03	8.02E-03	9.06E-03
5254	495863.09	3865377.25	0.00092	0.00125	0.00074	0.00142	7E-04	0.001	0.0012	0.00125	6.41E-03	2.31E-03	7.70E-08	5.00E-05	2.32E-04	1.30E-04	8.79E-03	8.50E-03	9.42E-03
5255	496363.09	3865377.25	0.00094	0.00116	0.00071	0.00145	8E-04	0.001	0.0012	0.00116	6.55E-03	2.14E-03	7.39E-08	5.10E-05	2.63E-04	1.31E-04	8.43E-03	7.89E-03	9.68E-03
5256	496863.09	3865377.25	0.00095	0.00113	0.00066	0.00146	9E-04	0.001	0.0012	0.00113	6.62E-03	2.09E-03	6.87E-08	5.14E-05	2.88E-04	1.31E-04	8.22E-03	7.68E-03	9.72E-03
5257	497363.09	3865377.25	0.00095	0.00124	0.00062	0.00142	9E-04	0.001	0.0012	0.00124	6.62E-03	2.29E-03	6.45E-08	5.00E-05	2.82E-04	1.32E-04	8.71E-03	8.43E-03	9.66E-03
5258	497863.09	3865377.25	0.00096	0.00127	0.00062	0.00138	8E-04	0.001	0.0012	0.00127	6.69E-03	2.35E-03	6.45E-08	4.86E-05	2.60E-04	1.30E-04	8.79E-03	8.64E-03	9.63E-03
5259	498363.09	3865377.25	0.00098	0.00125	0.00063	0.00136	8E-04	0.001	0.0012	0.00125	6.83E-03	2.31E-03	6.56E-08	4.79E-05	2.54E-04	1.28E-04	8.57E-03	8.50E-03	9.64E-03
5260	471363.09	3865877.25	0.00086	0.00074	0.00055	0.00082	8E-04	9E-04	0.0007	0.00074	6.00E-03	1.37E-03	5.73E-08	2.89E-05	2.57E-04	8.74E-05	5.10E-03	5.03E-03	7.81E-03
5261	471863.09	3865877.25	0.00086	0.00075	0.00056	0.00084	8E-04	9E-04	0.0007	0.00075	6.00E-03	1.39E-03	5.83E-08	2.96E-05	2.63E-04	8.84E-05	5.17E-03	5.10E-03	7.83E-03
5262	472363.09	3865877.25	0.00087	0.00076	0.00059	0.00086	9E-04	1E-03	0.0008	0.00076	6.07E-03	1.40E-03	6.14E-08	3.03E-05	2.76E-04	8.93E-05	5.31E-03	5.17E-03	8.01E-03
5263	472863.09	3865877.25	0.00086	0.00078	0.00061	0.00087	9E-04	1E-03	0.0008	0.00078	6.00E-03	1.44E-03	6.35E-08	3.06E-05	2.88E-04	9.12E-05	5.38E-03	5.30E-03	7.93E-03
5264	473363.09	3865877.25	0.00086	0.00079	0.00062	0.00087	1E-03	1E-03	0.0008	0.00079	6.00E-03	1.46E-03	6.45E-08	3.06E-05	3.01E-04	9.31E-05	5.46E-03	5.37E-03	7.96E-03
5265	473863.09	3865877.25	0.00086	0.0008	0.00063	0.00088	0.001	0.001	0.0008	0.0008	6.00E-03	1.48E-03	6.56E-08	3.10E-05	3.16E-04	9.49E-05	5.53E-03	5.44E-03	8.00E-03
5266	474363.09	3865877.25	0.00086	0.00081	0.00062	0.00089	0.001	0.001	0.0008	0.00081	6.00E-03	1.50E-03	6.45E-08	3.13E-05	3.29E-04	9.68E-05	5.60E-03	5.51E-03	8.04E-03
5267	474863.09	3865877.25	0.00086	0.00082	0.00062	0.00091	0.001	0.001	0.0008	0.00082	6.00E-03	1.51E-03	6.45E-08	3.20E-05	3.35E-04	9.87E-05	5.67E-03	5.58E-03	8.07E-03
5268	475363.09	3865877.25	0.00086	0.00084	0.00062	0.00093	0.001	0.001	0.0008	0.00084	6.00E-03	1.55E-03	6.45E-08	3.27E-05	3.35E-04	1.01E-04	5.74E-03	5.71E-03	8.04E-03
5269	475863.09	3865877.25	0.00087	0.00085	0.00064	0.00095	0.001	0.001	0.0008	0.00085	6.07E-03	1.57E-03	6.66E-08	3.34E-05	3.29E-04	1.03E-04	5.88E-03	5.78E-03	8.20E-03
5270	476363.09	3865877.25	0.00092	0.00085	0.00063	0.00099	0.001	0.001	0.0008	0.00085	6.41E-03	1.57E-03	6.56E-08	3.48E-05	3.42E-04	1.05E-04	5.95E-03	5.78E-03	8.64E-03
5271	476863.09	3865877.25	0.00095	0.00084	0.00059	0.00101	0.001	0.001	0.0008	0.00084	6.62E-03	1.55E-03	6.14E-08	3.55E-05	3.38E-04	1.04E-04	5.88E-03	5.71E-03	8.82E-03
5272	477363.09	3865877.25	0.00092	0.00089	0.00067	0.00106	0.001	0.001	0.0009	0.00089	6.41E-03	1.64E-03	6.98E-08	3.73E-05	3.51E-04	1.09E-04	6.16E-03	6.05E-03	8.67E-03
5273	477863.09	3865877.25	0.0009	0.0009	0.00074	0.00108	0.001	0.001	0.0009	0.0009	6.27E-03	1.66E-03	7.70E-08	3.80E-05	3.35E-04	1.12E-04	6.24E-03	6.12E-03	8.54E-03
5274	478363.09	3865877.25	0.00089	0.00091	0.00076	0.0011	0.001	0.001	0.0009	0.00091	6.20E-03	1.68E-03	7.91E-08	3.87E-05	3.13E-04	1.13E-04	6.31E-03	6.19E-03	8.47E-03

5275	478863.09	3865877.25	0.00087	0.00092	0.00073	0.00111	9E-04	0.001	0.0009	0.00092	6.07E-03	1.70E-03	7.60E-08	3.91E-05	2.79E-04	1.15E-04	6.38E-03	6.26E-03	8.32E-03
5276	479363.09	3865877.25	0.00086	0.00093	0.00072	0.00112	8E-04	0.001	0.0009	0.00093	6.00E-03	1.72E-03	7.50E-08	3.94E-05	2.51E-04	1.16E-04	6.45E-03	6.32E-03	8.24E-03
5277	479863.09	3865877.25	0.00083	0.00094	0.0007	0.00113	7E-04	0.001	0.0009	0.00094	5.79E-03	1.74E-03	7.29E-08	3.98E-05	2.29E-04	1.16E-04	6.52E-03	6.39E-03	8.03E-03
5278	480363.09	3865877.25	0.0008	0.00095	0.00064	0.00114	7E-04	0.001	0.0009	0.00095	5.58E-03	1.75E-03	6.66E-08	4.01E-05	2.16E-04	1.16E-04	6.59E-03	6.46E-03	7.83E-03
5279	480863.09	3865877.25	0.00077	0.00097	0.00063	0.00116	7E-04	0.001	0.0009	0.00097	5.37E-03	1.79E-03	6.56E-08	4.08E-05	2.19E-04	1.17E-04	6.66E-03	6.60E-03	7.60E-03
5280	481363.09	3865877.25	0.00076	0.00099	0.00069	0.00119	8E-04	0.001	0.001	0.00099	5.30E-03	1.83E-03	7.18E-08	4.19E-05	2.35E-04	1.18E-04	6.80E-03	6.73E-03	7.59E-03
5281	481863.09	3865877.25	0.00076	0.001	0.00078	0.00121	9E-04	0.001	0.001	0.001	5.30E-03	1.85E-03	8.12E-08	4.26E-05	2.66E-04	1.21E-04	6.87E-03	6.80E-03	7.65E-03
5282	482363.09	3865877.25	0.00076	0.00101	0.00083	0.00121	1E-03	0.001	0.001	0.00101	5.30E-03	1.87E-03	8.64E-08	4.26E-05	3.04E-04	1.22E-04	7.01E-03	6.87E-03	7.78E-03
5283	482863.09	3865877.25	0.00075	0.00102	0.00081	0.00121	1E-03	0.001	0.001	0.00102	5.23E-03	1.88E-03	8.43E-08	4.26E-05	3.10E-04	1.23E-04	7.09E-03	6.94E-03	7.74E-03
5284	483363.09	3865877.25	0.00073	0.00104	0.00082	0.00121	9E-04	0.001	0.001	0.00104	5.09E-03	1.92E-03	8.54E-08	4.26E-05	2.73E-04	1.24E-04	7.23E-03	7.07E-03	7.60E-03
5285	483863.09	3865877.25	0.0007	0.00106	0.00077	0.00123	7E-04	0.001	0.001	0.00106	4.88E-03	1.96E-03	8.02E-08	4.33E-05	2.16E-04	1.26E-04	7.37E-03	7.21E-03	7.38E-03
5286	484363.09	3865877.25	0.00068	0.00107	0.00069	0.00126	6E-04	0.001	0.0011	0.00107	4.74E-03	1.98E-03	7.18E-08	4.43E-05	1.75E-04	1.27E-04	7.44E-03	7.28E-03	7.23E-03
5287	484863.09	3865877.25	0.00064	0.00109	0.00067	0.0013	6E-04	0.001	0.0011	0.00109	4.46E-03	2.01E-03	6.98E-08	4.58E-05	1.75E-04	1.27E-04	7.58E-03	7.41E-03	6.99E-03
5288	485363.09	3865877.25	0.0006	0.0011	0.00068	0.00134	5E-04	0.001	0.0011	0.0011	4.18E-03	2.03E-03	7.08E-08	4.72E-05	1.60E-04	1.27E-04	7.65E-03	7.48E-03	6.72E-03
5289	485863.09	3865877.25	0.00058	0.00112	0.00072	0.0014	4E-04	0.001	0.0011	0.00112	4.04E-03	2.07E-03	7.50E-08	4.93E-05	1.35E-04	1.26E-04	7.79E-03	7.62E-03	6.60E-03
5290	486363.09	3865877.25	0.00055	0.00113	0.00079	0.00143	7E-04	0.001	0.0011	0.00113	3.83E-03	2.09E-03	8.22E-08	5.03E-05	2.04E-04	1.24E-04	7.86E-03	7.68E-03	6.48E-03
5291	486863.09	3865877.25	0.00052	0.00114	0.00074	0.00143	9E-04	0.001	0.0011	0.00114	3.63E-03	2.11E-03	7.70E-08	5.03E-05	2.91E-04	1.25E-04	8.01E-03	7.75E-03	6.45E-03
5292	487363.09	3865877.25	0.00051	0.00116	0.00065	0.00144	8E-04	0.001	0.0012	0.00116	3.56E-03	2.14E-03	6.77E-08	5.07E-05	2.44E-04	1.23E-04	8.15E-03	7.89E-03	6.38E-03
5293	487863.09	3865877.25	0.00051	0.00118	0.00062	0.00136	5E-04	0.001	0.0012	0.00118	3.56E-03	2.18E-03	6.45E-08	4.79E-05	1.66E-04	1.21E-04	8.29E-03	8.02E-03	6.34E-03
5294	488363.09	3865877.25	0.00051	0.00121	0.00057	0.00135	4E-04	0.001	0.0012	0.00121	3.56E-03	2.23E-03	5.93E-08	4.75E-05	1.35E-04	1.16E-04	8.43E-03	8.23E-03	6.29E-03
5295	488863.09	3865877.25	0.00053	0.00124	0.0007	0.0015	3E-04	0.001	0.0012	0.00124	3.70E-03	2.29E-03	7.29E-08	5.28E-05	1.07E-04	1.15E-04	8.64E-03	8.43E-03	6.47E-03
5296	489363.09	3865877.25	0.00058	0.00127	0.00075	0.00127	4E-04	0.001	0.0012	0.00127	4.04E-03	2.35E-03	7.81E-08	4.47E-05	1.16E-04	1.17E-04	8.71E-03	8.64E-03	6.75E-03
5297	489863.09	3865877.25	0.00065	0.00128	0.00066	0.00116	5E-04	0.001	0.0012	0.00128	4.53E-03	2.36E-03	6.87E-08	4.08E-05	1.50E-04	1.20E-04	8.79E-03	8.70E-03	7.29E-03
5298	490363.09	3865877.25	0.00076	0.00123	0.00059	0.00119	4E-04	0.001	0.0012	0.00123	5.30E-03	2.27E-03	6.14E-08	4.19E-05	1.38E-04	1.25E-04	8.50E-03	8.36E-03	8.01E-03
5299	490863.09	3865877.25	0.00092	0.00115	0.00055	0.0012	3E-04	0.001	0.0011	0.00115	6.41E-03	2.12E-03	5.73E-08	4.22E-05	1.00E-04	1.33E-04	7.86E-03	7.82E-03	8.86E-03
5300	491363.09	3865877.25	0.00107	0.00107	0.00063	0.00111	4E-04	0.001	0.001	0.00107	7.46E-03	1.98E-03	6.56E-08	3.91E-05	1.13E-04	1.33E-04	7.30E-03	7.28E-03	9.74E-03
5301	491863.09	3865877.25	0.00115	0.00107	0.00055	0.00113	7E-04	0.001	0.001	0.00107	8.02E-03	1.98E-03	5.73E-08	3.98E-05	2.10E-04	1.34E-04	7.37E-03	7.28E-03	1.05E-02
5302	492363.09	3865877.25	0.00114	0.00101	0.0005	0.00115	0.001	0.001	0.001	0.00101	7.95E-03	1.87E-03	5.21E-08	4.05E-05	3.42E-04	1.27E-04	7.16E-03	6.87E-03	1.06E-02
5303	492863.09	3865877.25	0.00104	0.00083	0.00052	0.00101	0.001	0.001	0.0009	0.00083	7.25E-03	1.53E-03	5.41E-08	3.55E-05	3.73E-04	1.01E-04	6.16E-03	5.64E-03	9.81E-03
5304	493363.09	3865877.25	0.0009	0.00079	0.0005	0.00102	0.001	0.001	0.0009	0.00079	6.27E-03	1.46E-03	5.21E-08	3.59E-05	3.51E-04	9.40E-05	6.02E-03	5.37E-03	8.87E-03
5305	493863.09	3865877.25	0.00083	0.00083	0.00049	0.00113	0.001	0.001	0.0009	0.00083	5.79E-03	1.53E-03	5.10E-08	3.98E-05	3.32E-04	1.02E-04	6.31E-03	5.64E-03	8.46E-03
5306	494363.09	3865877.25	0.00083	0.00089	0.00057	0.00124	0.001	0.001	0.0009	0.00089	5.79E-03	1.64E-03	5.93E-08	4.36E-05	3.57E-04	1.09E-04	6.59E-03	6.05E-03	8.48E-03
5307	494863.09	3865877.25	0.00082	0.00101	0.00063	0.00131	1E-03	0.001	0.001	0.00101	5.72E-03	1.87E-03	6.56E-08	4.61E-05	3.04E-04	1.17E-04	7.23E-03	6.87E-03	8.41E-03
5308	495363.09	3865877.25	0.00082	0.00105	0.00063	0.00126	8E-04	0.001	0.001	0.00105	5.72E-03	1.94E-03	6.56E-08	4.43E-05	2.48E-04	1.18E-04	7.23E-03	7.14E-03	8.15E-03
5309	495863.09	3865877.25	0.00084	0.00105	0.00066	0.0012	7E-04	0.001	0.001	0.00105	5.86E-03	1.94E-03	6.87E-08	4.22E-05	2.13E-04	1.16E-04	7.09E-03	7.14E-03	8.11E-03
5310	496363.09	3865877.25	0.00085	0.00101	0.00066	0.00118	6E-04	0.001	0.001	0.00101	5.93E-03	1.87E-03	6.87E-08	4.15E-05	1.97E-04	1.12E-04	7.09E-03	6.87E-03	8.36E-03
5311	496863.09	3865877.25	0.00086	0.00096	0.00064	0.00122	8E-04	0.001	0.001	0.00096	6.00E-03	1.77E-03	6.66E-08	4.29E-05	2.35E-04	1.13E-04	7.01E-03	6.53E-03	8.65E-03
5312	497363.09	3865877.25	0.00086	0.00098	0.00062	0.00127	8E-04	0.001	0.001	0.00098	6.00E-03	1.81E-03	6.45E-08	4.47E-05	2.63E-04	1.17E-04	7.23E-03	6.66E-03	8.79E-03
5313	497863.09	3865877.25	0.00087	0.00103	0.00057	0.00124	8E-04	0.001	0.001	0.00103	6.07E-03	1.90E-03	5.93E-08	4.36E-05	2.63E-04	1.17E-04	7.37E-03	7.00E-03	8.76E-03
5314	498363.09	3865877.25	0.00089	0.00097	0.00051	0.00114	8E-04	0.001	0.001	0.00097	6.20E-03	1.79E-03	5.31E-08	4.01E-05	2.44E-04	1.16E-04	6.73E-03	6.60E-03	8.53E-03
5315	471363.09	3866377.25	0.00081	0.00072	0.00055	0.0008	8E-04	9E-04	0.0007	0.00072	5.65E-03	1.33E-03	5.73E-08	2.82E-05	2.54E-04	8.37E-05	5.03E-03	4.90E-03	7.48E-03
5316	471863.09	3866377.25	0.00081	0.00073	0.00057	0.00081	9E-04	9E-04	0.0007	0.00073	5.65E-03	1.35E-03	5.93E-08	2.85E-05	2.66E-04	8.46E-05	5.10E-03	4.96E-03	7.51E-03
5317	472363.09	3866377.25	0.00081	0.00075	0.00059	0.00082	9E-04	9E-04	0.0007	0.00075	5.65E-03	1.39E-03	6.14E-08	2.89E-05	2.79E-04	8.55E-05	5.17E-03	5.10E-03	7.50E-03
5318	472863.09	3866377.25	0.0008	0.00076	0.00059	0.00082	9E-04	9E-04	0.0007	0.00076	5.58E-03	1.40E-03	6.14E-08	2.89E-05	2.88E-04	8.74E-05	5.24E-03	5.17E-03	7.46E-03
5319	473363.09	3866377.25	0.0008	0.00077	0.00059	0.00083	1E-03	1E-03	0.0008	0.00077	5.58E-03	1.42E-03	6.14E-08	2.92E-05	3.01E-04	8.93E-05	5.31E-03	5.24E-03	7.50E-03
5320	473863.09	3866377.25	0.0008	0.00078	0.00058	0.00084	1E-03	1E-03	0.0008	0.00078	5.58E-03	1.44E-03	6.04E-08	2.96E-05	3.10E-04	9.02E-05	5.38E-03	5.30E-03	7.53E-03
5321	474363.09	3866377.25	0.0008	0.00079	0.00057	0.00085	0.001	1E-03	0.0008	0.00079	5.58E-03	1.46E-03	5.93E-08	2.99E-05	3.13E-04	9.21E-05	5.46E-03	5.37E-03	7.56E-03
5322	474863.09	3866377.25	0.0008	0.0008	0.00057	0.00087	1E-03	0.001	0.0008	0.0008	5.58E-03	1.48E-03	5.93E-08	3.06E-05	3.10E-04	9.40E-05	5.53E-03	5.44E-03	7.58E-03
5323	475363.09	3866377.25	0.0008	0.00081	0.00058	0.0009	1E-03	0.001	0.0008	0.00081	5.58E-03	1.50E-03	6.04E-08	3.17E-05	3.04E-04	9.68E-05	5.60E-03	5.51E-03	7.60E-03
5324	475863.09	3866377.25	0.00081	0.00082	0.0006	0.00093	1E-03	0.001	0.0008	0.00082	5.65E-03	1.51E-03	6.25E-08	3.27E-05	3.01E-04	9.87E-05	5.67E-03	5.58E-03	7.69E-03
5325	476363.09	3866377.25	0.00085	0.00083	0.00061	0.00097	0.001	0.001	0.0008	0.00083	5.93E-03	1.53E-03	6.35E-08	3.41E-05	3.23E-04	1.01E-04	5.74E-03	5.64E-03	8.01E-03
5326	476863.09	3866377.25	0.00089	0.00079	0.00056	0.00098	0.001	0.001	0.0008	0.00079	6.20E-03	1.46E-03	5.83E-08	3.45E-05	3.26E-04	9.87E-05	5.53E-03	5.37E-03	8.28E-03
5327	477363.09	3866377.25	0.00087	0.00083	0.00065	0.00102	0.001	0.001	0.0008	0.00083	6.07E-03	1.53E-03	6.77E-08	3.59E-05	3.26E-04	1.04E-04	5.81E-03	5.64E-03	8.23E-03
5328	477863.09	3866377.25	0.00084	0.00086	0.00072	0.00103	9E-04	0.001	0.0008	0.00086	5.86E-03	1.59E-03	7.50E-08	3.63E-05	2.91E-04	1.07E-04	5.95E-03	5.85E-03	7.98E-03
5329	478363.09	3866377.25	0.00081	0.00086	0.00069	0.00104	8E-04	0.001	0.0008	0.00086	5.65E-03	1.59E-03	7.18E-08	3.66E-05	2.57E-04	1.06E-04	5.95E-03	5.85E-03	7.74E-03
5330	478863.09	3866377.25	0.0008	0.00087	0.00066	0.00104	7E-04	0.001	0.0009	0.00087	5.58E-03	1.61E-03	6.87E-08	3.66E-05	2.29E-04	1.07E-04	6.02E-03	5.92E-03	7.66E-03
5331	479363.09	3866377.25	0.00078	0.00088	0.00065	0.00105	7E-04	0.001	0.0009	0.00088	5.44E-03	1.63E-03	6.77E-08	3.70E-05	2.10E-04	1.07E-04	6.09E-03	5.98E-03	7.53E-03
5332	479863.09	3866377.25	0.00075	0.00089	0.00063	0.00107	6E-04	0.001	0.0009	0.00089	5.23E-03	1.64E-03	6.56E-08	3.77E-05	2.01E-04	1.07E-04	6.16E-03	6.05E-03	7.33E-03

5333	480363.09	3866377.25	0.00072	0.0009	0.0006	0.00109	6E-04	0.001	0.0009	0.0009	5.02E-03	1.66E-03	6.25E-08	3.84E-05	2.01E-04	1.07E-04	6.24E-03	6.12E-03	7.14E-03
5334	480863.09	3866377.25	0.00069	0.00091	0.00062	0.0011	7E-04	0.001	0.0009	0.00091	4.81E-03	1.68E-03	6.45E-08	3.87E-05	2.10E-04	1.08E-04	6.31E-03	6.19E-03	6.97E-03
5335	481363.09	3866377.25	0.00069	0.00093	0.0007	0.0011	8E-04	0.001	0.0009	0.00093	4.81E-03	1.72E-03	7.29E-08	3.87E-05	2.35E-04	1.10E-04	6.45E-03	6.32E-03	7.04E-03
5336	481863.09	3866377.25	0.00069	0.00094	0.00077	0.0011	9E-04	0.001	0.0009	0.00094	4.81E-03	1.74E-03	8.02E-08	3.87E-05	2.69E-04	1.12E-04	6.52E-03	6.39E-03	7.09E-03
5337	482363.09	3866377.25	0.00069	0.00095	0.00076	0.00109	9E-04	0.001	0.0009	0.00095	4.81E-03	1.75E-03	7.91E-08	3.84E-05	2.88E-04	1.14E-04	6.59E-03	6.46E-03	7.14E-03
5338	482863.09	3866377.25	0.00068	0.00096	0.00074	0.0011	9E-04	0.001	0.0009	0.00096	4.74E-03	1.77E-03	7.70E-08	3.87E-05	2.69E-04	1.15E-04	6.66E-03	6.53E-03	7.07E-03
5339	483363.09	3866377.25	0.00066	0.00098	0.00074	0.00111	7E-04	0.001	0.001	0.00098	4.60E-03	1.81E-03	7.70E-08	3.91E-05	2.26E-04	1.17E-04	6.80E-03	6.66E-03	6.93E-03
5340	483863.09	3866377.25	0.00064	0.00099	0.00069	0.00113	6E-04	0.001	0.001	0.00099	4.46E-03	1.83E-03	7.18E-08	3.98E-05	1.75E-04	1.17E-04	6.87E-03	6.73E-03	6.76E-03
5341	484363.09	3866377.25	0.00062	0.00099	0.00064	0.00117	5E-04	0.001	0.001	0.00099	4.32E-03	1.83E-03	6.66E-08	4.12E-05	1.57E-04	1.17E-04	6.94E-03	6.73E-03	6.68E-03
5342	484863.09	3866377.25	0.00058	0.001	0.00065	0.00121	5E-04	0.001	0.001	0.001	4.04E-03	1.85E-03	6.77E-08	4.26E-05	1.63E-04	1.17E-04	7.01E-03	6.80E-03	6.43E-03
5343	485363.09	3866377.25	0.00053	0.00102	0.00065	0.00125	4E-04	0.001	0.001	0.00102	3.70E-03	1.88E-03	6.77E-08	4.40E-05	1.38E-04	1.16E-04	7.09E-03	6.94E-03	6.03E-03
5344	485863.09	3866377.25	0.00052	0.00104	0.00067	0.00127	4E-04	0.001	0.001	0.00104	3.63E-03	1.92E-03	6.98E-08	4.47E-05	1.25E-04	1.15E-04	7.23E-03	7.07E-03	5.99E-03
5345	486363.09	3866377.25	0.0005	0.00105	0.00072	0.00128	7E-04	0.001	0.001	0.00105	3.49E-03	1.94E-03	7.50E-08	4.51E-05	2.07E-04	1.15E-04	7.37E-03	7.14E-03	6.02E-03
5346	486863.09	3866377.25	0.00048	0.00107	0.00066	0.0013	9E-04	0.001	0.0011	0.00107	3.35E-03	1.98E-03	6.87E-08	4.58E-05	2.79E-04	1.15E-04	7.51E-03	7.28E-03	6.00E-03
5347	487363.09	3866377.25	0.00049	0.00109	0.00063	0.00128	7E-04	0.001	0.0011	0.00109	3.42E-03	2.01E-03	6.56E-08	4.51E-05	2.32E-04	1.15E-04	7.65E-03	7.41E-03	6.06E-03
5348	487863.09	3866377.25	0.00048	0.00109	0.00058	0.00117	5E-04	0.001	0.0011	0.00109	3.35E-03	2.01E-03	6.04E-08	4.12E-05	1.60E-04	1.10E-04	7.65E-03	7.41E-03	5.91E-03
5349	488363.09	3866377.25	0.00046	0.00111	0.00054	0.00121	4E-04	0.001	0.0011	0.00111	3.21E-03	2.05E-03	5.62E-08	4.26E-05	1.28E-04	1.05E-04	7.72E-03	7.55E-03	5.71E-03
5350	488863.09	3866377.25	0.00048	0.00107	0.00065	0.00134	3E-04	0.001	0.0011	0.00107	3.35E-03	1.98E-03	6.77E-08	4.72E-05	1.00E-04	1.02E-04	7.51E-03	7.28E-03	5.81E-03
5351	489363.09	3866377.25	0.00053	0.00105	0.0007	0.00111	3E-04	0.001	0.001	0.00105	3.70E-03	1.94E-03	7.29E-08	3.91E-05	1.03E-04	1.02E-04	7.30E-03	7.14E-03	6.04E-03
5352	489863.09	3866377.25	0.0006	0.001	0.00059	0.00094	5E-04	0.001	0.001	0.001	4.18E-03	1.85E-03	6.14E-08	3.31E-05	1.41E-04	1.02E-04	6.94E-03	6.80E-03	6.45E-03
5353	490363.09	3866377.25	0.00065	0.00112	0.00056	0.00106	4E-04	0.001	0.0011	0.00112	4.53E-03	2.07E-03	5.83E-08	3.73E-05	1.38E-04	1.11E-04	7.72E-03	7.62E-03	6.99E-03
5354	490863.09	3866377.25	0.00075	0.00115	0.00054	0.00113	3E-04	0.001	0.0011	0.00115	5.23E-03	2.12E-03	5.62E-08	3.98E-05	9.71E-05	1.20E-04	7.86E-03	7.82E-03	7.65E-03
5355	491363.09	3866377.25	0.00089	0.0011	0.00059	0.00108	3E-04	0.001	0.0011	0.0011	6.20E-03	2.03E-03	6.14E-08	3.80E-05	9.71E-05	1.27E-04	7.51E-03	7.48E-03	8.53E-03
5356	491863.09	3866377.25	0.00104	0.00092	0.00053	0.00097	4E-04	0.001	0.0009	0.00092	7.25E-03	1.70E-03	5.52E-08	3.41E-05	1.38E-04	1.17E-04	6.38E-03	6.26E-03	9.36E-03
5357	492363.09	3866377.25	0.00107	0.00093	0.00048	0.00102	8E-04	0.001	0.0009	0.00093	7.46E-03	1.72E-03	5.00E-08	3.59E-05	2.51E-04	1.20E-04	6.52E-03	6.32E-03	9.78E-03
5358	492863.09	3866377.25	0.00104	0.00085	0.00048	0.00101	0.001	0.001	0.0009	0.00085	7.25E-03	1.57E-03	5.00E-08	3.55E-05	3.48E-04	1.06E-04	6.16E-03	5.78E-03	9.69E-03
5359	493363.09	3866377.25	0.00094	0.00084	0.00056	0.00105	0.001	0.001	0.0009	0.00084	6.55E-03	1.55E-03	5.83E-08	3.70E-05	3.98E-04	1.02E-04	6.16E-03	5.71E-03	9.09E-03
5360	493863.09	3866377.25	0.00084	0.00084	0.00053	0.00111	0.001	0.001	0.0009	0.00084	5.86E-03	1.55E-03	5.52E-08	3.91E-05	3.54E-04	1.03E-04	6.24E-03	5.71E-03	8.43E-03
5361	494363.09	3866377.25	0.00077	0.00089	0.00052	0.0012	0.001	0.001	0.0009	0.00089	5.37E-03	1.64E-03	5.41E-08	4.22E-05	3.38E-04	1.04E-04	6.66E-03	6.05E-03	8.11E-03
5362	494863.09	3866377.25	0.00074	0.00088	0.00056	0.0012	0.001	0.001	0.0009	0.00088	5.16E-03	1.63E-03	5.83E-08	4.22E-05	3.23E-04	1.03E-04	6.52E-03	5.98E-03	7.79E-03
5363	495363.09	3866377.25	0.00075	0.00086	0.00056	0.00112	9E-04	0.001	0.0009	0.00086	5.23E-03	1.59E-03	5.83E-08	3.94E-05	2.69E-04	1.02E-04	6.16E-03	5.85E-03	7.54E-03
5364	495863.09	3866377.25	0.00076	0.00086	0.00055	0.00104	7E-04	0.001	0.0008	0.00086	5.30E-03	1.59E-03	5.73E-08	3.66E-05	2.04E-04	1.02E-04	5.88E-03	5.85E-03	7.26E-03
5365	496363.09	3866377.25	0.00077	0.00088	0.00058	0.001	5E-04	0.001	0.0008	0.00088	5.37E-03	1.63E-03	6.04E-08	3.52E-05	1.63E-04	9.96E-05	5.81E-03	5.98E-03	7.12E-03
5366	496863.09	3866377.25	0.00078	0.00085	0.00058	0.00098	5E-04	0.001	0.0008	0.00085	5.44E-03	1.57E-03	6.04E-08	3.45E-05	1.60E-04	9.49E-05	5.88E-03	5.78E-03	7.40E-03
5367	497363.09	3866377.25	0.00078	0.00084	0.00058	0.00106	7E-04	0.001	0.0009	0.00084	5.44E-03	1.55E-03	6.04E-08	3.73E-05	2.07E-04	9.87E-05	6.16E-03	5.71E-03	7.78E-03
5368	497863.09	3866377.25	0.00079	0.00085	0.00056	0.00112	8E-04	0.001	0.0009	0.00085	5.51E-03	1.57E-03	5.83E-08	3.94E-05	2.57E-04	1.03E-04	6.31E-03	5.78E-03	8.00E-03
5369	498363.09	3866377.25	0.00079	0.00078	0.00048	0.00099	8E-04	0.001	0.0008	0.00078	5.51E-03	1.44E-03	5.00E-08	3.48E-05	2.63E-04	9.49E-05	5.67E-03	5.30E-03	7.71E-03
5370	474494.92	3848334.16	0.00726	0.30812	0.0005	0.00081	0.001	9E-04	0.3106	0.30812	5.06E-02	5.69E-01	5.21E-08	2.85E-05	3.23E-04	8.37E-05	2.20E+00	2.10E+00	7.26E-01
5371	475167.27	3848920.79	0.01754	0.36431	0.00054	0.00088	0.001	1E-03	0.3665	0.36431	1.22E-01	6.73E-01	5.62E-08	3.10E-05	3.54E-04	9.02E-05	2.60E+00	2.48E+00	9.15E-01
5372	475297.89	3848997.96	0.02024	0.28249	0.00055	0.00089	0.001	1E-03	0.2862	0.28249	1.41E-01	5.22E-01	5.73E-08	3.13E-05	3.57E-04	9.12E-05	2.03E+00	1.92E+00	7.70E-01
5373	475439.05	3849062	0.02405	0.32844	0.00055	0.0009	0.001	1E-03	0.3325	0.32844	1.68E-01	6.07E-01	5.73E-08	3.17E-05	3.60E-04	9.21E-05	2.36E+00	2.23E+00	8.97E-01
5374	475486.86	3849061.09	0.02112	0.24246	0.00055	0.00089	0.001	1E-03	0.2452	0.24246	1.47E-01	4.48E-01	5.73E-08	3.13E-05	3.57E-04	9.21E-05	1.74E+00	1.65E+00	6.84E-01
5375	475538.46	3849075.56	0.02181	0.24606	0.00056	0.00089	0.001	1E-03	0.2486	0.24606	1.52E-01	4.54E-01	5.83E-08	3.13E-05	3.57E-04	9.21E-05	1.76E+00	1.67E+00	6.95E-01
5376	475751.79	3849137.15	0.02163	0.36112	0.00058	0.0009	0.001	0.001	0.3675	0.36112	1.51E-01	6.67E-01	6.04E-08	3.17E-05	3.57E-04	9.40E-05	2.60E+00	2.46E+00	9.67E-01
5377	476303.62	3849223.38	0.02009	0.32934	0.00065	0.0009	0.001	0.001	0.3313	0.32934	1.40E-01	6.08E-01	6.77E-08	3.17E-05	3.45E-04	9.40E-05	2.35E+00	2.24E+00	8.57E-01
5378	476304.51	3849238.92	0.02372	0.45696	0.00065	0.00091	0.001	0.001	0.4601	0.45696	1.65E-01	8.44E-01	6.77E-08	3.20E-05	3.48E-04	9.49E-05	3.26E+00	3.11E+00	1.16E+00
5379	476365.04	3849247.98	0.02226	0.40746	0.00066	0.00091	0.001	0.001	0.412	0.40746	1.55E-01	7.53E-01	6.87E-08	3.20E-05	3.45E-04	9.40E-05	2.92E+00	2.77E+00	1.06E+00
5380	476444.86	3849267.13	0.0225	0.40856	0.00067	0.00091	0.001	0.001	0.4157	0.40856	1.57E-01	7.55E-01	6.98E-08	3.20E-05	3.45E-04	9.40E-05	2.95E+00	2.78E+00	1.08E+00
5381	476550.75	3849300.66	0.02309	0.48585	0.00068	0.00091	0.001	0.001	0.5003	0.48585	1.61E-01	8.97E-01	7.08E-08	3.20E-05	3.45E-04	9.49E-05	3.54E+00	3.30E+00	1.30E+00
5382	476656.71	3849346.88	0.02443	0.42001	0.00069	0.00092	0.001	0.001	0.4284	0.42001	1.70E-01	7.76E-01	7.18E-08	3.24E-05	3.45E-04	9.49E-05	3.04E+00	2.86E+00	1.13E+00
5383	476873.55	3849454.53	0.02719	0.4202	0.00071	0.00094	0.001	0.001	0.4255	0.4202	1.90E-01	7.76E-01	7.39E-08	3.31E-05	3.51E-04	9.68E-05	3.01E+00	2.86E+00	1.12E+00
5384	477700	3849859.7	0.03641	0.41473	0.00075	0.00103	0.001	0.001	0.4104	0.41473	2.54E-01	7.66E-01	7.81E-08	3.63E-05	3.73E-04	1.02E-04	2.91E+00	2.82E+00	1.11E+00
5385	477743.16	3849856.38	0.03296	0.29415	0.00074	0.00103	0.001	0.001	0.2915	0.29415	2.30E-01	5.43E-01	7.70E-08	3.63E-05	3.73E-04	1.02E-04	2.07E+00	2.00E+00	8.39E-01
5386	478477.35	3850216.33	0.04104	0.30774	0.00074	0.00112	0.001	0.001	0.299	0.30774	2.86E-01	5.68E-01	7.70E-08	3.94E-05	3.95E-04	1.08E-04	2.12E+00	2.09E+00	8.81E-01
5387	478485.8	3850201.6	0.03591	0.23671	0.00073	0.00113	0.001	0.001	0.2314	0.23671	2.50E-01	4.37E-01	7.60E-08	3.98E-05	3.95E-04	1.08E-04	1.64E+00	1.61E+00	7.18E-01
5388	479113.21	3850501.53	0.05314	0.21814	0.00076	0.00125	0.001	0.001	0.2116	0.21814	3.70E-01	4.03E-01	7.91E-08	4.40E-05	4.36E-04	1.24E-04	1.50E+00	1.48E+00	7.90E-01
5389	479108.11	3850382.28	0.02401	0.08742	0.00073	0.00123	0.001	0.001	0.0866	0.08742	1.67E-01	1.61E-01	7.60E-08	4.33E-05	4.32E-04	1.23E-04	6.14E-01	5.94E-01	3.49E-01
5390	479689.85	3850674.28	0.05509	0.09099	0.00076	0.00129	0.001	0.001	0.0895	0.09099	3.84E-01	1.68E-01	7.91E-08	4.54E-05	4.61E-04	1.31E-04	6.34E-01	6.19E-01	5.68E-01

5391	479952.42	3850774.28	0.03817	0.07879	0.00078	0.0013	0.002	0.001	0.0778	0.07879	2.66E-01	1.46E-01	8.12E-08	4.58E-05	4.73E-04	1.32E-04	5.51E-01	5.36E-01	4.28E-01
5392	479911.32	3850884.85	0.04653	0.20528	0.0008	0.00135	0.002	0.001	0.1976	0.20528	3.24E-01	3.79E-01	8.33E-08	4.75E-05	4.76E-04	1.37E-04	1.40E+00	1.40E+00	7.08E-01
5393	480500.92	3851178.12	0.04179	0.21064	0.00088	0.00143	0.002	0.002	0.2099	0.21064	2.91E-01	3.89E-01	9.16E-08	5.03E-05	5.04E-04	1.45E-04	1.49E+00	1.43E+00	7.36E-01
5394	480738.01	3851289.27	0.04231	0.1975	0.00094	0.00147	0.002	0.002	0.1995	0.1975	2.95E-01	3.65E-01	9.79E-08	5.17E-05	5.14E-04	1.50E-04	1.41E+00	1.34E+00	7.31E-01
5395	481055.42	3851443.58	0.04397	0.19087	0.00105	0.00154	0.002	0.002	0.1959	0.19087	3.07E-01	3.53E-01	1.09E-07	5.42E-05	5.26E-04	1.62E-04	1.39E+00	1.30E+00	7.50E-01
5396	481110.22	3851443.15	0.03498	0.14437	0.00107	0.00154	0.002	0.002	0.1477	0.14437	2.44E-01	2.67E-01	1.11E-07	5.42E-05	5.23E-04	1.63E-04	1.05E+00	9.82E-01	5.76E-01
5397	481111.1	3851417.45	0.02728	0.11734	0.00107	0.00153	0.002	0.002	0.1197	0.11734	1.90E-01	2.17E-01	1.11E-07	5.39E-05	5.20E-04	1.62E-04	8.48E-01	7.98E-01	4.58E-01
5398	482248.44	3852605.09	0.0313	0.22174	0.00174	0.00245	0.002	0.003	0.222	0.22174	2.18E-01	4.10E-01	1.81E-07	8.62E-05	6.80E-04	2.89E-04	1.57E+00	1.51E+00	6.94E-01
5399	482273.34	3852632.31	0.03147	0.22639	0.00178	0.0025	0.002	0.003	0.2265	0.22639	2.19E-01	4.18E-01	1.85E-07	8.80E-05	6.86E-04	2.95E-04	1.60E+00	1.54E+00	7.04E-01
5400	482665.46	3853038.72	0.03869	0.1792	0.00279	0.00344	0.002	0.004	0.1831	0.1792	2.70E-01	3.31E-01	2.90E-07	1.21E-04	7.65E-04	4.20E-04	1.30E+00	1.22E+00	6.81E-01
5401	483077.95	3853844.31	0.06657	0.05596	0.00581	0.02894	0.003	0.142	0.1144	0.05596	4.64E-01	1.03E-01	6.05E-07	1.02E-03	9.84E-04	1.33E-02	8.10E-01	3.81E-01	1.01E+00
5402	483121.38	3853909.38	0.07691	0.049	0.00618	0.08743	0.003	0.478	0.1057	0.049	5.36E-01	9.05E-02	6.43E-07	3.08E-03	1.01E-03	4.50E-02	7.49E-01	3.33E-01	1.09E+00
5403	483492.64	3853911.49	0.05269	0.02255	0.00488	0.06083	0.003	0.061	0.0363	0.02255	3.67E-01	4.16E-02	5.08E-07	2.14E-03	1.03E-03	5.77E-03	2.57E-01	1.53E-01	5.22E-01
5404	483498.29	3854204.73	0.08087	0.02359	0.00813	0.84871	0.004	0.348	0.1181	0.02359	5.64E-01	4.36E-02	8.46E-07	2.99E-02	1.16E-03	3.27E-02	8.37E-01	1.60E-01	1.35E+00
5405	484132.44	3854662.55	0.09868	0.0129	0.04832	0.87477	0.004	0.252	0.219	0.0129	6.88E-01	2.38E-02	5.03E-06	3.08E-02	1.39E-03	2.37E-02	1.55E+00	8.77E-02	2.23E+00
5406	484627.62	3854876.13	0.09824	0.01171	0.03815	1.14314	0.005	0.195	0.1932	0.01171	6.85E-01	2.16E-02	3.97E-06	4.02E-02	1.63E-03	1.83E-02	1.37E+00	7.96E-02	2.06E+00
5407	484756.14	3854949.04	0.09724	0.01176	0.03221	0.91786	0.006	0.217	0.1932	0.01176	6.78E-01	2.17E-02	3.35E-06	3.23E-02	1.73E-03	2.04E-02	1.37E+00	8.00E-02	2.04E+00
5408	486697.51	3856599.17	0.09145	0.01394	0.01337	0.52739	0.067	0.158	0.0692	0.01394	6.38E-01	2.57E-02	1.39E-06	1.86E-02	2.10E-02	1.48E-02	4.91E-01	9.48E-02	1.11E+00
5409	487105.31	3856962.27	0.08897	0.01562	0.01075	0.83309	0.706	0.168	0.0639	0.01562	6.20E-01	2.88E-02	1.12E-06	2.93E-02	2.21E-01	1.58E-02	4.53E-01	1.06E-01	1.26E+00
5410	487157.57	3856901.7	0.07098	0.01462	0.01051	0.23865	0.971	0.094	0.048	0.01462	4.95E-01	2.70E-02	1.09E-06	8.40E-03	3.04E-01	8.81E-03	3.40E-01	9.94E-02	1.08E+00
5411	487173.5	3856853.74	0.06508	0.01405	0.01058	0.16487	0.78	0.075	0.0421	0.01405	4.54E-01	2.59E-02	1.10E-06	5.80E-03	2.44E-01	7.07E-03	2.98E-01	9.55E-02	9.40E-01
5412	487564.41	3856860.83	0.04659	0.01241	0.00977	0.06222	1.484	0.04	0.0253	0.01241	3.25E-01	2.29E-02	1.02E-06	2.19E-03	4.65E-01	3.78E-03	1.79E-01	8.44E-02	9.13E-01
5413	487563.31	3856931.58	0.04886	0.01298	0.00945	0.07098	2.322	0.045	0.0273	0.01298	3.41E-01	2.40E-02	9.84E-07	2.50E-03	7.27E-01	4.19E-03	1.94E-01	8.83E-02	1.20E+00
5414	487782.7	3856926.85	0.04215	0.01216	0.00918	0.05106	2.032	0.036	0.022	0.01216	2.94E-01	2.25E-02	9.56E-07	1.80E-03	6.37E-01	3.35E-03	1.56E-01	8.27E-02	1.03E+00
5415	487782.39	3856757.07	0.03884	0.01107	0.00996	0.04175	0.778	0.03	0.0192	0.01107	2.71E-01	2.04E-02	1.04E-06	1.47E-03	2.44E-01	2.82E-03	1.36E-01	7.53E-02	6.00E-01
5416	487917.26	3856752.41	0.03627	0.01077	0.00981	0.037	0.86	0.028	0.0175	0.01077	2.53E-01	1.99E-02	1.02E-06	1.30E-03	2.70E-01	2.59E-03	1.24E-01	7.32E-02	5.97E-01
5417	487919.57	3856953.35	0.03953	0.01193	0.00923	0.04533	1.934	0.033	0.0202	0.01193	2.76E-01	2.20E-02	9.61E-07	1.60E-03	6.06E-01	3.10E-03	1.43E-01	8.11E-02	9.70E-01
5418	487932.76	3857000.32	0.0402	0.01216	0.00917	0.04725	2.108	0.034	0.0208	0.01216	2.80E-01	2.25E-02	9.55E-07	1.66E-03	6.61E-01	3.21E-03	1.47E-01	8.27E-02	1.03E+00
5419	487960.5	3857044.75	0.04054	0.01235	0.0092	0.04842	2.198	0.035	0.0211	0.01235	2.83E-01	2.28E-02	9.58E-07	1.70E-03	6.89E-01	3.30E-03	1.49E-01	8.40E-02	1.06E+00
5420	488016.54	3857089.54	0.04024	0.01247	0.00947	0.04815	2.169	0.035	0.0209	0.01247	2.81E-01	2.30E-02	9.86E-07	1.69E-03	6.80E-01	3.32E-03	1.48E-01	8.48E-02	1.05E+00
5421	488114.39	3857165.47	0.03968	0.0127	0.01124	0.04759	2.058	0.036	0.0206	0.0127	2.77E-01	2.35E-02	1.17E-06	1.67E-03	6.45E-01	3.36E-03	1.46E-01	8.64E-02	1.01E+00
5422	488171.49	3857234.24	0.03988	0.0131	0.01216	0.04875	1.963	0.037	0.0209	0.0131	2.78E-01	2.42E-02	1.27E-06	1.72E-03	6.15E-01	3.49E-03	1.48E-01	8.91E-02	9.81E-01
5423	488193.16	3857297.8	0.04081	0.01364	0.01302	0.05165	1.891	0.04	0.0216	0.01364	2.85E-01	2.52E-02	1.36E-06	1.82E-03	5.93E-01	3.72E-03	1.53E-01	9.27E-02	9.68E-01
5424	488189.27	3857649.94	0.05412	0.01837	0.03508	0.10115	1.156	0.074	0.0319	0.01837	3.77E-01	3.39E-02	3.65E-06	3.56E-03	3.62E-01	6.94E-03	2.26E-01	1.25E-01	8.85E-01
5425	488127.43	3857732.32	0.0649	0.02046	0.04988	0.16963	0.789	0.111	0.0399	0.02046	4.52E-01	3.78E-02	5.19E-06	5.97E-03	2.47E-01	1.04E-02	2.83E-01	1.39E-01	8.98E-01
5426	488149.93	3857752.94	0.06504	0.02064	0.05414	0.17008	0.528	0.115	0.0398	0.02064	4.53E-01	3.81E-02	5.64E-06	5.99E-03	1.65E-01	1.08E-02	2.82E-01	1.40E-01	8.16E-01
5427	488144.76	3857758.71	0.06619	0.02081	0.05553	0.17944	0.5	0.12	0.0406	0.02081	4.61E-01	3.84E-02	5.78E-06	6.32E-03	1.57E-01	1.13E-02	2.88E-01	1.42E-01	8.20E-01
5428	488335.58	3857932.55	0.06716	0.02335	0.07442	0.18023	0.076	0.14	0.0403	0.02335	4.68E-01	4.31E-02	7.75E-06	6.34E-03	2.39E-02	1.31E-02	2.85E-01	1.59E-01	6.81E-01
5429	488372.29	3857943.79	0.06492	0.02321	0.07168	0.16186	0.074	0.129	0.0387	0.02321	4.53E-01	4.29E-02	7.46E-06	5.70E-03	2.30E-02	1.21E-02	2.74E-01	1.58E-01	6.52E-01
5430	488828.64	3857936.4	0.04545	0.01822	0.04305	0.06249	0.075	0.06	0.0227	0.01822	3.17E-01	3.37E-02	4.48E-06	2.20E-03	2.35E-02	5.62E-03	1.61E-01	1.24E-01	4.19E-01
5431	488829.08	3857959.58	0.04681	0.0186	0.04295	0.0647	0.069	0.061	0.0232	0.0186	3.26E-01	3.44E-02	4.47E-06	2.28E-03	2.16E-02	5.76E-03	1.64E-01	1.26E-01	4.28E-01
5432	488351.61	3857964.55	0.06951	0.02414	0.07477	0.19786	0.066	0.146	0.0416	0.02414	4.85E-01	4.46E-02	7.78E-06	6.96E-03	2.06E-02	1.37E-02	2.95E-01	1.64E-01	7.01E-01
5433	488316.87	3857947.65	0.07127	0.02408	0.07754	0.21625	0.069	0.157	0.0428	0.02408	4.97E-01	4.45E-02	8.07E-06	7.61E-03	2.18E-02	1.48E-02	3.03E-01	1.64E-01	7.25E-01
5434	488129.1	3857775.77	0.07002	0.02135	0.05998	0.21479	0.409	0.138	0.0431	0.02135	4.88E-01	3.94E-02	6.24E-06	7.56E-03	1.28E-01	1.29E-02	3.05E-01	1.45E-01	8.37E-01
5435	488062.53	3857846.13	0.09956	0.02424	0.08383	0.93124	0.096	0.393	0.0587	0.02424	6.94E-01	4.48E-02	8.73E-06	3.28E-02	3.02E-02	3.69E-02	4.16E-01	1.65E-01	1.09E+00
5436	488330.41	3858091.34	0.10343	0.02923	0.07008	0.91007	0.041	0.348	0.0569	0.02923	7.21E-01	5.40E-02	7.30E-06	3.20E-02	1.27E-02	3.27E-02	4.03E-01	1.99E-01	1.06E+00
5437	488470.87	3858174.45	0.09687	0.03021	0.04941	0.44522	0.036	0.227	0.051	0.03021	6.75E-01	5.58E-02	5.14E-06	1.57E-02	1.11E-02	2.13E-02	3.61E-01	2.05E-01	9.35E-01
5438	488568.9	3858262.31	0.10807	0.03298	0.03811	0.44701	0.03	0.227	0.0521	0.03298	7.53E-01	6.09E-02	3.97E-06	1.57E-02	9.32E-03	2.13E-02	3.69E-01	2.24E-01	1.01E+00
5439	488964.27	3858025.71	0.06135	0.01855	0.03673	0.06333	0.054	0.057	0.022	0.01855	4.28E-01	3.43E-02	3.82E-06	2.23E-03	1.71E-02	5.38E-03	1.56E-01	1.26E-01	5.16E-01
5440	489147.25	3857956.64	0.05697	0.01603	0.03258	0.05169	0.067	0.047	0.0182	0.01603	3.97E-01	2.96E-02	3.39E-06	1.82E-03	2.09E-02	4.37E-03	1.29E-01	1.09E-01	4.74E-01
5441	489343.52	3857932.45	0.0606	0.01451	0.02887	0.04597	0.069	0.04	0.016	0.01451	4.22E-01	2.68E-02	3.01E-06	1.62E-03	2.15E-02	3.76E-03	1.13E-01	9.87E-02	4.91E-01
5442	489866.19	3857923.19	0.0582	0.01208	0.02015	0.0436	0.062	0.031	0.0125	0.01208	4.06E-01	2.23E-02	2.10E-06	1.53E-03	1.93E-02	2.88E-03	8.86E-02	8.21E-02	4.58E-01
5443	489955.65	3857902.27	0.05331	0.01159	0.0192	0.04214	0.063	0.029	0.012	0.01159	3.72E-01	2.14E-02	2.00E-06	1.48E-03	1.96E-02	2.74E-03	8.47E-02	7.88E-02	4.23E-01
5444	490079.44	3857847.9	0.03883	0.01101	0.01839	0.0389	0.065	0.027	0.0113	0.01101	2.71E-01	2.03E-02	1.91E-06	1.37E-03	2.04E-02	2.57E-03	7.99E-02	7.49E-02	3.20E-01
5445	490108.49	3857934.13	0.04566	0.01137	0.01778	0.04598	0.056	0.028	0.0115	0.01137	3.18E-01	2.10E-02	1.85E-06	1.62E-03	1.76E-02	2.63E-03	8.17E-02	7.73E-02	3.66E-01
5446	489884.48	3858014.17	0.04214	0.01266	0.01932	0.05406	0.051	0.032	0.013	0.01266	2.94E-01	2.34E-02	2.01E-06	1.90E-03	1.60E-02	2.98E-03	9.18E-02	8.61E-02	3.44E-01
5447	489326.56	3858025.86	0.05611	0.01565	0.02812	0.05345	0.054	0.043	0.0171	0.01565	3.91E-01	2.89E-02	2.93E-06	1.88E-03	1.68E-02	4.04E-03	1.21E-01	1.06E-01	4.57E-01
5448	489130.38	3858056.71	0.06359	0.01748	0.031	0.0601	0.05	0.051	0.0198	0.01748	4.43E-01	3.23E-02	3.23E-06	2.12E-03	1.56E-02	4.75E-03	1.40E-01	1.19E-01	5.20E-01

5449	488936.49	3858143.93	0.07127	0.02122	0.0331	0.07866	0.039	0.066	0.0254	0.02122	4.97E-01	3.92E-02	3.45E-06	2.77E-03	1.21E-02	6.19E-03	1.80E-01	1.44E-01	5.93E-01
5450	488638.08	3858327.45	0.10052	0.03473	0.03183	0.4593	0.027	0.23	0.0522	0.03473	7.01E-01	6.41E-02	3.31E-06	1.62E-02	8.35E-03	2.16E-02	3.70E-01	2.36E-01	9.45E-01
5451	488663.79	3858349.57	0.09722	0.03524	0.02994	0.45181	0.026	0.227	0.052	0.03524	6.78E-01	6.51E-02	3.12E-06	1.59E-02	8.06E-03	2.14E-02	3.68E-01	2.40E-01	9.17E-01
5452	488694.56	3858349.5	0.09007	0.03413	0.02933	0.33636	0.026	0.187	0.0486	0.03413	6.28E-01	6.30E-02	3.05E-06	1.18E-02	8.07E-03	1.76E-02	3.44E-01	2.32E-01	8.41E-01
5453	488694.35	3858336.75	0.08833	0.03335	0.03001	0.30146	0.026	0.174	0.0473	0.03335	6.16E-01	6.16E-02	3.12E-06	1.06E-02	8.24E-03	1.63E-02	3.35E-01	2.27E-01	8.21E-01
5454	488712.81	3858336.38	0.08393	0.03272	0.02964	0.26423	0.026	0.159	0.0455	0.03272	5.85E-01	6.04E-02	3.09E-06	9.30E-03	8.23E-03	1.49E-02	3.23E-01	2.22E-01	7.78E-01
5455	488713.23	3858367.46	0.08721	0.03463	0.02805	0.33979	0.025	0.188	0.0487	0.03463	6.08E-01	6.40E-02	2.92E-06	1.20E-02	7.83E-03	1.77E-02	3.45E-01	2.35E-01	8.19E-01
5456	488704.63	3858384.05	0.08968	0.0361	0.02734	0.43823	0.024	0.222	0.0516	0.0361	6.25E-01	6.67E-02	2.85E-06	1.54E-02	7.63E-03	2.09E-02	3.65E-01	2.45E-01	8.56E-01
5457	488604.15	3858488.29	0.10134	0.05322	0.02288	0.1193	0.02	0.106	0.0997	0.05322	7.07E-01	9.83E-02	2.38E-06	4.20E-03	6.41E-03	1.00E-02	7.06E-01	3.62E-01	1.17E+00
5458	488605.66	3858550.47	0.10952	0.06551	0.02014	0.08279	0.019	0.083	0.1398	0.06551	7.64E-01	1.21E-01	2.10E-06	2.91E-03	5.84E-03	7.84E-03	9.91E-01	4.45E-01	1.45E+00
5459	488692.68	3858548.71	0.09977	0.0553	0.02009	0.14501	0.019	0.117	0.0904	0.0553	6.96E-01	1.02E-01	2.09E-06	5.10E-03	6.04E-03	1.10E-02	6.40E-01	3.76E-01	1.08E+00
5460	488759.93	3858461.81	0.07481	0.03984	0.023	0.63112	0.022	0.279	0.0551	0.03984	5.22E-01	7.36E-02	2.39E-06	2.22E-02	6.80E-03	2.62E-02	3.90E-01	2.71E-01	7.70E-01
5461	488816.57	3858541.79	0.09125	0.04475	0.01985	0.83798	0.019	0.375	0.0595	0.04475	6.36E-01	8.26E-02	2.07E-06	2.95E-02	6.08E-03	3.53E-02	4.22E-01	3.04E-01	9.07E-01
5462	488944.63	3858656.77	0.07132	0.05038	0.01724	0.78792	0.017	0.369	0.0604	0.05038	4.97E-01	9.30E-02	1.79E-06	2.77E-02	5.22E-03	3.47E-02	4.28E-01	3.43E-01	7.43E-01
5463	489134.91	3858830.7	0.05701	0.0628	0.01729	1.07789	0.013	0.367	0.0704	0.0628	3.97E-01	1.16E-01	1.80E-06	3.79E-02	4.20E-03	3.45E-02	4.99E-01	4.27E-01	6.62E-01
5464	489193.99	3858886.05	0.0567	0.06843	0.01847	1.17278	0.013	0.375	0.075	0.06843	3.95E-01	1.26E-01	1.92E-06	4.13E-02	3.94E-03	3.52E-02	5.32E-01	4.65E-01	6.68E-01
5465	489295.2	3858954.34	0.05765	0.07214	0.0215	1.03373	0.011	0.362	0.0754	0.07214	4.02E-01	1.33E-01	2.24E-06	3.64E-02	3.60E-03	3.41E-02	5.34E-01	4.91E-01	6.53E-01
5466	489295.64	3858992.74	0.06371	0.08582	0.02351	0.64928	0.011	0.274	0.0899	0.08582	4.44E-01	1.59E-01	2.45E-06	2.29E-02	3.49E-03	2.57E-02	6.37E-01	5.84E-01	7.08E-01
5467	489183.74	3858911.72	0.05944	0.07804	0.019	0.78822	0.012	0.265	0.0869	0.07804	4.14E-01	1.44E-01	1.98E-06	2.77E-02	3.85E-03	2.49E-02	6.15E-01	5.31E-01	7.00E-01
5468	488873.37	3858625.59	0.09027	0.05155	0.01779	0.53577	0.017	0.275	0.0657	0.05155	6.29E-01	9.52E-02	1.85E-06	1.89E-02	5.41E-03	2.58E-02	4.66E-01	3.51E-01	8.90E-01
5469	488842.84	3858658.69	0.09325	0.0605	0.01722	0.20217	0.017	0.143	0.0814	0.0605	6.50E-01	1.12E-01	1.79E-06	7.12E-03	5.34E-03	1.34E-02	5.77E-01	4.11E-01	9.53E-01
5470	488856.39	3858670.93	0.08922	0.06144	0.01703	0.20419	0.017	0.143	0.0817	0.06144	6.22E-01	1.13E-01	1.77E-06	7.19E-03	5.27E-03	1.35E-02	5.79E-01	4.18E-01	9.22E-01
5471	488805.7	3858724.5	0.09669	0.08633	0.01594	0.09423	0.016	0.082	0.135	0.08633	6.74E-01	1.59E-01	1.66E-06	3.32E-03	5.01E-03	7.67E-03	9.56E-01	5.87E-01	1.22E+00
5472	488805.87	3858804.16	0.10029	0.14303	0.01498	0.06931	0.015	0.069	0.3037	0.14303	6.99E-01	2.64E-01	1.56E-06	2.44E-03	4.60E-03	6.51E-03	2.15E+00	9.73E-01	2.16E+00
5473	488995.78	3858936.96	0.09397	0.18472	0.01712	0.09205	0.013	0.072	0.3	0.18472	6.55E-01	3.41E-01	1.78E-06	3.24E-03	4.11E-03	6.75E-03	2.13E+00	1.26E+00	1.88E+00
5474	489130.76	3859017.38	0.08293	0.1969	0.02121	0.1467	0.012	0.075	0.2506	0.1969	5.78E-01	3.64E-01	2.21E-06	5.16E-03	3.75E-03	7.08E-03	1.78E+00	1.34E+00	1.39E+00
5475	489130.92	3859052.24	0.08232	0.30346	0.0225	0.13271	0.012	0.068	0.3945	0.30346	5.74E-01	5.60E-01	2.34E-06	4.67E-03	3.68E-03	6.35E-03	2.79E+00	2.06E+00	1.88E+00
5476	489200.33	3859090.6	0.07861	0.3029	0.02652	0.29451	0.011	0.068	0.358	0.3029	5.48E-01	5.59E-01	2.76E-06	1.04E-02	3.50E-03	6.39E-03	2.54E+00	2.06E+00	1.60E+00
5477	489296.07	3859143.7	0.07911	0.30209	0.03544	0.23252	0.01	0.069	0.3468	0.30209	5.52E-01	5.58E-01	3.69E-06	8.18E-03	3.25E-03	6.47E-03	2.46E+00	2.05E+00	1.53E+00
5478	489296.43	3858954.74	0.05764	0.07206	0.02153	1.02347	0.011	0.36	0.0753	0.07206	4.02E-01	1.33E-01	2.24E-06	3.60E-02	3.59E-03	3.39E-02	5.33E-01	4.90E-01	6.52E-01
5479	489410.33	3859033.19	0.06846	0.07713	0.02858	0.93442	0.01	0.372	0.078	0.07713	4.77E-01	1.42E-01	2.98E-06	3.29E-02	3.26E-03	3.50E-02	5.53E-01	5.24E-01	7.19E-01
5480	489371.37	3859089.8	0.07174	0.11829	0.03366	0.27732	0.01	0.142	0.1235	0.11829	5.00E-01	2.18E-01	3.50E-06	9.76E-03	3.20E-03	1.33E-02	8.75E-01	8.04E-01	8.16E-01
5481	489390.52	3859102.82	0.07297	0.12032	0.03621	0.26663	0.01	0.141	0.1255	0.12032	5.09E-01	2.22E-01	3.77E-06	9.38E-03	3.15E-03	1.32E-02	8.89E-01	8.18E-01	8.28E-01
5482	489382.3	3859114.53	0.07471	0.13543	0.03738	0.23137	0.01	0.116	0.1428	0.13543	5.21E-01	2.50E-01	3.89E-06	8.14E-03	3.15E-03	1.09E-02	1.01E+00	9.21E-01	8.84E-01
5483	489363.04	3859102.45	0.07261	0.13389	0.03477	0.24075	0.01	0.115	0.1414	0.13389	5.06E-01	2.47E-01	3.62E-06	8.47E-03	3.20E-03	1.08E-02	1.00E+00	9.10E-01	8.68E-01
5484	489337.52	3859140.71	0.07708	0.21825	0.03797	0.19821	0.01	0.078	0.2412	0.21825	5.37E-01	4.03E-01	3.95E-06	6.98E-03	3.18E-03	7.31E-03	1.71E+00	1.48E+00	1.18E+00
5485	489375.14	3859164.55	0.08259	0.22698	0.04452	0.17383	0.01	0.078	0.2484	0.22698	5.76E-01	4.19E-01	4.63E-06	6.12E-03	3.08E-03	7.30E-03	1.76E+00	1.54E+00	1.23E+00
5486	489409.3	3859114.5	0.07345	0.12146	0.03891	0.26091	0.01	0.142	0.1265	0.12146	5.12E-01	2.24E-01	4.05E-06	9.18E-03	3.10E-03	1.34E-02	8.96E-01	8.26E-01	8.32E-01
5487	489434.87	3859131.81	0.07757	0.12425	0.04343	0.25143	0.01	0.142	0.1291	0.12425	5.41E-01	2.29E-01	4.52E-06	8.85E-03	3.04E-03	1.33E-02	9.15E-01	8.45E-01	8.65E-01
5488	489471.87	3859075.75	0.06301	0.08015	0.03553	0.96151	0.01	0.379	0.0808	0.08015	4.39E-01	1.48E-01	3.70E-06	3.38E-02	3.10E-03	3.56E-02	5.72E-01	5.45E-01	6.87E-01
5489	489602.62	3859164.69	0.07391	0.087	0.06882	0.63438	0.009	0.384	0.0873	0.087	5.15E-01	1.61E-01	7.16E-06	2.23E-02	2.80E-03	3.61E-02	6.18E-01	5.92E-01	7.64E-01
5490	489558.29	3859232.45	0.07984	0.16146	0.10019	0.18504	0.009	0.113	0.1655	0.16146	5.57E-01	2.98E-01	1.04E-05	6.51E-03	2.73E-03	1.07E-02	1.17E+00	1.10E+00	9.49E-01
5491	489620.11	3859273.56	0.08297	0.17265	0.17306	0.17755	0.008	0.113	0.1765	0.17265	5.78E-01	3.19E-01	1.80E-05	6.25E-03	2.60E-03	1.06E-02	1.25E+00	1.17E+00	9.93E-01
5492	489666.06	3859206.42	0.06526	0.09025	0.10612	0.65213	0.009	0.376	0.0903	0.09025	4.55E-01	1.67E-01	1.10E-05	2.30E-02	2.67E-03	3.54E-02	6.40E-01	6.14E-01	7.09E-01
5493	489787.9	3859285.65	0.07167	0.09652	0.23484	0.62495	0.008	0.364	0.097	0.09652	5.00E-01	1.78E-01	2.44E-05	2.20E-02	2.46E-03	3.42E-02	6.87E-01	6.56E-01	7.67E-01
5494	489752.17	3859343.13	0.07628	0.16788	0.58547	0.20563	0.008	0.14	0.1719	0.16788	5.32E-01	3.10E-01	6.10E-05	7.24E-03	2.39E-03	1.32E-02	1.22E+00	1.14E+00	9.41E-01
5495	489814.94	3859385.33	0.07948	0.18076	2.15263	0.19946	0.007	0.139	0.1854	0.18076	5.54E-01	3.34E-01	2.24E-04	7.02E-03	2.29E-03	1.31E-02	1.31E+00	1.23E+00	9.95E-01
5496	489853.42	3859330.74	0.06324	0.1018	0.61517	0.60076	0.008	0.371	0.1026	0.1018	4.41E-01	1.88E-01	6.40E-05	2.11E-02	2.36E-03	3.48E-02	7.27E-01	6.92E-01	7.22E-01
5497	489969.5	3859401.91	0.07473	0.10678	1.08567	0.81035	0.007	0.402	0.1079	0.10678	5.21E-01	1.97E-01	1.13E-04	2.85E-02	2.20E-03	3.78E-02	7.64E-01	7.26E-01	8.25E-01
5498	490166.91	3859486.96	0.06584	0.09753	0.2574	0.81916	0.007	0.36	0.0978	0.09753	4.59E-01	1.80E-01	2.68E-05	2.88E-02	2.04E-03	3.38E-02	6.93E-01	6.63E-01	7.34E-01
5499	490128.86	3859571.46	0.06567	0.24422	0.12956	0.15135	0.006	0.101	0.2436	0.24422	4.58E-01	4.51E-01	1.35E-05	5.33E-03	1.91E-03	9.45E-03	1.73E+00	1.66E+00	9.91E-01
5500	490186.65	3859593.65	0.06824	0.24607	0.09998	0.16155	0.006	0.113	0.2471	0.24607	4.76E-01	4.54E-01	1.04E-05	5.69E-03	1.87E-03	1.07E-02	1.75E+00	1.67E+00	1.03E+00
5501	490223.74	3859517.48	0.05789	0.10147	0.17738	0.88405	0.006	0.371	0.1015	0.10147	4.04E-01	1.87E-01	1.85E-05	3.11E-02	1.99E-03	3.48E-02	7.19E-01	6.90E-01	6.88E-01
5502	490846.34	3859817.22	0.06033	0.14763	0.02321	0.8978	0.005	0.291	0.1554	0.14763	4.21E-01	2.73E-01	2.42E-06	3.16E-02	1.65E-03	2.74E-02	1.10E+00	1.00E+00	8.51E-01
5503	490925.65	3859844.59	0.06001	0.13647	0.02073	0.90069	0.005	0.282	0.1435	0.13647	4.18E-01	2.52E-01	2.16E-06	3.17E-02	1.63E-03	2.65E-02	1.02E+00	9.28E-01	8.19E-01
5504	491159.29	3859896.28	0.05883	0.09573	0.0174	0.92754	0.005	0.284	0.0958	0.09573	4.10E-01	1.77E-01	1.81E-06	3.26E-02	1.58E-03	2.67E-02	6.79E-01	6.51E-01	6.76E-01
5505	491370.69	3859960.89	0.05184	0.07309	0.01411	0.92959	0.005	0.292	0.0726	0.07309	3.61E-01	1.35E-01	1.47E-06	3.27E-02	1.52E-03	2.75E-02	5.14E-01	4.97E-01	5.75E-01
5506	491330.28	3860063.17	0.05944	0.13634	0.01088	0.10208	0.004	0.085	0.1332	0.13634	4.14E-01	2.52E-01	1.13E-06	3.59E-03	1.38E-03	8.00E-03	9.43E-01	9.27E-01	6.96E-01

5507	491636.45	3860180.75	0.05227	0.07319	0.00861	0.06262	0.004	0.062	0.0746	0.07319	3.64E-01	1.35E-01	8.96E-07	2.20E-03	1.30E-03	5.85E-03	5.29E-01	4.98E-01	5.40E-01
5508	491617.94	3860203.93	0.05997	0.08451	0.00817	0.04972	0.004	0.05	0.0867	0.08451	4.18E-01	1.56E-01	8.51E-07	1.75E-03	1.28E-03	4.68E-03	6.14E-01	5.75E-01	6.22E-01
5509	491805.68	3860271.59	0.0437	0.06329	0.00729	0.03167	0.004	0.045	0.0653	0.06329	3.05E-01	1.17E-01	7.59E-07	1.11E-03	1.24E-03	4.20E-03	4.63E-01	4.30E-01	4.60E-01
5510	491654.23	3860414.02	0.03232	0.32702	0.00547	0.02076	0.004	0.023	0.3566	0.32702	2.25E-01	6.04E-01	5.69E-07	7.31E-04	1.12E-03	2.18E-03	2.53E+00	2.22E+00	1.14E+00
5511	491592.62	3860510.76	0.01131	0.0632	0.00463	0.01734	0.003	0.019	0.0595	0.0632	7.89E-02	1.17E-01	4.82E-07	6.10E-04	1.05E-03	1.74E-03	4.21E-01	4.30E-01	1.91E-01
5512	491475.41	3860368.93	0.02479	0.10634	0.00562	0.02298	0.004	0.023	0.0991	0.10634	1.73E-01	1.96E-01	5.85E-07	8.09E-04	1.13E-03	2.15E-03	7.02E-01	7.23E-01	3.53E-01
5513	491445.61	3860337.28	0.02635	0.11823	0.0059	0.02489	0.004	0.024	0.1117	0.11823	1.84E-01	2.18E-01	6.14E-07	8.76E-04	1.15E-03	2.27E-03	7.92E-01	8.04E-01	3.94E-01
5514	491399.05	3860300.37	0.02711	0.12035	0.00629	0.02754	0.004	0.026	0.1164	0.12035	1.89E-01	2.22E-01	6.55E-07	9.69E-04	1.18E-03	2.43E-03	8.25E-01	8.18E-01	4.22E-01
5515	491228.84	3860235.98	0.02418	0.05917	0.00692	0.03151	0.004	0.027	0.0598	0.05917	1.69E-01	1.09E-01	7.20E-07	1.11E-03	1.22E-03	2.57E-03	4.24E-01	4.02E-01	3.04E-01
5516	491228.47	3860174.57	0.03346	0.11266	0.00797	0.0398	0.004	0.033	0.1174	0.11266	2.33E-01	2.08E-01	8.30E-07	1.40E-03	1.27E-03	3.13E-03	8.32E-01	7.66E-01	5.13E-01
5517	491145.77	3860112.55	0.03156	0.11187	0.0092	0.04884	0.004	0.039	0.118	0.11187	2.20E-01	2.07E-01	9.58E-07	1.72E-03	1.32E-03	3.69E-03	8.36E-01	7.61E-01	5.09E-01
5518	490844.41	3859966.22	0.03085	0.10421	0.01364	0.0748	0.005	0.058	0.0973	0.10421	2.15E-01	1.92E-01	1.42E-06	2.63E-03	1.46E-03	5.45E-03	6.90E-01	7.09E-01	3.98E-01
5519	490845.55	3859928.15	0.0383	0.23038	0.01571	0.10612	0.005	0.085	0.2038	0.23038	2.67E-01	4.25E-01	1.64E-06	3.74E-03	1.51E-03	7.95E-03	1.44E+00	1.57E+00	5.83E-01
5520	490046.91	3859625.6	0.03919	0.1538	0.07277	0.07654	0.006	0.052	0.1546	0.1538	2.73E-01	2.84E-01	7.58E-06	2.69E-03	1.87E-03	4.93E-03	1.10E+00	1.05E+00	6.16E-01
5521	489970.48	3859589.4	0.0407	0.16116	0.10743	0.07771	0.006	0.053	0.1571	0.16116	2.84E-01	2.98E-01	1.12E-05	2.74E-03	1.95E-03	4.94E-03	1.11E+00	1.10E+00	6.08E-01
5522	489865.89	3859529.06	0.04728	0.17602	0.2724	0.08272	0.007	0.055	0.1688	0.17602	3.30E-01	3.25E-01	2.84E-05	2.91E-03	2.08E-03	5.17E-03	1.20E+00	1.20E+00	6.64E-01
5523	489826.89	3859531.74	0.04196	0.11358	0.28446	0.0763	0.007	0.051	0.1096	0.11358	2.93E-01	2.10E-01	2.96E-05	2.69E-03	2.12E-03	4.75E-03	7.77E-01	7.72E-01	5.16E-01
5524	489410.47	3859303.06	0.05181	0.11245	0.07788	0.11773	0.009	0.052	0.1029	0.11245	3.61E-01	2.08E-01	8.11E-06	4.14E-03	2.86E-03	4.92E-03	7.29E-01	7.65E-01	5.46E-01
5525	489407.15	3859286.09	0.05504	0.14552	0.07416	0.12191	0.009	0.054	0.1308	0.14552	3.84E-01	2.69E-01	7.72E-06	4.29E-03	2.89E-03	5.10E-03	9.27E-01	9.90E-01	6.02E-01
5526	488806.07	3858963.62	0.10479	0.12484	0.01486	0.04719	0.012	0.064	0.0578	0.12484	7.31E-01	2.31E-01	1.55E-06	1.66E-03	3.82E-03	5.99E-03	4.10E-01	8.49E-01	5.33E-01
5527	488817.64	3859546.3	0.09816	0.01093	0.01166	0.02596	0.005	0.054	0.0101	0.01093	6.84E-01	2.02E-02	1.21E-06	9.14E-04	1.70E-03	5.05E-03	7.14E-02	7.43E-02	7.09E-01
5528	489187.25	3859549.52	0.06566	0.01548	0.02291	0.24278	0.008	0.04	0.0147	0.01548	4.58E-01	2.86E-02	2.39E-06	8.54E-03	2.56E-03	3.74E-03	1.04E-01	1.05E-01	5.00E-01
5529	489187.66	3859523.74	0.05684	0.01644	0.02389	0.24486	0.008	0.04	0.0156	0.01644	3.96E-01	3.04E-02	2.49E-06	8.62E-03	2.62E-03	3.78E-03	1.10E-01	1.12E-01	4.40E-01
5530	489232.59	3859522.85	0.05366	0.01752	0.02717	0.433	0.009	0.04	0.0166	0.01752	3.74E-01	3.24E-02	2.83E-06	1.52E-02	2.67E-03	3.72E-03	1.18E-01	1.19E-01	4.27E-01
5531	489224.98	3859759.91	0.04907	0.01101	0.01422	0.48585	0.007	0.036	0.0106	0.01101	3.42E-01	2.03E-02	1.48E-06	1.71E-02	2.14E-03	3.38E-03	7.48E-02	7.49E-02	3.85E-01
5532	488401.39	3859763.34	0.08671	0.00681	0.0069	0.01422	0.003	0.312	0.0063	0.00681	6.05E-01	1.26E-02	7.18E-07	5.00E-04	8.59E-04	2.93E-02	4.44E-02	4.63E-02	6.46E-01
5533	488405.51	3859966.16	0.09427	0.00601	0.0061	0.01323	0.002	0.304	0.0056	0.00601	6.57E-01	1.11E-02	6.35E-07	4.66E-04	7.43E-04	2.85E-02	3.97E-02	4.09E-02	6.97E-01
5534	489202.85	3859956.57	0.06068	0.00853	0.0099	0.18746	0.005	0.034	0.0082	0.00853	4.23E-01	1.58E-02	1.03E-06	6.60E-03	1.70E-03	3.19E-03	5.80E-02	5.80E-02	4.50E-01
5535	489191.9	3860676.74	0.03182	0.00496	0.00458	0.30747	0.002	0.024	0.0048	0.00496	2.22E-01	9.16E-03	4.77E-07	1.08E-02	6.86E-04	2.26E-03	3.42E-02	3.37E-02	2.45E-01
5536	488392.82	3860687.88	0.05459	0.00413	0.00343	0.01039	0.002	0.261	0.0039	0.00413	3.81E-01	7.63E-03	3.57E-07	3.66E-04	4.98E-04	2.46E-02	2.76E-02	2.81E-02	4.13E-01
5537	488392.82	3860760.27	0.025	0.00401	0.00326	0.01015	0.002	0.057	0.0038	0.00401	1.74E-01	7.41E-03	3.39E-07	3.57E-04	4.86E-04	5.40E-03	2.69E-02	2.73E-02	1.88E-01
5538	487549.05	3860777.45	0.00847	0.0034	0.00251	0.00651	0.002	0.017	0.0032	0.0034	5.91E-02	6.28E-03	2.61E-07	2.29E-04	7.02E-04	1.57E-03	2.25E-02	2.31E-02	6.72E-02
5539	487554.62	3859571.83	0.05803	0.00574	0.0043	0.00944	0.004	0.119	0.005	0.00574	4.05E-01	1.06E-02	4.48E-07	3.32E-04	1.18E-03	1.12E-02	3.54E-02	3.90E-02	4.24E-01
5540	485949.46	3859558.54	0.00867	0.00395	0.00342	0.00552	0.006	0.012	0.0034	0.00395	6.04E-02	7.30E-03	3.56E-07	1.94E-04	1.85E-03	1.12E-03	2.42E-02	2.69E-02	6.83E-02
5541	485947.55	3857943.61	0.03069	0.01034	0.00773	0.00807	0.021	0.055	0.0054	0.01034	2.14E-01	1.91E-02	8.05E-07	2.84E-04	6.72E-03	5.13E-03	3.79E-02	7.03E-02	2.13E-01
5542	484738.38	3857940.21	0.0104	0.00531	0.00412	0.00553	0.012	0.011	0.0038	0.00531	7.25E-02	9.81E-03	4.29E-07	1.95E-04	3.80E-03	1.07E-03	2.66E-02	3.61E-02	7.78E-02
5543	484737.06	3857535.68	0.01467	0.00665	0.00537	0.00597	0.012	0.014	0.0042	0.00665	1.02E-01	1.23E-02	5.59E-07	2.10E-04	3.90E-03	1.28E-03	2.95E-02	4.52E-02	1.04E-01
5544	483730.2	3857530.13	0.00954	0.00454	0.00521	0.00478	0.008	0.008	0.0034	0.00454	6.65E-02	8.39E-03	5.42E-07	1.68E-04	2.43E-03	7.65E-04	2.37E-02	3.09E-02	7.11E-02
5545	483727.27	3857130.01	0.01906	0.00531	0.0058	0.00512	0.007	0.009	0.0037	0.00531	1.33E-01	9.81E-03	6.04E-07	1.80E-04	2.23E-03	8.57E-04	2.59E-02	3.61E-02	1.36E-01
5546	483124.42	3857123.45	0.01096	0.00442	0.00505	0.00453	0.006	0.007	0.0033	0.00442	7.64E-02	8.16E-03	5.26E-07	1.59E-04	1.80E-03	6.85E-04	2.32E-02	3.01E-02	8.04E-02
5547	483111.13	3855921.03	0.04969	0.00754	0.00914	0.00573	0.007	0.013	0.0043	0.00754	3.46E-01	1.39E-02	9.52E-07	2.02E-04	2.14E-03	1.19E-03	3.07E-02	5.13E-02	3.43E-01
5548	482701.73	3855918.24	0.01818	0.00605	0.00861	0.00515	0.006	0.009	0.004	0.00605	1.27E-01	1.12E-02	8.96E-07	1.81E-04	1.98E-03	8.67E-04	2.82E-02	4.11E-02	1.28E-01
5549	482668.02	3853521.78	0.02945	0.0509	0.00345	0.00584	0.003	0.01	0.0444	0.0509	2.05E-01	9.40E-02	3.59E-07	2.06E-04	8.65E-04	8.97E-04	3.15E-01	3.46E-01	2.70E-01
5550	482579.91	3853219.19	0.02346	0.06135	0.00274	0.00397	0.003	0.006	0.0616	0.06135	1.64E-01	1.13E-01	2.85E-07	1.40E-04	7.93E-04	5.18E-04	4.37E-01	4.17E-01	2.98E-01
5551	482434.06	3852961.94	0.02037	0.0865	0.00218	0.00315	0.002	0.004	0.0881	0.0865	1.42E-01	1.60E-01	2.27E-07	1.11E-04	7.43E-04	3.88E-04	6.24E-01	5.88E-01	3.39E-01
5552	482332.11	3852832.85	0.01802	0.11231	0.00196	0.00286	0.002	0.004	0.1145	0.11231	1.26E-01	2.07E-01	2.04E-07	1.01E-04	7.21E-04	3.42E-04	8.11E-01	7.64E-01	3.82E-01
5553	481334.99	3851818.96	0.01462	0.09264	0.00121	0.00174	0.002	0.002	0.0941	0.09264	1.02E-01	1.71E-01	1.26E-07	6.12E-05	5.70E-04	1.86E-04	6.67E-01	6.30E-01	3.11E-01
5554	481127.62	3851646.36	0.01626	0.07971	0.00111	0.00164	0.002	0.002	0.0799	0.07971	1.13E-01	1.47E-01	1.16E-07	5.77E-05	5.48E-04	1.73E-04	5.66E-01	5.42E-01	2.86E-01
5555	481025.04	3851591.73	0.01533	0.07281	0.00107	0.00161	0.002	0.002	0.0724	0.07281	1.07E-01	1.34E-01	1.11E-07	5.67E-05	5.45E-04	1.68E-04	5.13E-01	4.95E-01	2.60E-01
5556	480513.6	3851335.76	0.01602	0.07452	0.00092	0.00151	0.002	0.002	0.0758	0.07452	1.12E-01	1.38E-01	9.58E-08	5.31E-05	5.17E-04	1.53E-04	5.37E-01	5.07E-01	2.80E-01
5557	480523.56	3851317.66	0.02028	0.1008	0.00092	0.0015	0.002	0.002	0.1028	0.1008	1.41E-01	1.86E-01	9.58E-08	5.28E-05	5.14E-04	1.52E-04	7.28E-01	6.85E-01	3.71E-01
5558	476921.56	3849569.11	0.01412	0.08877	0.00072	0.00097	0.001	0.001	0.0892	0.08877	9.84E-02	1.64E-01	7.50E-08	3.41E-05	3.63E-04	9.96E-05	6.32E-01	6.04E-01	2.91E-01
5559	476521.19	3849373.96	0.01626	0.10687	0.00068	0.00093	0.001	0.001	0.1068	0.10687	1.13E-01	1.97E-01	7.08E-08	3.27E-05	3.54E-04	9.68E-05	7.57E-01	7.27E-01	3.41E-01
5560	476391.45	3849333.38	0.01624	0.1142	0.00067	0.00093	0.001	0.001	0.1146	0.1142	1.13E-01	2.11E-01	6.98E-08	3.27E-05	3.54E-04	9.68E-05	8.12E-01	7.77E-01	3.60E-01
5561	476219.41	3849304.29	0.01497	0.09959	0.00064	0.00093	0.001	0.001	0.1004	0.09959	1.04E-01	1.84E-01	6.66E-08	3.27E-05	3.57E-04	9.68E-05	7.12E-01	6.77E-01	3.23E-01
5562	475679.11	3849218.47	0.0147	0.08088	0.00058	0.00093	0.001	0.001	0.0811	0.08088	1.02E-01	1.49E-01	6.04E-08	3.27E-05	3.67E-04	9.59E-05	5.74E-01	5.50E-01	2.77E-01
5563	475677.71	3849233.88	0.01169	0.06475	0.00058	0.00093	0.001	0.001	0.065	0.06475	8.15E-02	1.20E-01	6.04E-08	3.27E-05	3.70E-04	9.59E-05	4.60E-01	4.40E-01	2.22E-01
5564	475492.74	3849204.66	0.00964	0.04516	0.00055	0.00091	0.001	1E-03	0.0455	0.04516	6.72E-02	8.34E-02	5.73E-08	3.20E-05	3.70E-04	9.21E-05	3.22E-01	3.07E-01	1.66E-01

5565	475497.64	3849158.75	0.02526	0.10633	0.00056	0.00091	0.001	1E-03	0.1069	0.10633	1.76E-01	1.96E-01	5.83E-08	3.20E-05	3.67E-04	9.31E-05	7.57E-01	7.23E-01	4.07E-01
5566	475391.35	3849141.94	0.01365	0.08113	0.00056	0.00092	0.001	1E-03	0.0815	0.08113	9.52E-02	1.50E-01	5.83E-08	3.24E-05	3.67E-04	9.31E-05	5.77E-01	5.52E-01	2.71E-01
5567	475277	3849095.47	0.01283	0.07832	0.00056	0.00092	0.001	1E-03	0.0786	0.07832	8.94E-02	1.45E-01	5.83E-08	3.24E-05	3.67E-04	9.31E-05	5.57E-01	5.33E-01	2.59E-01
5568	475183.93	3849025.66	0.01482	0.10212	0.00056	0.0009	0.001	1E-03	0.1029	0.10212	1.03E-01	1.89E-01	5.83E-08	3.17E-05	3.63E-04	9.21E-05	7.29E-01	6.94E-01	3.27E-01
5569	474453.23	3848378.77	0.00943	0.14587	0.00051	0.00082	0.001	9E-04	0.1469	0.14587	6.57E-02	2.69E-01	5.31E-08	2.89E-05	3.29E-04	8.37E-05	1.04E+00	9.92E-01	3.84E-01
5570	474569.63	3848399.34	0.00899	0.31391	0.00051	0.00082	0.001	9E-04	0.3164	0.31391	6.27E-02	5.80E-01	5.31E-08	2.89E-05	3.26E-04	8.46E-05	2.24E+00	2.13E+00	7.50E-01
5571	474644.33	3848464.52	0.00987	0.31841	0.00051	0.00083	0.001	9E-04	0.3209	0.31841	6.88E-02	5.88E-01	5.31E-08	2.92E-05	3.29E-04	8.46E-05	2.27E+00	2.17E+00	7.66E-01
5572	474719.04	3848529.7	0.01061	0.3249	0.00052	0.00083	0.001	9E-04	0.3273	0.3249	7.40E-02	6.00E-01	5.41E-08	2.92E-05	3.32E-04	8.55E-05	2.32E+00	2.21E+00	7.84E-01
5573	474793.74	3848594.88	0.01119	0.3307	0.00052	0.00084	0.001	9E-04	0.3331	0.3307	7.80E-02	6.11E-01	5.41E-08	2.96E-05	3.38E-04	8.65E-05	2.36E+00	2.25E+00	8.00E-01
5574	474868.45	3848660.07	0.01192	0.33254	0.00052	0.00085	0.001	9E-04	0.3348	0.33254	8.31E-02	6.14E-01	5.41E-08	2.99E-05	3.42E-04	8.65E-05	2.37E+00	2.26E+00	8.09E-01
5575	474943.15	3848725.25	0.01272	0.33857	0.00053	0.00085	0.001	9E-04	0.3408	0.33857	8.87E-02	6.25E-01	5.52E-08	2.99E-05	3.45E-04	8.74E-05	2.41E+00	2.30E+00	8.27E-01
5576	475017.86	3848790.43	0.01363	0.3498	0.00053	0.00086	0.001	9E-04	0.352	0.3498	9.50E-02	6.46E-01	5.52E-08	3.03E-05	3.48E-04	8.84E-05	2.49E+00	2.38E+00	8.57E-01
5577	475092.56	3848855.61	0.01462	0.35722	0.00054	0.00087	0.001	1E-03	0.3595	0.35722	1.02E-01	6.60E-01	5.62E-08	3.06E-05	3.51E-04	8.93E-05	2.55E+00	2.43E+00	8.80E-01
5578	475232.58	3848959.38	0.0186	0.30111	0.00055	0.00089	0.001	1E-03	0.3031	0.30111	1.30E-01	5.56E-01	5.73E-08	3.13E-05	3.57E-04	9.12E-05	2.15E+00	2.05E+00	7.86E-01
5579	475368.47	3849029.98	0.02082	0.31191	0.00055	0.0009	0.001	1E-03	0.3165	0.31191	1.45E-01	5.76E-01	5.73E-08	3.17E-05	3.60E-04	9.21E-05	2.24E+00	2.12E+00	8.43E-01
5580	475609.57	3849096.09	0.02204	0.25967	0.00056	0.0009	0.001	1E-03	0.2626	0.25967	1.54E-01	4.80E-01	5.83E-08	3.17E-05	3.57E-04	9.21E-05	1.86E+00	1.77E+00	7.28E-01
5581	475680.68	3849116.62	0.02105	0.29809	0.00057	0.0009	0.001	1E-03	0.3032	0.29809	1.47E-01	5.51E-01	5.93E-08	3.17E-05	3.57E-04	9.31E-05	2.15E+00	2.03E+00	8.19E-01
5582	475843.76	3849151.52	0.02038	0.36833	0.00059	0.00091	0.001	0.001	0.3736	0.36833	1.42E-01	6.80E-01	6.14E-08	3.20E-05	3.54E-04	9.40E-05	2.65E+00	2.50E+00	9.65E-01
5583	475935.73	3849165.89	0.01997	0.33898	0.00061	0.00091	0.001	0.001	0.3425	0.33898	1.39E-01	6.26E-01	6.35E-08	3.20E-05	3.54E-04	9.49E-05	2.43E+00	2.31E+00	8.87E-01
5584	476027.7	3849180.26	0.02027	0.33873	0.00062	0.00091	0.001	0.001	0.3416	0.33873	1.41E-01	6.26E-01	6.45E-08	3.20E-05	3.51E-04	9.49E-05	2.42E+00	2.30E+00	8.85E-01
5585	476119.68	3849194.64	0.02152	0.35443	0.00063	0.00091	0.001	0.001	0.3566	0.35443	1.50E-01	6.55E-01	6.56E-08	3.20E-05	3.48E-04	9.49E-05	2.53E+00	2.41E+00	9.21E-01
5586	476211.65	3849209.01	0.02209	0.35068	0.00064	0.0009	0.001	0.001	0.352	0.35068	1.54E-01	6.48E-01	6.66E-08	3.17E-05	3.48E-04	9.40E-05	2.49E+00	2.38E+00	9.11E-01
5587	476497.8	3849283.9	0.02318	0.45507	0.00067	0.00091	0.001	0.001	0.4656	0.45507	1.62E-01	8.40E-01	6.98E-08	3.20E-05	3.45E-04	9.40E-05	3.30E+00	3.09E+00	1.21E+00
5588	476603.73	3849323.77	0.02398	0.45322	0.00068	0.00092	0.001	0.001	0.4631	0.45322	1.67E-01	8.37E-01	7.08E-08	3.24E-05	3.45E-04	9.49E-05	3.28E+00	3.08E+00	1.20E+00
5589	476728.99	3849382.76	0.02537	0.4182	0.0007	0.00093	0.001	0.001	0.4255	0.4182	1.77E-01	7.72E-01	7.29E-08	3.27E-05	3.48E-04	9.59E-05	3.01E+00	2.84E+00	1.12E+00
5590	476801.27	3849418.65	0.02629	0.41796	0.0007	0.00093	0.001	0.001	0.4239	0.41796	1.83E-01	7.72E-01	7.29E-08	3.27E-05	3.51E-04	9.59E-05	3.00E+00	2.84E+00	1.12E+00
5591	476956.2	3849495.05	0.02784	0.41813	0.00072	0.00095	0.001	0.001	0.4222	0.41813	1.94E-01	7.72E-01	7.50E-08	3.34E-05	3.54E-04	9.68E-05	2.99E+00	2.84E+00	1.12E+00
5592	477038.84	3849535.56	0.02876	0.42383	0.00072	0.00095	0.001	0.001	0.427	0.42383	2.01E-01	7.83E-01	7.50E-08	3.34E-05	3.54E-04	9.68E-05	3.03E+00	2.88E+00	1.13E+00
5593	477121.48	3849576.08	0.02953	0.4221	0.00073	0.00096	0.001	0.001	0.424	0.4221	2.06E-01	7.80E-01	7.60E-08	3.38E-05	3.57E-04	9.78E-05	3.00E+00	2.87E+00	1.12E+00
5594	477204.13	3849616.6	0.03046	0.42468	0.00073	0.00097	0.001	0.001	0.4253	0.42468	2.12E-01	7.84E-01	7.60E-08	3.41E-05	3.57E-04	9.78E-05	3.01E+00	2.89E+00	1.12E+00
5595	477286.78	3849657.12	0.03158	0.39936	0.00073	0.00097	0.001	0.001	0.3983	0.39936	2.20E-01	7.38E-01	7.60E-08	3.41E-05	3.57E-04	9.78E-05	2.82E+00	2.72E+00	1.06E+00
5596	477369.42	3849697.63	0.03173	0.42449	0.00074	0.00099	0.001	0.001	0.4234	0.42449	2.21E-01	7.84E-01	7.70E-08	3.48E-05	3.63E-04	9.87E-05	3.00E+00	2.89E+00	1.12E+00
5597	477452.07	3849738.15	0.03237	0.4247	0.00074	0.00099	0.001	0.001	0.4212	0.4247	2.26E-01	7.84E-01	7.70E-08	3.48E-05	3.63E-04	9.96E-05	2.98E+00	2.89E+00	1.11E+00
5598	477534.71	3849778.67	0.0328	0.43738	0.00075	0.00101	0.001	0.001	0.4337	0.43738	2.29E-01	8.08E-01	7.81E-08	3.55E-05	3.67E-04	1.01E-04	3.07E+00	2.97E+00	1.14E+00
5599	477617.35	3849819.18	0.03356	0.43578	0.00075	0.00102	0.001	0.001	0.4311	0.43578	2.34E-01	8.05E-01	7.81E-08	3.59E-05	3.70E-04	1.01E-04	3.05E+00	2.96E+00	1.13E+00
5600	477824.74	3849896.37	0.03758	0.28637	0.00075	0.00104	0.001	0.001	0.2839	0.28637	2.62E-01	5.29E-01	7.81E-08	3.66E-05	3.76E-04	1.02E-04	2.01E+00	1.95E+00	8.56E-01
5601	477906.31	3849936.37	0.03871	0.29505	0.00074	0.00104	0.001	0.001	0.2906	0.29505	2.70E-01	5.45E-01	7.70E-08	3.66E-05	3.76E-04	1.02E-04	2.06E+00	2.01E+00	8.68E-01
5602	477987.89	3849976.36	0.0387	0.29547	0.00074	0.00105	0.001	0.001	0.2915	0.29547	2.70E-01	5.46E-01	7.70E-08	3.70E-05	3.79E-04	1.02E-04	2.07E+00	2.01E+00	8.72E-01
5603	478069.47	3850016.36	0.0388	0.29881	0.00074	0.00106	0.001	0.001	0.2935	0.29881	2.71E-01	5.52E-01	7.70E-08	3.73E-05	3.79E-04	1.03E-04	2.08E+00	2.03E+00	8.71E-01
5604	478151.04	3850056.35	0.0389	0.30028	0.00073	0.00107	0.001	0.001	0.2942	0.30028	2.71E-01	5.55E-01	7.60E-08	3.77E-05	3.82E-04	1.03E-04	2.08E+00	2.04E+00	8.69E-01
5605	478232.62	3850096.35	0.03878	0.30338	0.00073	0.00108	0.001	0.001	0.2968	0.30338	2.70E-01	5.60E-01	7.60E-08	3.80E-05	3.85E-04	1.04E-04	2.10E+00	2.06E+00	8.71E-01
5606	478314.2	3850136.34	0.0387	0.30448	0.00074	0.00109	0.001	0.001	0.2972	0.30448	2.70E-01	5.62E-01	7.70E-08	3.84E-05	3.89E-04	1.05E-04	2.11E+00	2.07E+00	8.68E-01
5607	478395.77	3850176.34	0.03882	0.30531	0.00074	0.00111	0.001	0.001	0.2973	0.30531	2.71E-01	5.64E-01	7.70E-08	3.91E-05	3.92E-04	1.07E-04	2.11E+00	2.08E+00	8.66E-01
5608	478575.43	3850244.45	0.04018	0.23338	0.00074	0.00114	0.001	0.001	0.2278	0.23338	2.80E-01	4.31E-01	7.70E-08	4.01E-05	4.01E-04	1.10E-04	1.61E+00	1.59E+00	7.39E-01
5609	478665.06	3850287.29	0.04109	0.23089	0.00074	0.00116	0.001	0.001	0.225	0.23089	2.86E-01	4.26E-01	7.70E-08	4.08E-05	4.07E-04	1.12E-04	1.59E+00	1.57E+00	7.38E-01
5610	478754.69	3850330.14	0.04158	0.22819	0.00074	0.00118	0.001	0.001	0.222	0.22819	2.90E-01	4.21E-01	7.70E-08	4.15E-05	4.10E-04	1.14E-04	1.57E+00	1.55E+00	7.33E-01
5611	478844.32	3850372.99	0.04218	0.22383	0.00074	0.0012	0.001	0.001	0.2176	0.22383	2.94E-01	4.13E-01	7.70E-08	4.22E-05	4.17E-04	1.17E-04	1.54E+00	1.52E+00	7.28E-01
5612	478933.95	3850415.84	0.04321	0.21848	0.00075	0.00121	0.001	0.001	0.2125	0.21848	3.01E-01	4.04E-01	7.81E-08	4.26E-05	4.26E-04	1.19E-04	1.51E+00	1.49E+00	7.25E-01
5613	479023.58	3850458.68	0.04606	0.22115	0.00075	0.00123	0.001	0.001	0.2143	0.22115	3.21E-01	4.08E-01	7.81E-08	4.33E-05	4.32E-04	1.21E-04	1.52E+00	1.50E+00	7.45E-01
5614	479110.66	3850441.9	0.03839	0.12539	0.00074	0.00124	0.001	0.001	0.1234	0.12539	2.68E-01	2.32E-01	7.70E-08	4.36E-05	4.36E-04	1.24E-04	8.74E-01	8.53E-01	5.21E-01
5615	479191.22	3850423.99	0.03724	0.08799	0.00074	0.00124	0.001	0.001	0.0872	0.08799	2.60E-01	1.63E-01	7.70E-08	4.36E-05	4.36E-04	1.25E-04	6.18E-01	5.98E-01	4.42E-01
5616	479274.32	3850465.71	0.04712	0.08895	0.00074	0.00125	0.001	0.001	0.088	0.08895	3.29E-01	1.64E-01	7.70E-08	4.40E-05	4.39E-04	1.27E-04	6.24E-01	6.05E-01	5.12E-01
5617	479357.43	3850507.42	0.0512	0.08982	0.00074	0.00126	0.001	0.001	0.0887	0.08982	3.57E-01	1.66E-01	7.70E-08	4.43E-05	4.45E-04	1.28E-04	6.29E-01	6.11E-01	5.41E-01
5618	479440.53	3850549.14	0.05317	0.08972	0.00075	0.00127	0.001	0.001	0.0885	0.08972	3.71E-01	1.66E-01	7.81E-08	4.47E-05	4.48E-04	1.29E-04	6.27E-01	6.10E-01	5.54E-01
5619	479523.64	3850590.85	0.05419	0.08985	0.00075	0.00128	0.001	0.001	0.0885	0.08985	3.78E-01	1.66E-01	7.81E-08	4.51E-05	4.51E-04	1.30E-04	6.27E-01	6.11E-01	5.61E-01
5620	479606.74	3850632.57	0.05481	0.09058	0.00076	0.00128	0.001	0.001	0.0892	0.09058	3.82E-01	1.67E-01	7.91E-08	4.51E-05	4.57E-04	1.31E-04	6.32E-01	6.16E-01	5.66E-01
5621	479777.37	3850707.61	0.05127	0.08622	0.00077	0.00129	0.001	0.001	0.0849	0.08622	3.57E-01	1.59E-01	8.02E-08	4.54E-05	4.67E-04	1.31E-04	6.01E-01	5.86E-01	5.33E-01
5622	479864.9	3850740.95	0.0458	0.08244	0.00077	0.0013	0.002	0.001	0.0812	0.08244	3.19E-01	1.52E-01	8.02E-08	4.58E-05	4.70E-04	1.32E-04	5.76E-01	5.61E-01	4.87E-01

5623	479931.87	3850829.56	0.04528	0.11438	0.00079	0.00133	0.002	0.001	0.112	0.11438	3.16E-01	2.11E-01	8.22E-08	4.68E-05	4.76E-04	1.34E-04	7.93E-01	7.78E-01	5.43E-01
5624	479995.55	3850926.75	0.0433	0.20578	0.00081	0.00137	0.002	0.001	0.1992	0.20578	3.02E-01	3.80E-01	8.43E-08	4.82E-05	4.79E-04	1.38E-04	1.41E+00	1.40E+00	6.95E-01
5625	480079.78	3850968.64	0.04229	0.20497	0.00082	0.00138	0.002	0.001	0.1996	0.20497	2.95E-01	3.79E-01	8.54E-08	4.86E-05	4.86E-04	1.40E-04	1.41E+00	1.39E+00	6.95E-01
5626	480164.01	3851010.54	0.04183	0.20492	0.00083	0.00139	0.002	0.002	0.2009	0.20492	2.92E-01	3.78E-01	8.64E-08	4.89E-05	4.89E-04	1.41E-04	1.42E+00	1.39E+00	7.01E-01
5627	480248.23	3851052.43	0.04154	0.20363	0.00085	0.0014	0.002	0.002	0.2009	0.20363	2.90E-01	3.76E-01	8.85E-08	4.93E-05	4.92E-04	1.42E-04	1.42E+00	1.38E+00	7.05E-01
5628	480332.46	3851094.33	0.04147	0.20539	0.00086	0.00141	0.002	0.002	0.2035	0.20539	2.89E-01	3.79E-01	8.95E-08	4.96E-05	4.98E-04	1.43E-04	1.44E+00	1.40E+00	7.15E-01
5629	480416.69	3851136.22	0.04158	0.20931	0.00087	0.00142	0.002	0.002	0.2078	0.20931	2.90E-01	3.87E-01	9.06E-08	5.00E-05	5.01E-04	1.44E-04	1.47E+00	1.42E+00	7.27E-01
5630	480579.95	3851215.17	0.04154	0.20622	0.0009	0.00144	0.002	0.002	0.2064	0.20622	2.90E-01	3.81E-01	9.37E-08	5.07E-05	5.08E-04	1.47E-04	1.46E+00	1.40E+00	7.32E-01
5631	480658.98	3851252.22	0.04174	0.20167	0.00092	0.00146	0.002	0.002	0.2028	0.20167	2.91E-01	3.72E-01	9.58E-08	5.14E-05	5.11E-04	1.49E-04	1.44E+00	1.37E+00	7.30E-01
5632	480817.36	3851327.85	0.04286	0.19615	0.00096	0.00149	0.002	0.002	0.199	0.19615	2.99E-01	3.62E-01	9.99E-08	5.24E-05	5.17E-04	1.53E-04	1.41E+00	1.33E+00	7.38E-01
5633	480896.71	3851366.42	0.04301	0.19462	0.00099	0.0015	0.002	0.002	0.1983	0.19462	3.00E-01	3.59E-01	1.03E-07	5.28E-05	5.20E-04	1.56E-04	1.40E+00	1.32E+00	7.42E-01
5634	480976.07	3851405	0.04301	0.193	0.00102	0.00152	0.002	0.002	0.1975	0.193	3.00E-01	3.56E-01	1.06E-07	5.35E-05	5.23E-04	1.59E-04	1.40E+00	1.31E+00	7.44E-01
5635	481178	3851487.31	0.03837	0.15531	0.0011	0.00156	0.002	0.002	0.1588	0.15531	2.68E-01	2.87E-01	1.15E-07	5.49E-05	5.26E-04	1.65E-04	1.13E+00	1.06E+00	6.24E-01
5636	481244.9	3851557.17	0.03691	0.19382	0.00113	0.00159	0.002	0.002	0.1956	0.19382	2.57E-01	3.58E-01	1.18E-07	5.60E-05	5.33E-04	1.70E-04	1.39E+00	1.32E+00	6.84E-01
5637	481311.81	3851627.03	0.03388	0.2224	0.00116	0.00163	0.002	0.002	0.2233	0.2224	2.36E-01	4.11E-01	1.21E-07	5.74E-05	5.42E-04	1.74E-04	1.58E+00	1.51E+00	7.18E-01
5638	481378.71	3851696.89	0.03154	0.21393	0.00118	0.00167	0.002	0.002	0.214	0.21393	2.20E-01	3.95E-01	1.23E-07	5.88E-05	5.51E-04	1.79E-04	1.52E+00	1.45E+00	6.77E-01
5639	481445.61	3851766.76	0.02967	0.21141	0.00121	0.00171	0.002	0.002	0.2116	0.21141	2.07E-01	3.90E-01	1.26E-07	6.02E-05	5.58E-04	1.82E-04	1.50E+00	1.44E+00	6.60E-01
5640	481512.51	3851836.62	0.02892	0.2112	0.00124	0.00175	0.002	0.002	0.2114	0.2112	2.02E-01	3.90E-01	1.29E-07	6.16E-05	5.67E-04	1.87E-04	1.50E+00	1.44E+00	6.54E-01
5641	481579.42	3851906.48	0.02888	0.20981	0.00126	0.00179	0.002	0.002	0.21	0.20981	2.01E-01	3.88E-01	1.31E-07	6.30E-05	5.77E-04	1.92E-04	1.49E+00	1.43E+00	6.51E-01
5642	481646.32	3851976.34	0.02901	0.21162	0.00129	0.00184	0.002	0.002	0.2117	0.21162	2.02E-01	3.91E-01	1.34E-07	6.48E-05	5.86E-04	1.97E-04	1.50E+00	1.44E+00	6.55E-01
5643	481713.22	3852046.2	0.02919	0.21015	0.00131	0.00189	0.002	0.002	0.2103	0.21015	2.04E-01	3.88E-01	1.36E-07	6.65E-05	5.95E-04	2.02E-04	1.49E+00	1.43E+00	6.54E-01
5644	481780.12	3852116.06	0.02939	0.21194	0.00134	0.00194	0.002	0.002	0.2121	0.21194	2.05E-01	3.91E-01	1.40E-07	6.83E-05	6.05E-04	2.08E-04	1.50E+00	1.44E+00	6.59E-01
5645	481847.03	3852185.92	0.02964	0.21488	0.00138	0.002	0.002	0.002	0.215	0.21488	2.07E-01	3.97E-01	1.44E-07	7.04E-05	6.14E-04	2.16E-04	1.52E+00	1.46E+00	6.66E-01
5646	481913.93	3852255.78	0.0299	0.21645	0.00142	0.00206	0.002	0.002	0.2166	0.21645	2.08E-01	4.00E-01	1.48E-07	7.25E-05	6.27E-04	2.25E-04	1.53E+00	1.47E+00	6.72E-01
5647	481980.83	3852325.65	0.03017	0.21905	0.00147	0.00213	0.002	0.003	0.2191	0.21905	2.10E-01	4.05E-01	1.53E-07	7.50E-05	6.36E-04	2.36E-04	1.55E+00	1.49E+00	6.79E-01
5648	482047.73	3852395.51	0.03044	0.21957	0.00152	0.0022	0.002	0.003	0.2199	0.21957	2.12E-01	4.06E-01	1.58E-07	7.74E-05	6.45E-04	2.46E-04	1.56E+00	1.49E+00	6.84E-01
5649	482114.64	3852465.37	0.03067	0.21974	0.00159	0.00227	0.002	0.003	0.22	0.21974	2.14E-01	4.06E-01	1.66E-07	7.99E-05	6.55E-04	2.59E-04	1.56E+00	1.49E+00	6.85E-01
5650	482181.54	3852535.23	0.03096	0.2228	0.00166	0.00236	0.002	0.003	0.223	0.2228	2.16E-01	4.11E-01	1.73E-07	8.31E-05	6.67E-04	2.73E-04	1.58E+00	1.52E+00	6.93E-01
5651	482338.69	3852700.04	0.03177	0.22785	0.00189	0.0026	0.002	0.003	0.2279	0.22785	2.21E-01	4.21E-01	1.97E-07	9.15E-05	6.96E-04	3.12E-04	1.61E+00	1.55E+00	7.09E-01
5652	482404.05	3852767.78	0.03227	0.22617	0.00202	0.00272	0.002	0.004	0.2264	0.22617	2.25E-01	4.18E-01	2.10E-07	9.57E-05	7.08E-04	3.31E-04	1.60E+00	1.54E+00	7.10E-01
5653	482469.4	3852835.52	0.03305	0.22759	0.00218	0.00286	0.002	0.004	0.2275	0.22759	2.30E-01	4.20E-01	2.27E-07	1.01E-04	7.24E-04	3.51E-04	1.61E+00	1.55E+00	7.17E-01
5654	482534.75	3852903.25	0.03503	0.22745	0.00236	0.00303	0.002	0.004	0.2273	0.22745	2.44E-01	4.20E-01	2.46E-07	1.07E-04	7.36E-04	3.71E-04	1.61E+00	1.55E+00	7.29E-01
5655	482600.11	3852970.99	0.03753	0.22195	0.00257	0.00321	0.002	0.004	0.2227	0.22195	2.62E-01	4.10E-01	2.68E-07	1.13E-04	7.52E-04	3.95E-04	1.58E+00	1.51E+00	7.42E-01
5656	482706.71	3853119.28	0.03942	0.1797	0.00298	0.00372	0.003	0.005	0.1823	0.1797	2.75E-01	3.32E-01	3.10E-07	1.31E-04	7.83E-04	4.57E-04	1.29E+00	1.22E+00	6.78E-01
5657	482747.96	3853199.84	0.04025	0.18237	0.0032	0.00406	0.003	0.005	0.1846	0.18237	2.81E-01	3.37E-01	3.33E-07	1.43E-04	7.99E-04	5.03E-04	1.31E+00	1.24E+00	6.87E-01
5658	482789.21	3853280.4	0.04197	0.17218	0.00346	0.00447	0.003	0.006	0.1767	0.17218	2.93E-01	3.18E-01	3.60E-07	1.57E-04	8.18E-04	5.61E-04	1.25E+00	1.17E+00	6.93E-01
5659	482830.46	3853360.96	0.04442	0.14521	0.00373	0.00499	0.003	0.007	0.1582	0.14521	3.10E-01	2.68E-01	3.88E-07	1.76E-04	8.37E-04	6.41E-04	1.12E+00	9.87E-01	7.13E-01
5660	482871.71	3853441.52	0.04706	0.1247	0.00403	0.00568	0.003	0.008	0.1428	0.1247	3.28E-01	2.30E-01	4.20E-07	2.00E-04	8.55E-04	7.60E-04	1.01E+00	8.48E-01	7.24E-01
5661	482912.95	3853522.07	0.05011	0.10879	0.00433	0.00666	0.003	0.01	0.1339	0.10879	3.49E-01	2.01E-01	4.51E-07	2.34E-04	8.77E-04	9.50E-04	9.49E-01	7.40E-01	7.62E-01
5662	482954.2	3853602.63	0.05342	0.08951	0.00465	0.00812	0.003	0.013	0.1278	0.08951	3.72E-01	1.65E-01	4.84E-07	2.86E-04	8.99E-04	1.27E-03	9.05E-01	6.09E-01	8.37E-01
5663	482995.45	3853683.19	0.05691	0.07488	0.005	0.01058	0.003	0.021	0.1226	0.07488	3.97E-01	1.38E-01	5.21E-07	3.72E-04	9.27E-04	1.94E-03	8.68E-01	5.09E-01	8.98E-01
5664	483036.7	3853763.75	0.06077	0.06427	0.00538	0.01545	0.003	0.04	0.1182	0.06427	4.24E-01	1.19E-01	5.60E-07	5.44E-04	9.53E-04	3.77E-03	8.37E-01	4.37E-01	9.48E-01
5665	483214.2	3853909.91	0.0708	0.03611	0.00572	0.12116	0.003	0.196	0.066	0.03611	4.94E-01	6.67E-02	5.95E-07	4.26E-03	1.02E-03	1.84E-02	4.68E-01	2.46E-01	8.06E-01
5666	483307.01	3853910.44	0.06679	0.03004	0.00521	0.10048	0.003	0.114	0.0512	0.03004	4.66E-01	5.55E-02	5.42E-07	3.54E-03	1.02E-03	1.07E-02	3.63E-01	2.04E-01	6.95E-01
5667	483399.83	3853910.96	0.06241	0.02556	0.00496	0.07614	0.003	0.079	0.042	0.02556	4.35E-01	4.72E-02	5.16E-07	2.68E-03	1.03E-03	7.46E-03	2.98E-01	1.74E-01	6.17E-01
5668	483494.52	3854009.24	0.07121	0.02293	0.0057	0.12495	0.003	0.086	0.0465	0.02293	4.96E-01	4.24E-02	5.93E-07	4.40E-03	1.07E-03	8.06E-03	3.29E-01	1.56E-01	7.26E-01
5669	483496.41	3854106.98	0.07511	0.02347	0.00677	0.25774	0.004	0.139	0.0682	0.02347	5.24E-01	4.33E-02	7.05E-07	9.07E-03	1.11E-03	1.30E-02	4.83E-01	1.60E-01	9.14E-01
5670	483577.56	3854261.96	0.0775	0.02106	0.009	0.76009	0.004	0.334	0.1261	0.02106	5.40E-01	3.89E-02	9.37E-07	2.68E-02	1.19E-03	3.14E-02	8.93E-01	1.43E-01	1.39E+00
5671	483656.83	3854319.19	0.0789	0.01897	0.01099	0.96169	0.004	0.322	0.1343	0.01897	5.50E-01	3.50E-02	1.14E-06	3.38E-02	1.20E-03	3.02E-02	9.52E-01	1.29E-01	1.47E+00
5672	483736.1	3854376.41	0.08108	0.01727	0.01536	0.9573	0.004	0.308	0.1427	0.01727	5.65E-01	3.19E-02	1.60E-06	3.37E-02	1.23E-03	2.89E-02	1.01E+00	1.17E-01	1.55E+00
5673	483815.36	3854433.64	0.0836	0.01593	0.02003	0.9691	0.004	0.296	0.1534	0.01593	5.83E-01	2.94E-02	2.09E-06	3.41E-02	1.26E-03	2.78E-02	1.09E+00	1.08E-01	1.65E+00
5674	483894.63	3854490.87	0.0866	0.01481	0.02629	0.98243	0.004	0.283	0.1654	0.01481	6.04E-01	2.74E-02	2.74E-06	3.46E-02	1.29E-03	2.66E-02	1.17E+00	1.01E-01	1.76E+00
5675	483973.9	3854548.09	0.09025	0.01395	0.03409	0.98591	0.004	0.269	0.1777	0.01395	6.29E-01	2.58E-02	3.55E-06	3.47E-02	1.32E-03	2.53E-02	1.26E+00	9.49E-02	1.88E+00
5676	484053.17	3854605.32	0.09382	0.01343	0.04221	1.00847	0.004	0.261	0.1966	0.01343	6.54E-01	2.48E-02	4.39E-06	3.55E-02	1.36E-03	2.45E-02	1.39E+00	9.13E-02	2.04E+00
5677	484214.97	3854698.15	0.09548	0.0126	0.04953	0.94975	0.005	0.22	0.2029	0.0126	6.66E-01	2.33E-02	5.16E-06	3.34E-02	1.43E-03	2.07E-02	1.44E+00	8.57E-02	2.10E+00
5678	484297.5	3854733.74	0.09495	0.01244	0.04977	0.99342	0.005	0.221	0.2064	0.01244	6.62E-01	2.30E-02	5.18E-06	3.50E-02	1.46E-03	2.08E-02	1.46E+00	8.46E-02	2.12E+00
5679	484380.03	3854769.34	0.09665	0.01212	0.04789	1.05288	0.005	0.213	0.2027	0.01212	6.74E-01	2.24E-02	4.99E-06	3.71E-02	1.49E-03	2.00E-02	1.44E+00	8.24E-02	2.11E+00
5680	484462.56	3854804.94	0.09763	0.01204	0.04567	1.11756	0.005	0.208	0.2016	0.01204	6.81E-01	2.22E-02	4.75E-06	3.93E-02	1.54E-03	1.96E-02	1.43E+00	8.19E-02	2.11E+00

5681	484545.09	3854840.53	0.09955	0.01173	0.04162	1.02194	0.005	0.197	0.1938	0.01173	6.94E-01	2.17E-02	4.33E-06	3.60E-02	1.58E-03	1.85E-02	1.37E+00	7.98E-02	2.06E+00
5682	484691.88	3854912.58	0.10009	0.01174	0.03516	0.91386	0.005	0.207	0.2037	0.01174	6.98E-01	2.17E-02	3.66E-06	3.22E-02	1.68E-03	1.95E-02	1.44E+00	7.98E-02	2.14E+00
5683	484830.81	3855012.51	0.09809	0.01191	0.02855	0.92674	0.006	0.22	0.1721	0.01191	6.84E-01	2.20E-02	2.97E-06	3.26E-02	1.82E-03	2.07E-02	1.22E+00	8.10E-02	1.90E+00
5684	484905.48	3855075.97	0.09739	0.01237	0.02544	0.94854	0.006	0.211	0.159	0.01237	6.79E-01	2.28E-02	2.65E-06	3.34E-02	1.92E-03	1.98E-02	1.13E+00	8.41E-02	1.80E+00
5685	484980.14	3855139.44	0.09702	0.01263	0.02274	0.96398	0.006	0.208	0.1506	0.01263	6.76E-01	2.33E-02	2.37E-06	3.39E-02	2.02E-03	1.96E-02	1.07E+00	8.59E-02	1.74E+00
5686	485054.81	3855202.91	0.09706	0.01273	0.02079	0.81555	0.007	0.202	0.1423	0.01273	6.77E-01	2.35E-02	2.16E-06	2.87E-02	2.13E-03	1.90E-02	1.01E+00	8.66E-02	1.67E+00
5687	485129.48	3855266.37	0.09785	0.01258	0.01932	0.71572	0.007	0.194	0.1319	0.01258	6.82E-01	2.32E-02	2.01E-06	2.52E-02	2.24E-03	1.83E-02	9.34E-01	8.55E-02	1.60E+00
5688	485204.15	3855329.84	0.0971	0.01288	0.01946	0.81507	0.008	0.199	0.1299	0.01288	6.77E-01	2.38E-02	2.03E-06	2.87E-02	2.38E-03	1.87E-02	9.20E-01	8.76E-02	1.58E+00
5689	485278.82	3855393.31	0.09709	0.01294	0.02037	0.73281	0.008	0.194	0.1234	0.01294	6.77E-01	2.39E-02	2.12E-06	2.58E-02	2.53E-03	1.82E-02	8.75E-01	8.80E-02	1.53E+00
5690	485353.48	3855456.77	0.0967	0.01313	0.02104	0.7799	0.009	0.194	0.1188	0.01313	6.74E-01	2.43E-02	2.19E-06	2.74E-02	2.69E-03	1.82E-02	8.42E-01	8.93E-02	1.50E+00
5691	485428.15	3855520.24	0.0967	0.01318	0.02336	0.58737	0.009	0.189	0.113	0.01318	6.74E-01	2.43E-02	2.43E-06	2.07E-02	2.87E-03	1.77E-02	8.01E-01	8.96E-02	1.45E+00
5692	485502.82	3855583.71	0.09656	0.01326	0.02672	0.79237	0.01	0.187	0.1085	0.01326	6.73E-01	2.45E-02	2.78E-06	2.79E-02	3.07E-03	1.76E-02	7.69E-01	9.02E-02	1.42E+00
5693	485577.49	3855647.17	0.09589	0.01355	0.0312	0.55654	0.011	0.186	0.1058	0.01355	6.69E-01	2.50E-02	3.25E-06	1.96E-02	3.31E-03	1.75E-02	7.49E-01	9.21E-02	1.39E+00
5694	485652.16	3855710.64	0.09526	0.01384	0.03762	0.77733	0.011	0.184	0.1029	0.01384	6.64E-01	2.56E-02	3.92E-06	2.74E-02	3.59E-03	1.73E-02	7.29E-01	9.41E-02	1.37E+00
5695	485726.83	3855774.1	0.09504	0.01393	0.04281	0.54895	0.012	0.181	0.0987	0.01393	6.63E-01	2.57E-02	4.46E-06	1.93E-02	3.89E-03	1.70E-02	6.99E-01	9.47E-02	1.33E+00
5696	485801.49	3855837.57	0.09507	0.01389	0.04624	0.63975	0.013	0.177	0.0943	0.01389	6.63E-01	2.57E-02	4.81E-06	2.25E-02	4.23E-03	1.66E-02	6.68E-01	9.44E-02	1.31E+00
5697	485876.16	3855901.04	0.09484	0.01396	0.04768	0.5238	0.015	0.177	0.0915	0.01396	6.61E-01	2.58E-02	4.96E-06	1.84E-02	4.62E-03	1.67E-02	6.48E-01	9.49E-02	1.28E+00
5698	485950.83	3855964.5	0.09476	0.01394	0.04612	0.60728	0.016	0.175	0.0886	0.01394	6.61E-01	2.57E-02	4.80E-06	2.14E-02	5.07E-03	1.64E-02	6.28E-01	9.48E-02	1.26E+00
5699	486025.5	3856027.97	0.09495	0.0138	0.04187	0.50575	0.018	0.172	0.085	0.0138	6.62E-01	2.55E-02	4.36E-06	1.78E-02	5.57E-03	1.62E-02	6.02E-01	9.38E-02	1.24E+00
5700	486100.17	3856091.44	0.09399	0.01416	0.03779	0.57766	0.02	0.171	0.0847	0.01416	6.55E-01	2.62E-02	3.93E-06	2.03E-02	6.25E-03	1.61E-02	6.00E-01	9.63E-02	1.23E+00
5701	486174.83	3856154.9	0.09422	0.01395	0.03216	0.50297	0.022	0.167	0.0806	0.01395	6.57E-01	2.58E-02	3.35E-06	1.77E-02	6.98E-03	1.57E-02	5.71E-01	9.49E-02	1.20E+00
5702	486249.5	3856218.37	0.09514	0.01347	0.02665	0.53233	0.025	0.163	0.0756	0.01347	6.63E-01	2.49E-02	2.77E-06	1.87E-02	7.75E-03	1.53E-02	5.35E-01	9.16E-02	1.17E+00
5703	486324.17	3856281.84	0.09585	0.01314	0.02239	0.50912	0.028	0.163	0.0734	0.01314	6.68E-01	2.43E-02	2.33E-06	1.79E-02	8.74E-03	1.53E-02	5.20E-01	8.94E-02	1.17E+00
5704	486398.84	3856345.3	0.09507	0.01329	0.01977	0.52197	0.032	0.163	0.0741	0.01329	6.63E-01	2.45E-02	2.06E-06	1.84E-02	1.01E-02	1.54E-02	5.25E-01	9.04E-02	1.17E+00
5705	486473.51	3856408.77	0.09459	0.01332	0.01757	0.50517	0.038	0.163	0.0727	0.01332	6.59E-01	2.46E-02	1.83E-06	1.78E-02	1.18E-02	1.53E-02	5.15E-01	9.06E-02	1.15E+00
5706	486548.17	3856472.24	0.09363	0.0135	0.01594	0.51252	0.045	0.162	0.0721	0.0135	6.53E-01	2.49E-02	1.66E-06	1.80E-02	1.40E-02	1.52E-02	5.11E-01	9.18E-02	1.14E+00
5707	486622.84	3856535.7	0.09259	0.0137	0.01454	0.73905	0.054	0.159	0.071	0.0137	6.46E-01	2.53E-02	1.51E-06	2.60E-02	1.70E-02	1.50E-02	5.03E-01	9.32E-02	1.14E+00
5708	486765.48	3856659.69	0.09089	0.01425	0.01252	0.52398	0.085	0.159	0.068	0.01425	6.34E-01	2.63E-02	1.30E-06	1.84E-02	2.66E-02	1.50E-02	4.82E-01	9.69E-02	1.11E+00
5709	486833.44	3856720.2	0.09053	0.01447	0.01184	0.95145	0.11	0.162	0.0671	0.01447	6.31E-01	2.67E-02	1.23E-06	3.35E-02	3.45E-02	1.52E-02	4.75E-01	9.84E-02	1.12E+00
5710	486901.41	3856780.72	0.09005	0.01478	0.01143	0.92514	0.15	0.164	0.0661	0.01478	6.28E-01	2.73E-02	1.19E-06	3.26E-02	4.70E-02	1.54E-02	4.68E-01	1.01E-01	1.12E+00
5711	486969.38	3856841.24	0.08964	0.01505	0.01113	0.89424	0.219	0.165	0.0653	0.01505	6.25E-01	2.78E-02	1.16E-06	3.15E-02	6.88E-02	1.56E-02	4.62E-01	1.02E-01	1.13E+00
5712	487037.34	3856901.75	0.0893	0.01532	0.01094	0.8653	0.365	0.167	0.0646	0.01532	6.23E-01	2.83E-02	1.14E-06	3.05E-02	1.14E-01	1.57E-02	4.58E-01	1.04E-01	1.16E+00
5713	487271.23	3856855.51	0.05874	0.01356	0.01021	0.11549	1.325	0.06	0.0359	0.01356	4.10E-01	2.50E-02	1.06E-06	4.06E-03	4.15E-01	5.68E-03	2.54E-01	9.22E-02	1.02E+00
5714	487368.95	3856857.29	0.05385	0.01313	0.00986	0.08932	1.594	0.051	0.0314	0.01313	3.75E-01	2.43E-02	1.03E-06	3.14E-03	4.99E-01	4.82E-03	2.22E-01	8.93E-02	1.04E+00
5715	487466.68	3856859.06	0.04986	0.01278	0.00979	0.07316	1.66	0.045	0.028	0.01278	3.48E-01	2.36E-02	1.02E-06	2.57E-03	5.20E-01	4.22E-03	1.98E-01	8.69E-02	1.01E+00
5716	487636.44	3856930	0.04637	0.01266	0.00935	0.06265	2.158	0.041	0.0253	0.01266	3.23E-01	2.34E-02	9.73E-07	2.21E-03	6.76E-01	3.85E-03	1.79E-01	8.61E-02	1.12E+00
5717	487709.57	3856928.43	0.04413	0.01241	0.00924	0.05618	2.056	0.038	0.0235	0.01241	3.08E-01	2.29E-02	9.62E-07	1.98E-03	6.44E-01	3.57E-03	1.67E-01	8.44E-02	1.06E+00
5718	487782.55	3856841.96	0.04038	0.01158	0.00955	0.0459	1.217	0.033	0.0205	0.01158	2.82E-01	2.14E-02	9.94E-07	1.62E-03	3.81E-01	3.06E-03	1.45E-01	7.87E-02	7.56E-01
5719	487849.83	3856754.74	0.0375	0.0109	0.00985	0.03919	0.922	0.029	0.0183	0.0109	2.61E-01	2.01E-02	1.03E-06	1.38E-03	2.89E-01	2.70E-03	1.30E-01	7.41E-02	6.30E-01
5720	487918.03	3856819.39	0.03724	0.01113	0.0096	0.03939	1.344	0.029	0.0183	0.01113	2.60E-01	2.06E-02	9.99E-07	1.39E-03	4.21E-01	2.74E-03	1.30E-01	7.57E-02	7.59E-01
5721	487918.8	3856886.37	0.0383	0.01153	0.0094	0.04213	1.595	0.031	0.0192	0.01153	2.67E-01	2.13E-02	9.79E-07	1.48E-03	5.00E-01	2.91E-03	1.36E-01	7.84E-02	8.50E-01
5722	488065.46	3857127.5	0.03994	0.0126	0.01022	0.04785	2.128	0.035	0.0208	0.0126	2.78E-01	2.33E-02	1.06E-06	1.68E-03	6.67E-01	3.34E-03	1.47E-01	8.57E-02	1.04E+00
5723	488192.19	3857385.83	0.04321	0.01455	0.01538	0.05866	1.807	0.044	0.0235	0.01455	3.01E-01	2.69E-02	1.60E-06	2.06E-03	5.66E-01	4.18E-03	1.66E-01	9.89E-02	9.68E-01
5724	488191.21	3857473.87	0.04608	0.01563	0.01954	0.068	1.674	0.051	0.0257	0.01563	3.21E-01	2.89E-02	2.03E-06	2.39E-03	5.24E-01	4.78E-03	1.82E-01	1.06E-01	9.57E-01
5725	488190.24	3857561.9	0.0496	0.0169	0.02562	0.08112	1.5	0.06	0.0284	0.0169	3.46E-01	3.12E-02	2.67E-06	2.86E-03	4.70E-01	5.61E-03	2.01E-01	1.15E-01	9.42E-01
5726	488158.35	3857691.13	0.05872	0.01937	0.0416	0.12622	0.998	0.088	0.0355	0.01937	4.09E-01	3.58E-02	4.33E-06	4.44E-03	3.13E-01	8.28E-03	2.51E-01	1.32E-01	8.90E-01
5727	488208.37	3857816.66	0.06639	0.02168	0.06647	0.17892	0.179	0.138	0.0405	0.02168	4.63E-01	4.00E-02	6.92E-06	6.30E-03	5.60E-02	1.30E-02	2.87E-01	1.47E-01	7.18E-01
5728	488271.97	3857874.6	0.06675	0.02245	0.07301	0.17955	0.105	0.144	0.0403	0.02245	4.65E-01	4.15E-02	7.60E-06	6.32E-03	3.28E-02	1.36E-02	2.85E-01	1.53E-01	6.92E-01
5729	488463.56	3857942.31	0.05808	0.02202	0.06371	0.11776	0.076	0.102	0.0337	0.02202	4.05E-01	4.07E-02	6.63E-06	4.14E-03	2.39E-02	9.57E-03	2.39E-01	1.50E-01	5.72E-01
5730	488554.83	3857940.83	0.0533	0.02093	0.05712	0.09391	0.077	0.085	0.0299	0.02093	3.72E-01	3.87E-02	5.95E-06	3.31E-03	2.41E-02	8.02E-03	2.12E-01	1.42E-01	5.15E-01
5731	488646.1	3857939.36	0.04978	0.01995	0.05162	0.07916	0.076	0.074	0.027	0.01995	3.47E-01	3.68E-02	5.37E-06	2.79E-03	2.40E-02	6.97E-03	1.91E-01	1.36E-01	4.73E-01
5732	488737.37	3857937.88	0.0472	0.01905	0.04699	0.06935	0.076	0.066	0.0246	0.01905	3.29E-01	3.52E-02	4.89E-06	2.44E-03	2.38E-02	6.21E-03	1.75E-01	1.30E-01	4.42E-01
5733	488733.59	3857960.57	0.04848	0.0195	0.04717	0.07247	0.069	0.068	0.0253	0.0195	3.38E-01	3.60E-02	4.91E-06	2.55E-03	2.18E-02	6.41E-03	1.79E-01	1.33E-01	4.51E-01
5734	488638.09	3857961.57	0.05126	0.02049	0.05221	0.08398	0.07	0.077	0.0279	0.02049	3.57E-01	3.78E-02	5.44E-06	2.96E-03	2.19E-02	7.27E-03	1.98E-01	1.39E-01	4.86E-01
5735	488542.6	3857962.56	0.05523	0.0216	0.0583	0.10195	0.07	0.09	0.0313	0.0216	3.85E-01	3.99E-02	6.07E-06	3.59E-03	2.19E-02	8.50E-03	2.22E-01	1.47E-01	5.34E-01
5736	488447.1	3857963.56	0.06088	0.0228	0.06567	0.13313	0.069	0.111	0.0356	0.0228	4.24E-01	4.21E-02	6.84E-06	4.69E-03	2.16E-02	1.04E-02	2.52E-01	1.55E-01	6.00E-01
5737	488254.28	3857890.36	0.07074	0.02314	0.07718	0.2152	0.092	0.164	0.0428	0.02314	4.93E-01	4.27E-02	8.03E-06	7.57E-03	2.87E-02	1.54E-02	3.04E-01	1.57E-01	7.34E-01
5738	488191.69	3857833.06	0.07031	0.02228	0.07103	0.21423	0.146	0.161	0.043	0.02228	4.90E-01	4.11E-02	7.39E-06	7.54E-03	4.57E-02	1.52E-02	3.05E-01	1.52E-01	7.53E-01

5739	488129.5	3857907.43	0.10024	0.02559	0.09478	0.92366	0.068	0.397	0.0586	0.02559	6.99E-01	4.73E-02	9.87E-06	3.25E-02	2.14E-02	3.73E-02	4.15E-01	1.74E-01	1.08E+00
5740	488196.47	3857968.73	0.10106	0.02678	0.09493	0.92922	0.055	0.362	0.0583	0.02678	7.05E-01	4.95E-02	9.88E-06	3.27E-02	1.72E-02	3.40E-02	4.13E-01	1.82E-01	1.07E+00
5741	488263.44	3858030.04	0.10197	0.028	0.08497	0.92822	0.047	0.353	0.0576	0.028	7.11E-01	5.17E-02	8.85E-06	3.27E-02	1.46E-02	3.32E-02	4.08E-01	1.90E-01	1.06E+00
5742	488400.64	3858132.9	0.10005	0.02973	0.05861	0.6123	0.038	0.276	0.0537	0.02973	6.98E-01	5.49E-02	6.10E-06	2.16E-02	1.19E-02	2.60E-02	3.80E-01	2.02E-01	9.90E-01
5743	488519.89	3858218.38	0.10101	0.03184	0.04333	0.44543	0.032	0.227	0.052	0.03184	7.04E-01	5.88E-02	4.51E-06	1.57E-02	1.01E-02	2.13E-02	3.69E-01	2.17E-01	9.62E-01
5744	488647.97	3858214.99	0.08729	0.0284	0.03836	0.18051	0.033	0.125	0.0404	0.0284	6.09E-01	5.25E-02	3.99E-06	6.35E-03	1.04E-02	1.17E-02	2.86E-01	1.93E-01	7.82E-01
5745	488727.05	3858167.67	0.07683	0.02503	0.03847	0.11662	0.036	0.092	0.0332	0.02503	5.36E-01	4.62E-02	4.00E-06	4.10E-03	1.14E-02	8.66E-03	2.35E-01	1.70E-01	6.71E-01
5746	488806.12	3858120.35	0.07026	0.02239	0.03835	0.08877	0.041	0.075	0.0283	0.02239	4.90E-01	4.14E-02	3.99E-06	3.12E-03	1.28E-02	7.09E-03	2.01E-01	1.52E-01	6.03E-01
5747	488885.2	3858073.03	0.06548	0.02029	0.03782	0.07326	0.047	0.065	0.0248	0.02029	4.57E-01	3.75E-02	3.94E-06	2.58E-03	1.47E-02	6.10E-03	1.75E-01	1.38E-01	5.55E-01
5748	489055.76	3857991.17	0.0603	0.01718	0.03458	0.05686	0.061	0.051	0.0199	0.01718	4.20E-01	3.17E-02	3.60E-06	2.00E-03	1.90E-02	4.82E-03	1.41E-01	1.17E-01	5.02E-01
5749	489245.39	3857944.54	0.06111	0.01517	0.03052	0.04844	0.068	0.043	0.017	0.01517	4.26E-01	2.80E-02	3.18E-06	1.70E-03	2.13E-02	4.03E-03	1.20E-01	1.03E-01	4.98E-01
5750	489430.63	3857930.91	0.06262	0.01403	0.02726	0.04486	0.068	0.038	0.0152	0.01403	4.37E-01	2.59E-02	2.84E-06	1.58E-03	2.12E-02	3.57E-03	1.08E-01	9.54E-02	5.01E-01
5751	489517.74	3857929.36	0.06245	0.01359	0.02565	0.04424	0.067	0.036	0.0146	0.01359	4.35E-01	2.51E-02	2.67E-06	1.56E-03	2.08E-02	3.40E-03	1.03E-01	9.24E-02	4.97E-01
5752	489604.85	3857927.82	0.06154	0.01316	0.02406	0.04383	0.065	0.035	0.014	0.01316	4.29E-01	2.43E-02	2.50E-06	1.54E-03	2.05E-02	3.25E-03	9.91E-02	8.95E-02	4.88E-01
5753	489691.97	3857926.28	0.06032	0.01278	0.02268	0.04315	0.064	0.033	0.0135	0.01278	4.21E-01	2.36E-02	2.36E-06	1.52E-03	2.01E-02	3.12E-03	9.53E-02	8.69E-02	4.77E-01
5754	489779.08	3857924.73	0.05895	0.01242	0.02134	0.04296	0.063	0.032	0.013	0.01242	4.11E-01	2.29E-02	2.22E-06	1.51E-03	1.97E-02	2.99E-03	9.18E-02	8.45E-02	4.66E-01
5755	490017.55	3857875.08	0.04784	0.01124	0.01871	0.04029	0.064	0.028	0.0116	0.01124	3.34E-01	2.08E-02	1.95E-06	1.42E-03	2.01E-02	2.64E-03	8.19E-02	7.64E-02	3.84E-01
5756	490033.82	3857960.81	0.0471	0.01176	0.01828	0.04827	0.055	0.029	0.012	0.01176	3.28E-01	2.17E-02	1.90E-06	1.70E-03	1.72E-02	2.74E-03	8.47E-02	8.00E-02	3.76E-01
5757	489959.15	3857987.49	0.04689	0.01226	0.01888	0.05122	0.053	0.03	0.0125	0.01226	3.27E-01	2.26E-02	1.97E-06	1.80E-03	1.66E-02	2.87E-03	8.84E-02	8.34E-02	3.76E-01
5758	489791.49	3858016.12	0.04484	0.01305	0.02048	0.05333	0.052	0.033	0.0135	0.01305	3.13E-01	2.41E-02	2.13E-06	1.88E-03	1.62E-02	3.11E-03	9.54E-02	8.87E-02	3.65E-01
5759	489698.51	3858018.07	0.04673	0.01349	0.02188	0.05211	0.052	0.035	0.014	0.01349	3.26E-01	2.49E-02	2.28E-06	1.83E-03	1.64E-02	3.26E-03	9.95E-02	9.17E-02	3.80E-01
5760	489605.52	3858020.01	0.04864	0.01397	0.02335	0.05209	0.053	0.036	0.0147	0.01397	3.39E-01	2.58E-02	2.43E-06	1.83E-03	1.65E-02	3.42E-03	1.04E-01	9.50E-02	3.96E-01
5761	489512.53	3858021.96	0.05061	0.01449	0.02497	0.05237	0.053	0.038	0.0154	0.01449	3.53E-01	2.68E-02	2.60E-06	1.84E-03	1.66E-02	3.60E-03	1.09E-01	9.85E-02	4.12E-01
5762	489419.55	3858023.91	0.05282	0.01507	0.02663	0.05262	0.053	0.041	0.0162	0.01507	3.68E-01	2.78E-02	2.77E-06	1.85E-03	1.67E-02	3.81E-03	1.15E-01	1.02E-01	4.31E-01
5763	489228.47	3858041.29	0.05855	0.01643	0.0293	0.05627	0.052	0.046	0.0183	0.01643	4.08E-01	3.03E-02	3.05E-06	1.98E-03	1.63E-02	4.35E-03	1.29E-01	1.12E-01	4.79E-01
5764	489065.75	3858085.78	0.06292	0.0186	0.03184	0.06502	0.046	0.055	0.0214	0.0186	4.39E-01	3.44E-02	3.31E-06	2.29E-03	1.43E-02	5.15E-03	1.51E-01	1.26E-01	5.20E-01
5765	489001.12	3858114.86	0.06672	0.01981	0.03253	0.07083	0.042	0.06	0.0232	0.01981	4.65E-01	3.66E-02	3.39E-06	2.49E-03	1.31E-02	5.61E-03	1.64E-01	1.35E-01	5.52E-01
5766	488861.89	3858189.81	0.07531	0.02333	0.03284	0.09443	0.035	0.076	0.0289	0.02333	5.25E-01	4.31E-02	3.42E-06	3.32E-03	1.08E-02	7.17E-03	2.04E-01	1.59E-01	6.35E-01
5767	488787.29	3858235.69	0.0805	0.02625	0.0327	0.12339	0.031	0.093	0.0338	0.02625	5.61E-01	4.85E-02	3.40E-06	4.34E-03	9.79E-03	8.77E-03	2.39E-01	1.78E-01	6.93E-01
5768	488712.68	3858281.57	0.08786	0.02975	0.0323	0.18842	0.029	0.126	0.0407	0.02975	6.13E-01	5.49E-02	3.36E-06	6.63E-03	9.07E-03	1.19E-02	2.89E-01	2.02E-01	7.81E-01
5769	488654.39	3858436.17	0.09483	0.04294	0.0252	0.46978	0.022	0.318	0.0678	0.04294	6.61E-01	7.93E-02	2.62E-06	1.65E-02	6.91E-03	2.98E-02	4.80E-01	2.92E-01	9.82E-01
5770	488726.3	3858505.26	0.08592	0.04627	0.02151	0.43398	0.02	0.285	0.0684	0.04627	5.99E-01	8.55E-02	2.24E-06	1.53E-02	6.33E-03	2.68E-02	4.84E-01	3.15E-01	9.03E-01
5771	488880.6	3858599.28	0.09001	0.0474	0.01825	0.72688	0.018	0.372	0.0596	0.0474	6.28E-01	8.75E-02	1.90E-06	2.56E-02	5.63E-03	3.50E-02	4.22E-01	3.22E-01	8.81E-01
5772	489008.06	3858714.75	0.06237	0.05394	0.01675	0.99922	0.015	0.368	0.0628	0.05394	4.35E-01	9.96E-02	1.74E-06	3.52E-02	4.85E-03	3.46E-02	4.45E-01	3.67E-01	6.87E-01
5773	489071.48	3858772.72	0.05853	0.05798	0.01672	0.78348	0.014	0.367	0.0663	0.05798	4.08E-01	1.07E-01	1.74E-06	2.76E-02	4.51E-03	3.45E-02	4.70E-01	3.94E-01	6.57E-01
5774	489244.59	3858920.19	0.05621	0.07017	0.01972	1.23867	0.012	0.348	0.0751	0.07017	3.92E-01	1.30E-01	2.05E-06	4.36E-02	3.76E-03	3.27E-02	5.32E-01	4.77E-01	6.56E-01
5775	489239.69	3858952.23	0.0596	0.08171	0.02083	0.88362	0.012	0.296	0.0881	0.08171	4.16E-01	1.51E-01	2.17E-06	3.11E-02	3.67E-03	2.78E-02	6.24E-01	5.56E-01	6.98E-01
5776	489121.67	3858854.49	0.05943	0.07073	0.01753	0.59432	0.013	0.268	0.081	0.07073	4.14E-01	1.31E-01	1.82E-06	2.09E-02	4.12E-03	2.52E-02	5.74E-01	4.81E-01	6.88E-01
5777	489059.59	3858797.27	0.06038	0.06468	0.01679	0.53986	0.014	0.268	0.0758	0.06468	4.21E-01	1.19E-01	1.75E-06	1.90E-02	4.40E-03	2.52E-02	5.37E-01	4.40E-01	6.86E-01
5778	488997.52	3858740.04	0.06352	0.05953	0.01661	0.54701	0.015	0.27	0.0709	0.05953	4.43E-01	1.10E-01	1.73E-06	1.93E-02	4.71E-03	2.54E-02	5.02E-01	4.05E-01	7.00E-01
5779	488935.44	3858682.82	0.07131	0.05528	0.01696	0.51812	0.016	0.284	0.0674	0.05528	4.97E-01	1.02E-01	1.77E-06	1.82E-02	5.04E-03	2.67E-02	4.78E-01	3.76E-01	7.51E-01
5780	488869.17	3858848.43	0.09634	0.15488	0.01529	0.0755	0.014	0.07	0.3034	0.15488	6.72E-01	2.86E-01	1.59E-06	2.66E-03	4.46E-03	6.59E-03	2.15E+00	1.05E+00	2.07E+00
5781	488932.48	3858892.69	0.09595	0.16855	0.01598	0.08259	0.014	0.071	0.302	0.16855	6.69E-01	3.11E-01	1.66E-06	2.91E-03	4.29E-03	6.68E-03	2.14E+00	1.15E+00	1.99E+00
5782	489063.27	3858977.17	0.08929	0.19057	0.01881	0.10953	0.013	0.074	0.2732	0.19057	6.23E-01	3.52E-01	1.96E-06	3.86E-03	3.93E-03	6.93E-03	1.94E+00	1.30E+00	1.63E+00
5783	489248.2	3859117.15	0.07849	0.30295	0.03034	0.38068	0.011	0.068	0.3527	0.30295	5.47E-01	5.60E-01	3.16E-06	1.34E-02	3.37E-03	6.43E-03	2.50E+00	2.06E+00	1.57E+00
5784	489296.25	3859049.22	0.06847	0.11892	0.02721	0.3275	0.011	0.127	0.1258	0.11892	4.77E-01	2.20E-01	2.83E-06	1.15E-02	3.39E-03	1.19E-02	8.92E-01	8.09E-01	8.07E-01
5785	489353.38	3858993.96	0.06421	0.0745	0.02438	0.94685	0.011	0.367	0.0762	0.0745	4.48E-01	1.38E-01	2.54E-06	3.33E-02	3.42E-03	3.45E-02	5.40E-01	5.07E-01	6.90E-01
5786	489537.24	3859120.22	0.07393	0.08329	0.04749	0.76271	0.009	0.381	0.0838	0.08329	5.15E-01	1.54E-01	4.94E-06	2.68E-02	2.95E-03	3.58E-02	5.94E-01	5.66E-01	7.62E-01
5787	489726.98	3859246.04	0.07278	0.09327	0.16007	0.79914	0.008	0.37	0.0934	0.09327	5.07E-01	1.72E-01	1.67E-05	2.81E-02	2.56E-03	3.48E-02	6.62E-01	6.34E-01	7.73E-01
5788	489911.46	3859366.33	0.07106	0.10329	1.14434	0.79912	0.007	0.355	0.1043	0.10329	4.95E-01	1.91E-01	1.19E-04	2.81E-02	2.29E-03	3.34E-02	7.39E-01	7.02E-01	7.87E-01
5789	490035.3	3859430.26	0.0734	0.10259	0.66974	0.9026	0.007	0.389	0.1034	0.10259	5.12E-01	1.89E-01	6.97E-05	3.18E-02	2.14E-03	3.65E-02	7.33E-01	6.98E-01	8.07E-01
5790	490101.11	3859458.61	0.07088	0.09934	0.40297	0.86992	0.007	0.376	0.1	0.09934	4.94E-01	1.83E-01	4.20E-05	3.06E-02	2.09E-03	3.54E-02	7.08E-01	6.75E-01	7.78E-01
5791	490312.68	3859560.3	0.06461	0.10743	0.11191	0.88583	0.006	0.311	0.1078	0.10743	4.50E-01	1.98E-01	1.17E-05	3.12E-02	1.93E-03	2.92E-02	7.63E-01	7.31E-01	7.44E-01
5792	490401.63	3859603.12	0.06662	0.11417	0.07704	0.8873	0.006	0.307	0.1153	0.11417	4.64E-01	2.11E-01	8.02E-06	3.12E-02	1.87E-03	2.89E-02	8.17E-01	7.76E-01	7.78E-01
5793	490490.57	3859645.94	0.06574	0.12114	0.05654	0.88717	0.006	0.303	0.1231	0.12114	4.58E-01	2.24E-01	5.89E-06	3.12E-02	1.82E-03	2.84E-02	8.72E-01	8.24E-01	7.92E-01
5794	490579.51	3859688.76	0.06421	0.12775	0.04351	0.88693	0.006	0.298	0.1308	0.12775	4.48E-01	2.36E-01	4.53E-06	3.12E-02	1.78E-03	2.80E-02	9.27E-01	8.69E-01	8.02E-01
5795	490668.45	3859731.58	0.06252	0.13142	0.0339	0.87876	0.006	0.288	0.1356	0.13142	4.36E-01	2.43E-01	3.53E-06	3.09E-02	1.74E-03	2.71E-02	9.61E-01	8.94E-01	8.05E-01
5796	490757.4	3859774.4	0.06083	0.14273	0.02793	0.89469	0.005	0.292	0.1485	0.14273	4.24E-01	2.64E-01	2.91E-06	3.15E-02	1.69E-03	2.74E-02	1.05E+00	9.71E-01	8.30E-01

5797	491003.53	3859861.82	0.05913	0.12396	0.01962	0.92598	0.005	0.276	0.1296	0.12396	4.12E-01	2.29E-01	2.04E-06	3.26E-02	1.61E-03	2.59E-02	9.18E-01	8.43E-01	7.77E-01
5798	491081.41	3859879.05	0.05928	0.10968	0.01849	0.98789	0.005	0.284	0.1124	0.10968	4.13E-01	2.03E-01	1.92E-06	3.48E-02	1.59E-03	2.67E-02	7.96E-01	7.46E-01	7.29E-01
5799	491229.76	3859917.82	0.05968	0.08875	0.01631	0.94964	0.005	0.298	0.0881	0.08875	4.16E-01	1.64E-01	1.70E-06	3.34E-02	1.56E-03	2.80E-02	6.24E-01	6.03E-01	6.64E-01
5800	491300.22	3859939.35	0.0578	0.08067	0.01515	0.93699	0.005	0.295	0.0802	0.08067	4.03E-01	1.49E-01	1.58E-06	3.30E-02	1.54E-03	2.77E-02	5.68E-01	5.49E-01	6.34E-01
5801	491350.48	3860012.03	0.0571	0.09641	0.01241	0.25885	0.005	0.266	0.0951	0.09641	3.98E-01	1.78E-01	1.29E-06	9.11E-03	1.44E-03	2.50E-02	6.74E-01	6.56E-01	6.30E-01
5802	491406.82	3860092.56	0.05635	0.11218	0.0102	0.09395	0.004	0.08	0.1114	0.11218	3.93E-01	2.07E-01	1.06E-06	3.31E-03	1.36E-03	7.50E-03	7.89E-01	7.63E-01	6.39E-01
5803	491483.36	3860121.96	0.05622	0.09538	0.00961	0.08541	0.004	0.075	0.0959	0.09538	3.92E-01	1.76E-01	1.00E-06	3.01E-03	1.34E-03	7.02E-03	6.79E-01	6.49E-01	6.10E-01
5804	491559.91	3860151.35	0.05569	0.0831	0.00906	0.07456	0.004	0.068	0.0842	0.0831	3.88E-01	1.53E-01	9.43E-07	2.62E-03	1.32E-03	6.39E-03	5.97E-01	5.65E-01	5.84E-01
5805	491711.81	3860237.76	0.05496	0.06016	0.00798	0.0379	0.004	0.045	0.0619	0.06016	3.83E-01	1.11E-01	8.31E-07	1.33E-03	1.30E-03	4.21E-03	4.38E-01	4.09E-01	5.30E-01
5806	491755.2	3860319.07	0.04562	0.08621	0.00652	0.02597	0.004	0.033	0.0897	0.08621	3.18E-01	1.59E-01	6.79E-07	9.14E-04	1.18E-03	3.06E-03	6.36E-01	5.86E-01	5.32E-01
5807	491704.71	3860366.54	0.04095	0.13848	0.00593	0.02282	0.004	0.027	0.1463	0.13848	2.85E-01	2.56E-01	6.17E-07	8.03E-04	1.15E-03	2.51E-03	1.04E+00	9.42E-01	6.41E-01
5808	491623.42	3860462.39	0.01812	0.15316	0.00498	0.01873	0.003	0.02	0.1348	0.15316	1.26E-01	2.83E-01	5.18E-07	6.59E-04	1.08E-03	1.92E-03	9.55E-01	1.04E+00	3.27E-01
5809	491534.02	3860439.84	0.01907	0.06317	0.00545	0.02056	0.004	0.021	0.0605	0.06317	1.33E-01	1.17E-01	5.67E-07	7.24E-04	1.14E-03	2.01E-03	4.29E-01	4.30E-01	2.53E-01
5810	491313.95	3860268.17	0.02515	0.0783	0.00656	0.02941	0.004	0.026	0.0781	0.0783	1.75E-01	1.45E-01	6.83E-07	1.04E-03	1.19E-03	2.49E-03	5.53E-01	5.32E-01	3.45E-01
5811	491187.12	3860143.56	0.03135	0.11141	0.00857	0.04415	0.004	0.036	0.1174	0.11141	2.19E-01	2.06E-01	8.92E-07	1.55E-03	1.29E-03	3.40E-03	8.32E-01	7.58E-01	5.05E-01
5812	491070.43	3860075.97	0.03057	0.09814	0.01007	0.05394	0.004	0.043	0.0997	0.09814	2.13E-01	1.81E-01	1.05E-06	1.90E-03	1.36E-03	4.00E-03	7.06E-01	6.67E-01	4.41E-01
5813	490995.09	3860039.38	0.03076	0.09061	0.01102	0.05941	0.004	0.046	0.0922	0.09061	2.14E-01	1.67E-01	1.15E-06	2.09E-03	1.39E-03	4.37E-03	6.53E-01	6.16E-01	4.26E-01
5814	490919.75	3860002.8	0.03087	0.09278	0.01216	0.06602	0.005	0.051	0.0904	0.09278	2.15E-01	1.71E-01	1.27E-06	2.32E-03	1.42E-03	4.83E-03	6.41E-01	6.31E-01	4.05E-01
5815	490756.81	3859894.53	0.03359	0.21967	0.01745	0.10676	0.005	0.084	0.1999	0.21967	2.34E-01	4.06E-01	1.82E-06	3.76E-03	1.54E-03	7.89E-03	1.42E+00	1.49E+00	5.75E-01
5816	490668.07	3859860.92	0.03345	0.20596	0.01939	0.10056	0.005	0.077	0.1903	0.20596	2.33E-01	3.80E-01	2.02E-06	3.54E-03	1.56E-03	7.25E-03	1.35E+00	1.40E+00	5.74E-01
5817	490579.34	3859827.3	0.03412	0.1998	0.02199	0.09561	0.005	0.072	0.1877	0.1998	2.38E-01	3.69E-01	2.29E-06	3.37E-03	1.59E-03	6.78E-03	1.33E+00	1.36E+00	5.90E-01
5818	490490.6	3859793.68	0.035	0.18497	0.02507	0.0902	0.005	0.067	0.1766	0.18497	2.44E-01	3.42E-01	2.61E-06	3.17E-03	1.61E-03	6.31E-03	1.25E+00	1.26E+00	5.90E-01
5819	490401.86	3859760.07	0.03604	0.17427	0.02911	0.08585	0.005	0.063	0.1687	0.17427	2.51E-01	3.22E-01	3.03E-06	3.02E-03	1.64E-03	5.92E-03	1.20E+00	1.19E+00	5.94E-01
5820	490313.12	3859726.45	0.03711	0.16961	0.03473	0.08269	0.005	0.06	0.1664	0.16961	2.59E-01	3.13E-01	3.62E-06	2.91E-03	1.69E-03	5.63E-03	1.18E+00	1.15E+00	6.08E-01
5821	490224.39	3859692.83	0.0382	0.16577	0.04267	0.08023	0.006	0.057	0.1644	0.16577	2.66E-01	3.06E-01	4.44E-06	2.82E-03	1.74E-03	5.37E-03	1.16E+00	1.13E+00	6.20E-01
5822	490135.65	3859659.22	0.039	0.16241	0.05451	0.07842	0.006	0.055	0.1626	0.16241	2.72E-01	3.00E-01	5.67E-06	2.76E-03	1.80E-03	5.14E-03	1.15E+00	1.10E+00	6.29E-01
5823	489918.18	3859559.23	0.04324	0.1711	0.16191	0.08038	0.006	0.054	0.1648	0.1711	3.01E-01	3.16E-01	1.69E-05	2.83E-03	2.01E-03	5.06E-03	1.17E+00	1.16E+00	6.32E-01
5824	489743.61	3859486	0.04608	0.11321	0.67822	0.07916	0.007	0.051	0.1087	0.11321	3.21E-01	2.09E-01	7.06E-05	2.79E-03	2.24E-03	4.81E-03	7.70E-01	7.70E-01	5.41E-01
5825	489660.32	3859440.27	0.04777	0.11308	0.67675	0.08277	0.008	0.051	0.108	0.11308	3.33E-01	2.09E-01	7.05E-05	2.91E-03	2.38E-03	4.83E-03	7.65E-01	7.69E-01	5.48E-01
5826	489577.04	3859394.53	0.04917	0.11308	0.29262	0.08849	0.008	0.052	0.1073	0.11308	3.43E-01	2.09E-01	3.05E-05	3.11E-03	2.53E-03	4.85E-03	7.60E-01	7.69E-01	5.53E-01
5827	489493.75	3859348.8	0.05043	0.1125	0.13646	0.09839	0.009	0.052	0.1057	0.1125	3.52E-01	2.08E-01	1.42E-05	3.46E-03	2.69E-03	4.88E-03	7.49E-01	7.65E-01	5.54E-01
5828	489321.28	3859240.02	0.05557	0.14212	0.04841	0.17472	0.01	0.055	0.1215	0.14212	3.87E-01	2.62E-01	5.04E-06	6.15E-03	3.07E-03	5.14E-03	8.61E-01	9.66E-01	5.59E-01
5829	489235.41	3859193.96	0.0581	0.14049	0.03499	0.44632	0.01	0.055	0.1142	0.14049	4.05E-01	2.59E-01	3.64E-06	1.57E-02	3.28E-03	5.21E-03	8.09E-01	9.55E-01	5.42E-01
5830	489149.54	3859147.89	0.06118	0.13364	0.02693	0.13432	0.011	0.057	0.1029	0.13364	4.27E-01	2.47E-01	2.80E-06	4.73E-03	3.44E-03	5.32E-03	7.29E-01	9.09E-01	5.07E-01
5831	489063.68	3859101.82	0.06608	0.13296	0.02197	0.07764	0.012	0.058	0.0909	0.13296	4.61E-01	2.46E-01	2.29E-06	2.73E-03	3.61E-03	5.46E-03	6.44E-01	9.04E-01	4.58E-01
5832	488977.81	3859055.75	0.07378	0.13187	0.01869	0.06185	0.012	0.06	0.0777	0.13187	5.14E-01	2.44E-01	1.95E-06	2.18E-03	3.75E-03	5.62E-03	5.51E-01	8.97E-01	4.23E-01
5833	488891.94	3859009.69	0.08583	0.12731	0.01638	0.0528	0.012	0.062	0.0663	0.12731	5.98E-01	2.35E-01	1.71E-06	1.86E-03	3.81E-03	5.81E-03	4.70E-01	8.66E-01	4.49E-01
5834	488808	3859060.73	0.09673	0.04441	0.01504	0.04007	0.011	0.064	0.0317	0.04441	6.74E-01	8.20E-02	1.57E-06	1.41E-03	3.38E-03	5.98E-03	2.25E-01	3.02E-01	6.90E-01
5835	488809.93	3859157.85	0.09405	0.02671	0.01466	0.03531	0.009	0.062	0.0219	0.02671	6.56E-01	4.93E-02	1.53E-06	1.24E-03	2.96E-03	5.82E-03	1.55E-01	1.82E-01	6.88E-01
5836	488811.85	3859254.96	0.09222	0.01928	0.01388	0.03196	0.008	0.059	0.0168	0.01928	6.43E-01	3.56E-02	1.44E-06	1.12E-03	2.58E-03	5.55E-03	1.19E-01	1.31E-01	6.75E-01
5837	488813.78	3859352.07	0.09087	0.01523	0.01269	0.0295	0.007	0.057	0.0137	0.01523	6.34E-01	2.81E-02	1.32E-06	1.04E-03	2.24E-03	5.34E-03	9.67E-02	1.04E-01	6.63E-01
5838	488815.71	3859449.19	0.09075	0.01269	0.01183	0.02756	0.006	0.055	0.0116	0.01269	6.33E-01	2.34E-02	1.23E-06	9.70E-04	1.95E-03	5.18E-03	8.20E-02	8.63E-02	6.60E-01
5839	488910.04	3859547.1	0.08633	0.01174	0.01333	0.03089	0.006	0.048	0.0109	0.01174	6.02E-01	2.17E-02	1.39E-06	1.09E-03	1.95E-03	4.55E-03	7.73E-02	7.98E-02	6.29E-01
5840	489002.45	3859547.91	0.08027	0.01274	0.01554	0.04004	0.007	0.045	0.0119	0.01274	5.60E-01	2.35E-02	1.62E-06	1.41E-03	2.20E-03	4.19E-03	8.45E-02	8.66E-02	5.89E-01
5841	489094.85	3859548.71	0.07502	0.01397	0.0186	0.0639	0.008	0.042	0.0132	0.01397	5.23E-01	2.58E-02	1.94E-06	2.25E-03	2.42E-03	3.93E-03	9.34E-02	9.50E-02	5.56E-01
5842	489230.05	3859601.87	0.07082	0.01452	0.0228	0.44463	0.008	0.038	0.0138	0.01452	4.94E-01	2.68E-02	2.37E-06	1.56E-02	2.49E-03	3.60E-03	9.81E-02	9.87E-02	5.42E-01
5843	489227.52	3859680.89	0.06889	0.01249	0.01811	0.46348	0.007	0.037	0.012	0.01249	4.80E-01	2.31E-02	1.89E-06	1.63E-02	2.32E-03	3.48E-03	8.47E-02	8.49E-02	5.25E-01
5844	489133.47	3859760.29	0.05251	0.01028	0.01295	0.08809	0.006	0.038	0.0098	0.01028	3.66E-01	1.90E-02	1.35E-06	3.10E-03	1.97E-03	3.56E-03	6.94E-02	6.99E-02	3.93E-01
5845	489041.96	3859760.67	0.0551	0.00965	0.01196	0.04344	0.006	0.04	0.0091	0.00965	3.84E-01	1.78E-02	1.25E-06	1.53E-03	1.76E-03	3.79E-03	6.48E-02	6.56E-02	4.08E-01
5846	488950.45	3859761.05	0.05651	0.00909	0.01101	0.03092	0.005	0.044	0.0086	0.00909	3.94E-01	1.68E-02	1.15E-06	1.09E-03	1.54E-03	4.11E-03	6.07E-02	6.18E-02	4.16E-01
5847	488858.94	3859761.43	0.05762	0.00861	0.0101	0.02496	0.004	0.048	0.0081	0.00861	4.02E-01	1.59E-02	1.05E-06	8.78E-04	1.34E-03	4.56E-03	5.72E-02	5.85E-02	4.23E-01
5848	488767.43	3859761.82	0.05886	0.00816	0.00923	0.02136	0.004	0.055	0.0076	0.00816	4.10E-01	1.51E-02	9.61E-07	7.52E-04	1.17E-03	5.21E-03	5.39E-02	5.55E-02	4.31E-01
5849	488675.92	3859762.2	0.06075	0.00778	0.0085	0.01895	0.003	0.066	0.0072	0.00778	4.24E-01	1.44E-02	8.85E-07	6.67E-04	1.06E-03	6.21E-03	5.12E-02	5.29E-02	4.44E-01
5850	488584.41	3859762.58	0.06403	0.00742	0.00786	0.01706	0.003	0.085	0.0069	0.00742	4.46E-01	1.37E-02	8.18E-07	6.00E-04	9.68E-04	8.02E-03	4.87E-02	5.05E-02	4.68E-01
5851	488492.9	3859762.96	0.07096	0.0071	0.00734	0.01551	0.003	0.131	0.0066	0.0071	4.95E-01	1.31E-02	7.64E-07	5.46E-04	9.02E-04	1.23E-02	4.65E-02	4.83E-02	5.20E-01
5852	488402.76	3859830.95	0.08354	0.00651	0.00665	0.01389	0.003	0.308	0.006	0.00651	5.82E-01	1.20E-02	6.92E-07	4.89E-04	8.18E-04	2.90E-02	4.27E-02	4.43E-02	6.23E-01
5853	488404.14	3859898.55	0.0849	0.00623	0.00639	0.01353	0.002	0.306	0.0058	0.00623	5.92E-01	1.15E-02	6.65E-07	4.76E-04	7.77E-04	2.88E-02	4.11E-02	4.24E-02	6.32E-01
5854	488505.18	3859964.96	0.08604	0.00621	0.00634	0.01447	0.002	0.12	0.0058	0.00621	6.00E-01	1.15E-02	6.60E-07	5.09E-04	7.71E-04	1.13E-02	4.12E-02	4.22E-02	6.23E-01

5855	488604.84	3859963.76	0.08223	0.00644	0.00656	0.01598	0.003	0.078	0.0061	0.00644	5.73E-01	1.19E-02	6.83E-07	5.62E-04	8.15E-04	7.31E-03	4.29E-02	4.38E-02	5.93E-01
5856	488704.51	3859962.56	0.0802	0.0067	0.00679	0.01796	0.003	0.06	0.0063	0.0067	5.59E-01	1.24E-02	7.07E-07	6.32E-04	8.74E-04	5.64E-03	4.47E-02	4.56E-02	5.78E-01
5857	488804.18	3859961.37	0.07869	0.00699	0.00706	0.02085	0.003	0.05	0.0066	0.00699	5.49E-01	1.29E-02	7.35E-07	7.34E-04	9.65E-04	4.72E-03	4.68E-02	4.75E-02	5.67E-01
5858	488903.85	3859960.17	0.07721	0.00732	0.00744	0.0255	0.004	0.044	0.0069	0.00732	5.38E-01	1.35E-02	7.75E-07	8.98E-04	1.10E-03	4.13E-03	4.92E-02	4.98E-02	5.57E-01
5859	489003.52	3859958.97	0.0752	0.00768	0.00806	0.03467	0.004	0.04	0.0073	0.00768	5.24E-01	1.42E-02	8.39E-07	1.22E-03	1.28E-03	3.73E-03	5.17E-02	5.22E-02	5.44E-01
5860	489103.18	3859957.77	0.07096	0.00807	0.00891	0.0625	0.005	0.036	0.0077	0.00807	4.95E-01	1.49E-02	9.28E-07	2.20E-03	1.48E-03	3.42E-03	5.46E-02	5.49E-02	5.16E-01
5861	489201.48	3860046.59	0.07819	0.00781	0.00881	0.18602	0.005	0.033	0.0075	0.00781	5.45E-01	1.44E-02	9.17E-07	6.55E-03	1.52E-03	3.11E-03	5.31E-02	5.31E-02	5.71E-01
5862	489200.11	3860136.61	0.08025	0.00723	0.0081	0.18463	0.004	0.033	0.007	0.00723	5.59E-01	1.34E-02	8.43E-07	6.50E-03	1.36E-03	3.07E-03	4.92E-02	4.92E-02	5.84E-01
5863	489198.74	3860226.63	0.07989	0.00677	0.00758	0.25868	0.004	0.032	0.0065	0.00677	5.57E-01	1.25E-02	7.89E-07	9.10E-03	1.21E-03	3.03E-03	4.62E-02	4.60E-02	5.83E-01
5864	489197.38	3860316.66	0.07831	0.00637	0.00702	0.25068	0.003	0.032	0.0062	0.00637	5.46E-01	1.18E-02	7.31E-07	8.82E-03	1.07E-03	3.00E-03	4.36E-02	4.33E-02	5.71E-01
5865	489196.01	3860406.68	0.07562	0.006	0.00641	0.24277	0.003	0.031	0.0058	0.006	5.27E-01	1.11E-02	6.67E-07	8.54E-03	9.59E-04	2.96E-03	4.12E-02	4.08E-02	5.51E-01
5866	489194.64	3860496.7	0.07099	0.00562	0.00573	0.23856	0.003	0.03	0.0055	0.00562	4.95E-01	1.04E-02	5.97E-07	8.40E-03	8.52E-04	2.85E-03	3.86E-02	3.82E-02	5.18E-01
5867	489193.27	3860586.72	0.06181	0.00527	0.00512	0.23308	0.002	0.028	0.0051	0.00527	4.31E-01	9.73E-03	5.33E-07	8.20E-03	7.61E-04	2.60E-03	3.63E-02	3.58E-02	4.53E-01
5868	489092.02	3860678.13	0.03433	0.00482	0.00471	0.05359	0.002	0.027	0.0047	0.00482	2.39E-01	8.90E-03	4.90E-07	1.89E-03	6.11E-04	2.50E-03	3.31E-02	3.28E-02	2.54E-01
5869	488992.13	3860679.53	0.03553	0.00469	0.00463	0.02926	0.002	0.03	0.0045	0.00469	2.48E-01	8.66E-03	4.82E-07	1.03E-03	5.64E-04	2.82E-03	3.21E-02	3.19E-02	2.61E-01
5870	488892.24	3860680.92	0.03594	0.00458	0.00435	0.02092	0.002	0.035	0.0044	0.00458	2.51E-01	8.46E-03	4.53E-07	7.36E-04	5.42E-04	3.26E-03	3.12E-02	3.11E-02	2.64E-01
5871	488792.36	3860682.31	0.03622	0.00447	0.00401	0.01677	0.002	0.042	0.0043	0.00447	2.53E-01	8.26E-03	4.17E-07	5.90E-04	5.30E-04	3.93E-03	3.04E-02	3.04E-02	2.66E-01
5872	488692.48	3860683.7	0.03666	0.00437	0.00377	0.01427	0.002	0.053	0.0042	0.00437	2.56E-01	8.07E-03	3.92E-07	5.02E-04	5.20E-04	5.02E-03	2.96E-02	2.97E-02	2.70E-01
5873	488592.59	3860685.09	0.03774	0.00427	0.0036	0.01255	0.002	0.074	0.0041	0.00427	2.63E-01	7.89E-03	3.75E-07	4.42E-04	5.08E-04	6.99E-03	2.88E-02	2.90E-02	2.79E-01
5874	488492.71	3860686.49	0.04131	0.0042	0.00351	0.01131	0.002	0.126	0.004	0.0042	2.88E-01	7.76E-03	3.65E-07	3.98E-04	5.01E-04	1.19E-02	2.82E-02	2.86E-02	3.08E-01
5875	488299.07	3860762.18	0.02522	0.00394	0.00319	0.00948	0.002	0.06	0.0037	0.00394	1.76E-01	7.28E-03	3.32E-07	3.34E-04	4.89E-04	5.65E-03	2.64E-02	2.68E-02	1.89E-01
5876	488205.32	3860764.09	0.02425	0.00387	0.00308	0.00893	0.002	0.058	0.0036	0.00387	1.69E-01	7.15E-03	3.21E-07	3.14E-04	4.95E-04	5.48E-03	2.58E-02	2.63E-02	1.82E-01
5877	488111.56	3860766	0.022	0.00379	0.00295	0.00845	0.002	0.053	0.0036	0.00379	1.53E-01	7.00E-03	3.07E-07	2.97E-04	5.11E-04	4.95E-03	2.52E-02	2.58E-02	1.66E-01
5878	488017.81	3860767.91	0.01853	0.00371	0.00281	0.00802	0.002	0.046	0.0035	0.00371	1.29E-01	6.85E-03	2.93E-07	2.82E-04	5.39E-04	4.31E-03	2.47E-02	2.52E-02	1.41E-01
5879	487924.06	3860769.81	0.01431	0.00364	0.00267	0.00763	0.002	0.038	0.0034	0.00364	9.98E-02	6.72E-03	2.78E-07	2.69E-04	5.77E-04	3.56E-03	2.41E-02	2.48E-02	1.10E-01
5880	487830.31	3860771.72	0.01192	0.00357	0.00256	0.00728	0.002	0.029	0.0033	0.00357	8.31E-02	6.59E-03	2.67E-07	2.56E-04	6.20E-04	2.74E-03	2.37E-02	2.43E-02	9.27E-02
5881	487736.55	3860773.63	0.01027	0.0035	0.00249	0.00697	0.002	0.023	0.0033	0.0035	7.16E-02	6.46E-03	2.59E-07	2.45E-04	6.61E-04	2.18E-03	2.32E-02	2.38E-02	8.05E-02
5882	487642.8	3860775.54	0.00923	0.00345	0.00247	0.00672	0.002	0.019	0.0032	0.00345	6.43E-02	6.37E-03	2.57E-07	2.37E-04	6.89E-04	1.83E-03	2.28E-02	2.35E-02	7.28E-02
5883	487549.48	3860684.71	0.0104	0.00351	0.00263	0.00668	0.002	0.021	0.0033	0.00351	7.25E-02	6.48E-03	2.74E-07	2.35E-04	7.21E-04	2.01E-03	2.32E-02	2.39E-02	8.13E-02
5884	487549.91	3860591.97	0.01308	0.00361	0.00279	0.00684	0.002	0.029	0.0034	0.00361	9.12E-02	6.67E-03	2.90E-07	2.41E-04	7.39E-04	2.75E-03	2.38E-02	2.45E-02	1.01E-01
5885	487550.34	3860499.23	0.01679	0.00375	0.003	0.00702	0.002	0.042	0.0035	0.00375	1.17E-01	6.93E-03	3.12E-07	2.47E-04	7.65E-04	3.90E-03	2.46E-02	2.55E-02	1.28E-01
5886	487550.76	3860406.49	0.0224	0.0039	0.00322	0.00723	0.003	0.058	0.0036	0.0039	1.56E-01	7.20E-03	3.35E-07	2.54E-04	7.90E-04	5.47E-03	2.55E-02	2.65E-02	1.69E-01
5887	487551.19	3860313.75	0.03187	0.00407	0.00339	0.00742	0.003	0.08	0.0037	0.00407	2.22E-01	7.52E-03	3.53E-07	2.61E-04	8.18E-04	7.50E-03	2.65E-02	2.77E-02	2.37E-01
5888	487551.62	3860221.01	0.0358	0.00426	0.00351	0.00762	0.003	0.082	0.0039	0.00426	2.50E-01	7.87E-03	3.65E-07	2.68E-04	8.46E-04	7.68E-03	2.76E-02	2.90E-02	2.65E-01
5889	487552.05	3860128.27	0.03735	0.00447	0.00362	0.00786	0.003	0.08	0.0041	0.00447	2.60E-01	8.26E-03	3.77E-07	2.77E-04	8.84E-04	7.56E-03	2.89E-02	3.04E-02	2.76E-01
5890	487552.48	3860035.53	0.03852	0.00468	0.00375	0.0081	0.003	0.08	0.0043	0.00468	2.69E-01	8.64E-03	3.90E-07	2.85E-04	9.24E-04	7.48E-03	3.02E-02	3.18E-02	2.84E-01
5891	487552.91	3859942.79	0.03957	0.00486	0.0039	0.00831	0.003	0.079	0.0044	0.00486	2.76E-01	8.98E-03	4.06E-07	2.92E-04	9.59E-04	7.44E-03	3.12E-02	3.30E-02	2.92E-01
5892	487553.33	3859850.05	0.04071	0.00506	0.00413	0.00859	0.003	0.08	0.0045	0.00506	2.84E-01	9.35E-03	4.30E-07	3.02E-04	1.01E-03	7.47E-03	3.22E-02	3.44E-02	3.00E-01
5893	487553.76	3859757.31	0.04212	0.00524	0.00427	0.00885	0.003	0.08	0.0047	0.00524	2.94E-01	9.68E-03	4.45E-07	3.11E-04	1.06E-03	7.56E-03	3.31E-02	3.56E-02	3.10E-01
5894	487554.19	3859664.57	0.0449	0.00546	0.0043	0.00912	0.004	0.086	0.0048	0.00546	3.13E-01	1.01E-02	4.48E-07	3.21E-04	1.12E-03	8.12E-03	3.41E-02	3.71E-02	3.30E-01
5895	487460.2	3859571.05	0.04499	0.00556	0.00431	0.00899	0.004	0.091	0.0048	0.00556	3.14E-01	1.03E-02	4.49E-07	3.16E-04	1.20E-03	8.54E-03	3.42E-02	3.78E-02	3.30E-01
5896	487365.78	3859570.27	0.03792	0.00542	0.00445	0.00863	0.004	0.079	0.0047	0.00542	2.64E-01	1.00E-02	4.63E-07	3.04E-04	1.22E-03	7.43E-03	3.32E-02	3.69E-02	2.80E-01
5897	487271.36	3859569.48	0.03033	0.00529	0.00454	0.0083	0.004	0.069	0.0046	0.00529	2.11E-01	9.77E-03	4.73E-07	2.92E-04	1.26E-03	6.50E-03	3.24E-02	3.60E-02	2.26E-01
5898	487176.94	3859568.7	0.02462	0.00516	0.00447	0.008	0.004	0.059	0.0045	0.00516	1.72E-01	9.53E-03	4.65E-07	2.82E-04	1.32E-03	5.55E-03	3.15E-02	3.51E-02	1.85E-01
5899	487082.51	3859567.92	0.02093	0.00505	0.00425	0.00772	0.005	0.047	0.0043	0.00505	1.46E-01	9.33E-03	4.42E-07	2.72E-04	1.41E-03	4.42E-03	3.08E-02	3.43E-02	1.58E-01
5900	486988.09	3859567.14	0.01837	0.00493	0.0041	0.00746	0.005	0.038	0.0042	0.00493	1.28E-01	9.11E-03	4.27E-07	2.63E-04	1.50E-03	3.53E-03	3.00E-02	3.35E-02	1.39E-01
5901	486893.67	3859566.36	0.01641	0.00483	0.00416	0.00722	0.005	0.031	0.0042	0.00483	1.14E-01	8.92E-03	4.33E-07	2.54E-04	1.59E-03	2.89E-03	2.94E-02	3.28E-02	1.25E-01
5902	486799.25	3859565.58	0.01489	0.00472	0.00431	0.007	0.005	0.026	0.0041	0.00472	1.04E-01	8.72E-03	4.49E-07	2.46E-04	1.67E-03	2.43E-03	2.88E-02	3.21E-02	1.14E-01
5903	486704.83	3859564.79	0.01373	0.00463	0.00447	0.00679	0.006	0.023	0.004	0.00463	9.57E-02	8.55E-03	4.65E-07	2.39E-04	1.73E-03	2.12E-03	2.82E-02	3.15E-02	1.05E-01
5904	486610.41	3859564.01	0.01281	0.00453	0.00463	0.00659	0.006	0.02	0.0039	0.00453	8.93E-02	8.37E-03	4.82E-07	2.32E-04	1.79E-03	1.89E-03	2.76E-02	3.08E-02	9.84E-02
5905	486515.99	3859563.23	0.01202	0.00444	0.00471	0.0064	0.006	0.018	0.0038	0.00444	8.38E-02	8.20E-03	4.90E-07	2.25E-04	1.82E-03	1.71E-03	2.71E-02	3.02E-02	9.27E-02
5906	486421.57	3859562.45	0.01133	0.00435	0.00466	0.00623	0.006	0.017	0.0038	0.00435	7.90E-02	8.03E-03	4.85E-07	2.19E-04	1.84E-03	1.57E-03	2.66E-02	2.96E-02	8.76E-02
5907	486327.14	3859561.67	0.0107	0.00427	0.00445	0.00607	0.006	0.015	0.0037	0.00427	7.46E-02	7.89E-03	4.63E-07	2.14E-04	1.86E-03	1.45E-03	2.61E-02	2.90E-02	8.31E-02
5908	486232.72	3859560.89	0.01012	0.00419	0.0041	0.00592	0.006	0.014	0.0036	0.00419	7.06E-02	7.74E-03	4.27E-07	2.08E-04	1.86E-03	1.35E-03	2.56E-02	2.85E-02	7.89E-02
5909	486138.3	3859560.1	0.00959	0.00411	0.00378	0.00578	0.006	0.013	0.0036	0.00411	6.69E-02	7.59E-03	3.94E-07	2.03E-04	1.86E-03	1.26E-03	2.52E-02	2.79E-02	7.50E-02
5910	486043.88	3859559.32	0.00911	0.00403	0.00355	0.00565	0.006	0.013	0.0035	0.00403	6.35E-02	7.44E-03	3.70E-07	1.99E-04	1.85E-03	1.18E-03	2.47E-02	2.74E-02	7.15E-02
5911	485949.35	3859463.54	0.00922	0.00407	0.00358	0.00568	0.006	0.013	0.0035	0.00407	6.43E-02	7.52E-03	3.73E-07	2.00E-04	1.97E-03	1.19E-03	2.47E-02	2.77E-02	7.22E-02
5912	485949.24	3859368.55	0.00983	0.0042	0.00382	0.00584	0.007	0.014	0.0036	0.0042	6.85E-02	7.76E-03	3.98E-07	2.06E-04	2.11E-03	1.27E-03	2.52E-02	2.86E-02	7.65E-02

5913	485949.12	3859273.55	0.01047	0.00432	0.00409	0.00598	0.007	0.014	0.0036	0.00432	7.30E-02	7.98E-03	4.26E-07	2.10E-04	2.27E-03	1.36E-03	2.56E-02	2.94E-02	8.10E-02
5914	485949.01	3859178.56	0.01115	0.00447	0.00431	0.0061	0.008	0.016	0.0037	0.00447	7.77E-02	8.26E-03	4.49E-07	2.15E-04	2.45E-03	1.46E-03	2.60E-02	3.04E-02	8.57E-02
5915	485948.9	3859083.56	0.01188	0.00464	0.00449	0.00621	0.008	0.017	0.0038	0.00464	8.28E-02	8.57E-03	4.67E-07	2.19E-04	2.65E-03	1.57E-03	2.66E-02	3.16E-02	9.08E-02
5916	485948.79	3858988.56	0.0126	0.00483	0.00467	0.0063	0.009	0.018	0.0038	0.00483	8.78E-02	8.92E-03	4.86E-07	2.22E-04	2.85E-03	1.67E-03	2.72E-02	3.28E-02	9.59E-02
5917	485948.67	3858893.57	0.01331	0.00505	0.00498	0.00639	0.01	0.019	0.0039	0.00505	9.28E-02	9.33E-03	5.18E-07	2.25E-04	3.07E-03	1.79E-03	2.79E-02	3.43E-02	1.01E-01
5918	485948.56	3858798.57	0.01401	0.00532	0.00553	0.00652	0.011	0.02	0.0041	0.00532	9.77E-02	9.83E-03	5.76E-07	2.29E-04	3.31E-03	1.91E-03	2.88E-02	3.62E-02	1.06E-01
5919	485948.45	3858703.58	0.01468	0.00559	0.00613	0.00665	0.011	0.022	0.0042	0.00559	1.02E-01	1.03E-02	6.38E-07	2.34E-04	3.56E-03	2.04E-03	2.95E-02	3.80E-02	1.10E-01
5920	485948.34	3858608.58	0.01539	0.00592	0.00668	0.00679	0.012	0.023	0.0043	0.00592	1.07E-01	1.09E-02	6.95E-07	2.39E-04	3.85E-03	2.19E-03	3.05E-02	4.03E-02	1.15E-01
5921	485948.22	3858513.59	0.01615	0.00628	0.00699	0.00692	0.013	0.025	0.0044	0.00628	1.13E-01	1.16E-02	7.28E-07	2.44E-04	4.16E-03	2.39E-03	3.13E-02	4.27E-02	1.20E-01
5922	485948.11	3858418.59	0.01703	0.00669	0.00724	0.00704	0.014	0.028	0.0046	0.00669	1.19E-01	1.24E-02	7.54E-07	2.48E-04	4.49E-03	2.64E-03	3.22E-02	4.55E-02	1.25E-01
5923	485948	3858323.59	0.01812	0.00717	0.00756	0.00719	0.016	0.032	0.0047	0.00717	1.26E-01	1.32E-02	7.87E-07	2.53E-04	4.86E-03	2.96E-03	3.32E-02	4.88E-02	1.32E-01
5924	485947.89	3858228.6	0.01954	0.00772	0.00748	0.00735	0.017	0.036	0.0048	0.00772	1.36E-01	1.43E-02	7.79E-07	2.59E-04	5.26E-03	3.36E-03	3.42E-02	5.25E-02	1.41E-01
5925	485947.77	3858133.6	0.02156	0.00836	0.00717	0.00753	0.018	0.041	0.005	0.00836	1.50E-01	1.54E-02	7.46E-07	2.65E-04	5.70E-03	3.84E-03	3.52E-02	5.68E-02	1.54E-01
5926	485947.66	3858038.61	0.02429	0.00923	0.00726	0.00778	0.02	0.047	0.0052	0.00923	1.69E-01	1.70E-02	7.56E-07	2.74E-04	6.20E-03	4.43E-03	3.65E-02	6.28E-02	1.71E-01
5927	485854.54	3857943.35	0.02549	0.00949	0.00717	0.00771	0.02	0.041	0.0051	0.00949	1.78E-01	1.75E-02	7.46E-07	2.71E-04	6.31E-03	3.86E-03	3.64E-02	6.45E-02	1.78E-01
5928	485761.52	3857943.09	0.02185	0.00887	0.00669	0.00745	0.019	0.033	0.005	0.00887	1.52E-01	1.64E-02	6.96E-07	2.62E-04	6.00E-03	3.09E-03	3.53E-02	6.03E-02	1.53E-01
5929	485668.51	3857942.83	0.01937	0.00836	0.00633	0.00721	0.018	0.028	0.0048	0.00836	1.35E-01	1.54E-02	6.59E-07	2.54E-04	5.72E-03	2.59E-03	3.42E-02	5.68E-02	1.36E-01
5930	485575.5	3857942.56	0.01754	0.00789	0.00598	0.00698	0.017	0.024	0.0047	0.00789	1.22E-01	1.46E-02	6.23E-07	2.46E-04	5.45E-03	2.24E-03	3.32E-02	5.37E-02	1.24E-01
5931	485482.48	3857942.3	0.01613	0.00749	0.00563	0.00677	0.017	0.021	0.0046	0.00749	1.12E-01	1.38E-02	5.86E-07	2.38E-04	5.21E-03	1.98E-03	3.24E-02	5.09E-02	1.15E-01
5932	485389.47	3857942.04	0.01497	0.00713	0.00525	0.00657	0.016	0.019	0.0045	0.00713	1.04E-01	1.32E-02	5.47E-07	2.31E-04	4.99E-03	1.78E-03	3.15E-02	4.85E-02	1.08E-01
5933	485296.46	3857941.78	0.01401	0.0068	0.00487	0.00639	0.015	0.017	0.0043	0.0068	9.77E-02	1.26E-02	5.07E-07	2.25E-04	4.78E-03	1.62E-03	3.08E-02	4.62E-02	1.01E-01
5934	485203.45	3857941.52	0.01321	0.00651	0.00458	0.00623	0.015	0.016	0.0042	0.00651	9.21E-02	1.20E-02	4.77E-07	2.19E-04	4.60E-03	1.49E-03	3.00E-02	4.43E-02	9.62E-02
5935	485110.43	3857941.26	0.0125	0.00624	0.00438	0.00606	0.014	0.015	0.0041	0.00624	8.71E-02	1.15E-02	4.56E-07	2.13E-04	4.42E-03	1.38E-03	2.93E-02	4.24E-02	9.15E-02
5936	485017.42	3857940.99	0.01189	0.00597	0.00425	0.00591	0.014	0.014	0.004	0.00597	8.29E-02	1.10E-02	4.42E-07	2.08E-04	4.24E-03	1.28E-03	2.86E-02	4.06E-02	8.76E-02
5937	484924.41	3857940.73	0.01134	0.00573	0.00416	0.00577	0.013	0.013	0.0039	0.00573	7.91E-02	1.06E-02	4.33E-07	2.03E-04	4.07E-03	1.20E-03	2.78E-02	3.90E-02	8.40E-02
5938	484831.39	3857940.47	0.01084	0.00551	0.00412	0.00564	0.013	0.012	0.0038	0.00551	7.56E-02	1.02E-02	4.29E-07	1.99E-04	3.93E-03	1.13E-03	2.71E-02	3.75E-02	8.07E-02
5939	484738.12	3857859.3	0.01093	0.00552	0.00434	0.00559	0.012	0.012	0.0038	0.00552	7.62E-02	1.02E-02	4.52E-07	1.97E-04	3.86E-03	1.10E-03	2.71E-02	3.75E-02	8.11E-02
5940	484737.85	3857778.4	0.01158	0.00577	0.0046	0.00568	0.013	0.012	0.0039	0.00577	8.07E-02	1.07E-02	4.79E-07	2.00E-04	3.92E-03	1.14E-03	2.76E-02	3.92E-02	8.51E-02
5941	484737.59	3857697.49	0.01237	0.00603	0.00488	0.00577	0.013	0.013	0.004	0.00603	8.62E-02	1.11E-02	5.08E-07	2.03E-04	3.95E-03	1.18E-03	2.82E-02	4.10E-02	8.99E-02
5942	484737.32	3857616.59	0.01336	0.00633	0.00515	0.00586	0.013	0.013	0.0041	0.00633	9.31E-02	1.17E-02	5.36E-07	2.06E-04	3.94E-03	1.23E-03	2.88E-02	4.30E-02	9.60E-02
5943	484645.53	3857535.18	0.01399	0.00636	0.00551	0.00583	0.012	0.013	0.0041	0.00636	9.75E-02	1.17E-02	5.74E-07	2.05E-04	3.72E-03	1.20E-03	2.88E-02	4.32E-02	9.99E-02
5944	484553.99	3857534.67	0.01335	0.00607	0.00557	0.0057	0.011	0.012	0.004	0.00607	9.31E-02	1.12E-02	5.80E-07	2.01E-04	3.55E-03	1.13E-03	2.81E-02	4.13E-02	9.59E-02
5945	484462.46	3857534.17	0.01277	0.00583	0.00543	0.00558	0.011	0.011	0.0039	0.00583	8.90E-02	1.08E-02	5.65E-07	1.96E-04	3.39E-03	1.07E-03	2.74E-02	3.96E-02	9.22E-02
5946	484370.93	3857533.66	0.01224	0.0056	0.00511	0.00546	0.01	0.011	0.0038	0.0056	8.53E-02	1.03E-02	5.32E-07	1.92E-04	3.24E-03	1.02E-03	2.69E-02	3.81E-02	8.89E-02
5947	484279.4	3857533.16	0.01174	0.00539	0.00487	0.00535	0.01	0.01	0.0037	0.00539	8.18E-02	9.95E-03	5.07E-07	1.88E-04	3.11E-03	9.66E-04	2.63E-02	3.67E-02	8.57E-02
5948	484187.86	3857532.65	0.01126	0.00521	0.00486	0.00524	0.009	0.01	0.0036	0.00521	7.85E-02	9.62E-03	5.06E-07	1.84E-04	2.97E-03	9.24E-04	2.58E-02	3.54E-02	8.26E-02
5949	484096.33	3857532.15	0.0108	0.00505	0.00497	0.00514	0.009	0.009	0.0036	0.00505	7.53E-02	9.33E-03	5.17E-07	1.81E-04	2.85E-03	8.85E-04	2.54E-02	3.43E-02	7.96E-02
5950	484004.8	3857531.64	0.01038	0.00491	0.0051	0.00504	0.009	0.009	0.0035	0.00491	7.24E-02	9.07E-03	5.31E-07	1.77E-04	2.74E-03	8.51E-04	2.49E-02	3.34E-02	7.68E-02
5951	483913.27	3857531.14	0.01003	0.00477	0.00521	0.00494	0.008	0.009	0.0035	0.00477	6.99E-02	8.81E-03	5.42E-07	1.74E-04	2.62E-03	8.21E-04	2.45E-02	3.24E-02	7.44E-02
5952	483821.73	3857530.63	0.00975	0.00465	0.00527	0.00485	0.008	0.008	0.0034	0.00465	6.80E-02	8.59E-03	5.49E-07	1.71E-04	2.52E-03	7.91E-04	2.41E-02	3.16E-02	7.25E-02
5953	483729.61	3857450.11	0.01029	0.00467	0.0054	0.00482	0.007	0.008	0.0034	0.00467	7.17E-02	8.63E-03	5.62E-07	1.70E-04	2.35E-03	7.82E-04	2.41E-02	3.18E-02	7.60E-02
5954	483729.03	3857370.08	0.01133	0.00482	0.00558	0.00489	0.007	0.008	0.0035	0.00482	7.90E-02	8.90E-03	5.81E-07	1.72E-04	2.29E-03	7.97E-04	2.45E-02	3.28E-02	8.29E-02
5955	483728.44	3857290.06	0.01285	0.00497	0.00568	0.00496	0.007	0.009	0.0035	0.00497	8.96E-02	9.18E-03	5.91E-07	1.75E-04	2.25E-03	8.14E-04	2.49E-02	3.38E-02	9.32E-02
5956	483727.86	3857210.03	0.01517	0.00514	0.00573	0.00504	0.007	0.009	0.0036	0.00514	1.06E-01	9.49E-03	5.97E-07	1.77E-04	2.23E-03	8.34E-04	2.54E-02	3.50E-02	1.09E-01
5957	483641.15	3857129.07	0.0165	0.00516	0.00558	0.00503	0.007	0.009	0.0036	0.00516	1.15E-01	9.53E-03	5.81E-07	1.77E-04	2.16E-03	8.25E-04	2.54E-02	3.51E-02	1.18E-01
5958	483555.03	3857128.14	0.01494	0.00502	0.00551	0.00494	0.007	0.008	0.0035	0.00502	1.04E-01	9.27E-03	5.74E-07	1.74E-04	2.09E-03	7.97E-04	2.50E-02	3.41E-02	1.07E-01
5959	483468.91	3857127.2	0.0138	0.00487	0.00547	0.00484	0.006	0.008	0.0035	0.00487	9.62E-02	8.99E-03	5.69E-07	1.70E-04	2.02E-03	7.73E-04	2.46E-02	3.31E-02	9.96E-02
5960	483382.78	3857126.26	0.01292	0.00474	0.00545	0.00476	0.006	0.008	0.0034	0.00474	9.01E-02	8.75E-03	5.67E-07	1.68E-04	1.96E-03	7.48E-04	2.42E-02	3.22E-02	9.37E-02
5961	483296.66	3857125.32	0.01216	0.00462	0.00534	0.00468	0.006	0.008	0.0034	0.00462	8.48E-02	8.53E-03	5.56E-07	1.65E-04	1.91E-03	7.27E-04	2.39E-02	3.14E-02	8.86E-02
5962	483210.54	3857124.39	0.01151	0.00451	0.00519	0.00459	0.006	0.008	0.0033	0.00451	8.02E-02	8.33E-03	5.40E-07	1.62E-04	1.85E-03	7.06E-04	2.35E-02	3.07E-02	8.41E-02
5963	483123.4	3857030.96	0.01184	0.00455	0.00514	0.00459	0.006	0.007	0.0033	0.00455	8.25E-02	8.40E-03	5.35E-07	1.62E-04	1.82E-03	7.01E-04	2.37E-02	3.09E-02	8.64E-02
5964	483122.38	3856938.46	0.01288	0.0047	0.00542	0.00468	0.006	0.008	0.0034	0.0047	8.98E-02	8.68E-03	5.64E-07	1.65E-04	1.87E-03	7.18E-04	2.42E-02	3.20E-02	9.34E-02
5965	483121.35	3856845.97	0.01403	0.00485	0.00584	0.00478	0.006	0.008	0.0035	0.00485	9.78E-02	8.96E-03	6.08E-07	1.68E-04	1.92E-03	7.38E-04	2.47E-02	3.30E-02	1.01E-01
5966	483120.33	3856753.47	0.01523	0.00501	0.0063	0.00487	0.006	0.008	0.0035	0.00501	1.06E-01	9.25E-03	6.56E-07	1.71E-04	1.98E-03	7.61E-04	2.51E-02	3.41E-02	1.09E-01
5967	483119.31	3856660.98	0.01647	0.00518	0.00666	0.00495	0.006	0.008	0.0036	0.00518	1.15E-01	9.57E-03	6.93E-07	1.74E-04	2.03E-03	7.87E-04	2.55E-02	3.52E-02	1.18E-01
5968	483118.29	3856568.49	0.01773	0.00537	0.00693	0.00504	0.007	0.009	0.0037	0.00537	1.24E-01	9.92E-03	7.21E-07	1.77E-04	2.08E-03	8.12E-04	2.60E-02	3.65E-02	1.26E-01
5969	483117.26	3856475.99	0.0191	0.00558	0.00727	0.00513	0.007	0.009	0.0037	0.00558	1.33E-01	1.03E-02	7.57E-07	1.81E-04	2.12E-03	8.40E-04	2.65E-02	3.79E-02	1.35E-01
5970	483116.24	3856383.5	0.02078	0.00581	0.00763	0.00521	0.007	0.009	0.0038	0.00581	1.45E-01	1.07E-02	7.94E-07	1.83E-04	2.17E-03	8.77E-04	2.70E-02	3.95E-02	1.46E-01

5971	483115.22	3856291.01	0.02329	0.00607	0.00774	0.0053	0.007	0.01	0.0039	0.00607	1.62E-01	1.12E-02	8.06E-07	1.87E-04	2.20E-03	9.20E-04	2.76E-02	4.13E-02	1.63E-01
5972	483114.2	3856198.51	0.02778	0.00635	0.0076	0.00538	0.007	0.01	0.004	0.00635	1.94E-01	1.17E-02	7.91E-07	1.89E-04	2.22E-03	9.73E-04	2.82E-02	4.32E-02	1.94E-01
5973	483113.17	3856106.02	0.03725	0.00669	0.00772	0.00549	0.007	0.011	0.0041	0.00669	2.60E-01	1.24E-02	8.04E-07	1.93E-04	2.22E-03	1.03E-03	2.90E-02	4.55E-02	2.59E-01
5974	483112.15	3856013.52	0.04191	0.00708	0.00826	0.0056	0.007	0.012	0.0042	0.00708	2.92E-01	1.31E-02	8.60E-07	1.97E-04	2.19E-03	1.11E-03	2.98E-02	4.81E-02	2.90E-01
5975	483029.25	3855920.47	0.03393	0.00717	0.00872	0.00561	0.007	0.012	0.0043	0.00717	2.37E-01	1.32E-02	9.08E-07	1.97E-04	2.11E-03	1.10E-03	3.02E-02	4.88E-02	2.35E-01
5976	482947.37	3855919.91	0.02702	0.00684	0.00868	0.00548	0.007	0.011	0.0042	0.00684	1.88E-01	1.26E-02	9.04E-07	1.93E-04	2.07E-03	1.03E-03	2.96E-02	4.65E-02	1.87E-01
5977	482865.49	3855919.36	0.02269	0.00655	0.00874	0.00536	0.007	0.01	0.0041	0.00655	1.58E-01	1.21E-02	9.10E-07	1.89E-04	2.04E-03	9.64E-04	2.91E-02	4.45E-02	1.58E-01
5978	482783.61	3855918.8	0.02001	0.00629	0.0088	0.00525	0.006	0.01	0.0041	0.00629	1.40E-01	1.16E-02	9.16E-07	1.85E-04	2.01E-03	9.12E-04	2.87E-02	4.28E-02	1.40E-01
5979	482700.33	3855818.39	0.02097	0.00635	0.00943	0.00526	0.006	0.01	0.0041	0.00635	1.46E-01	1.17E-02	9.82E-07	1.85E-04	1.93E-03	9.10E-04	2.90E-02	4.32E-02	1.47E-01
5980	482698.92	3855718.54	0.03315	0.00672	0.01006	0.00539	0.006	0.01	0.0042	0.00672	2.31E-01	1.24E-02	1.05E-06	1.90E-04	1.86E-03	9.57E-04	3.00E-02	4.57E-02	2.31E-01
5981	482697.52	3855618.68	0.03822	0.00714	0.01044	0.00553	0.006	0.011	0.0044	0.00714	2.66E-01	1.32E-02	1.09E-06	1.95E-04	1.78E-03	1.01E-03	3.11E-02	4.86E-02	2.65E-01
5982	482696.11	3855518.83	0.03987	0.00764	0.01118	0.0057	0.005	0.011	0.0046	0.00764	2.78E-01	1.41E-02	1.16E-06	2.01E-04	1.71E-03	1.07E-03	3.24E-02	5.20E-02	2.75E-01
5983	482694.71	3855418.98	0.04062	0.00821	0.01227	0.00589	0.005	0.012	0.0048	0.00821	2.83E-01	1.52E-02	1.28E-06	2.07E-04	1.65E-03	1.14E-03	3.38E-02	5.58E-02	2.79E-01
5984	482693.3	3855319.13	0.04101	0.00888	0.01376	0.0061	0.005	0.013	0.005	0.00888	2.86E-01	1.64E-02	1.43E-06	2.15E-04	1.60E-03	1.24E-03	3.54E-02	6.04E-02	2.80E-01
5985	482691.9	3855219.27	0.04122	0.0097	0.01715	0.00635	0.005	0.014	0.0053	0.0097	2.87E-01	1.79E-02	1.79E-06	2.23E-04	1.55E-03	1.36E-03	3.72E-02	6.60E-02	2.80E-01
5986	482690.49	3855119.42	0.04122	0.01066	0.02139	0.00661	0.005	0.016	0.0055	0.01066	2.87E-01	1.97E-02	2.23E-06	2.33E-04	1.50E-03	1.53E-03	3.92E-02	7.25E-02	2.77E-01
5987	482689.09	3855019.57	0.0412	0.01192	0.02487	0.00691	0.005	0.02	0.0059	0.01192	2.87E-01	2.20E-02	2.59E-06	2.43E-04	1.45E-03	1.83E-03	4.16E-02	8.11E-02	2.73E-01
5988	482687.68	3854919.71	0.04101	0.01343	0.0273	0.0072	0.004	0.027	0.0063	0.01343	2.86E-01	2.48E-02	2.84E-06	2.53E-04	1.39E-03	2.54E-03	4.43E-02	9.13E-02	2.68E-01
5989	482686.28	3854819.86	0.04085	0.01538	0.02987	0.00754	0.004	0.065	0.0067	0.01538	2.85E-01	2.84E-02	3.11E-06	2.65E-04	1.33E-03	6.10E-03	4.77E-02	1.05E-01	2.64E-01
5990	482684.88	3854720.01	0.04052	0.01768	0.02927	0.0079	0.004	0.196	0.0073	0.01768	2.82E-01	3.27E-02	3.05E-06	2.78E-04	1.28E-03	1.84E-02	5.16E-02	1.20E-01	2.66E-01
5991	482683.47	3854620.16	0.04023	0.0206	0.02381	0.00836	0.004	0.195	0.008	0.0206	2.80E-01	3.80E-02	2.48E-06	2.94E-04	1.23E-03	1.83E-02	5.68E-02	1.40E-01	2.55E-01
5992	482682.07	3854520.31	0.03983	0.02384	0.01811	0.00887	0.004	0.197	0.0089	0.02384	2.78E-01	4.40E-02	1.89E-06	3.12E-04	1.20E-03	1.85E-02	6.29E-02	1.62E-01	2.43E-01
5993	482680.66	3854420.45	0.03931	0.02732	0.01375	0.00945	0.004	0.203	0.01	0.02732	2.74E-01	5.05E-02	1.43E-06	3.33E-04	1.18E-03	1.91E-02	7.09E-02	1.86E-01	2.30E-01
5994	482679.26	3854320.6	0.03871	0.0304	0.01035	0.01001	0.004	0.208	0.0114	0.0304	2.70E-01	5.61E-02	1.08E-06	3.52E-04	1.16E-03	1.96E-02	8.08E-02	2.07E-01	2.21E-01
5995	482677.85	3854220.75	0.03817	0.03271	0.008	0.01059	0.004	0.223	0.0134	0.03271	2.66E-01	6.04E-02	8.33E-07	3.73E-04	1.13E-03	2.10E-02	9.49E-02	2.22E-01	2.22E-01
5996	482676.45	3854120.9	0.03727	0.03374	0.00674	0.0109	0.004	0.217	0.0156	0.03374	2.60E-01	6.23E-02	7.02E-07	3.84E-04	1.10E-03	2.04E-02	1.11E-01	2.29E-01	2.25E-01
5997	482675.04	3854021.04	0.0363	0.03504	0.00581	0.01086	0.003	0.256	0.0183	0.03504	2.53E-01	6.47E-02	6.05E-07	3.82E-04	1.06E-03	2.41E-02	1.30E-01	2.38E-01	2.35E-01
5998	482673.64	3853921.19	0.03516	0.03637	0.00509	0.01046	0.003	0.087	0.0212	0.03637	2.45E-01	6.72E-02	5.30E-07	3.68E-04	1.02E-03	8.19E-03	1.50E-01	2.47E-01	2.25E-01
5999	482672.23	3853821.34	0.03391	0.03867	0.00451	0.00963	0.003	0.033	0.0245	0.03867	2.36E-01	7.14E-02	4.70E-07	3.39E-04	9.74E-04	3.11E-03	1.74E-01	2.63E-01	2.23E-01
6000	482670.83	3853721.48	0.03251	0.04131	0.00405	0.0083	0.003	0.019	0.0289	0.04131	2.27E-01	7.63E-02	4.22E-07	2.92E-04	9.34E-04	1.79E-03	2.05E-01	2.81E-01	2.30E-01
6001	482669.42	3853621.63	0.03096	0.04459	0.00371	0.00692	0.003	0.013	0.0351	0.04459	2.16E-01	8.24E-02	3.86E-07	2.44E-04	8.96E-04	1.21E-03	2.49E-01	3.03E-01	2.46E-01
6002	482645.99	3853446.13	0.02736	0.05077	0.00323	0.00517	0.003	0.008	0.0467	0.05077	1.91E-01	9.38E-02	3.36E-07	1.82E-04	8.46E-04	7.52E-04	3.31E-01	3.45E-01	2.72E-01
6003	482623.96	3853370.48	0.02569	0.05137	0.00305	0.00466	0.003	0.007	0.0494	0.05137	1.79E-01	9.49E-02	3.18E-07	1.64E-04	8.27E-04	6.50E-04	3.50E-01	3.49E-01	2.76E-01
6004	482601.94	3853294.84	0.02417	0.0538	0.00288	0.00428	0.003	0.006	0.0536	0.0538	1.69E-01	9.94E-02	3.00E-07	1.51E-04	8.08E-04	5.75E-04	3.80E-01	3.66E-01	2.83E-01
6005	482531.29	3853133.44	0.02192	0.06185	0.00251	0.00365	0.002	0.005	0.062	0.06185	1.53E-01	1.14E-01	2.61E-07	1.28E-04	7.77E-04	4.66E-04	4.39E-01	4.21E-01	2.87E-01
6006	482482.68	3853047.69	0.02075	0.06649	0.00232	0.00338	0.002	0.005	0.067	0.06649	1.45E-01	1.23E-01	2.42E-07	1.19E-04	7.61E-04	4.23E-04	4.75E-01	4.52E-01	2.92E-01
6007	482383.08	3852897.4	0.01865	0.09825	0.00206	0.00299	0.002	0.004	0.1001	0.09825	1.30E-01	1.81E-01	2.14E-07	1.05E-04	7.30E-04	3.64E-04	7.09E-01	6.68E-01	3.54E-01
6008	482265.64	3852765.26	0.01731	0.11089	0.00186	0.00273	0.002	0.003	0.113	0.11089	1.21E-01	2.05E-01	1.94E-07	9.61E-05	7.08E-04	3.21E-04	8.01E-01	7.54E-01	3.74E-01
6009	482199.16	3852697.66	0.01686	0.10982	0.00178	0.00261	0.002	0.003	0.1119	0.10982	1.18E-01	2.03E-01	1.85E-07	9.19E-05	6.96E-04	3.02E-04	7.93E-01	7.47E-01	3.67E-01
6010	482132.69	3852630.07	0.01651	0.10779	0.00171	0.00251	0.002	0.003	0.1098	0.10779	1.15E-01	1.99E-01	1.78E-07	8.83E-05	6.83E-04	2.85E-04	7.78E-01	7.33E-01	3.60E-01
6011	482066.21	3852562.48	0.01621	0.1068	0.00165	0.00241	0.002	0.003	0.1087	0.1068	1.13E-01	1.97E-01	1.72E-07	8.48E-05	6.74E-04	2.71E-04	7.70E-01	7.26E-01	3.55E-01
6012	481999.74	3852494.89	0.01595	0.10489	0.0016	0.00233	0.002	0.003	0.1068	0.10489	1.11E-01	1.94E-01	1.67E-07	8.20E-05	6.61E-04	2.58E-04	7.56E-01	7.13E-01	3.49E-01
6013	481933.26	3852427.29	0.01571	0.10188	0.00156	0.00225	0.002	0.003	0.1037	0.10188	1.10E-01	1.88E-01	1.62E-07	7.92E-05	6.52E-04	2.48E-04	7.35E-01	6.93E-01	3.41E-01
6014	481866.79	3852359.7	0.01544	0.10126	0.00152	0.00217	0.002	0.003	0.1031	0.10126	1.08E-01	1.87E-01	1.58E-07	7.64E-05	6.39E-04	2.39E-04	7.30E-01	6.89E-01	3.37E-01
6015	481800.31	3852292.11	0.01523	0.09863	0.00147	0.00211	0.002	0.002	0.1003	0.09863	1.06E-01	1.82E-01	1.53E-07	7.43E-05	6.30E-04	2.29E-04	7.11E-01	6.71E-01	3.29E-01
6016	481733.84	3852224.52	0.01505	0.09683	0.00143	0.00204	0.002	0.002	0.0985	0.09683	1.05E-01	1.79E-01	1.49E-07	7.18E-05	6.20E-04	2.22E-04	6.98E-01	6.58E-01	3.24E-01
6017	481667.36	3852156.92	0.01489	0.09677	0.00139	0.00198	0.002	0.002	0.0984	0.09677	1.04E-01	1.79E-01	1.45E-07	6.97E-05	6.14E-04	2.14E-04	6.97E-01	6.58E-01	3.22E-01
6018	481600.89	3852089.33	0.01473	0.09479	0.00135	0.00193	0.002	0.002	0.0964	0.09479	1.03E-01	1.75E-01	1.41E-07	6.79E-05	6.05E-04	2.08E-04	6.83E-01	6.45E-01	3.17E-01
6019	481534.41	3852021.74	0.01461	0.09414	0.00132	0.00188	0.002	0.002	0.0957	0.09414	1.02E-01	1.74E-01	1.37E-07	6.62E-05	5.95E-04	2.02E-04	6.78E-01	6.40E-01	3.15E-01
6020	481467.94	3851954.15	0.0145	0.09347	0.00129	0.00183	0.002	0.002	0.095	0.09347	1.01E-01	1.73E-01	1.34E-07	6.44E-05	5.86E-04	1.96E-04	6.73E-01	6.36E-01	3.12E-01
6021	481401.46	3851886.55	0.01446	0.0932	0.00125	0.00178	0.002	0.002	0.0947	0.0932	1.01E-01	1.72E-01	1.30E-07	6.26E-05	5.77E-04	1.91E-04	6.71E-01	6.34E-01	3.11E-01
6022	481265.87	3851761.43	0.01432	0.08187	0.00118	0.0017	0.002	0.002	0.083	0.08187	9.98E-02	1.51E-01	1.23E-07	5.98E-05	5.61E-04	1.81E-04	5.88E-01	5.57E-01	2.83E-01
6023	481196.74	3851703.89	0.015	0.07659	0.00114	0.00167	0.002	0.002	0.0773	0.07659	1.05E-01	1.41E-01	1.19E-07	5.88E-05	5.55E-04	1.77E-04	5.48E-01	5.21E-01	2.74E-01
6024	481076.33	3851619.04	0.0153	0.07445	0.00109	0.00162	0.002	0.002	0.0744	0.07445	1.07E-01	1.38E-01	1.13E-07	5.70E-05	5.45E-04	1.70E-04	5.27E-01	5.06E-01	2.66E-01
6025	480939.8	3851549.07	0.01537	0.07221	0.00103	0.00159	0.002	0.002	0.0717	0.07221	1.07E-01	1.33E-01	1.07E-07	5.60E-05	5.39E-04	1.64E-04	5.08E-01	4.91E-01	2.58E-01
6026	480854.56	3851506.41	0.01554	0.07254	0.001	0.00157	0.002	0.002	0.0723	0.07254	1.08E-01	1.34E-01	1.04E-07	5.53E-05	5.36E-04	1.62E-04	5.12E-01	4.93E-01	2.62E-01
6027	480769.32	3851463.75	0.01592	0.07338	0.00097	0.00155	0.002	0.002	0.0735	0.07338	1.11E-01	1.36E-01	1.01E-07	5.46E-05	5.30E-04	1.59E-04	5.21E-01	4.99E-01	2.69E-01
6028	480684.08	3851421.08	0.01626	0.07428	0.00095	0.00154	0.002	0.002	0.0748	0.07428	1.13E-01	1.37E-01	9.89E-08	5.42E-05	5.26E-04	1.56E-04	5.30E-01	5.05E-01	2.76E-01

6029	480598.84	3851378.42	0.01632	0.07432	0.00093	0.00152	0.002	0.002	0.0752	0.07432	1.14E-01	1.37E-01	9.68E-08	5.35E-05	5.20E-04	1.55E-04	5.33E-01	5.05E-01	2.79E-01
6030	480435.71	3851275.01	0.0165	0.10054	0.0009	0.00149	0.002	0.002	0.1032	0.10054	1.15E-01	1.86E-01	9.37E-08	5.24E-05	5.11E-04	1.51E-04	7.31E-01	6.84E-01	3.49E-01
6031	480347.85	3851232.36	0.01595	0.09912	0.00089	0.00147	0.002	0.002	0.1025	0.09912	1.11E-01	1.83E-01	9.27E-08	5.17E-05	5.04E-04	1.49E-04	7.26E-01	6.74E-01	3.47E-01
6032	480260	3851189.72	0.01584	0.0977	0.00088	0.00146	0.002	0.002	0.1017	0.0977	1.10E-01	1.80E-01	9.16E-08	5.14E-05	5.01E-04	1.49E-04	7.20E-01	6.64E-01	3.48E-01
6033	480172.15	3851147.07	0.01585	0.09648	0.00087	0.00145	0.002	0.002	0.1011	0.09648	1.11E-01	1.78E-01	9.06E-08	5.10E-05	4.95E-04	1.48E-04	7.16E-01	6.56E-01	3.50E-01
6034	480084.29	3851104.42	0.01596	0.09531	0.00086	0.00143	0.002	0.002	0.1004	0.09531	1.11E-01	1.76E-01	8.95E-08	5.03E-05	4.92E-04	1.47E-04	7.12E-01	6.48E-01	3.51E-01
6035	479996.44	3851061.77	0.01611	0.09444	0.00084	0.00142	0.002	0.002	0.1	0.09444	1.12E-01	1.74E-01	8.74E-08	5.00E-05	4.86E-04	1.46E-04	7.08E-01	6.42E-01	3.54E-01
6036	479908.58	3851019.13	0.0163	0.09596	0.00083	0.0014	0.002	0.002	0.1022	0.09596	1.14E-01	1.77E-01	8.64E-08	4.93E-05	4.83E-04	1.44E-04	7.24E-01	6.53E-01	3.63E-01
6037	479820.73	3850976.48	0.01653	0.09492	0.00082	0.00139	0.002	0.002	0.1016	0.09492	1.15E-01	1.75E-01	8.54E-08	4.89E-05	4.76E-04	1.42E-04	7.20E-01	6.45E-01	3.66E-01
6038	479732.88	3850933.83	0.0171	0.09403	0.00082	0.00137	0.002	0.001	0.1011	0.09403	1.19E-01	1.74E-01	8.54E-08	4.82E-05	4.73E-04	1.40E-04	7.16E-01	6.39E-01	3.70E-01
6039	479645.02	3850891.18	0.01771	0.09374	0.00081	0.00136	0.001	0.001	0.1009	0.09374	1.23E-01	1.73E-01	8.43E-08	4.79E-05	4.67E-04	1.38E-04	7.15E-01	6.37E-01	3.75E-01
6040	479557.17	3850848.54	0.01813	0.09304	0.0008	0.00134	0.001	0.001	0.0999	0.09304	1.26E-01	1.72E-01	8.33E-08	4.72E-05	4.64E-04	1.36E-04	7.08E-01	6.33E-01	3.74E-01
6041	479469.32	3850805.89	0.01844	0.09401	0.0008	0.00132	0.001	0.001	0.1007	0.09401	1.29E-01	1.74E-01	8.33E-08	4.65E-05	4.57E-04	1.33E-04	7.14E-01	6.39E-01	3.77E-01
6042	479381.46	3850763.24	0.01853	0.09319	0.00079	0.0013	0.001	0.001	0.0996	0.09319	1.29E-01	1.72E-01	8.22E-08	4.58E-05	4.54E-04	1.32E-04	7.06E-01	6.34E-01	3.74E-01
6043	479293.61	3850720.59	0.01847	0.0916	0.00079	0.00129	0.001	0.001	0.0978	0.0916	1.29E-01	1.69E-01	8.22E-08	4.54E-05	4.48E-04	1.29E-04	6.93E-01	6.23E-01	3.68E-01
6044	479205.76	3850677.95	0.01837	0.09046	0.00079	0.00127	0.001	0.001	0.0964	0.09046	1.28E-01	1.67E-01	8.22E-08	4.47E-05	4.45E-04	1.27E-04	6.83E-01	6.15E-01	3.64E-01
6045	479117.9	3850635.3	0.01826	0.08757	0.0008	0.00126	0.001	0.001	0.093	0.08757	1.27E-01	1.62E-01	8.33E-08	4.43E-05	4.42E-04	1.25E-04	6.59E-01	5.95E-01	3.53E-01
6046	479030.05	3850592.65	0.01802	0.08509	0.0008	0.00124	0.001	0.001	0.09	0.08509	1.26E-01	1.57E-01	8.33E-08	4.36E-05	4.36E-04	1.23E-04	6.38E-01	5.79E-01	3.42E-01
6047	478942.19	3850550	0.01752	0.08657	0.00079	0.00122	0.001	0.001	0.0914	0.08657	1.22E-01	1.60E-01	8.22E-08	4.29E-05	4.32E-04	1.20E-04	6.48E-01	5.89E-01	3.42E-01
6048	478854.34	3850507.36	0.01708	0.09248	0.00078	0.0012	0.001	0.001	0.0975	0.09248	1.19E-01	1.71E-01	8.12E-08	4.22E-05	4.29E-04	1.17E-04	6.91E-01	6.29E-01	3.53E-01
6049	478766.49	3850464.71	0.01669	0.09287	0.00078	0.00118	0.001	0.001	0.0976	0.09287	1.16E-01	1.72E-01	8.12E-08	4.15E-05	4.17E-04	1.15E-04	6.92E-01	6.32E-01	3.49E-01
6050	478678.63	3850422.06	0.0164	0.09273	0.00077	0.00117	0.001	0.001	0.0973	0.09273	1.14E-01	1.71E-01	8.02E-08	4.12E-05	4.10E-04	1.13E-04	6.89E-01	6.31E-01	3.45E-01
6051	478590.78	3850379.41	0.01621	0.09292	0.00077	0.00115	0.001	0.001	0.0973	0.09292	1.13E-01	1.72E-01	8.02E-08	4.05E-05	4.07E-04	1.11E-04	6.89E-01	6.32E-01	3.43E-01
6052	478502.93	3850336.77	0.01602	0.0927	0.00077	0.00113	0.001	0.001	0.0968	0.0927	1.12E-01	1.71E-01	8.02E-08	3.98E-05	4.01E-04	1.10E-04	6.86E-01	6.30E-01	3.39E-01
6053	478415.07	3850294.12	0.01582	0.09184	0.00077	0.00112	0.001	0.001	0.0956	0.09184	1.10E-01	1.70E-01	8.02E-08	3.94E-05	3.98E-04	1.08E-04	6.78E-01	6.24E-01	3.34E-01
6054	478327.22	3850251.47	0.01554	0.09238	0.00077	0.0011	0.001	0.001	0.096	0.09238	1.08E-01	1.71E-01	8.02E-08	3.87E-05	3.95E-04	1.07E-04	6.80E-01	6.28E-01	3.32E-01
6055	478239.36	3850208.82	0.01536	0.09248	0.00077	0.00109	0.001	0.001	0.0959	0.09248	1.07E-01	1.71E-01	8.02E-08	3.84E-05	3.92E-04	1.06E-04	6.80E-01	6.29E-01	3.29E-01
6056	478151.51	3850166.18	0.01527	0.09233	0.00077	0.00107	0.001	0.001	0.0956	0.09233	1.06E-01	1.71E-01	8.02E-08	3.77E-05	3.89E-04	1.05E-04	6.77E-01	6.28E-01	3.27E-01
6057	478063.66	3850123.53	0.01524	0.09194	0.00077	0.00106	0.001	0.001	0.0949	0.09194	1.06E-01	1.70E-01	8.02E-08	3.73E-05	3.85E-04	1.04E-04	6.73E-01	6.25E-01	3.24E-01
6058	477975.8	3850080.88	0.01499	0.08972	0.00077	0.00106	0.001	0.001	0.0925	0.08972	1.05E-01	1.66E-01	8.02E-08	3.73E-05	3.85E-04	1.04E-04	6.55E-01	6.10E-01	3.16E-01
6059	477887.95	3850038.23	0.01492	0.08929	0.00077	0.00105	0.001	0.001	0.0919	0.08929	1.04E-01	1.65E-01	8.02E-08	3.70E-05	3.85E-04	1.04E-04	6.51E-01	6.07E-01	3.13E-01
6060	477800.1	3849995.59	0.01483	0.08798	0.00078	0.00105	0.001	0.001	0.0903	0.08798	1.03E-01	1.62E-01	8.12E-08	3.70E-05	3.82E-04	1.04E-04	6.40E-01	5.98E-01	3.08E-01
6061	477712.24	3849952.94	0.01477	0.08831	0.00077	0.00104	0.001	0.001	0.0905	0.08831	1.03E-01	1.63E-01	8.02E-08	3.66E-05	3.82E-04	1.03E-04	6.41E-01	6.00E-01	3.07E-01
6062	477624.39	3849910.29	0.01451	0.08823	0.00077	0.00103	0.001	0.001	0.0902	0.08823	1.01E-01	1.63E-01	8.02E-08	3.63E-05	3.79E-04	1.03E-04	6.39E-01	6.00E-01	3.04E-01
6063	477536.54	3849867.64	0.01414	0.08703	0.00077	0.00102	0.001	0.001	0.0888	0.08703	9.86E-02	1.61E-01	8.02E-08	3.59E-05	3.82E-04	1.03E-04	6.29E-01	5.92E-01	2.97E-01
6064	477448.68	3849825	0.01396	0.08668	0.00076	0.00102	0.001	0.001	0.0882	0.08668	9.73E-02	1.60E-01	7.91E-08	3.59E-05	3.76E-04	1.02E-04	6.25E-01	5.89E-01	2.94E-01
6065	477360.83	3849782.35	0.01383	0.08589	0.00076	0.00101	0.001	0.001	0.0873	0.08589	9.64E-02	1.59E-01	7.91E-08	3.55E-05	3.73E-04	1.02E-04	6.18E-01	5.84E-01	2.90E-01
6066	477272.97	3849739.7	0.01384	0.08462	0.00075	0.001	0.001	0.001	0.0858	0.08462	9.65E-02	1.56E-01	7.81E-08	3.52E-05	3.73E-04	1.02E-04	6.08E-01	5.75E-01	2.86E-01
6067	477185.12	3849697.05	0.01386	0.08428	0.00075	0.00099	0.001	0.001	0.0853	0.08428	9.66E-02	1.56E-01	7.81E-08	3.48E-05	3.70E-04	1.02E-04	6.04E-01	5.73E-01	2.84E-01
6068	477097.27	3849654.41	0.01392	0.0853	0.00074	0.00099	0.001	0.001	0.0861	0.0853	9.70E-02	1.58E-01	7.70E-08	3.48E-05	3.67E-04	1.01E-04	6.10E-01	5.80E-01	2.85E-01
6069	477009.41	3849611.76	0.01402	0.08803	0.00073	0.00098	0.001	0.001	0.0887	0.08803	9.77E-02	1.63E-01	7.60E-08	3.45E-05	3.63E-04	1.01E-04	6.28E-01	5.99E-01	2.90E-01
6070	476841.49	3849530.08	0.01427	0.08874	0.00072	0.00096	0.001	0.001	0.0891	0.08874	9.95E-02	1.64E-01	7.50E-08	3.38E-05	3.60E-04	9.96E-05	6.31E-01	6.03E-01	2.91E-01
6071	476761.41	3849491.05	0.01441	0.08868	0.00071	0.00096	0.001	0.001	0.0889	0.08868	1.00E-01	1.64E-01	7.39E-08	3.38E-05	3.60E-04	9.87E-05	6.30E-01	6.03E-01	2.91E-01
6072	476681.34	3849452.02	0.01466	0.09093	0.0007	0.00095	0.001	0.001	0.091	0.09093	1.02E-01	1.68E-01	7.29E-08	3.34E-05	3.57E-04	9.87E-05	6.45E-01	6.18E-01	2.97E-01
6073	476601.26	3849412.99	0.01511	0.09548	0.00069	0.00094	0.001	0.001	0.0954	0.09548	1.05E-01	1.76E-01	7.18E-08	3.31E-05	3.57E-04	9.78E-05	6.76E-01	6.49E-01	3.09E-01
6074	476456.32	3849353.67	0.01566	0.10991	0.00067	0.00093	0.001	0.001	0.11	0.10991	1.09E-01	2.03E-01	6.98E-08	3.27E-05	3.54E-04	9.68E-05	7.79E-01	7.47E-01	3.45E-01
6075	476305.43	3849318.83	0.0152	0.10504	0.00065	0.00093	0.001	0.001	0.1057	0.10504	1.06E-01	1.94E-01	6.77E-08	3.27E-05	3.57E-04	9.68E-05	7.49E-01	7.14E-01	3.35E-01
6076	476129.36	3849289.99	0.01477	0.09533	0.00063	0.00093	0.001	0.001	0.0961	0.09533	1.03E-01	1.76E-01	6.56E-08	3.27E-05	3.60E-04	9.68E-05	6.81E-01	6.48E-01	3.12E-01
6077	476039.31	3849275.68	0.01453	0.09195	0.00062	0.00093	0.001	0.001	0.0926	0.09195	1.01E-01	1.70E-01	6.45E-08	3.27E-05	3.60E-04	9.68E-05	6.56E-01	6.25E-01	3.02E-01
6078	475949.26	3849261.38	0.0145	0.09319	0.00061	0.00093	0.001	0.001	0.0937	0.09319	1.01E-01	1.72E-01	6.35E-08	3.27E-05	3.63E-04	9.68E-05	6.64E-01	6.34E-01	3.04E-01
6079	475859.21	3849247.08	0.01431	0.0883	0.0006	0.00093	0.001	0.001	0.0886	0.0883	9.98E-02	1.63E-01	6.25E-08	3.27E-05	3.63E-04	9.68E-05	6.28E-01	6.00E-01	2.91E-01
6080	475769.16	3849232.77	0.01426	0.08463	0.00059	0.00093	0.001	0.001	0.0849	0.08463	9.94E-02	1.56E-01	6.14E-08	3.27E-05	3.67E-04	9.59E-05	6.01E-01	5.75E-01	2.82E-01
6081	475585.22	3849219.27	0.01115	0.04929	0.00056	0.00091	0.001	1E-03	0.0496	0.04929	7.77E-02	9.10E-02	5.83E-08	3.20E-05	3.70E-04	9.31E-05	3.51E-01	3.35E-01	1.85E-01
6082	475444.49	3849150.34	0.01732	0.09725	0.00056	0.00092	0.001	1E-03	0.0977	0.09725	1.21E-01	1.80E-01	5.83E-08	3.24E-05	3.67E-04	9.31E-05	6.92E-01	6.61E-01	3.32E-01
6083	475334.17	3849118.71	0.01377	0.08094	0.00057	0.00092	0.001	1E-03	0.0813	0.08094	9.60E-02	1.49E-01	5.93E-08	3.24E-05	3.67E-04	9.31E-05	5.76E-01	5.50E-01	2.71E-01
6084	475230.46	3849060.57	0.01482	0.0952	0.00056	0.00091	0.001	1E-03	0.0956	0.0952	1.03E-01	1.76E-01	5.83E-08	3.20E-05	3.63E-04	9.21E-05	6.77E-01	6.47E-01	3.10E-01
6085	475110.86	3848960.97	0.01454	0.10983	0.00055	0.00089	0.001	1E-03	0.1109	0.10983	1.01E-01	2.03E-01	5.73E-08	3.13E-05	3.60E-04	9.12E-05	7.86E-01	7.47E-01	3.43E-01
6086	475037.79	3848896.28	0.01404	0.11515	0.00054	0.00088	0.001	1E-03	0.1162	0.11515	9.79E-02	2.13E-01	5.62E-08	3.10E-05	3.54E-04	9.02E-05	8.24E-01	7.83E-01	3.52E-01

6087	474964.72	3848831.59	0.0139	0.1199	0.00054	0.00087	0.001	1E-03	0.121	0.1199	9.69E-02	2.21E-01	5.62E-08	3.06E-05	3.51E-04	8.93E-05	8.57E-01	8.15E-01	3.61E-01
6088	474891.65	3848766.9	0.01328	0.12278	0.00053	0.00086	0.001	9E-04	0.1239	0.12278	9.26E-02	2.27E-01	5.52E-08	3.03E-05	3.48E-04	8.84E-05	8.78E-01	8.35E-01	3.63E-01
6089	474818.58	3848702.22	0.01279	0.12768	0.00053	0.00086	0.001	9E-04	0.1288	0.12768	8.92E-02	2.36E-01	5.52E-08	3.03E-05	3.45E-04	8.74E-05	9.12E-01	8.68E-01	3.70E-01
6090	474745.51	3848637.53	0.0112	0.12333	0.00053	0.00085	0.001	9E-04	0.1244	0.12333	7.81E-02	2.28E-01	5.52E-08	2.99E-05	3.42E-04	8.74E-05	8.81E-01	8.39E-01	3.49E-01
6091	474672.44	3848572.84	0.0106	0.12633	0.00052	0.00085	0.001	9E-04	0.1273	0.12633	7.39E-02	2.33E-01	5.41E-08	2.99E-05	3.38E-04	8.65E-05	9.02E-01	8.59E-01	3.51E-01
6092	474599.37	3848508.15	0.01042	0.13421	0.00052	0.00084	0.001	9E-04	0.1352	0.13421	7.26E-02	2.48E-01	5.41E-08	2.96E-05	3.35E-04	8.55E-05	9.58E-01	9.13E-01	3.67E-01
6093	474526.3	3848443.46	0.01	0.13821	0.00051	0.00083	0.001	9E-04	0.1392	0.13821	6.97E-02	2.55E-01	5.31E-08	2.92E-05	3.32E-04	8.46E-05	9.86E-01	9.40E-01	3.72E-01

NOx
1hr 1st
Concentration [ug/m^3] at 1 g/s

	X	Y	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex Main
1	485973.61	3854936.51	5.37511	2.2777	3.77889	3.8919	9.037	2.181	2.6246	2.2777
2	486023.61	3854936.51	5.28668	2.24631	3.67521	3.7277	8.499	2.101	2.5461	2.24631
3	486073.61	3854936.51	5.06475	2.21196	3.57648	3.58835	8.112	2.043	2.4803	2.21196
4	486123.61	3854936.51	4.92576	2.19845	3.54287	3.39736	7.335	1.932	2.4211	2.19845
5	486173.61	3854936.51	4.88452	2.21969	3.59139	3.3062	7.077	1.909	2.4393	2.21969
6	486223.61	3854936.51	4.78707	2.22189	3.49324	3.16422	6.503	1.834	2.4187	2.22189
7	486273.61	3854936.51	4.70859	2.21741	3.37293	3.05024	6.933	1.777	2.4095	2.21741
8	486323.61	3854936.51	4.63817	2.2219	3.45756	2.94747	7.353	1.728	2.4133	2.2219
9	485973.61	3854986.51	5.48931	2.27902	3.7621	4.23154	9.885	2.376	2.7276	2.27902
10	486023.61	3854986.51	5.40367	2.26907	3.62023	4.08277	9.416	2.276	2.67	2.26907
11	486073.61	3854986.51	5.31529	2.24108	3.52367	3.92823	8.878	2.182	2.5952	2.24108
12	486123.61	3854986.51	5.22765	2.20492	3.43598	3.77659	8.34	2.099	2.5182	2.20492
13	486173.61	3854986.51	5.03014	2.18299	3.35373	3.6564	7.966	2.048	2.4786	2.18299
14	486223.61	3854986.51	4.93183	2.18946	3.30656	3.51011	7.298	1.968	2.4554	2.18946
15	486273.61	3854986.51	4.82176	2.19167	3.35825	3.35691	6.976	1.877	2.4333	2.19167
16	486323.61	3854986.51	4.79477	2.20297	3.44437	3.28897	7.75	1.867	2.4705	2.20297
17	485973.61	3855036.51	5.60272	2.25698	3.70536	4.34774	10.82	2.604	2.7512	2.25698
18	486023.61	3855036.51	5.51499	2.26087	3.64686	4.19686	10.27	2.492	2.6963	2.26087
19	486073.61	3855036.51	5.42305	2.2445	3.51927	4.04115	9.64	2.358	2.6286	2.2445
20	486123.61	3855036.51	5.33475	2.22501	3.34354	3.91237	9.143	2.253	2.568	2.22501
21	486173.61	3855036.51	5.26441	2.20773	3.45484	3.80988	8.823	2.188	2.5251	2.20773
22	486223.61	3855036.51	5.05443	2.16082	3.5001	3.66657	8.08	2.092	2.4405	2.16082
23	486273.61	3855036.51	4.99568	2.16521	3.58035	3.57912	7.736	2.054	2.4406	2.16521
24	486323.61	3855036.51	4.90638	2.17151	3.54427	3.45996	7.871	1.981	2.4382	2.17151
25	485973.61	3855086.51	5.71725	2.20488	4.01989	4.68814	11.71	2.721	2.7662	2.20488
26	486023.61	3855086.51	5.62425	2.23006	3.89579	4.45333	11.21	2.627	2.6984	2.23006
27	486073.61	3855086.51	5.53402	2.23032	3.75146	4.1933	10.54	2.492	2.6181	2.23032
28	486123.61	3855086.51	5.44771	2.23458	3.97055	4.00656	10.18	2.409	2.5726	2.23458
29	486173.61	3855086.51	5.36562	2.2153	4.01644	3.834	9.574	2.297	2.5009	2.2153
30	486223.61	3855086.51	5.29335	2.19679	3.98574	3.69303	9.119	2.221	2.456	2.19679
31	485973.61	3855136.51	5.80309	2.14027	4.20786	5.10735	12.8	2.901	2.9896	2.14027
32	486023.61	3855136.51	5.71083	2.173	4.33743	4.92048	12.15	2.758	2.8401	2.173
33	486073.61	3855136.51	5.64102	2.19438	4.47764	4.71101	11.53	2.625	2.7215	2.19438
34	486123.61	3855136.51	5.55222	2.20943	4.48459	4.4702	11.08	2.512	2.6485	2.20943
35	486173.61	3855136.51	5.47281	2.21105	4.39064	4.22978	10.56	2.396	2.5666	2.21105
36	486223.61	3855136.51	5.39629	2.20415	4.28142	4.00534	10.07	2.292	2.5041	2.20415
37	485973.61	3855186.51	5.86865	2.083	4.55273	5.52346	14	3.081	3.1828	2.083
38	486023.61	3855186.51	5.78383	2.10256	4.75913	5.26028	13.27	3.024	3.0989	2.10256
39	486073.61	3855186.51	5.71997	2.13249	4.82742	5.07312	12.5	2.878	2.9533	2.13249
40	486123.61	3855186.51	5.67013	2.15362	4.74831	4.94419	11.83	2.724	2.8099	2.15362
41	486173.61	3855186.51	5.58622	2.17283	4.53822	4.70411	11.38	2.591	2.6964	2.17283
42	486223.61	3855186.51	5.49959	2.18243	4.35998	4.46838	10.92	2.464	2.6211	2.18243
43	486273.61	3855186.51	5.41708	2.17815	4.20975	4.23172	10.34	2.337	2.5381	2.17815
44	486323.61	3855186.51	5.35042	2.19257	4.19605	4.0823	10.3	2.297	2.5155	2.19257
45	485973.61	3855236.51	5.92348	2.02647	5.22734	5.86047	15.13	3.26	3.1967	2.02647
46	486023.61	3855236.51	5.86864	2.04689	5.21424	5.58952	14.26	3.119	3.1485	2.04689
47	486073.61	3855236.51	5.8159	2.06079	4.92596	5.34634	13.41	3.108	3.1446	2.06079
48	486123.61	3855236.51	5.76486	2.08506	4.78338	5.16162	12.77	2.967	3.0446	2.08506
49	486173.61	3855236.51	5.70363	2.11676	4.57892	5.09135	12.26	2.832	2.9419	2.11676
50	486223.61	3855236.51	5.62963	2.13736	4.25384	4.91581	11.77	2.693	2.8284	2.13736
51	486273.61	3855236.51	5.53681	2.13689	3.92973	4.71038	10.95	2.524	2.6858	2.13689
52	486323.61	3855236.51	5.46213	2.17727	3.88735	4.50384	11.26	2.5	2.6799	2.17727
53	485973.61	3855286.51	6.01105	1.95321	6.01399	6.04613	16.04	3.448	3.2404	1.95321

Rates (g/s): 1.04E+01 1.85E+00 1.04E-04 5.27E-02 4.69E-01 1.41E-01 7.09E+00 6.80E+00

Unmitigated
Concentration [ug/m^3]

	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex Main	Total
1	56.0826575	4.206742604	0.0003934	0.205002	4.237524	0.30676	18.59638	1.55E+01	6.81E+01
2	55.1599993	4.148767607	0.0003826	0.196353	3.985532	0.2955	18.04011	1.53E+01	6.66E+01
3	52.8444329	4.08532571	0.0003723	0.189013	3.804032	0.2874	17.57354	1.50E+01	6.37E+01
4	51.3942433	4.060373744	0.0003688	0.178953	3.439339	0.27177	17.15444	1.49E+01	6.16E+01
5	50.9639547	4.099602445	0.0003739	0.174151	3.31863	0.2686	17.2836	1.51E+01	6.10E+01
6	49.9471838	4.103665682	0.0003637	0.166672	3.049325	0.25798	17.13722	1.51E+01	5.96E+01
7	49.1283416	4.095391455	0.0003511	0.160669	3.251021	0.24994	17.07225	1.51E+01	5.89E+01
8	48.3935956	4.103684151	0.00036	0.155255	3.447958	0.24302	17.09889	1.51E+01	5.83E+01
9	57.274194	4.209180546	0.0003917	0.222892	4.635125	0.33418	19.32603	1.55E+01	7.05E+01
10	56.380646	4.190803635	0.0003769	0.215056	4.415343	0.32014	18.91806	1.54E+01	6.90E+01
11	55.4585094	4.139108186	0.0003668	0.206916	4.16299	0.30697	18.38764	1.52E+01	6.74E+01
12	54.5440939	4.072323353	0.0003577	0.198928	3.910692	0.29528	17.84264	1.50E+01	6.59E+01
13	52.4833201	4.031820273	0.0003491	0.192597	3.735462	0.28812	17.56185	1.48E+01	6.34E+01
14	51.4575763	4.043769882	0.0003442	0.184892	3.422125	0.27685	17.39747	1.49E+01	6.19E+01
15	50.3091313	4.047851588	0.0003496	0.176822	3.27103	0.26406	17.24109	1.49E+01	6.04E+01
16	50.0275239	4.068721848	0.0003586	0.173243	3.634274	0.26265	17.50403	1.50E+01	6.07E+01
17	58.4574878	4.168474304	0.0003858	0.229013	5.073152	0.36634	19.49353	1.53E+01	7.24E+01
18	57.5421332	4.175658845	0.0003797	0.221066	4.816166	0.35053	19.10412	1.54E+01	7.08E+01
19	56.5828524	4.145424671	0.0003664	0.212864	4.520606	0.33165	18.62465	1.53E+01	6.92E+01
20	55.6615506	4.10942809	0.0003481	0.20608	4.28745	0.31691	18.19514	1.51E+01	6.76E+01
21	54.9276393	4.077513214	0.0003597	0.200682	4.137222	0.30779	17.89139	1.50E+01	6.65E+01
22	52.7367564	3.990873931	0.0003644	0.193133	3.788764	0.29431	17.29168	1.47E+01	6.36E+01
23	52.1237725	3.998981935	0.0003727	0.188527	3.627671	0.2889	17.29218	1.47E+01	6.28E+01
24	51.1920369	4.010617567	0.000369	0.18225	3.690732	0.27866	17.27517	1.48E+01	6.19E+01
25	59.6524673	4.072249476	0.0004185	0.246943	5.488723	0.38278	19.59953	1.50E+01	7.45E+01
26	58.6821268	4.118755065	0.0004056	0.234575	5.256139	0.3695	19.11921	1.52E+01	7.26E+01
27	57.7406878	4.119235265	0.0003905	0.220878	4.943693	0.35059	18.54997	1.52E+01	7.08E+01
28	56.8401492	4.127103169	0.0004134	0.211042	4.771365	0.3389	18.22808	1.52E+01	6.93E+01
29	55.9836411	4.091494442	0.0004181	0.201952	4.48962	0.32309	17.71942	1.51E+01	6.77E+01
30	55.2295926	4.057307848	0.0004149	0.194527	4.275919	0.31245	17.40165	1.49E+01	6.65E+01
31	60.5481021	3.952919609	0.0004381	0.269025	6.000707	0.40809	21.18225	1.46E+01	7.78E+01
32	59.5854825	4.013369486	0.0004516	0.259182	5.695145	0.38803	20.12327	1.48E+01	7.53E+01
33	58.8571011	4.052856757	0.0004661	0.248148	5.407754	0.36926	19.2826	1.49E+01	7.33E+01
34	57.9305824	4.080652988	0.0004669	0.235464	5.193599	0.3534	18.76544	1.50E+01	7.15E+01
35	57.1020368	4.083645008	0.0004571	0.2228	4.95317	0.33703	18.18529	1.50E+01	6.98E+01
36	56.3036448	4.07090122	0.0004457	0.210978	4.721158	0.32245	17.74259	1.50E+01	6.84E+01
37	61.23214	3.847146175	0.000474	0.290943	6.564901	0.43347	22.55157	1.42E+01	8.08E+01
38	60.3471477	3.883272041	0.0004955	0.27708	6.224701	0.4254	21.95668	1.43E+01	7.88E+01
39	59.6808472	3.938550527	0.0005026	0.267222	5.863487	0.40487	20.92527	1.45E+01	7.66E+01
40	59.1608281	3.977576066	0.0004943	0.260431	5.546099	0.38319	19.90923	1.46E+01	7.46E+01
41	58.2853306	4.013055508	0.0004725	0.247785	5.336943	0.36444	19.10497	1.48E+01	7.26E+01
42	57.3814531	4.030785995	0.0004539	0.235368	5.120044	0.34664	18.57158	1.48E+01	7.08E+01
43	56.5205628	4.022881153	0.0004383	0.222902	4.846857	0.32872	17.98335	1.48E+01	6.91E+01
44	55.8250478	4.049513821	0.0004368	0.215031	4.831199	0.32307	17.82344	1.49E+01	6.82E+01
45	61.8042236	3.742739467	0.0005442	0.308695	7.095882	0.45865	22.64977	1.38E+01	8.23E+01
46	61.2320357	3.780453689	0.0005428	0.294423	6.689113	0.43879	22.30854	1.39E+01	8.08E+01
47	60.6817587	3.806125956	0.0005128	0.281614	6.289782	0.43723	22.28027	1.40E+01	7.98E+01
48	60.1492191	3.850950842	0.000498	0.271884	5.988839	0.4174	21.57237	1.42E+01	7.81E+01
49	59.5103594	3.909498386	0.0004767	0.268182	5.748818	0.39836	20.84456	1.44E+01	7.63E+01
50	58.7382605	3.947545055	0.0004429	0.258936	5.518883	0.37881	20.04038	1.45E+01	7.43E+01
51	57.769798	3.946677	0.0004091	0.248115	5.135561	0.35507	19.02958	1.45E+01	7.20E+01
52	56.9906041	4.021255858	0.0004047	0.237236	5.282159	0.35171	18.98778	1.48E+01	7.11E+01
53	62.7179088	3.607433692	0.0006261	0.318474	7.521084	0.48512	22.95919	1.33E+01	8.43E+01

54	486023.61	3855286.51	5.97086	1.98353	5.65841	5.74356	15.4	3.273	3.1253	1.98353
55	486073.61	3855286.51	5.9117	2.00852	5.35352	5.53622	14.47	3.139	3.0889	2.00852
56	486123.61	3855286.51	5.88509	2.02558	4.91461	5.33646	13.73	3.149	3.1575	2.02558
57	486173.61	3855286.51	5.84045	2.03721	4.42978	5.17942	13.05	3.023	3.0822	2.03721
58	486223.61	3855286.51	5.77695	2.07331	4.09223	5.1216	12.61	2.903	3.0056	2.07331
59	486123.61	3855336.51	6.01069	1.967	4.88868	5.37485	14.63	3.149	3.0383	1.967
60	486173.61	3855336.51	5.96345	1.99002	4.61726	5.23603	14.1	3.129	3.0982	1.99002
61	486223.61	3855336.51	5.91498	2.00794	4.29517	5.09025	13.51	3.047	3.0519	2.00794
62	486123.61	3855386.51	6.11921	1.89567	5.05682	5.38518	15.89	3.211	2.9457	1.89567
63	486173.61	3855386.51	6.08052	1.92971	4.75716	5.22228	15.06	3.113	2.9334	1.92971
64	486223.61	3855386.51	6.03121	1.95742	4.58908	5.05668	14.57	3.063	2.9395	1.95742
65	486533.18	3855443.15	5.76685	2.05405	4.35204	4.48339	13.27	2.701	2.7316	2.05405
66	486583.18	3855443.15	5.70105	2.06836	4.19891	4.4338	13.32	2.63	2.6994	2.06836
67	486633.18	3855443.15	5.62079	2.07414	4.11494	4.34923	13.5	2.557	2.6551	2.07414
68	486683.18	3855443.15	5.54247	2.07623	4.05081	4.26398	13.72	2.491	2.6065	2.07623
69	486533.18	3855493.15	5.8863	1.99195	4.58093	4.37334	14.3	2.725	2.6446	1.99195
70	486583.18	3855493.15	5.81886	2.02007	4.39798	4.30595	13.86	2.669	2.6264	2.02007
71	486633.18	3855493.15	5.75166	2.03906	4.17336	4.27734	14.19	2.608	2.615	2.03906
72	486683.18	3855493.15	5.67707	2.04971	3.97864	4.22259	14.31	2.552	2.5911	2.04971
73	486533.18	3855543.15	5.9888	1.93329	4.52189	4.38667	15.46	2.715	2.5701	1.93329
74	486583.18	3855543.15	5.93836	1.95078	4.3104	4.26953	14.79	2.65	2.552	1.95078
75	486633.18	3855543.15	5.86757	1.98233	4.28559	4.18757	14.66	2.604	2.5333	1.98233
76	486683.18	3855543.15	5.80644	1.99947	4.16736	4.1171	14.61	2.55	2.505	1.99947
77	486533.18	3855593.15	6.09218	1.87932	4.84799	4.45599	16.52	2.714	2.5409	1.87932
78	486583.18	3855593.15	6.0386	1.90135	4.63869	4.29811	15.92	2.649	2.5084	1.90135
79	486633.18	3855593.15	5.9749	1.91483	4.42404	4.16466	15.39	2.59	2.4808	1.91483
80	486683.18	3855593.15	5.90046	1.94607	4.29983	4.08139	15.57	2.535	2.4682	1.94607
81	486533.18	3855643.15	6.18121	1.81914	5.02382	4.62662	17.75	2.752	2.5796	1.81914
82	486583.18	3855643.15	6.12616	1.84591	4.86676	4.42977	17.12	2.67	2.5097	1.84591
83	486633.18	3855643.15	6.06613	1.87078	4.68764	4.26106	16.58	2.597	2.4661	1.87078
84	486683.18	3855643.15	5.99675	1.8884	4.59784	4.13386	16.11	2.543	2.4289	1.8884
85	486533.18	3855693.15	6.24195	1.75135	5.45425	4.82293	19.16	2.84	2.6096	1.75135
86	486583.18	3855693.15	6.21487	1.78252	5.11634	4.60064	18.33	2.713	2.5513	1.78252
87	486633.18	3855693.15	6.17875	1.80845	4.78838	4.38629	17.28	2.587	2.5043	1.80845
88	486683.18	3855693.15	6.08391	1.83813	4.61353	4.24861	17.19	2.547	2.4454	1.83813
89	486733.18	3855693.15	5.97098	1.86695	4.51905	4.13953	17.76	2.539	2.3837	1.86695
90	486783.18	3855693.15	5.85028	1.88797	4.4614	4.07573	18.89	2.546	2.3452	1.88797
91	486533.18	3855743.15	6.31043	1.67363	5.25129	4.95244	20.38	2.911	2.6481	1.67363
92	486583.18	3855743.15	6.30897	1.70827	4.80268	4.71451	19.39	2.751	2.5643	1.70827
93	486633.18	3855743.15	6.25472	1.74318	4.49293	4.53279	18.64	2.646	2.5037	1.74318
94	486683.18	3855743.15	6.14061	1.78079	4.41382	4.4222	18.57	2.62	2.473	1.78079
95	486733.18	3855743.15	6.04756	1.8101	4.30728	4.29042	18.4	2.568	2.4341	1.8101
96	486783.18	3855743.15	5.90453	1.84449	4.40859	4.21612	19.79	2.586	2.3993	1.84449
97	486533.18	3855793.15	6.36451	1.59242	4.97131	5.05189	21.52	2.982	2.7276	1.59242
98	486583.18	3855793.15	6.40877	1.62752	4.60064	4.75924	20.26	2.789	2.5947	1.62752
99	486633.18	3855793.15	6.29145	1.67382	4.57258	4.66856	20.34	2.739	2.5527	1.67382
100	486683.18	3855793.15	6.17078	1.71747	4.5677	4.57689	20.31	2.707	2.5152	1.71747
101	486733.18	3855793.15	6.06684	1.75509	4.56382	4.46266	20.12	2.664	2.4759	1.75509
102	486783.18	3855793.15	5.9555	1.78802	4.59078	4.35562	20.45	2.631	2.4398	1.78802
103	486533.18	3855843.15	6.45299	1.50971	5.19523	5.29796	22.15	2.998	2.8065	1.50971
104	486583.18	3855843.15	6.45344	1.54987	5.01295	4.85126	21.56	2.848	2.6485	1.54987
105	486633.18	3855843.15	6.32828	1.59766	5.04806	4.75543	21.84	2.81	2.5978	1.59766
106	486683.18	3855843.15	6.20427	1.64353	5.06594	4.67776	21.93	2.77	2.5546	1.64353
107	486733.18	3855843.15	6.08423	1.68708	5.06391	4.59076	21.81	2.74	2.5163	1.68708
108	486783.18	3855843.15	5.9748	1.72594	5.03312	4.48903	21.71	2.701	2.4794	1.72594
109	486533.18	3855893.15	6.59078	1.45128	5.72462	5.8692	22.47	3.141	2.9839	1.45128
110	486583.18	3855893.15	6.46853	1.47399	5.63181	5.39925	22.84	2.949	2.8261	1.47399

62.2985756	3.663432479	0.0005891	0.302537	7.223588	0.4605	22.14395	1.35E+01	8.26E+01
61.6813138	3.709587151	0.0005573	0.291615	6.785097	0.44155	21.88576	1.37E+01	8.11E+01
61.4036712	3.741095703	0.0005116	0.281093	6.436596	0.44295	22.37167	1.38E+01	8.09E+01
60.9379077	3.762575449	0.0004612	0.272821	6.119072	0.42529	21.83871	1.39E+01	7.95E+01
60.2753634	3.829249466	0.000426	0.269776	5.910797	0.40831	21.29541	1.41E+01	7.79E+01
62.7141526	3.632902797	0.0005089	0.283115	6.862623	0.44295	21.52745	1.34E+01	8.21E+01
62.2212613	3.675419026	0.0004807	0.275803	6.610448	0.4402	21.95151	1.35E+01	8.16E+01
61.7155365	3.708515934	0.0004472	0.268124	6.33431	0.42868	21.62381	1.37E+01	8.04E+01
63.8464252	3.501161589	0.0005264	0.283659	7.449996	0.45171	20.87113	1.29E+01	8.35E+01
63.4427427	3.564030939	0.0004952	0.275079	7.06189	0.43792	20.7842	1.31E+01	8.24E+01
62.9282535	3.615209249	0.0004778	0.266356	6.832898	0.43094	20.82742	1.33E+01	8.16E+01
60.1699823	3.793677677	0.0004531	0.236158	6.223753	0.37997	19.35451	1.40E+01	7.62E+01
59.4834403	3.820107183	0.0004371	0.233546	6.247242	0.37001	19.12601	1.41E+01	7.52E+01
58.646026	3.830782414	0.0004284	0.229092	6.332041	0.35973	18.81255	1.41E+01	7.41E+01
57.8288532	3.834642488	0.0004217	0.224601	6.432934	0.35042	18.46806	1.41E+01	7.30E+01
61.416296	3.678983593	0.0004769	0.230362	6.70667	0.38327	18.73787	1.35E+01	7.76E+01
60.7126426	3.730919143	0.0004579	0.226812	6.498179	0.37551	18.6092	1.37E+01	7.64E+01
60.0114933	3.765992261	0.0004345	0.225305	6.655801	0.36687	18.52786	1.39E+01	7.57E+01
59.2332385	3.78566202	0.0004142	0.222421	6.708892	0.359	18.35867	1.39E+01	7.47E+01
62.4857574	3.570642933	0.0004708	0.231064	7.247291	0.38194	18.20973	1.31E+01	7.90E+01
61.9594781	3.602945663	0.0004487	0.224894	6.93713	0.37281	18.08212	1.33E+01	7.79E+01
61.2208715	3.661216168	0.0004462	0.220576	6.872147	0.36638	17.94963	1.35E+01	7.68E+01
60.5830552	3.692872474	0.0004338	0.216864	6.850459	0.35867	17.7489	1.36E+01	7.59E+01
63.5644005	3.470964354	0.0005047	0.234715	7.74677	0.38178	18.00326	1.28E+01	8.06E+01
63.0053591	3.511652127	0.0004829	0.226399	7.462858	0.37267	17.77271	1.29E+01	7.94E+01
62.340728	3.536548685	0.0004606	0.21937	7.216966	0.36432	17.57736	1.30E+01	7.82E+01
61.5640382	3.594246643	0.0004476	0.214983	7.302385	0.35666	17.48816	1.32E+01	7.73E+01
64.4933189	3.359816367	0.000523	0.243703	8.324802	0.38709	18.2774	1.24E+01	8.27E+01
63.9189399	3.409258568	0.0005067	0.233334	8.028018	0.37559	17.78185	1.26E+01	8.12E+01
63.2926008	3.455191609	0.000488	0.224447	7.773156	0.36534	17.47314	1.27E+01	7.99E+01
62.5687059	3.487734439	0.0004787	0.217747	7.552933	0.35768	17.20942	1.28E+01	7.86E+01
65.1270661	3.234613276	0.0005678	0.254043	8.983394	0.39953	18.49024	1.19E+01	8.46E+01
64.8445196	3.292181949	0.0005326	0.242334	8.596911	0.38172	18.07681	1.21E+01	8.33E+01
64.4676519	3.340072732	0.0004985	0.231044	8.103285	0.36388	17.74387	1.23E+01	8.20E+01
63.4781132	3.394889486	0.0004803	0.223792	8.06255	0.35831	17.32654	1.25E+01	8.03E+01
62.2998276	3.448117884	0.0004705	0.218046	8.329107	0.35713	16.88923	1.27E+01	7.88E+01
61.0404717	3.486940261	0.0004645	0.214685	8.857222	0.35816	16.6163	1.28E+01	7.77E+01
65.8415706	3.091070213	0.0005467	0.260865	9.556151	0.40947	18.76239	1.14E+01	8.65E+01
65.8263373	3.155047718	0.0005	0.248332	9.090205	0.387	18.16892	1.16E+01	8.53E+01
65.2603053	3.219523893	0.0004677	0.238761	8.742159	0.3723	17.73933	1.19E+01	8.37E+01
64.0697079	3.288986768	0.0004595	0.232935	8.70556	0.36852	17.52224	1.21E+01	8.21E+01
63.0988457	3.343120159	0.0004484	0.225994	8.62627	0.36128	17.24669	1.23E+01	8.06E+01
61.6065037	3.406635933	0.000459	0.22208	9.280947	0.36372	17.00019	1.25E+01	7.93E+01
66.4058288	2.941081379	0.0005175	0.266104	10.09194	0.41945	19.3261	1.08E+01	8.86E+01
66.8676275	3.00590847	0.000479	0.250689	9.498722	0.39237	18.3846	1.11E+01	8.73E+01
65.6435377	3.091421129	0.000476	0.245912	9.53753	0.38534	18.08666	1.14E+01	8.56E+01
64.3844947	3.172039434	0.0004755	0.241083	9.521976	0.38081	17.82103	1.17E+01	8.38E+01
63.3000087	3.241520778	0.0004751	0.235066	9.433829	0.37474	17.54293	1.19E+01	8.22E+01
62.1383129	3.30234004	0.0004779	0.229428	9.588619	0.37017	17.28672	1.22E+01	8.08E+01
67.3290087	2.788322157	0.0005409	0.279065	10.38713	0.42179	19.88471	1.03E+01	9.08E+01
67.3337039	2.862494692	0.0005219	0.255536	10.10886	0.40066	18.76586	1.05E+01	8.92E+01
66.0278134	2.95075927	0.0005255	0.250488	10.23966	0.39524	18.40649	1.09E+01	8.74E+01
64.7339217	3.03547775	0.0005274	0.246397	10.28304	0.38966	18.10019	1.12E+01	8.56E+01
63.481452	3.115911363	0.0005272	0.241814	10.22577	0.38546	17.82854	1.15E+01	8.38E+01
62.3396846	3.187682895	0.000524	0.236456	10.18223	0.37999	17.56716	1.17E+01	8.22E+01
68.7666778	2.68040629	0.000596	0.309155	10.53674	0.44182	21.14201	9.87E+00	9.40E+01
67.4911495	2.722349972	0.0005863	0.2844	10.70921	0.41487	20.02401	1.00E+01	9.16E+01

111	486633.18	3855893.15	6.35419	1.51949	5.514	4.97254	23.21	2.862	2.679	1.51949
112	486683.18	3855893.15	6.2272	1.56589	5.41915	4.76062	23.52	2.828	2.6004	1.56589
113	486733.18	3855893.15	6.1157	1.61124	5.31895	4.67949	23.52	2.795	2.5543	1.61124
114	486783.18	3855893.15	5.99918	1.65369	5.24478	4.60396	23.45	2.776	2.5166	1.65369
115	486533.18	3855943.15	6.66282	1.40265	5.86224	6.55794	24.07	3.438	3.2333	1.40265
116	486583.18	3855943.15	6.49057	1.4236	5.89428	6.13179	23.86	3.266	3.0799	1.4236
117	486633.18	3855943.15	6.38829	1.44567	5.80273	5.63397	24.45	3.065	2.9107	1.44567
118	486683.18	3855943.15	6.25865	1.48719	5.79064	5.24225	25.19	2.901	2.7818	1.48719
119	486733.18	3855943.15	6.15944	1.53147	5.7378	4.86518	25.28	2.842	2.646	1.53147
120	486783.18	3855943.15	6.0377	1.57586	5.72662	4.70559	25.39	2.832	2.5649	1.57586
121	486533.18	3855993.15	6.74125	1.35396	6.2906	7.28995	25.62	3.793	3.5657	1.35396
122	486583.18	3855993.15	6.60113	1.37581	6.18962	6.8027	25.48	3.558	3.3224	1.37581
123	486633.18	3855993.15	6.47805	1.39726	6.07394	6.3253	25.46	3.364	3.1444	1.39726
124	486683.18	3855993.15	6.34893	1.41737	5.98805	5.88974	26.53	3.195	3.007	1.41737
125	486733.18	3855993.15	6.24265	1.45473	5.90776	5.49491	27.04	3.017	2.8631	1.45473
126	486783.18	3855993.15	6.13027	1.49793	5.83957	5.13393	27.23	2.872	2.7364	1.49793
127	486533.18	3856043.15	6.85696	1.31659	5.96961	7.97279	26.51	4.121	3.894	1.31659
128	486583.18	3856043.15	6.70837	1.32928	5.89213	7.47732	27.2	3.899	3.6515	1.32928
129	486633.18	3856043.15	6.59687	1.35119	5.78588	6.97426	26.81	3.65	3.4135	1.35119
130	486683.18	3856043.15	6.45793	1.37131	5.73377	6.54087	27.62	3.489	3.2435	1.37131
131	486733.18	3856043.15	6.35517	1.39066	5.63328	6.08519	28.53	3.303	3.0888	1.39066
132	486783.18	3856043.15	6.22352	1.42368	5.58819	5.72992	29.29	3.148	2.9558	1.42368
133	486533.18	3856093.15	6.97542	1.30687	6.44855	8.69206	26.8	4.486	4.1619	1.30687
134	486583.18	3856093.15	6.83869	1.30169	6.37752	8.11982	28.27	4.231	3.9313	1.30169
135	486633.18	3856093.15	6.71308	1.305	6.29419	7.59469	28.68	3.985	3.7033	1.305
136	486683.18	3856093.15	6.57676	1.32527	6.27124	7.11496	28.38	3.781	3.4849	1.32527
137	486733.18	3856093.15	6.46116	1.34508	6.19683	6.65974	29.8	3.6	3.3057	1.34508
138	486783.18	3856093.15	6.33481	1.36433	6.17852	6.27189	30.96	3.438	3.1705	1.36433
139	486533.18	3856143.15	7.12469	1.29613	6.14967	9.63481	26.06	4.814	4.3946	1.29613
140	486583.18	3856143.15	6.99149	1.2929	6.04086	8.79401	28.47	4.531	4.1754	1.2929
141	486633.18	3856143.15	6.84039	1.2888	6.02299	8.25015	29.98	4.286	3.9602	1.2888
142	486683.18	3856143.15	6.70525	1.28443	5.97766	7.7434	30.37	4.053	3.7479	1.28443
143	486733.18	3856143.15	6.57672	1.30446	5.93282	7.27076	30.6	3.868	3.5396	1.30446
144	486783.18	3856143.15	6.42743	1.32346	5.97573	6.87535	32.6	3.74	3.3796	1.32346
145	486533.18	3856193.15	7.2776	1.28253	6.40451	11.00811	24.68	5.286	4.6098	1.28253
146	486583.18	3856193.15	7.14236	1.28211	6.24467	9.77415	27.88	4.886	4.3817	1.28211
147	486633.18	3856193.15	6.98257	1.28047	6.26758	9.02926	30.46	4.622	4.1595	1.28047
148	486683.18	3856193.15	6.81687	1.2774	6.32914	8.47616	32.04	4.383	3.9504	1.2774
149	486733.18	3856193.15	6.69016	1.27168	6.2749	7.93294	32.22	4.17	3.7599	1.27168
150	486783.18	3856193.15	6.53562	1.28612	6.32282	7.50465	33.66	4.043	3.5739	1.28612
151	486533.18	3856243.15	7.46448	1.26942	6.62349	12.82086	24.39	5.831	4.8955	1.26942
152	486583.18	3856243.15	7.29196	1.26959	6.51732	11.23066	26.55	5.388	4.5947	1.26959
153	486633.18	3856243.15	7.1292	1.2701	6.41549	10.00199	30.1	5.054	4.3437	1.2701
154	486683.18	3856243.15	6.96625	1.26915	6.35774	9.24279	32.68	4.763	4.1221	1.26915
155	486733.18	3856243.15	6.8045	1.26657	6.42222	8.61817	34.15	4.509	3.9458	1.26657
156	486783.18	3856243.15	6.66458	1.26195	6.44177	8.07314	34.3	4.32	3.7724	1.26195
157	486533.18	3856293.15	7.66844	1.27996	6.27693	15.2616	25.64	6.449	5.2248	1.27996
158	486583.18	3856293.15	7.47832	1.26829	6.18343	13.10886	26.51	5.898	4.8718	1.26829
159	486633.18	3856293.15	7.29447	1.26521	6.13864	11.47572	28.71	5.478	4.5838	1.26521
160	486683.18	3856293.15	7.12049	1.26639	6.10174	10.23885	32.48	5.13	4.3689	1.26639
161	486733.18	3856293.15	6.94085	1.26609	6.13802	9.42093	35.17	4.834	4.1662	1.26609
162	486783.18	3856293.15	6.79229	1.2599	6.1287	8.73944	36.39	4.556	3.9934	1.2599
163	486783.18	3856343.15	6.91843	1.26402	5.87129	9.54492	37.86	4.919	4.1771	1.26402
164	486833.18	3856343.15	6.76036	1.25896	5.61829	8.83202	39	4.639	3.9977	1.25896
165	486883.18	3856343.15	6.61036	1.25342	5.63089	8.27699	41.18	4.425	3.8366	1.25342
166	486783.18	3856393.15	7.08633	1.2627	6.43071	10.49227	38.08	5.338	4.3411	1.2627
167	486833.18	3856393.15	6.91065	1.2611	6.04277	9.61098	40.57	4.995	4.1496	1.2611

66.2981523	2.80638509	0.000574	0.261924	10.88556	0.40264	18.98147	1.03E+01	8.93E+01
64.973168	2.892082441	0.0005642	0.250761	11.02859	0.39779	18.42506	1.06E+01	8.73E+01
63.8098027	2.97584052	0.0005537	0.246488	11.03054	0.39317	18.09792	1.10E+01	8.56E+01
62.5940599	3.054242515	0.000546	0.242509	10.99391	0.3905	17.83066	1.12E+01	8.39E+01
69.5183266	2.590590294	0.0006103	0.345433	11.28919	0.48369	22.90881	9.54E+00	9.76E+01
67.7211098	2.629283387	0.0006136	0.322986	11.18904	0.45948	21.82242	9.68E+00	9.45E+01
66.6539439	2.670045037	0.0006041	0.296764	11.46381	0.43116	20.62308	9.83E+00	9.23E+01
65.30131	2.746729391	0.0006028	0.276131	11.81367	0.40803	19.7097	1.01E+01	9.01E+01
64.2661758	2.828511259	0.0005973	0.256269	11.85202	0.39977	18.74801	1.04E+01	8.79E+01
62.9959687	2.91049629	0.0005962	0.247863	11.90655	0.39833	18.17353	1.07E+01	8.59E+01
70.3366471	2.500663483	0.0006549	0.383991	12.01178	0.53353	25.26434	9.21E+00	1.02E+02
68.8746673	2.541018809	0.0006444	0.358326	11.94966	0.5005	23.54019	9.36E+00	9.84E+01
67.590479	2.580635365	0.0006323	0.333179	11.93947	0.47328	22.27949	9.50E+00	9.57E+01
66.2432707	2.61777704	0.0006234	0.310237	12.43988	0.44947	21.30554	9.64E+00	9.37E+01
65.1343697	2.686778183	0.000615	0.289439	12.68135	0.4244	20.2861	9.89E+00	9.16E+01
63.9618227	2.766565372	0.0006079	0.270425	12.76955	0.40399	19.38838	1.02E+01	8.94E+01
71.5439385	2.431643871	0.0006215	0.419959	12.43153	0.57974	27.59032	8.95E+00	1.06E+02
69.9935847	2.455081358	0.0006134	0.393861	12.75402	0.54851	25.87198	9.04E+00	1.03E+02
68.8302195	2.495547499	0.0006023	0.367363	12.57104	0.51349	24.1856	9.19E+00	9.98E+01
67.3805516	2.532707644	0.0005969	0.344534	12.95099	0.49077	22.98123	9.32E+00	9.74E+01
66.3083774	2.568445655	0.0005865	0.320532	13.378	0.46463	21.88498	9.46E+00	9.55E+01
64.9347717	2.629431141	0.0005818	0.301818	13.73653	0.44291	20.94277	9.68E+00	9.33E+01
72.7799228	2.413691753	0.0006713	0.457846	12.56614	0.63112	29.48842	8.89E+00	1.09E+02
71.3533136	2.404124678	0.0006639	0.427704	13.2576	0.59526	27.85447	8.85E+00	1.07E+02
70.0427278	2.410238002	0.0006553	0.400043	13.44944	0.56053	26.23936	8.87E+00	1.04E+02
68.6203964	2.447675186	0.0006529	0.374774	13.31023	0.53187	24.69184	9.01E+00	1.01E+02
67.4142526	2.484262783	0.0006451	0.350796	13.9747	0.50639	23.42201	9.15E+00	9.90E+01
66.0959459	2.519816102	0.0006432	0.330366	14.51997	0.48362	22.46435	9.28E+00	9.71E+01
74.3373716	2.393855772	0.0006402	0.507505	12.22076	0.67715	31.13711	8.81E+00	1.12E+02
72.9475935	2.387890202	0.0006289	0.463216	13.3504	0.63735	29.58422	8.79E+00	1.11E+02
71.371051	2.380317806	0.000627	0.434569	14.05811	0.60289	28.05966	8.76E+00	1.08E+02
69.9610314	2.372246741	0.0006223	0.407876	14.24031	0.57018	26.55515	8.73E+00	1.05E+02
68.619979	2.409240662	0.0006176	0.382981	14.34744	0.54419	25.07934	8.87E+00	1.03E+02
67.0623216	2.44433225	0.0006221	0.362153	15.28545	0.52617	23.94561	9.00E+00	1.01E+02
75.9327992	2.368737582	0.0006667	0.579842	11.57437	0.74362	32.66217	8.72E+00	1.15E+02
74.5217363	2.367961874	0.0006501	0.514844	13.07119	0.68736	31.04607	8.72E+00	1.13E+02
72.8545243	2.364932916	0.0006525	0.475608	14.28225	0.65025	29.47184	8.71E+00	1.11E+02
71.1256487	2.359262854	0.0006589	0.446474	15.02643	0.61661	27.99008	8.69E+00	1.09E+02
69.8035858	2.348698439	0.0006533	0.41786	15.10933	0.58656	26.63996	8.65E+00	1.06E+02
68.1911511	2.375368046	0.0006582	0.3953	15.78413	0.56874	25.32223	8.75E+00	1.04E+02
77.882662	2.344524387	0.0006895	0.675327	11.43599	0.82029	34.68645	8.63E+00	1.19E+02
76.0826281	2.344838364	0.0006785	0.591565	12.45211	0.75789	32.55497	8.63E+00	1.16E+02
74.3844279	2.345780296	0.0006679	0.526846	14.1144	0.71098	30.77689	8.64E+00	1.14E+02
72.6842452	2.344025717	0.0006619	0.486855	15.32412	0.67	29.20628	8.63E+00	1.12E+02
70.996583	2.339260649	0.0006686	0.453954	16.01278	0.63432	27.95756	8.61E+00	1.10E+02
69.53669	2.330727852	0.0006706	0.425245	16.08206	0.60776	26.72896	8.58E+00	1.07E+02
80.0107336	2.363990983	0.0006535	0.803891	12.02125	0.9072	37.01938	8.70E+00	1.24E+02
78.0270654	2.342437361	0.0006437	0.690497	12.42973	0.82967	34.51853	8.62E+00	1.20E+02
76.1088169	2.33674883	0.0006391	0.604473	13.46204	0.7706	32.47795	8.60E+00	1.17E+02
74.2935497	2.338928202	0.0006352	0.539322	15.23171	0.7216	30.95502	8.61E+00	1.15E+02
72.4192274	2.338374124	0.000639	0.496239	16.49344	0.68004	29.51889	8.61E+00	1.13E+02
70.8691867	2.326941654	0.000638	0.460342	17.06331	0.64085	28.29454	8.57E+00	1.11E+02
72.1853023	2.334550988	0.0006112	0.50277	17.75108	0.69197	29.59591	8.60E+00	1.14E+02
70.5360364	2.325205544	0.0005849	0.465218	18.28828	0.65261	28.32529	8.56E+00	1.12E+02
68.970971	2.314973576	0.0005862	0.435983	19.30801	0.62255	27.18341	8.52E+00	1.10E+02
73.9371322	2.332113046	0.0006695	0.552671	17.85528	0.75087	30.75854	8.59E+00	1.18E+02
72.1041276	2.329157965	0.0006291	0.506249	19.02538	0.70272	29.40113	8.58E+00	1.15E+02

168	486883.18	3856393.15	6.75951	1.25515	5.76787	8.91535	41.51	4.699	3.9702	1.25515	70.5271677	2.318168758	0.0006005	0.469608	19.46687	0.66101	28.13023	8.53E+00	1.13E+02
169	487208.74	3856886.11	7.62692	1.48716	6.41441	13.28676	98.26	6.264	4.4995	1.48716	79.5775235	2.746673983	0.0006678	0.699868	46.07492	0.88115	31.8803	1.01E+01	1.52E+02
170	487258.74	3856886.11	7.35528	1.47846	6.57794	11.59513	93.24	5.782	4.2971	1.47846	76.7432944	2.730605729	0.0006848	0.610763	43.72011	0.81334	30.44629	1.01E+01	1.45E+02
171	487308.74	3856886.11	7.10579	1.47165	5.92154	10.27043	91.86	5.391	4.1031	1.47165	74.1401733	2.718028166	0.0006165	0.540985	43.07368	0.75835	29.07223	1.00E+01	1.40E+02
172	487358.74	3856886.11	6.88088	1.45817	5.82268	9.25373	90.08	5.092	3.9369	1.45817	71.7935143	2.693131608	0.0006062	0.487432	42.23943	0.7163	27.89407	9.92E+00	1.36E+02
173	487208.74	3856936.11	7.99697	1.53895	6.97272	15.75744	101	7.044	4.6961	1.53895	83.4385398	2.842326263	0.0007259	0.830009	47.35131	0.99085	33.27356	1.05E+01	1.58E+02
174	487258.74	3856936.11	7.6898	1.53123	6.8715	13.4217	96.54	6.343	4.4607	1.53123	80.2335989	2.828067997	0.0007154	0.706976	45.27001	0.89228	31.60595	1.04E+01	1.51E+02
175	487308.74	3856936.11	7.41099	1.52648	6.12019	11.7744	91.79	5.817	4.2602	1.52648	77.3245597	2.8192951	0.0006371	0.620206	43.03986	0.81824	30.18505	1.04E+01	1.44E+02
176	487358.74	3856936.11	7.15977	1.51633	5.78528	10.41037	89.1	5.42	4.0766	1.51633	74.7033882	2.800548805	0.0006023	0.548357	41.78211	0.7624	28.88383	1.03E+01	1.39E+02
177	487208.74	3856986.11	8.41614	1.59068	7.334	20.06551	102.7	8.179	4.9657	1.59068	87.8120629	2.937867728	0.0007635	1.056932	48.16135	1.15057	35.18363	1.08E+01	1.65E+02
178	487258.74	3856986.11	8.05912	1.59356	7.12063	15.96681	98.68	7.184	4.6475	1.59356	84.0869986	2.943186874	0.0007413	0.841037	46.27233	1.01062	32.92929	1.08E+01	1.57E+02
179	487308.74	3856986.11	7.74856	1.57849	6.32181	13.57053	94.62	6.458	4.4292	1.57849	80.8466872	2.915353704	0.0006581	0.714815	44.36919	0.90846	31.3822	1.07E+01	1.50E+02
180	487358.74	3856986.11	7.46329	1.57619	5.80305	11.93838	89.89	5.911	4.2314	1.57619	77.8702458	2.911105775	0.0006041	0.628843	42.14881	0.83147	29.98071	1.07E+01	1.44E+02
181	487208.74	3857036.11	8.88735	1.63994	7.57333	29.09275	104.8	9.764	5.2967	1.63994	92.7285593	3.028847287	0.0007884	1.532434	49.14595	1.37359	37.52931	1.12E+01	1.74E+02
182	487258.74	3857036.11	8.48383	1.63822	7.31138	20.43658	101.4	8.339	4.9113	1.63822	88.5183247	3.025670575	0.0007612	1.076478	47.54885	1.17309	34.79847	1.11E+01	1.65E+02
183	487308.74	3857036.11	8.1205	1.6403	6.3554	16.18652	97.35	7.332	4.6025	1.6403	84.7274233	3.02951218	0.0006616	0.85261	45.6491	1.03148	32.61066	1.12E+01	1.57E+02
184	487358.74	3857036.11	7.79872	1.63364	5.51064	13.70369	93.1	6.589	4.3889	1.63364	81.3700451	3.017211655	0.0005737	0.721829	43.6576	0.92689	31.0968	1.11E+01	1.50E+02
185	487427.14	3856878.23	6.54845	1.44688	5.7865	8.22067	86.97	4.727	3.6885	1.44688	68.3250164	2.672279817	0.0006024	0.433016	40.78072	0.665	26.13407	9.84E+00	1.29E+02
186	487477.14	3856878.23	6.3559	1.4392	5.72729	7.67671	89.79	4.555	3.5352	1.4392	66.3159941	2.658095427	0.0005962	0.404364	42.10411	0.64075	25.04845	9.79E+00	1.27E+02
187	487527.14	3856878.23	6.21187	1.42762	5.68315	7.21653	91.88	4.417	3.3894	1.42762	64.8132183	2.636708028	0.0005917	0.380124	43.08543	0.6214	24.01541	9.71E+00	1.26E+02
188	487427.14	3856928.23	6.80157	1.50148	5.66255	8.91365	87.29	4.995	3.828	1.50148	70.966012	2.773121958	0.0005895	0.469518	40.93066	0.70272	27.12276	1.02E+01	1.33E+02
189	487477.14	3856928.23	6.59935	1.48642	5.62032	8.27334	87.24	4.783	3.6776	1.48642	68.8560952	2.745307258	0.0005851	0.435791	40.90727	0.67284	26.05741	1.01E+01	1.30E+02
190	487527.14	3856928.23	6.40545	1.47762	5.59788	7.73864	89.38	4.646	3.5299	1.47762	66.8329874	2.729054312	0.0005828	0.407626	41.91118	0.65353	25.0104	1.00E+01	1.27E+02
191	487577.14	3856928.23	6.24275	1.46702	5.56427	7.27652	91.99	4.521	3.3875	1.46702	65.1354131	2.7094769	0.0005793	0.383284	43.13748	0.63598	24.00194	9.98E+00	1.26E+02
192	487627.14	3856928.23	6.11208	1.44922	5.51135	6.88571	92.55	4.345	3.263	1.44922	63.7720325	2.676601623	0.0005738	0.362698	43.39862	0.61122	23.11953	9.85E+00	1.24E+02
193	487677.14	3856928.23	5.97988	1.44146	5.47759	6.59075	91.62	4.226	3.1518	1.44146	62.3926882	2.66226948	0.0005703	0.347162	42.96102	0.59443	22.3315	9.80E+00	1.21E+02
194	487727.14	3856928.23	5.85327	1.43551	5.50045	6.35152	90.74	4.087	3.0443	1.43551	61.0716686	2.651280272	0.0005726	0.33456	42.54851	0.57492	21.56996	9.76E+00	1.19E+02
195	487777.14	3856928.23	5.73938	1.42656	5.49874	6.14545	91.42	3.979	2.9481	1.42656	59.8833667	2.634750287	0.0005725	0.323706	42.86702	0.55969	20.88842	9.70E+00	1.17E+02
196	487427.14	3856978.23	7.07693	1.55047	5.72273	9.93963	86.38	5.297	3.9668	1.55047	73.8390547	2.863602847	0.0005958	0.523561	40.505	0.74517	28.10649	1.05E+01	1.36E+02
197	487477.14	3856978.23	6.85148	1.54242	5.62839	9.00502	86.68	5.069	3.8083	1.54242	71.4867615	2.848735095	0.0005859	0.474331	40.64625	0.71308	26.98346	1.05E+01	1.33E+02
198	487527.14	3856978.23	6.64237	1.53262	5.51562	8.31431	87.57	4.881	3.6587	1.53262	69.304956	2.830635224	0.0005742	0.437949	41.06356	0.6866	25.92342	1.04E+01	1.30E+02
199	487577.14	3856978.23	6.44924	1.51947	5.43125	7.78561	89.55	4.752	3.5165	1.51947	67.2898821	2.806348151	0.0005654	0.4101	41.99011	0.66848	24.91574	1.03E+01	1.28E+02
200	487627.14	3856978.23	6.26618	1.50003	5.38123	7.33037	92.52	4.566	3.3823	1.50003	65.3798763	2.770443916	0.0005602	0.38612	43.3846	0.64229	23.96446	1.02E+01	1.26E+02
201	487677.14	3856978.23	6.07713	1.49094	5.37699	6.95036	93.29	4.413	3.2473	1.49094	63.4073722	2.753655362	0.0005598	0.366104	43.74315	0.62083	23.00808	1.01E+01	1.24E+02
202	487727.14	3856978.23	5.90621	1.46279	5.33121	6.59388	93.97	4.227	3.1438	1.46279	61.6240324	2.701664404	0.000555	0.347327	44.06359	0.59464	22.27517	9.95E+00	1.22E+02
203	487777.14	3856978.23	5.7636	1.4754	5.34732	6.39243	92.01	4.14	3.0358	1.4754	60.1360726	2.724954137	0.0005567	0.336715	43.14325	0.58238	21.50974	1.00E+01	1.18E+02
204	487427.14	3857028.23	7.36681	1.61065	5.60404	11.2946	88.84	5.73	4.1093	1.61065	76.8635958	2.974750834	0.0005834	0.594933	41.65807	0.80612	29.11601	1.10E+01	1.41E+02
205	487477.14	3857028.23	7.12045	1.59917	5.59388	10.07739	85.69	5.369	3.9397	1.59917	74.2931324	2.953548127	0.0005824	0.530817	40.18187	0.75527	27.91434	1.09E+01	1.36E+02
206	487527.14	3857028.23	6.89639	1.58419	5.55757	9.13476	86.39	5.151	3.7842	1.58419	71.955342	2.925881181	0.0005786	0.481165	40.51033	0.72468	26.81242	1.08E+01	1.33E+02
207	487577.14	3857028.23	6.68615	1.57224	5.5487	8.39059	86.87	4.986	3.6404	1.57224	69.7617464	2.903810419	0.0005777	0.441967	40.73413	0.70141	25.79376	1.07E+01	1.30E+02
208	487627.14	3857028.23	6.48855	1.54969	5.48752	7.8261	88.69	4.789	3.5072	1.54969	67.7000336	2.862162245	0.0005713	0.412233	41.58775	0.67364	24.84971	1.05E+01	1.28E+02
209	487677.14	3857028.23	6.24947	1.538	5.3324	7.39835	89.64	4.634	3.3733	1.538	65.205528	2.840571684	0.0005551	0.389701	42.0335	0.65183	23.90133	1.05E+01	1.25E+02
210	487727.14	3857028.23	6.03482	1.53285	5.23716	7.04316	89.3	4.503	3.2405	1.53285	62.9659195	2.831060017	0.0005452	0.370992	41.87235	0.63343	22.95983	1.04E+01	1.21E+02
211	487777.14	3857028.23	5.84832	1.52212	5.18826	6.73653	88.43	4.383	3.1181	1.52212	61.0200215	2.811242504	0.0005401	0.35484	41.46524	0.61651	22.09293	1.04E+01	1.18E+02
212	487427.14	3857078.23	7.68581	1.66612	5.23231	12.88223	93.58	6.36	4.2569	1.66612	80.1919682	3.077199801	0.0005447	0.67856	43.88106	0.89466	30.16174	1.13E+01	1.48E+02
213	487477.14	3857078.23	7.41422	1.65046	5.28815	11.42664	88.4	5.829	4.0809	1.65046	77.3582608	3.048276945	0.0005505	0.601888	41.45308	0.81998	28.91493	1.12E+01	1.41E+02
214	487527.14	3857078.23	7.16449	1.63867	5.63132	10.2078	82.5	5.44	3.9152	1.63867	74.7526356	3.026501691	0.0005863	0.537686	38.68349	0.76524	27.74025	1.11E+01	1.34E+02
215	487577.14	3857078.23	6.93226	1.6238	5.64047	9.2493	83.08	5.235	3.7611	1.6238	72.3296013	2.999037907	0.0005872	0.487198	38.95556	0.73646	26.64868	1.10E+01	1.31E+02
216	487627.14	3857078.23	6.72141	1.60475	5.53642	8.47642	86.63	5.055	3.6238	1.60475	70.1296411	2.963853973	0.0005764	0.446488	40.62167	0.71109	25.67558	1.09E+01	1.30E+02
217	487677.14	3857078.23	6.51047	1.59134	5.37374	7.89498	88.13	4.912	3.4906	1.59134	67.9287418	2.939086699	0.0005594	0.415861	41.3239	0.69099	24.7323	1.08E+01	1.27E+02
218	487727.14	3857078.23	6.26682	1.58041	5.29814	7.48102	87.63	4.789	3.362	1.58041	65.3865539	2.918899802	0.0005516	0.394056	41.09167	0.67365	23.82063	1.07E+01	1.24E+02
219	487777.14	3857078.23	6.0116	1.56385	5.49086	7.1302	88.08	4.621	3.239	1.56385	62.7236473	2.888314713	0.0005716	0.375577	41.3032	0.65004	22.94927	1.06E+01	1.20E+02
220	487427.14	3857128.23	8.03916	1.72189	5.14698	15.0723	97.35	7.157	4.4161	1.72189	83.8787405	3.180202846	0.0005358	0.793919	45.64772	1.00687	31.28938	1.17E+01	1.54E+02
221	487477.14	3857128.23	7.72347	1.7024	5.24935	12.99109	94.21	6.463	4.2276	1.7024	80.5849039	3.144206264	0.0005465	0.684294	44.1746	0.90925	29.95372	1.16E+01	1.48E+02
222	487527.14	3857128.23	7.4226	1.68377	5.75901	11.46998	91.1	5.872	4.0563	1.68377	77.4456958	3.109798039	0.0005995	0.604171	42.71889	0.82603	28.74014	1.14E+01	1.42E+02
223	487577.14	3857128.23	7.15476	1.67107	5.65195	10.23769	87.32	5.5	3.8959	1.67107	74.651115	3.086342083	0.0005884	0.539261	40.94466	0.77368	27.60364	1.14E+01	1.36E+02
224	487627.14	3857128.23	6.91522	1.65831	5.35726	9.26491	85.44	5.283	3.7442	1.65831	72.1518099	3.062775312	0.0005577	0.488021	40.06467	0.74312	26.52915	1.13E+01	1.32E+02

225	487677.14	3857128.23	6.70282	1.63807	5.21231	8.47052	84.89	5.154	3.6069	1.63807
226	487727.14	3857128.23	6.48538	1.63214	5.13793	7.88097	86.67	5.032	3.4753	1.63214
227	487777.14	3857128.23	6.22995	1.61366	5.70074	7.47071	89.07	4.866	3.3537	1.61366
228	488049.44	3856539.39	4.61015	1.58804	4.70644	3.48401	64.14	2.488	2.089	1.58804
229	488099.44	3856539.39	4.55444	1.58884	4.67384	3.43506	62.46	2.466	2.056	1.58884
230	488149.44	3856539.39	4.49231	1.58624	4.78946	3.42297	60.27	2.438	2.0253	1.58624
231	488049.44	3856589.39	4.63455	1.56568	5.03289	3.55192	69.47	2.53	2.1222	1.56568
232	488099.44	3856589.39	4.57371	1.57047	5.14919	3.46747	67.07	2.517	2.0851	1.57047
233	488149.44	3856589.39	4.51226	1.57195	5.30405	3.45026	65.79	2.482	2.051	1.57195
234	488199.44	3856589.39	4.45766	1.57006	5.18659	3.43128	65.77	2.445	2.0202	1.57006
235	488249.44	3856589.39	4.3814	1.564	4.8584	3.42805	66.37	2.472	1.9893	1.564
236	488049.44	3856639.39	4.69635	1.54006	5.22457	3.63405	74.13	2.582	2.1586	1.54006
237	488099.44	3856639.39	4.63279	1.54839	5.56208	3.5424	73.42	2.564	2.1175	1.54839
238	488149.44	3856639.39	4.57049	1.55371	5.66436	3.4943	74.24	2.527	2.0798	1.55371
239	488199.44	3856639.39	4.50254	1.55626	5.52487	3.47322	73.92	2.501	2.0437	1.55626
240	488249.44	3856639.39	4.4395	1.55476	5.1213	3.45469	73.16	2.529	2.0117	1.55476
241	488299.44	3856639.39	4.37729	1.55382	4.66134	3.44699	71.92	2.524	1.9815	1.55382
242	488349.44	3856639.39	4.32209	1.54564	4.40453	3.44116	70.42	2.556	1.9544	1.54564
243	488399.44	3856639.39	4.25445	1.53134	4.34611	3.45427	67.91	2.726	1.9257	1.53134
244	488099.44	3856689.39	4.69002	1.52335	5.81566	3.62812	82.8	2.621	2.1544	1.52335
245	488149.44	3856689.39	4.62711	1.53154	5.8955	3.55044	81.29	2.581	2.1125	1.53154
246	488199.44	3856689.39	4.55845	1.5368	5.67576	3.52739	79.14	2.564	2.0729	1.5368
247	488249.44	3856689.39	4.49996	1.54137	5.24968	3.49843	77.31	2.616	2.0379	1.54137
248	488299.44	3856689.39	4.42921	1.54839	4.95765	3.48619	74.55	2.663	2.0032	1.54839
249	488349.44	3856689.39	4.37203	1.54668	4.63773	3.47445	72.14	2.74	1.9732	1.54668
250	488399.44	3856689.39	4.32609	1.53732	4.60323	3.46531	69.67	2.914	1.9473	1.53732
251	488099.44	3856739.39	4.74864	1.49611	5.80548	3.82555	86.75	2.689	2.1961	1.49611
252	488149.44	3856739.39	4.6883	1.50603	5.81552	3.62672	84.68	2.659	2.1519	1.50603
253	488199.44	3856739.39	4.61291	1.51432	5.68456	3.59188	81.33	2.685	2.1047	1.51432
254	488249.44	3856739.39	4.55292	1.52536	5.55101	3.57389	78.78	2.747	2.0661	1.52536
255	488299.44	3856739.39	4.50387	1.53394	5.30633	3.53027	76.55	2.767	2.0339	1.53394
256	488349.44	3856739.39	4.42694	1.5418	5.01558	3.53125	72.48	2.985	1.9943	1.5418
257	488399.44	3856739.39	4.35409	1.54353	5.61624	3.55478	68.26	3.315	1.9572	1.54353
258	487999.44	3856789.39	4.98404	1.44562	5.55545	4.54508	95.43	2.914	2.3706	1.44562
259	488049.44	3856789.39	4.90511	1.45721	5.61184	4.31562	93.07	2.787	2.308	1.45721
260	488099.44	3856789.39	4.82087	1.46971	5.53969	4.10176	89.1	2.799	2.246	1.46971
261	488149.44	3856789.39	4.75253	1.47824	5.5496	3.8938	86.02	2.805	2.1942	1.47824
262	488199.44	3856789.39	4.67973	1.48917	5.65951	3.73287	82.11	2.834	2.1437	1.48917
263	488249.44	3856789.39	4.61514	1.50466	5.64589	3.6495	78.8	2.887	2.0997	1.50466
264	488299.44	3856789.39	4.55945	1.518	5.5021	3.61527	75.97	2.971	2.0619	1.518
265	488349.44	3856789.39	4.48108	1.53346	5.92417	3.63208	71.48	3.286	2.017	1.53346
266	488399.44	3856789.39	4.41238	1.54133	6.8408	3.64707	67.24	3.561	1.9785	1.54133
267	487949.44	3856839.39	5.16489	1.41975	5.43701	5.06527	99.32	3.269	2.5096	1.41975
268	487999.44	3856839.39	5.07794	1.42994	5.43953	4.83632	97.68	3.069	2.4363	1.42994
269	488049.44	3856839.39	4.99566	1.43817	5.52741	4.60426	93.88	2.918	2.3692	1.43817
270	488099.44	3856839.39	4.91214	1.44566	5.34143	4.3816	89.56	2.947	2.3042	1.44566
271	488149.44	3856839.39	4.832	1.45309	5.32165	4.16916	85.1	2.969	2.244	1.45309
272	488199.44	3856839.39	4.75591	1.46159	5.46712	3.97262	80.94	3.01	2.1884	1.46159
273	487949.44	3856889.39	5.2901	1.40518	5.41895	5.33457	100.3	3.431	2.5835	1.40518
274	487999.44	3856889.39	5.19016	1.41349	5.58925	5.11978	96.21	3.265	2.504	1.41349
275	488049.44	3856889.39	5.11151	1.42065	5.41046	4.88598	92.42	3.103	2.4364	1.42065
276	488099.44	3856889.39	5.02025	1.4289	5.2262	4.66163	87.78	3.118	2.3655	1.4289
277	488635.86	3857895.05	6.06831	2.18569	13.75391	7.59554	57.19	7.873	3.0077	2.18569
278	489137.64	3857804.15	4.97627	1.77905	10.93466	7.77333	41.64	5.826	2.2755	1.77905
279	488617.32	3857859.41	5.96358	2.12724	13.58691	7.37914	59.54	7.894	2.9806	2.12724
280	488667.32	3857859.41	5.84063	2.09395	13.18882	7.19339	58.8	7.616	2.8955	2.09395
281	488717.32	3857859.41	5.73562	2.05755	12.92017	7.08383	58.4	7.373	2.8146	2.05755

69.9356773	3.025393536	0.0005426	0.446177	39.8064	0.72508	25.55619	1.11E+01	1.28E+02
67.6669585	3.014441267	0.0005349	0.415123	40.64204	0.70786	24.62368	1.11E+01	1.26E+02
65.0018608	2.98031008	0.0005935	0.393513	41.76672	0.68456	23.76246	1.10E+01	1.24E+02
48.1012414	2.932991845	0.00049	0.183517	30.07432	0.34993	14.80096	1.08E+01	8.56E+01
47.5199761	2.934469385	0.0004866	0.180939	29.28833	0.34697	14.56771	1.08E+01	8.40E+01
46.871726	2.929667378	0.0004986	0.180302	28.25962	0.3429	14.35005	1.08E+01	8.21E+01
48.3558254	2.891694587	0.000524	0.187094	32.57758	0.35589	15.0362	1.06E+01	8.88E+01
47.7210348	2.90054136	0.0005361	0.182646	31.45124	0.3541	14.77347	1.07E+01	8.67E+01
47.0798797	2.90327481	0.0005522	0.181739	30.85144	0.34916	14.532	1.07E+01	8.52E+01
46.5101959	2.899784121	0.00054	0.180739	30.83976	0.34401	14.31378	1.07E+01	8.44E+01
45.7145167	2.888591751	0.0005058	0.180569	31.12294	0.34778	14.09462	1.06E+01	8.37E+01
49.0006323	2.844376351	0.0005439	0.19142	34.76117	0.36327	15.29439	1.05E+01	9.20E+01
48.3374619	2.859761242	0.000579	0.186593	34.42974	0.3607	15.00318	1.05E+01	9.06E+01
47.6874381	2.869586886	0.0005897	0.184059	34.81045	0.35545	14.7362	1.06E+01	9.01E+01
46.9784635	2.874296547	0.0005752	0.182949	34.66304	0.35184	14.48035	1.06E+01	8.89E+01
46.3207187	2.871526158	0.0005332	0.181973	34.30463	0.35572	14.25327	1.06E+01	8.77E+01
45.6716339	2.869790048	0.0004853	0.181567	33.72266	0.35505	14.03986	1.06E+01	8.63E+01
45.0956898	2.854682196	0.0004585	0.18126	33.02308	0.35957	13.84784	1.05E+01	8.49E+01
44.3899497	2.828271159	0.0004525	0.18195	31.84545	0.38346	13.64435	1.04E+01	8.29E+01
48.9345865	2.813514223	0.0006054	0.191108	38.82481	0.36864	15.26435	1.04E+01	9.60E+01
48.2781981	2.828640544	0.0006138	0.187016	38.12065	0.36303	14.9679	1.04E+01	9.43E+01
47.5618155	2.838355373	0.0005909	0.185802	37.10844	0.36064	14.68739	1.05E+01	9.23E+01
46.9515444	2.846795823	0.0005465	0.184277	36.25204	0.36807	14.43933	1.05E+01	9.06E+01
46.2133552	2.859761242	0.0005161	0.183632	34.95862	0.37464	14.19311	1.05E+01	8.83E+01
45.6167523	2.856602999	0.0004828	0.183013	33.82755	0.38547	13.98062	1.05E+01	8.63E+01
45.1374249	2.839315774	0.0004792	0.182532	32.66844	0.4099	13.79704	1.05E+01	8.46E+01
49.5462141	2.763203968	0.0006044	0.201507	40.67655	0.37822	15.55981	1.02E+01	9.90E+01
48.9166405	2.78152547	0.0006054	0.191034	39.70939	0.37409	15.24692	1.02E+01	9.70E+01
48.1300386	2.796836484	0.0005918	0.189199	38.13744	0.37766	14.91256	1.03E+01	9.42E+01
47.5041168	2.817226543	0.0005779	0.188251	36.94166	0.38646	14.63878	1.04E+01	9.21E+01
46.9923404	2.833073166	0.0005524	0.185954	35.89653	0.38926	14.41077	1.04E+01	9.03E+01
46.1896705	2.847590001	0.0005222	0.186005	33.98503	0.4199	14.12998	1.05E+01	8.73E+01
45.4295704	2.850785183	0.0005847	0.187245	32.00743	0.4663	13.86726	1.05E+01	8.43E+01
52.0023234	2.66995269	0.0005784	0.239408	44.74796	0.40987	16.79641	9.83E+00	1.07E+02
51.178786	2.691358559	0.0005842	0.227321	43.64076	0.3921	16.35323	9.91E+00	1.05E+02
50.2998452	2.71444513	0.0005767	0.216056	41.78251	0.3937	15.91337	9.99E+00	1.01E+02
49.5868015	2.730199406	0.0005777	0.205102	40.33568	0.39466	15.54656	1.01E+01	9.87E+01
48.8272231	2.750386303	0.0005892	0.196625	38.50448	0.39872	15.18896	1.01E+01	9.57E+01
48.1533059	2.778995182	0.0005878	0.192234	36.95091	0.40609	14.87678	1.02E+01	9.31E+01
47.5722493	2.80363317	0.0005728	0.190431	35.62598	0.418	14.60923	1.03E+01	9.09E+01
46.7545548	2.832186641	0.0006167	0.191316	33.51855	0.46231	14.29117	1.04E+01	8.76E+01
46.0377548	2.846721946	0.0007122	0.192106	31.53095	0.50093	14.01817	1.05E+01	8.46E+01
53.8892706	2.622172723	0.000566	0.266808	46.57323	0.45987	17.78142	9.65E+00	1.12E+02
52.9820543	2.640992896	0.0005663	0.254749	45.80315	0.43178	17.26235	9.72E+00	1.10E+02
52.1235638	2.656193094	0.0005754	0.242525	44.02007	0.41048	16.78635	9.78E+00	1.06E+02
51.2521354	2.670026567	0.0005561	0.230797	41.99508	0.41451	16.32616	9.83E+00	1.03E+02
50.4159731	2.683749225	0.000554	0.219607	39.90694	0.41763	15.89948	9.88E+00	9.97E+01
49.6220676	2.699448093	0.0005692	0.209254	37.95365	0.42346	15.50546	9.94E+00	9.65E+01
55.1956828	2.595263016	0.0005641	0.280994	47.01244	0.4827	18.30531	9.56E+00	1.14E+02
54.1529319	2.610610968	0.0005819	0.26968	45.1168	0.45932	17.74174	9.61E+00	1.11E+02
53.3323159	2.623834956	0.0005633	0.257364	43.33872	0.4365	17.26256	9.66E+00	1.08E+02
52.3801302	2.639072093	0.0005441	0.245547	41.16262	0.43863	16.76049	9.72E+00	1.04E+02
63.3153464	4.036806973	0.0014319	0.400088	26.81694	1.10753	21.31043	1.49E+01	1.02E+02
51.921253	3.285773117	0.0011384	0.409453	19.52585	0.81954	16.12246	1.21E+01	8.00E+01
62.2226177	3.928854167	0.0014145	0.388689	27.9195	1.11054	21.11884	1.45E+01	1.02E+02
60.9397858	3.867370011	0.001373	0.378905	27.5702	1.07139	20.51595	1.42E+01	1.00E+02
59.8441357	3.800141917	0.0013451	0.373134	27.38672	1.03724	19.9421	1.40E+01	9.84E+01

282	488767.32	3857859.41	5.64721	2.01104	12.72262	7.11844	57.41	7.191	2.7427	2.01104	58.9216861	3.714241404	0.0013245	0.374957	26.92051	1.01167	19.43316	1.37E+01	9.67E+01
283	488617.32	3857909.41	6.19045	2.23465	14.00951	7.88289	56.34	8.003	3.0648	2.23465	64.589727	4.127232453	0.0014585	0.415224	26.41877	1.12584	21.71528	1.52E+01	1.03E+02
284	488667.32	3857909.41	6.04407	2.18326	13.61191	7.56707	55.8	7.762	2.9831	2.18326	63.0624318	4.032318943	0.0014171	0.398588	26.16524	1.09188	21.13662	1.48E+01	1.01E+02
285	488717.32	3857909.41	5.93066	2.15438	13.26621	7.40208	55.16	7.51	2.8945	2.15438	61.879138	3.97897973	0.0013811	0.389898	25.86416	1.0565	20.50844	1.46E+01	9.90E+01
286	488767.32	3857909.41	5.83581	2.11306	12.95217	7.35818	54.87	7.309	2.8243	2.11306	60.889495	3.902664761	0.0013484	0.387585	25.72862	1.02816	20.01111	1.44E+01	9.76E+01
287	488417.32	3857959.41	7.27347	2.54528	16.61326	11.84788	62.86	9.999	3.6463	2.54528	75.8897078	4.700942975	0.0017295	0.624076	29.47466	1.40668	25.83535	1.73E+01	1.21E+02
288	488467.32	3857959.41	7.02118	2.49631	16.07866	10.65153	60.34	9.454	3.4922	2.49631	73.2573721	4.610499025	0.0016739	0.561059	28.29602	1.32998	24.74364	1.70E+01	1.16E+02
289	488517.32	3857959.41	6.80354	2.44803	15.53923	9.77437	56.81	8.981	3.3568	2.44803	70.9865666	4.521329453	0.0016177	0.514856	26.63883	1.26341	23.78386	1.66E+01	1.11E+02
290	488567.32	3857959.41	6.60916	2.40077	15.01866	9.08383	53.22	8.59	3.2616	2.40077	68.9584505	4.434043746	0.0015635	0.478482	24.95673	1.20846	23.10983	1.63E+01	1.07E+02
291	488617.32	3857959.41	6.43501	2.35329	14.484	8.50841	51.79	8.254	3.1714	2.35329	67.1414096	4.346351715	0.0015079	0.448173	24.28591	1.16119	22.47037	1.60E+01	1.04E+02
292	488667.32	3857959.41	6.28159	2.3081	13.94473	8.04488	52.23	7.953	3.0807	2.3081	65.5406607	4.262889144	0.0014517	0.423757	24.49091	1.11881	21.82808	1.57E+01	1.02E+02
293	488717.32	3857959.41	6.15655	2.26257	13.43105	7.78178	52.48	7.675	3.0024	2.26257	64.2360222	4.178798618	0.0013983	0.409898	24.60713	1.07969	21.27287	1.54E+01	1.00E+02
294	488767.32	3857959.41	6.05327	2.22114	12.92977	7.6331	52.15	7.43	2.9177	2.22114	63.1584225	4.102280488	0.0013461	0.402066	24.45473	1.04521	20.6731	1.51E+01	9.87E+01
295	488417.32	3858009.41	7.59944	2.68754	16.62554	13.75404	61.44	10.56	3.8674	2.68754	79.2908035	4.963686621	0.0017308	0.724481	28.81125	1.48561	27.40164	1.83E+01	1.24E+02
296	488467.32	3858009.41	7.32444	2.64674	15.98452	12.01306	58.11	9.881	3.6836	2.64674	76.421517	4.888332054	0.0016641	0.632777	27.24973	1.39001	26.09964	1.80E+01	1.19E+02
297	488517.32	3858009.41	7.08122	2.59629	15.36265	10.80682	54.4	9.4	3.5311	2.59629	73.8838156	4.795154654	0.0015993	0.569239	25.51133	1.32238	25.01883	1.77E+01	1.13E+02
298	488567.32	3858009.41	6.86105	2.5517	14.76683	9.91895	50.87	8.975	3.4154	2.5517	71.5866126	4.712800238	0.0015373	0.522472	23.85585	1.26254	24.19962	1.74E+01	1.09E+02
299	488617.32	3858009.41	6.66906	2.4952	14.1732	9.23106	47.39	8.608	3.2949	2.4952	69.5834333	4.608448937	0.0014755	0.486238	22.22213	1.21092	23.34527	1.70E+01	1.04E+02
300	488667.32	3858009.41	6.50815	2.44225	13.60534	8.63093	47.66	8.269	3.1862	2.44225	67.9045355	4.510654223	0.0014164	0.454626	22.34765	1.16322	22.57566	1.66E+01	1.02E+02
301	488717.32	3858009.41	6.38507	2.39499	13.07015	8.23091	48.51	7.953	3.0956	2.39499	66.6203471	4.423368516	0.0013607	0.433556	22.74541	1.11884	21.93351	1.63E+01	1.01E+02
302	488767.32	3858009.41	6.27235	2.34707	12.59268	7.96822	48.75	7.658	3.0108	2.34707	65.4442527	4.334863838	0.001311	0.419719	22.85856	1.0773	21.33232	1.60E+01	9.95E+01
303	488417.32	3858059.41	8.01013	2.86288	16.3531	16.5636	61.3	11.11	4.1282	2.86288	83.5758482	5.287526569	0.0017025	0.872472	28.74627	1.56285	29.24972	1.95E+01	1.30E+02
304	488467.32	3858059.41	7.66354	2.82034	15.81891	13.89819	57.56	10.39	3.927	2.82034	79.9596081	5.20895835	0.0016468	0.732074	26.98904	1.46162	27.824	1.92E+01	1.23E+02
305	488517.32	3858059.41	7.38722	2.7708	15.33205	12.15507	53.7	9.8	3.7449	2.7708	77.076549	5.117461653	0.0015962	0.640257	25.18255	1.37869	26.53397	1.88E+01	1.17E+02
306	488567.32	3858059.41	7.14118	2.71959	14.87607	10.95504	48.7	9.339	3.6077	2.71959	74.5094244	5.022880589	0.0015487	0.577047	22.83598	1.31371	25.56179	1.85E+01	1.11E+02
307	488617.32	3858059.41	6.92272	2.66749	14.44986	10.06752	45.62	8.951	3.445	2.66749	72.2300632	4.926655761	0.0015043	0.530297	21.39096	1.25925	24.40928	1.81E+01	1.07E+02
308	488667.32	3858059.41	6.7572	2.60174	14.04872	9.35833	42.68	8.598	3.3103	2.60174	70.5030657	4.805220399	0.0014626	0.492941	20.01192	1.2095	23.4546	1.77E+01	1.03E+02
309	488417.32	3858109.41	8.53562	3.02686	15.95978	21.57683	60.31	12.75	4.4041	3.02686	89.0586896	5.59038544	0.0016615	1.13654	28.27836	1.79387	31.20457	2.06E+01	1.36E+02
310	488467.32	3858109.41	8.11157	2.98397	15.41414	16.88944	57.92	11.28	4.1819	2.98397	84.6342498	5.511170798	0.0016047	0.889636	27.15964	1.58686	29.63055	2.03E+01	1.29E+02
311	488517.32	3858109.41	7.73228	2.95465	14.91438	14.10963	54.07	10.36	3.981	2.95465	80.6768254	5.457018938	0.0015527	0.743212	25.35282	1.45757	28.20703	2.01E+01	1.22E+02
312	488567.32	3858109.41	7.4511	2.9059	14.44227	12.34333	49.59	9.827	3.7843	2.9059	77.7430582	5.366981311	0.0015035	0.650173	23.2524	1.3824	26.81278	1.98E+01	1.15E+02
313	488617.32	3858109.41	7.21072	2.84883	14.05221	11.11853	44.41	9.358	3.6062	2.84883	75.2349887	5.261577263	0.0014629	0.585658	20.82317	1.31642	25.55151	1.94E+01	1.09E+02
314	488667.32	3858109.41	7.04466	2.77101	13.68181	10.26288	41	8.961	3.4569	2.77101	73.502357	5.117849507	0.0014244	0.540588	19.22504	1.26061	24.49324	1.88E+01	1.05E+02
315	488769.93	3858449.27	9.06811	4.23377	11.52794	25.55985	41.47	14.14	4.7228	4.23377	94.6145674	7.819458503	0.0012001	1.346341	19.44428	1.98981	33.46303	2.88E+01	1.30E+02
316	488819.93	3858449.27	8.76975	3.99843	11.44182	19.49752	37.77	12.46	4.3669	3.99843	91.501548	7.384803016	0.0011912	1.027014	17.71277	1.75274	30.94099	2.72E+01	1.23E+02
317	488819.93	3858499.27	8.84771	4.43662	10.64564	26.53911	39.1	14.43	4.8266	4.43662	92.3149647	8.194107376	0.0011083	1.397923	18.33508	2.02976	34.19806	3.02E+01	1.26E+02
318	488869.93	3858499.27	8.54103	4.20636	10.42701	20.19366	35.56	12.67	4.4662	4.20636	89.1151363	7.768834271	0.0010855	1.063682	16.67459	1.78201	31.64457	2.86E+01	1.19E+02
319	488869.93	3858549.27	8.72543	4.62923	10.79759	27.56754	36.95	14.71	4.9316	4.62923	91.0391234	8.54984373	0.0011241	1.452095	17.32482	2.06872	34.94231	3.15E+01	1.24E+02
320	489438.17	3859571.48	6.24838	5.32672	23.75561	9.51417	22.42	6.563	5.8635	5.32672	65.1941552	9.838055917	0.0024731	0.50115	10.51263	0.92319	41.54508	3.62E+01	9.23E+01
321	489488.17	3859571.48	6.16113	5.68689	18.22502	9.45859	21.92	6.258	6.2382	5.68689	64.2838088	10.50326314	0.0018973	0.498222	10.28012	0.88036	44.19969	3.87E+01	9.20E+01
322	489538.17	3859571.48	6.09201	6.12842	22.96327	9.52306	21.49	6.096	6.6241	6.12842	63.5626267	11.31873623	0.0023906	0.501618	10.07592	0.85757	46.93386	4.17E+01	9.16E+01
323	489588.17	3859571.48	6.0461	6.61614	28.92794	9.63361	20.88	6.311	7.0022	6.61614	63.0836124	12.21951882	0.0030116	0.507441	9.792772	0.88776	49.61333	4.50E+01	9.11E+01
324	489438.17	3859621.48	6.40549	4.78469	15.56975	9.11762	22.01	7.01	5.3115	4.78469	66.8334047	8.836966795	0.0016209	0.480262	10.32213	0.98612	37.63375	3.25E+01	9.26E+01
325	489488.17	3859621.48	6.25876	5.03495	18.53502	8.87682	21.68	6.67	5.539	5.03495	65.3024577	9.299178413	0.0019296	0.467578	10.1653	0.93834	39.24574	3.42E+01	9.12E+01
326	489538.17	3859621.48	6.15053	5.35044	23.67655	8.90804	21.13	6.369	5.8793	5.35044	64.1732109	9.881864994	0.0024649	0.469223	9.910077	0.89598	41.65717	3.64E+01	9.06E+01
327	489588.17	3859621.48	6.06012	5.72715	26.94139	9.05748	20.79	6.183	6.2337	5.72715	63.2298938	10.57762036	0.0028048	0.477094	9.748577	0.86981	44.16808	3.89E+01	9.01E+01
328	489238.17	3859671.48	7.67621	3.66696	16.55596	19.98216	20.55	8.098	3.9593	3.66696	80.091804	6.772602563	0.0017236	1.052542	9.636838	1.13923	28.05314	2.49E+01	1.02E+02
329	489288.17	3859671.48	7.38183	3.79438	13.41843	13.28469	20.45	8.001	4.1429	3.79438	77.020311	7.007937832	0.0013969	0.699759	9.589998	1.1255	29.35359	2.58E+01	9.90E+01
330	489338.17	3859671.48	7.05084	3.94107	12.67274	10.8974	20.86	7.789	4.3649	3.94107	73.5668377	7.278863359	0.0013193	0.57401	9.780172	1.09572	30.92717	2.68E+01	9.64E+01
331	489388.17	3859671.48	6.771	4.10999	13.52766	9.68343	21.3	7.678	4.5858	4.10999	70.6470517	7.590846044	0.0014083	0.510066	9.988429	1.08004	32.49191	2.79E+01	9.44E+01
332	489438.17	3859671.48	6.5451	4.28549	15.49332	8.78475	21.48	7.352	4.7712	4.28549	68.2900632	7.914981499	0.0016129	0.462729	10.07355	1.03428	33.80574	2.91E+01	9.24E+01
333	489488.17	3859671.48	6.36505	4.5102	19.62324	8.36434	21.43	7.111	4.9421	4.5102	66.4114631	8.330004167	0.0020429	0.440584	10.05069	1.00028	35.01649	3.07E+01	9.06E+01
334	489538.17	3859671.48	6.21305	4.74559	21.98872	8.31341	21.09	6.877	5.1462	4.74559	64.8255301	8.764752001	0.0022892	0.437901	9.891738	0.96746	36.4624	3.23E+01	8.91E+01
335	489588.17	3859671.48	6.08436	5.0475	21.08493	8.45492	20.57	6.632	5.4445	5.0475	63.4828084	9.322357331	0.0021951	0.445355	9.644139	0.93302	38.57589	3.43E+01	8.81E+01
336	489238.17	3859721.48	7.78764	3.3523	11.06618	19.98106	20.12	7.535	3.5692	3.3523	81.2544389	6.191448931	0.0011521	1.052484	9.436211	1.05997	25.28935	2.28E+01	1.01E+02
337	489288.17	3859721.48	7.43694	3.4678	12.06226	13.33178	20.14	7.75	3.7468	3.4678	77.595316	6.404768846	0.0012558	0.702239	9.441697	1.09025	26.54715	2.36E+01	9.82E+01
338	489338.17	3859721.48	7.11649	3.58717	11.91492	10.78883	20.12	7.804	3.9183	3.58717	74.2518147	6.625236364	0.0012404	0.568292	9.435503	1.09789	27.76243	2.44E+01	9.54E+01

339	489388.17	3859721.48	6.81337	3.71654	13.39455	9.41443	20.47	7.726	4.1004	3.71654
340	489438.17	3859721.48	6.5509	3.8554	16.42696	8.48751	20.86	7.494	4.2605	3.8554
341	489488.17	3859721.48	6.34451	4.01752	18.81175	7.87241	21.05	7.42	4.4246	4.01752
342	489538.17	3859721.48	6.17609	4.20599	21.21124	7.66232	20.89	7.235	4.5584	4.20599
343	489588.17	3859721.48	6.0363	4.42588	22.01693	7.76406	20.54	7.003	4.7377	4.42588
344	489238.17	3859771.48	7.88918	3.16117	11.25942	20.02438	19.78	7.17	3.2814	3.16117
345	489288.17	3859771.48	7.35083	3.22053	11.04418	13.24914	19.66	7.257	3.4158	3.22053
346	489338.17	3859771.48	7.0334	3.2946	12.63736	10.63644	19.62	7.284	3.5545	3.2946
347	489388.17	3859771.48	6.75905	3.40054	14.39495	9.16547	19.75	7.441	3.7133	3.40054
348	489438.17	3859771.48	6.5043	3.50787	15.86687	8.18987	20.12	7.415	3.8631	3.50787
349	489488.17	3859771.48	6.2933	3.64572	20.04996	7.51406	20.54	7.477	4.0315	3.64572
350	489538.17	3859771.48	6.1209	3.79254	21.30675	7.12042	20.64	7.454	4.1942	3.79254
351	489588.17	3859771.48	5.97346	3.93813	22.49548	7.09314	20.38	7.327	4.3056	3.93813
352	489238.17	3859821.48	7.60453	3.04182	10.56206	19.94645	19.3	6.782	3.1029	3.04182
353	489288.17	3859821.48	7.2936	3.09618	12.16071	13.17268	19.37	7.016	3.2146	3.09618
354	489338.17	3859821.48	6.95725	3.15442	13.2496	10.52294	19.23	6.989	3.3213	3.15442
355	489388.17	3859821.48	6.73266	3.21048	13.88775	9.01084	19.11	6.884	3.4418	3.21048
356	489438.17	3859821.48	6.50984	3.29286	18.11805	7.97869	19.45	7.139	3.5918	3.29286
357	489488.17	3859821.48	6.30182	3.37969	19.57427	7.23137	19.96	7.346	3.7394	3.37969
358	489538.17	3859821.48	6.12466	3.47463	22.73058	6.77279	20.24	7.605	3.9072	3.47463
359	489588.17	3859821.48	5.97967	3.57118	22.81173	6.57934	20.18	7.51	4.0282	3.57118
360	489238.17	3859871.48	7.23484	2.97333	11.44295	19.88607	18.76	6.268	2.936	2.97333
361	489288.17	3859871.48	7.055	3.00941	12.22702	13.11369	18.99	6.524	3.0531	3.00941
362	489338.17	3859871.48	6.8128	3.04191	12.26965	10.46342	18.86	6.703	3.1661	3.04191
363	489388.17	3859871.48	6.64815	3.09229	16.02471	8.853	18.86	6.852	3.2735	3.09229
364	489438.17	3859871.48	6.50476	3.1415	18.27247	7.79067	18.88	6.97	3.3778	3.1415
365	489488.17	3859871.48	6.34024	3.20633	23.1499	6.94313	19.44	7.299	3.5125	3.20633
366	489538.17	3859871.48	6.1531	3.273	22.50631	6.47868	19.78	7.396	3.6463	3.273
367	489588.17	3859871.48	6.00297	3.34279	22.60745	6.19002	19.92	7.532	3.7845	3.34279
368	489238.17	3859921.48	7.0373	2.88781	11.33398	19.7727	18.18	5.663	2.807	2.88781
369	489288.17	3859921.48	6.8929	2.93405	11.42622	12.93551	18.64	6.033	2.9101	2.93405
370	489338.17	3859921.48	6.66889	2.97173	14.2991	10.32555	18.71	6.34	3.0027	2.97173
371	489388.17	3859921.48	6.45953	3.00648	17.02616	8.68819	18.62	6.643	3.098	3.00648
372	489438.17	3859921.48	6.37364	3.05775	20.97895	7.52043	18.73	7.126	3.1873	3.05775
373	489488.17	3859921.48	6.28102	3.0935	23.16285	6.80281	18.8	7.242	3.3096	3.0935
374	489538.17	3859921.48	6.166	3.12687	20.34793	6.30327	19.25	7.144	3.4387	3.12687
375	489588.17	3859921.48	6.04082	3.14953	20.40507	6.00079	19.62	7.159	3.541	3.14953
376	489238.17	3859971.48	6.80346	2.77048	10.77086	19.55654	17.54	5.224	2.6705	2.77048
377	489288.17	3859971.48	6.65905	2.82582	12.76688	12.82427	18.12	5.427	2.7676	2.82582
378	489338.17	3859971.48	6.46021	2.87345	15.39692	10.16233	18.44	5.729	2.8646	2.87345
379	489388.17	3859971.48	6.24341	2.92193	18.39203	8.45268	18.51	6.239	2.9468	2.92193
380	489438.17	3859971.48	6.15772	2.95471	21.53871	7.20269	18.6	6.629	2.9898	2.95471
381	489488.17	3859971.48	6.14534	3.01114	19.73546	6.48146	18.69	6.888	3.4579	3.01114
382	489538.17	3859971.48	6.09834	3.03852	18.30716	6.16912	19.05	7.046	3.6581	3.03852
383	489588.17	3859971.48	6.04366	3.00675	18.17816	5.92072	19.58	7.039	3.7827	3.00675
384	483577.7	3854071	5.93564	2.88209	2.93502	9.14306	4.975	6.653	4.1224	2.88209
385	483627.7	3854071	5.76979	2.89657	2.22478	8.47982	4.974	6.003	3.8851	2.89657
386	483677.7	3854071	5.65364	2.95845	2.66363	7.92394	4.961	5.511	3.7553	2.95845
387	483727.7	3854071	5.57653	2.95573	3.51846	7.28001	4.937	4.992	3.742	2.95573
388	483777.7	3854071	5.54348	2.94484	3.85021	6.7629	4.899	4.629	3.734	2.94484
389	483577.7	3854121	6.11975	3.0261	3.02633	11.02296	5.115	7.728	4.4918	3.0261
390	483627.7	3854121	5.95676	2.75385	2.83315	9.71631	5.098	6.888	4.1355	2.75385
391	483677.7	3854121	5.85917	2.7421	3.31808	8.87866	5.089	5.947	3.9151	2.7421
392	483727.7	3854121	5.80811	2.7817	3.98262	7.94526	5.072	5.109	3.7844	2.7817
393	483777.7	3854121	5.76685	2.77858	3.82263	7.42223	4.97	4.702	3.7109	2.77858
394	483577.7	3854171	6.39598	3.3251	3.27194	13.33381	5.261	8.369	5.1225	3.3251
395	483627.7	3854171	6.24841	2.77681	3.56027	10.93424	5.243	7.103	4.5319	2.77681

71.0891305	6.864173138	0.0013945	0.495896	9.599728	1.08687	29.05267	2.53E+01	9.29E+01
68.3505791	7.120637237	0.0017101	0.447072	9.782691	1.05426	30.18697	2.62E+01	9.07E+01
66.1971535	7.420060827	0.0019584	0.414672	9.870936	1.04385	31.3496	2.73E+01	8.90E+01
64.439898	7.768150908	0.0022082	0.403606	9.7971	1.01783	32.29798	2.86E+01	8.71E+01
62.9813614	8.174271394	0.0022921	0.408965	9.629556	0.98521	33.56803	3.01E+01	8.57E+01
82.3138838	5.838446027	0.0011722	1.054766	9.275916	1.00867	23.25012	2.15E+01	1.01E+02
76.6968641	5.948079535	0.0011498	0.697886	9.216841	1.02082	24.2021	2.19E+01	9.59E+01
73.3848728	6.08488132	0.0013156	0.560265	9.19883	1.02471	25.1852	2.24E+01	9.30E+01
70.5223682	6.280544626	0.0014986	0.482783	9.261154	1.04679	26.30993	2.31E+01	9.08E+01
67.8643654	6.478775158	0.0016518	0.431394	9.43336	1.04306	27.37139	2.39E+01	8.88E+01
65.6628401	6.733373862	0.0020873	0.395796	9.631877	1.05186	28.56492	2.48E+01	8.73E+01
63.8640583	7.004539489	0.0022182	0.375062	9.676677	1.04859	29.71756	2.58E+01	8.59E+01
62.3257034	7.273433398	0.0023419	0.373625	9.55707	1.03067	30.50673	2.68E+01	8.43E+01
79.3439114	5.618015448	0.0010996	1.050661	9.05248	0.954	21.98488	2.07E+01	9.73E+01
76.0997395	5.718414328	0.001266	0.693859	9.084461	0.98703	22.7766	2.11E+01	9.43E+01
72.5903412	5.825979279	0.0013794	0.554286	9.019248	0.98315	23.53282	2.14E+01	9.11E+01
70.247021	5.929517932	0.0014458	0.474638	8.96106	0.9684	24.38654	2.18E+01	8.91E+01
67.9221685	6.081667669	0.0018862	0.42027	9.121327	1.00429	25.44906	2.24E+01	8.76E+01
65.7517358	6.242036225	0.0020378	0.380906	9.358989	1.03342	26.49514	2.30E+01	8.63E+01
63.9032893	6.417383349	0.0023664	0.35675	9.49272	1.0698	27.68392	2.36E+01	8.53E+01
62.3904971	6.595704022	0.0023748	0.346561	9.460496	1.05648	28.54153	2.43E+01	8.41E+01
75.4866512	5.491519509	0.0011913	1.04748	8.798814	0.88169	20.80269	2.02E+01	9.23E+01
73.6102422	5.558156587	0.0012729	0.690751	8.903575	0.9178	21.63239	2.05E+01	9.09E+01
71.0831833	5.618181672	0.0012773	0.551151	8.844027	0.94301	22.43303	2.07E+01	8.88E+01
69.3652632	5.711229787	0.0016683	0.466324	8.845668	0.96392	23.19414	2.10E+01	8.75E+01
67.869165	5.802116999	0.0019023	0.410366	8.851018	0.98051	23.93314	2.14E+01	8.65E+01
66.1526013	5.921853191	0.00241	0.365723	9.115578	1.0268	24.88754	2.18E+01	8.57E+01
64.2000257	6.044987725	0.002343	0.341258	9.275822	1.04046	25.83521	2.23E+01	8.45E+01
62.6336039	6.173884668	0.0023536	0.326054	9.342455	1.05953	26.81476	2.27E+01	8.36E+01
73.4255645	5.333570426	0.0011799	1.041509	8.523821	0.79663	19.88889	1.96E+01	8.94E+01
71.9189282	5.418972269	0.0011895	0.681366	8.739655	0.84872	20.61918	2.00E+01	8.83E+01
69.5816595	5.488564428	0.0014886	0.543889	8.775682	0.89193	21.27543	2.02E+01	8.64E+01
67.3972456	5.552745095	0.0017725	0.457642	8.729287	0.93456	21.95045	2.04E+01	8.46E+01
66.5010892	5.647436974	0.002184	0.396132	8.781965	1.00245	22.58324	2.08E+01	8.41E+01
65.5347134	5.713464567	0.0024114	0.358332	8.815981	1.01873	23.44978	2.10E+01	8.39E+01
64.3346213	5.775096477	0.0021183	0.332019	9.025335	1.00499	24.36422	2.13E+01	8.36E+01
63.0285221	5.816947813	0.0021243	0.316086	9.200119	1.00713	25.08948	2.14E+01	8.30E+01
70.9857319	5.116870636	0.0011213	1.030123	8.224402	0.73484	18.92131	1.88E+01	8.62E+01
69.4789912	5.219079503	0.0013291	0.675507	8.498921	0.76344	19.60973	1.92E+01	8.50E+01
67.4043406	5.307048573	0.0016029	0.535291	8.645918	0.80592	20.29672	1.95E+01	8.35E+01
65.1422994	5.39658753	0.0019147	0.445237	8.677392	0.87766	20.87879	1.99E+01	8.16E+01
64.2482297	5.457129753	0.0022423	0.379395	8.719641	0.93253	21.18381	2.01E+01	8.08E+01
64.1190596	5.561351769	0.0020546	0.341405	8.763832	0.96894	24.5004	2.05E+01	8.38E+01
63.6286725	5.611920594	0.0019059	0.324953	8.930702	0.99126	25.91896	2.07E+01	8.47E+01
63.058154	5.553243765	0.0018925	0.311868	9.182061	0.99018	26.80187	2.04E+01	8.55E+01
61.9310982	5.323006011	0.0003056	0.481602	2.333051	0.93587	29.20834	1.96E+01	8.06E+01
60.2006576	5.349749494	0.0002316	0.446667	2.332512	0.84444	27.52755	1.97E+01	7.70E+01
58.9887753	5.464037255	0.0002773	0.417386	2.32613	0.77525	26.60773	2.01E+01	7.45E+01
58.1842273	5.459013617	0.0003663	0.383468	2.315204	0.70228	26.51349	2.01E+01	7.35E+01
57.8393913	5.438900597	0.0004008	0.35623	2.297352	0.65115	26.45681	2.00E+01	7.30E+01
63.8520595	5.588981777	0.0003151	0.580624	2.398376	1.08719	31.82574	2.06E+01	8.48E+01
62.1514594	5.086156263	0.0002949	0.511798	2.390733	0.96895	29.30137	1.87E+01	8.17E+01
61.1332279	5.064454886	0.0003454	0.467675	2.386175	0.83659	27.73961	1.86E+01	7.90E+01
60.6004796	5.137593142	0.0004146	0.418509	2.378503	0.71867	26.81398	1.89E+01	7.72E+01
60.1699823	5.131830734	0.000398	0.390959	2.330725	0.66143	26.29314	1.89E+01	7.61E+01
66.7341796	6.141212553	0.0003406	0.702346	2.4672	1.17735	36.29504	2.26E+01	9.09E+01
65.1944682	5.128561676	0.0003706	0.575951	2.458487	0.99916	32.10993	1.89E+01	8.76E+01

396	483677.7	3854171	6.13789	2.5659	4.04093	9.66331	5.221	6.241	4.1674	2.5659	64.041328	4.739026582	0.0004207	0.509006	2.448204	0.87793	29.52782	1.74E+01	8.47E+01
397	483727.7	3854171	6.06084	2.55953	4.21725	8.86549	5.084	5.603	4.019	2.55953	63.2374061	4.727261666	0.000439	0.466981	2.384182	0.78826	28.47607	1.74E+01	8.27E+01
398	483777.7	3854171	6.02199	2.61463	3.5019	8.10804	5.058	4.934	3.8904	2.61463	62.8320542	4.82902727	0.0003646	0.427084	2.371648	0.69403	27.5651	1.78E+01	8.09E+01
399	483827.7	3854171	6.03676	2.57575	2.66673	7.67613	5.025	4.369	3.6918	2.57575	62.986161	4.7572188	0.0002776	0.404333	2.356122	0.6146	26.15752	1.75E+01	7.98E+01
400	483877.7	3854171	6.02644	2.54746	5.14653	7.24133	5.017	4.187	3.6337	2.54746	62.8784845	4.704969273	0.0005358	0.38143	2.352582	0.58897	25.74615	1.73E+01	7.93E+01
401	483727.7	3854221	6.35207	2.41977	4.0704	9.74265	5.208	5.912	4.3927	2.41977	66.2760328	4.469135334	0.0004238	0.513185	2.442014	0.83167	31.12394	1.65E+01	8.92E+01
402	483777.7	3854221	6.29669	2.39754	2.97911	8.82989	5.148	5.275	4.1801	2.39754	65.6982106	4.428078176	0.0003101	0.465106	2.413996	0.74213	29.61745	1.63E+01	8.71E+01
403	483827.7	3854221	6.23115	2.4879	5.25611	8.43844	5.147	4.944	4.0325	2.4879	65.0143814	4.59496638	0.0005472	0.444487	2.413452	0.69557	28.57172	1.69E+01	8.48E+01
404	483877.7	3854221	6.24115	2.46361	8.5851	8.08064	5.122	4.551	3.7992	2.46361	65.1187191	4.550104555	0.0008938	0.42564	2.401607	0.64023	26.91863	1.68E+01	8.33E+01
405	489150.19	3858726.45	7.79542	4.83269	8.02185	26.51079	24.27	12.04	4.6193	4.83269	81.3356136	8.925619227	0.0008351	1.396431	11.3794	1.69333	32.72927	3.29E+01	1.05E+02
406	489200.19	3858726.45	7.54167	4.57432	7.96936	40.79316	21.68	11.04	4.2918	4.57432	78.6880447	8.448429041	0.0008297	2.148742	10.16664	1.55288	30.40909	3.11E+01	1.00E+02
407	489150.19	3858776.45	7.8587	5.29778	9.20228	27.92436	25.97	13.56	5.1267	5.29778	81.9958625	9.784605888	0.000958	1.47089	12.17988	1.90691	36.32438	3.60E+01	1.08E+02
408	489200.19	3858776.45	7.63111	5.04974	8.16735	42.92785	22.98	12.2	4.7789	5.04974	79.621241	9.326494444	0.0008503	2.261185	10.77416	1.71626	33.8603	3.43E+01	1.03E+02
409	488919.6	3856400.76	3.8964	1.61563	5.06767	2.99262	43.72	2.033	1.7835	1.61563	40.6541386	2.983948524	0.0005276	0.157633	20.49886	0.28605	12.63674	1.10E+01	6.62E+01
410	488919.6	3856450.76	3.88435	1.59939	4.81654	3.05169	45.34	2.109	1.7712	1.59939	40.5284117	2.953954451	0.0005014	0.160745	21.26266	0.29673	12.54952	1.09E+01	6.69E+01
411	488969.6	3856450.76	3.85788	1.59928	4.19918	3.16523	44.48	2.105	1.7637	1.59928	40.2522298	2.953751289	0.0004372	0.166726	20.85828	0.29616	12.49659	1.09E+01	6.61E+01
412	488919.6	3856500.76	3.86984	1.57596	4.53575	3.11831	46.5	2.179	1.752	1.57596	40.3770177	2.910680982	0.0004722	0.164254	21.80494	0.30651	12.41355	1.07E+01	6.73E+01
413	488969.6	3856500.76	3.83893	1.57951	4.11365	3.2349	45.5	2.176	1.7471	1.57951	40.0545099	2.917237569	0.0004283	0.170395	21.33735	0.30607	12.37855	1.07E+01	6.64E+01
414	488919.6	3856550.76	3.84941	1.54632	4.37504	3.21728	47.12	2.248	1.7303	1.54632	40.1638558	2.855938106	0.0004555	0.169467	22.09535	0.3163	12.25945	1.05E+01	6.73E+01
415	488969.6	3856550.76	3.82213	1.55424	4.10867	3.31504	46.22	2.245	1.7269	1.55424	39.8792225	2.870565757	0.0004277	0.174617	21.67238	0.31581	12.23592	1.06E+01	6.66E+01
416	488819.6	3856600.76	3.89647	1.49455	4.82744	3.39771	49.95	2.329	1.7471	1.49455	40.6548689	2.760322763	0.0005026	0.178971	23.42213	0.32757	12.37883	1.02E+01	6.96E+01
417	488869.6	3856600.76	3.86668	1.50105	4.49536	3.28103	48.54	2.315	1.7324	1.50105	40.344047	2.77232778	0.000468	0.172825	22.76297	0.32563	12.2744	1.02E+01	6.84E+01
418	488919.6	3856600.76	3.83636	1.5126	4.20979	3.31889	47.51	2.316	1.7163	1.5126	40.0276951	2.793659772	0.0004383	0.174819	22.27817	0.32577	12.16075	1.03E+01	6.75E+01
419	488819.6	3856650.76	3.89782	1.46043	4.57745	3.50717	50.56	2.396	1.7508	1.46043	40.6689545	2.69730566	0.0004765	0.184737	23.70752	0.3371	12.40519	9.93E+00	7.01E+01
420	488869.6	3856650.76	3.86599	1.46472	4.34146	3.37396	49.71	2.383	1.7361	1.46472	40.3368477	2.705228971	0.000452	0.17772	23.31158	0.33528	12.30075	9.96E+00	6.92E+01
421	488819.6	3856700.76	3.91032	1.44672	4.40028	3.59861	51.65	2.472	1.7544	1.44672	40.7993766	2.671984309	0.0004581	0.189553	24.21863	0.34774	12.43034	9.84E+00	7.08E+01
422	488869.6	3856700.76	3.87875	1.44044	4.59157	3.47058	50.72	2.471	1.7399	1.44044	40.4699825	2.660385615	0.000478	0.18281	23.78534	0.34764	12.32782	9.79E+00	7.00E+01
423	488819.6	3856750.76	3.94561	1.4363	4.93604	3.66971	52.41	2.576	1.7589	1.4363	41.1675844	2.652739343	0.0005139	0.193299	24.57553	0.36235	12.46216	9.77E+00	7.16E+01
424	488869.6	3856750.76	3.89965	1.43203	5.10879	3.56183	51.21	2.605	1.7418	1.43203	40.6880483	2.64485297	0.0005319	0.187616	24.01104	0.36652	12.34107	9.74E+00	7.05E+01
425	488819.6	3857050.76	4.34844	1.45811	6.22958	4.17967	54.11	4.15	1.8285	1.45811	45.3706196	2.693020792	0.0006485	0.22016	25.37362	0.58387	12.95565	9.91E+00	7.73E+01
426	488869.6	3857050.76	4.29124	1.43606	6.63597	4.13732	52.16	4.089	1.7942	1.43606	44.773808	2.652296081	0.0006908	0.21793	24.45927	0.57517	12.71234	9.76E+00	7.56E+01
427	488919.6	3857050.76	4.23847	1.41045	7.06523	4.25041	50.53	3.943	1.765	1.41045	44.223218	2.604996314	0.0007355	0.223886	23.69677	0.55463	12.50552	9.59E+00	7.42E+01
428	488819.6	3857100.76	4.42218	1.46672	7.25013	4.28051	57.34	4.277	1.871	1.46672	46.1400058	2.708922822	0.0007548	0.225472	26.88557	0.60163	13.25636	9.97E+00	7.98E+01
429	488869.6	3857100.76	4.3669	1.44867	7.58505	4.24679	55.49	4.101	1.8242	1.44867	45.563227	2.675585814	0.0007897	0.223696	26.0189	0.57694	12.92483	9.85E+00	7.81E+01
430	488919.6	3857100.76	4.30921	1.42798	7.76763	4.36665	53.56	3.977	1.791	1.42798	44.9613029	2.637372921	0.0008087	0.230009	25.11631	0.5595	12.6896	9.71E+00	7.65E+01
431	488819.6	3857150.76	4.49324	1.48397	7.99175	4.42023	59.77	4.286	1.9308	1.48397	46.8814294	2.74078229	0.000832	0.232832	28.02624	0.60291	13.68049	1.01E+01	8.21E+01
432	488869.6	3857150.76	4.43412	1.47134	8.13204	4.36901	57.68	4.151	1.885	1.47134	46.264585	2.717455619	0.0008466	0.230134	27.04725	0.58394	13.35619	1.00E+01	8.02E+01
433	488919.6	3857150.76	4.37879	1.45209	7.95177	4.48361	55.79	4.064	1.8365	1.45209	45.6872845	2.681902299	0.0008278	0.23617	26.15885	0.57167	13.01234	9.87E+00	7.85E+01
434	488969.6	3857150.76	4.32421	1.42911	7.52573	4.63898	53.95	3.923	1.7921	1.42911	45.1178094	2.639459947	0.0007835	0.244354	25.29691	0.55188	12.69768	9.72E+00	7.68E+01
435	488819.6	3857200.76	4.55989	1.49983	8.3277	4.60309	60.6	4.331	1.9888	1.49983	47.5768401	2.770074531	0.000867	0.242464	28.41652	0.60927	14.09101	1.02E+01	8.35E+01
436	488869.6	3857200.76	4.49859	1.49285	7.9382	4.55483	58.47	4.247	1.9457	1.49285	46.9372501	2.75718299	0.0008264	0.239921	27.41684	0.5975	13.78599	1.02E+01	8.16E+01
437	488919.6	3857200.76	4.44129	1.47821	7.32869	4.63266	56.55	4.093	1.8991	1.47821	46.3393951	2.730143998	0.000763	0.244021	26.51738	0.57585	13.45553	1.01E+01	7.98E+01
438	488969.6	3857200.76	4.38834	1.45676	6.59785	4.76729	54.84	3.893	1.8491	1.45676	45.786927	2.690527442	0.0006869	0.251113	25.71565	0.54758	13.10154	9.91E+00	7.82E+01
439	488819.6	3857250.76	4.62413	1.5254	7.70958	4.8158	60.23	4.401	2.0429	1.5254	48.2471055	2.81730042	0.0008026	0.253668	28.24531	0.61914	14.47454	1.04E+01	8.43E+01
440	488869.6	3857250.76	4.56258	1.51727	6.93343	4.7553	58.16	4.237	2.0035	1.51727	47.604907	2.802284915	0.0007218	0.250481	27.27448	0.59604	14.19559	1.03E+01	8.24E+01
441	488919.6	3857250.76	4.5034	1.50182	6.22377	4.79958	56.33	4.043	1.9598	1.50182	46.9874365	2.773749913	0.0006479	0.252813	26.41213	0.5687	13.88575	1.02E+01	8.07E+01
442	488969.6	3857250.76	4.44666	1.48379	6.10059	4.93088	54.64	4.135	1.9123	1.48379	46.3954245	2.740449843	0.0006351	0.25973	25.6213	0.58167	13.54912	1.01E+01	7.91E+01
443	488819.6	3857300.76	4.68119	1.55397	6.50419	5.0182	61.89	4.393	2.0922	1.55397	48.8424564	2.870067087	0.0006771	0.264329	29.02131	0.61793	14.82371	1.06E+01	8.59E+01
444	488869.6	3857300.76	4.61873	1.55132	6.15695	4.96819	59.43	4.291	2.0572	1.55132	48.1907631	2.865172734	0.000641	0.261695	27.86896	0.60359	14.57565	1.05E+01	8.38E+01
445	488919.6	3857300.76	4.55695	1.54269	5.97924	5.00814	57.07	4.481	2.0175	1.54269	47.5461649	2.849233765	0.0006225	0.263799	26.76215	0.63042	14.29493	1.05E+01	8.19E+01
446	488819.6	3857450.76	4.82772	1.62541	11.05829	5.62218	68.05	5.779	2.2113	1.62541	50.3713166	3.002011457	0.0011512	0.296143	31.91052	0.81294	15.66807	1.11E+01	9.10E+01
447	488869.6	3857450.76	4.76172	1.62772	11.52	5.54506	65.68	5.745	2.1839	1.62772	49.6826878	3.006277855	0.0011993	0.292081	30.79755	0.80814	15.47351	1.11E+01	8.90E+01
448	488919.6	3857450.76	4.69327	1.63036	11.60172	5.59704	63.02	5.75	2.1579	1.63036	48.9684963	3.011153739	0.0012078	0.294819	29.55274	0.80884	15.28964	1.11E+01	8.68E+01
449	488819.6	3857500.76	4.87206	1.64037	12.39886	5.80397	66.78	6.144	2.2599	1.64037	50.8339499	3.029641465	0.0012908	0.305719	31.31374	0.86432	16.01235	1.12E+01	9.12E+01
450	488869.6	3857500.76	4.80056	1.6462	12.06544	5.7216	64.97	6.093	2.2151	1.6462	50.0879354	3.040409042	0.0012561	0.30138	30.46493	0.85717	15.6945	1.12E+01	8.93E+01
451	488919.6	3857500.76	4.7411	1.65061	11.54509	5.76947	63.09	5.999	2.1928	1.65061	49.4675435	3.048553984	0.0012019	0.303901	29.58331	0.84397	15.53678	1.12E+01	8.76E+01
452	488819.6	3857550.76	4.9152	1.65403	12.32959	5.97694	63.4	6.413	2.3039	1.65403	51.2840627	3.05487047	0.0012836	0.31483	29.73046	0.90216	16.32396	1.12E+01	9.04E+01

453	488869.6	3857550.76	4.86598	1.65857	11.97639	5.9016	62.26	6.305	2.2547	1.65857
454	488919.6	3857550.76	4.8183	1.66538	11.38904	5.92663	60.95	6.188	2.2223	1.66538
455	489663.71	3860900.05	5.31481	2.64366	6.36357	4.61167	10.93	3.206	2.6746	2.64366
456	489813.71	3860900.05	4.65911	2.75473	5.60317	3.89978	12.18	3.141	2.8275	2.75473
457	489863.71	3860900.05	4.45068	2.78825	5.10963	3.75637	12.28	3.128	2.8744	2.78825
458	489913.71	3860900.05	4.25383	2.82373	4.78256	3.65928	12.28	3.122	2.9318	2.82373
459	489963.71	3860900.05	4.06314	2.88179	4.2763	3.547	12.08	3.094	3.0068	2.88179
460	490013.71	3860900.05	3.99917	2.93931	4.13667	3.46514	11.96	3.091	3.084	2.93931
461	490063.71	3860900.05	3.96557	3.00167	4.32204	3.37375	11.95	3.073	3.1615	3.00167
462	489663.71	3860950.05	5.30054	2.66585	6.14255	4.61695	10.43	3.225	2.6867	2.66585
463	489813.71	3860950.05	4.67999	2.71948	5.39758	3.88348	11.85	3.123	2.782	2.71948
464	489863.71	3860950.05	4.4787	2.75526	4.93031	3.73223	12.02	3.099	2.8346	2.75526
465	489913.71	3860950.05	4.28897	2.79842	4.64252	3.6278	12.09	3.102	2.8912	2.79842
466	489963.71	3860950.05	4.10405	2.83795	4.19434	3.52151	11.99	3.088	2.9427	2.83795
467	490013.71	3860950.05	3.96129	2.87621	3.98679	3.4332	11.79	3.072	3.0001	2.87621
468	490063.71	3860950.05	3.90428	2.91367	4.19556	3.35005	11.76	3.048	3.0566	2.91367
469	489513.71	3861000.05	6.14114	2.77093	5.2027	5.85471	7.804	3.521	2.6828	2.77093
470	489563.71	3861000.05	5.86494	2.76386	5.89402	5.35609	8.568	3.436	2.7083	2.76386
471	489613.71	3861000.05	5.60377	2.76326	6.13083	4.97379	9.3	3.366	2.7389	2.76326
472	489663.71	3861000.05	5.342	2.75879	5.93671	4.63471	9.953	3.299	2.7684	2.75879
473	489713.71	3861000.05	5.09405	2.76542	5.65457	4.32798	10.52	3.226	2.7942	2.76542
474	489763.71	3861000.05	4.89556	2.78604	5.2767	4.07234	11.05	3.16	2.8257	2.78604
475	489813.71	3861000.05	4.6992	2.81716	5.20572	3.87952	11.49	3.126	2.8663	2.81716
476	489863.71	3861000.05	4.50164	2.82961	4.77437	3.71728	11.74	3.073	2.8935	2.82961
477	489913.71	3861000.05	4.3187	2.85345	4.51538	3.60948	11.89	3.048	2.9313	2.85345
478	489963.71	3861000.05	4.13849	2.86826	4.10312	3.49648	11.85	3.04	2.9563	2.86826
479	490013.71	3861000.05	3.96712	2.88864	3.83455	3.40784	11.72	3.032	2.9917	2.88864
480	490063.71	3861000.05	3.86726	2.91004	4.05119	3.32281	11.53	3.013	3.0253	2.91004
481	489513.71	3861050.05	6.16681	2.80885	5.19783	5.9166	7.301	3.415	2.7016	2.80885
482	489563.71	3861050.05	5.91345	2.81126	5.80166	5.40076	8.061	3.373	2.7341	2.81126
483	489613.71	3861050.05	5.65485	2.81394	5.98807	5.02796	8.814	3.343	2.7697	2.81394
484	489663.71	3861050.05	5.40486	2.81462	5.73785	4.65069	9.469	3.298	2.8028	2.81462
485	489713.71	3861050.05	5.1562	2.81573	5.44533	4.33572	10.05	3.247	2.8341	2.81573
486	489763.71	3861050.05	4.91278	2.83108	5.07192	4.08057	10.61	3.195	2.869	2.83108
487	489813.71	3861050.05	4.71865	2.86029	5.00279	3.86524	11.08	3.143	2.9108	2.86029
488	489863.71	3861050.05	4.53482	2.8862	4.63178	3.70199	11.42	3.098	2.9465	2.8862
489	489913.71	3861050.05	4.35258	2.91293	4.37281	3.58271	11.62	3.051	2.9848	2.91293
490	489963.71	3861050.05	4.17357	2.93687	4.0094	3.47585	11.68	3.009	3.0217	2.93687
491	490013.71	3861050.05	4.00231	2.96686	3.68327	3.39133	11.64	2.995	3.063	2.96686
492	490063.71	3861050.05	3.84822	2.9914	3.89984	3.30366	11.46	2.97	3.1	2.9914
493	489513.71	3861100.05	6.17276	2.79521	5.20335	5.99005	6.83	3.323	2.6687	2.79521
494	489563.71	3861100.05	5.94607	2.80759	5.70396	5.43415	7.562	3.259	2.7121	2.80759
495	489613.71	3861100.05	5.69887	2.81414	5.78109	4.96391	8.263	3.198	2.7486	2.81414
496	489663.71	3861100.05	5.44938	2.8205	5.52219	4.62556	8.954	3.181	2.7865	2.8205
497	489713.71	3861100.05	5.21521	2.82738	5.23713	4.33217	9.58	3.167	2.8249	2.82738
498	489763.71	3861100.05	4.98163	2.83489	4.862	4.07361	10.13	3.146	2.863	2.83489
499	489813.71	3861100.05	4.75128	2.85572	4.80652	3.85698	10.66	3.122	2.9058	2.85572
500	489863.71	3861100.05	4.56151	2.88963	4.50066	3.69426	11.08	3.095	2.9517	2.88963
501	489913.71	3861100.05	4.37792	2.92013	4.23702	3.56354	11.33	3.051	2.9922	2.92013
502	489963.71	3861100.05	4.20918	2.95204	3.91156	3.45795	11.47	3.009	3.0349	2.95204
503	490013.71	3861100.05	4.04145	2.98226	3.55751	3.35715	11.47	2.963	3.0749	2.98226
504	490063.71	3861100.05	3.87951	3.01361	3.7292	3.27339	11.35	2.943	3.1159	3.01361
505	489713.71	3861150.05	5.26534	2.79803	5.04543	4.33509	9.109	3.109	2.7755	2.79803
506	489763.71	3861150.05	5.0412	2.80867	4.68683	4.08116	9.687	3.078	2.8164	2.80867
507	489813.71	3861150.05	4.81994	2.81923	4.63064	3.86029	10.22	3.048	2.857	2.81923
508	489863.71	3861150.05	4.59925	2.84334	4.34063	3.66694	10.68	3.029	2.9043	2.84334
509	489913.71	3861150.05	4.41091	2.87994	4.09837	3.5412	11.01	3	2.9518	2.87994

50.7705126	3.063255512	0.0012468	0.310861	29.19325	0.88691	15.97501	1.13E+01	8.89E+01
50.2730305	3.075833076	0.0011857	0.31218	28.57836	0.87044	15.74566	1.13E+01	8.75E+01
55.4535012	4.882643523	0.0006625	0.242915	5.123917	0.45103	18.95015	1.80E+01	6.71E+01
48.6120787	5.087781557	0.0005833	0.205417	5.712674	0.44186	20.03386	1.87E+01	6.14E+01
46.4373682	5.149690506	0.0005319	0.197863	5.759345	0.44008	20.36637	1.90E+01	5.94E+01
44.3834807	5.215219428	0.0004979	0.192749	5.758979	0.43917	20.773	1.92E+01	5.76E+01
42.3938653	5.322451933	0.0004452	0.186835	5.665388	0.43524	21.30433	1.96E+01	5.57E+01
41.726417	5.428687098	0.0004307	0.182523	5.607612	0.43476	21.85111	2.00E+01	5.52E+01
41.3758424	5.543861383	0.00045	0.177709	5.602374	0.43226	22.40023	2.04E+01	5.51E+01
55.3046114	4.923626803	0.0006395	0.243194	4.889402	0.45369	19.03631	1.81E+01	6.67E+01
48.8299358	5.022677427	0.0005619	0.204559	5.55529	0.43931	19.71112	1.85E+01	6.13E+01
46.7297224	5.088760428	0.0005133	0.196592	5.636995	0.43599	20.08409	1.87E+01	5.94E+01
44.7501234	5.16847374	0.0004833	0.191091	5.670283	0.43635	20.48498	1.90E+01	5.77E+01
42.8207108	5.241482712	0.0004367	0.185492	5.622965	0.43447	20.85037	1.93E+01	5.59E+01
41.3311859	5.312146088	0.000415	0.180841	5.527268	0.43212	21.257	1.96E+01	5.45E+01
40.7363567	5.381331923	0.0004368	0.176461	5.512933	0.42877	21.6569	1.98E+01	5.41E+01
64.0752378	5.117701753	0.0005416	0.308391	3.659455	0.49531	19.00868	1.88E+01	7.38E+01
61.1934307	5.104643988	0.0006136	0.282127	4.017601	0.48342	19.1895	1.88E+01	7.15E+01
58.4684432	5.103535833	0.0006383	0.26199	4.360714	0.47346	19.40624	1.88E+01	6.93E+01
55.7371954	5.095280075	0.000618	0.244129	4.667087	0.46411	19.6154	1.88E+01	6.71E+01
53.1501423	5.107525193	0.0005887	0.227972	4.933785	0.45381	19.79813	1.88E+01	6.49E+01
51.0791435	5.1456088	0.0005493	0.214507	5.182251	0.4445	20.02139	1.89E+01	6.31E+01
49.0303685	5.203085127	0.0005419	0.20435	5.387356	0.43968	20.30898	1.92E+01	6.14E+01
46.9690731	5.226079351	0.000497	0.195804	5.503493	0.43231	20.50156	1.92E+01	5.96E+01
45.0603193	5.270110059	0.0004701	0.190126	5.573334	0.42871	20.76903	1.94E+01	5.79E+01
43.1800498	5.297463029	0.0004272	0.184174	5.558817	0.42765	20.94645	1.95E+01	5.61E+01
41.3920147	5.335103374	0.0003992	0.179505	5.493477	0.42647	21.19692	1.96E+01	5.44E+01
40.3500985	5.374627583	0.0004218	0.175026	5.406882	0.42383	21.43534	1.98E+01	5.34E+01
64.3430727	5.187737174	0.0005411	0.311651	3.423551	0.48038	19.14167	1.91E+01	7.38E+01
61.6995729	5.192188265	0.000604	0.28448	3.779864	0.47456	19.37187	1.91E+01	7.17E+01
59.0014001	5.197138026	0.0006234	0.264843	4.13326	0.47034	19.62447	1.91E+01	6.96E+01
56.3930622	5.198393936	0.0005973	0.244971	4.440393	0.46389	19.8585	1.91E+01	6.75E+01
53.7986011	5.200444023	0.0005669	0.22838	4.713609	0.45672	20.08041	1.91E+01	6.53E+01
51.258813	5.228794332	0.000528	0.21494	4.974196	0.44952	20.32797	1.93E+01	6.32E+01
49.2333054	5.282743031	0.0005208	0.203598	5.197533	0.44218	20.62421	1.94E+01	6.15E+01
47.3152655	5.330596875	0.0004822	0.194999	5.353238	0.43578	20.87723	1.96E+01	5.99E+01
45.4138154	5.379965198	0.0004552	0.188716	5.449282	0.42923	21.1481	1.98E+01	5.82E+01
43.5460664	5.424180599	0.0004174	0.183087	5.478486	0.42333	21.40969	2.00E+01	5.65E+01
41.7591791	5.4795699	0.0003835	0.178635	5.455945	0.42139	21.70239	2.02E+01	5.48E+01
40.1514396	5.524893456	0.000406	0.174017	5.372013	0.41775	21.96426	2.03E+01	5.33E+01
64.4051536	5.162545108	0.0005417	0.31552	3.202821	0.46747	18.90899	1.90E+01	7.35E+01
62.0399224	5.185410048	0.0005938	0.286239	3.545798	0.45842	19.21614	1.91E+01	7.16E+01
59.4606947	5.197507411	0.0006018	0.261469	3.874548	0.44984	19.47489	1.91E+01	6.96E+01
56.8575736	5.209253859	0.0005749	0.243647	4.198487	0.4475	19.74329	1.92E+01	6.75E+01
54.4142978	5.221960707	0.0005452	0.228193	4.492363	0.44547	20.01536	1.92E+01	6.56E+01
51.977178	5.235831119	0.0005062	0.214574	4.750906	0.44253	20.28546	1.93E+01	6.36E+01
49.5737592	5.274302581	0.0005004	0.203163	4.996901	0.43919	20.58864	1.94E+01	6.17E+01
47.5937429	5.33693183	0.0004685	0.194592	5.195306	0.43546	20.91351	1.96E+01	6.00E+01
45.6782072	5.393263063	0.0004411	0.187706	5.313834	0.42926	21.20082	1.99E+01	5.83E+01
43.9176129	5.452198462	0.0004072	0.182144	5.380102	0.42326	21.50336	2.01E+01	5.68E+01
42.1675568	5.508012555	0.0003704	0.176835	5.376843	0.41689	21.78656	2.03E+01	5.52E+01
40.4779122	5.565913675	0.0003882	0.172423	5.321281	0.41403	22.07756	2.05E+01	5.35E+01
54.9373427	5.167753439	0.0005253	0.228347	4.27131	0.4373	19.66535	1.90E+01	6.57E+01
52.5987176	5.187404728	0.0004879	0.214971	4.54235	0.43301	19.95514	1.91E+01	6.38E+01
50.2901418	5.206908263	0.0004821	0.203337	4.794272	0.42882	20.24266	1.92E+01	6.20E+01
47.9875133	5.251437641	0.0004519	0.193153	5.006725	0.42607	20.57794	1.93E+01	6.01E+01
46.0224172	5.319035121	0.0004267	0.186529	5.161187	0.42209	20.91421	1.96E+01	5.84E+01

510	489963.71	3861150.05	4.23649	2.91545	3.79702	3.42821	11.2	2.964	2.9969	2.91545
511	490013.71	3861150.05	4.0682	2.95118	3.47335	3.32889	11.27	2.924	3.0416	2.95118
512	490063.71	3861150.05	3.91422	2.98698	3.5588	3.24962	11.24	2.884	3.0874	2.98698
513	489613.71	3861200.05	5.75319	2.70682	5.45907	4.9559	7.271	3.108	2.6022	2.70682
514	489663.71	3861200.05	5.54457	2.71865	5.15586	4.62737	7.975	3.061	2.6445	2.71865
515	489713.71	3861200.05	5.32256	2.73054	4.86783	4.34084	8.639	3.042	2.687	2.73054
516	489763.71	3861200.05	5.09411	2.74306	4.52009	4.08532	9.243	3.024	2.7299	2.74306
517	489813.71	3861200.05	4.87802	2.75626	4.46109	3.86191	9.776	3	2.7729	2.75626
518	489863.71	3861200.05	4.66748	2.76822	4.211	3.6702	10.29	2.971	2.8172	2.76822
519	489913.71	3861200.05	4.4553	2.79664	3.9735	3.52922	10.67	2.931	2.8675	2.79664
520	489963.71	3861200.05	4.26933	2.83644	3.69541	3.41245	10.93	2.883	2.9164	2.83644
521	490013.71	3861200.05	4.10642	2.87542	3.39914	3.3167	11.08	2.848	2.9646	2.87542
522	490063.71	3861200.05	3.9446	2.91454	3.3864	3.22682	11.09	2.812	3.0127	2.91454
523	489513.71	3861250.05	6.10981	2.57876	5.00033	5.8045	5.522	3.168	2.4047	2.57876
524	489563.71	3861250.05	5.95767	2.5927	5.33484	5.35966	6.097	3.141	2.4424	2.5927
525	489613.71	3861250.05	5.77541	2.60578	5.322	4.97771	6.81	3.104	2.4825	2.60578
526	489663.71	3861250.05	5.57273	2.62106	4.99462	4.63657	7.505	3.057	2.5253	2.62106
527	489713.71	3861250.05	5.36891	2.63414	4.70437	4.34816	8.177	3.005	2.5685	2.63414
528	489763.71	3861250.05	5.15378	2.64728	4.36707	4.09269	8.799	2.949	2.6121	2.64728
529	489813.71	3861250.05	4.93368	2.66083	4.30289	3.86501	9.353	2.908	2.656	2.66083
530	489863.71	3861250.05	4.72374	2.67555	4.06888	3.66312	9.861	2.888	2.7005	2.67555
531	489913.71	3861250.05	4.52106	2.69059	3.84924	3.51548	10.31	2.862	2.7491	2.69059
532	489963.71	3861250.05	4.31862	2.71904	3.6027	3.40482	10.64	2.828	2.7989	2.71904
533	490013.71	3861250.05	4.13601	2.76128	3.32179	3.3044	10.85	2.786	2.8485	2.76128
534	490063.71	3861250.05	3.98005	2.80346	3.2324	3.20776	10.92	2.736	2.9003	2.80346
535	489528.13	3861308.47	6.04989	2.43914	5.04843	5.66262	5.255	3.074	2.2536	2.43914
536	489578.13	3861308.47	5.91459	2.45564	5.20935	5.22868	5.789	3.053	2.2916	2.45564
537	489628.13	3861308.47	5.75267	2.47112	5.08374	4.86261	6.475	3.035	2.3317	2.47112
538	489678.13	3861308.47	5.5662	2.48468	4.66955	4.55361	7.165	3.011	2.3734	2.48468
539	489728.13	3861308.47	5.35805	2.4988	4.45039	4.27801	7.83	2.977	2.4155	2.4988
540	489778.13	3861308.47	5.15136	2.51362	4.16801	4.02498	8.448	2.932	2.4601	2.51362
541	489678.13	3861358.47	5.60397	2.35095	4.52409	4.55191	6.716	2.944	2.2191	2.35095
542	489728.13	3861358.47	5.41671	2.36562	4.3048	4.27441	7.378	2.927	2.2609	2.36562
543	489528.13	3861408.47	5.99393	2.16089	4.8904	5.65644	4.608	2.965	1.9493	2.16089
544	489578.13	3861408.47	5.89298	2.17872	4.96683	5.22167	5.071	2.894	1.9839	2.17872
545	489628.13	3861408.47	5.77492	2.19246	4.82014	4.88624	5.63	2.859	2.0178	2.19246
546	489678.13	3861408.47	5.62878	2.209	4.39098	4.55813	6.286	2.851	2.0587	2.209
547	489728.13	3861408.47	5.46057	2.22498	4.16906	4.27165	6.935	2.847	2.1001	2.22498
548	489528.13	3861458.47	5.96025	2.01466	4.8154	5.6742	4.329	2.954	1.7916	2.01466
549	489578.13	3861458.47	5.87324	2.03267	4.86405	5.23758	4.754	2.901	1.8245	2.03267
550	489628.13	3861458.47	5.76729	2.04917	4.68382	4.87127	5.24	2.847	1.8594	2.04917
551	489678.13	3861458.47	5.63979	2.06559	4.25849	4.55063	5.865	2.813	1.8972	2.06559
552	489728.13	3861458.47	5.48892	2.08234	4.03395	4.25524	6.498	2.785	1.9378	2.08234
553	489528.13	3861508.47	5.9208	1.87008	4.73344	5.67924	4.07	2.988	1.6379	1.87008
554	489578.13	3861508.47	5.84437	1.88894	4.75206	5.22641	4.453	2.933	1.6699	1.88894
555	489628.13	3861508.47	5.75133	1.9064	4.55163	4.85335	4.901	2.879	1.7029	1.9064
556	489678.13	3861508.47	5.63908	1.92299	4.12698	4.5307	5.457	2.828	1.739	1.92299
557	489728.13	3861508.47	5.50729	1.93869	3.91306	4.24866	6.082	2.799	1.7763	1.93869
558	489628.13	3861558.47	5.7327	1.776	4.43719	4.86446	4.595	2.917	1.5488	1.776
559	489678.13	3861558.47	5.63796	1.79117	4.02647	4.55917	5.091	2.867	1.5804	1.79117
560	489728.13	3861558.47	5.52185	1.80402	3.82053	4.27774	5.702	2.824	1.6149	1.80402
561	489357.08	3861015.81	6.8539	2.78824	5.30439	8.70922	5.663	3.661	2.6062	2.78824
562	489407.08	3861015.81	6.63907	2.78813	4.58824	7.3887	6.189	3.606	2.6324	2.78813
563	489457.08	3861015.81	6.43157	2.78645	4.25602	6.53045	6.792	3.559	2.659	2.78645
564	489357.08	3861065.81	6.81082	2.79228	4.97758	8.80455	5.319	3.546	2.5961	2.79228
565	489407.08	3861065.81	6.56803	2.79988	4.28052	7.462	5.799	3.444	2.6289	2.79988
566	489457.08	3861065.81	6.40268	2.80554	4.16981	6.5878	6.364	3.385	2.6609	2.80554

44.2025592	5.384619451	0.0003953	0.180578	5.254005	0.41703	21.23383	1.98E+01	5.68E+01
42.4466601	5.450610105	0.0003616	0.175346	5.28705	0.41128	21.55069	2.01E+01	5.53E+01
40.8400683	5.516730044	0.0003705	0.171171	5.270497	0.40574	21.8752	2.03E+01	5.38E+01
60.027457	4.999295348	0.0005683	0.261047	3.40931	0.43723	18.43767	1.84E+01	6.92E+01
57.8507641	5.021144479	0.0005368	0.243742	3.739434	0.43054	18.73738	1.85E+01	6.75E+01
55.534363	5.043104425	0.0005068	0.22865	4.05118	0.428	19.03851	1.86E+01	6.58E+01
53.1507684	5.066227935	0.0004706	0.21519	4.334225	0.42536	19.34218	1.87E+01	6.39E+01
50.8961352	5.090607353	0.0004644	0.203423	4.584187	0.42198	19.64671	1.87E+01	6.21E+01
48.6994094	5.112696584	0.0004384	0.193324	4.824522	0.41799	19.96116	1.88E+01	6.04E+01
46.4855722	5.165186212	0.0004137	0.185898	5.004095	0.41227	20.3172	1.90E+01	5.86E+01
44.5452041	5.238693854	0.0003847	0.179748	5.124672	0.40559	20.66368	1.93E+01	5.69E+01
42.8454388	5.310687016	0.0003539	0.174704	5.194645	0.4006	21.00512	1.96E+01	5.54E+01
41.1570463	5.382938749	0.0003525	0.16997	5.202091	0.39555	21.346	1.98E+01	5.38E+01
63.7483478	4.762778047	0.0005206	0.305747	2.589222	0.44563	17.03824	1.75E+01	7.14E+01
62.1609542	4.78852419	0.0005554	0.282315	2.858785	0.44185	17.30543	1.76E+01	7.02E+01
60.2592954	4.812681978	0.0005541	0.262196	3.193527	0.43665	17.58905	1.77E+01	6.88E+01
58.144579	4.840903003	0.00052	0.244227	3.519281	0.42998	17.89287	1.78E+01	6.72E+01
56.0179682	4.86506079	0.0004898	0.229035	3.834169	0.4227	18.19882	1.79E+01	6.57E+01
53.7733514	4.889329394	0.0004546	0.215579	4.125982	0.41486	18.50795	1.80E+01	6.39E+01
51.4768788	4.914355236	0.000448	0.203586	4.385731	0.40906	18.819	1.81E+01	6.21E+01
49.2864132	4.941541982	0.0004236	0.192951	4.62404	0.40623	19.13416	1.82E+01	6.04E+01
47.1716969	4.969319744	0.0004007	0.185175	4.834149	0.40262	19.47808	1.83E+01	5.87E+01
45.0594846	5.02186478	0.0003751	0.179346	4.988883	0.39777	19.8315	1.85E+01	5.70E+01
43.154174	5.09987892	0.0003458	0.174056	5.085865	0.39191	20.18279	1.88E+01	5.53E+01
41.5269234	5.177782245	0.0003365	0.168966	5.118891	0.38487	20.54974	1.91E+01	5.39E+01
63.1231564	4.504910284	0.0005256	0.298273	2.464058	0.43243	15.96736	1.66E+01	7.02E+01
61.7114674	4.535384558	0.0005423	0.275416	2.714761	0.42944	16.2366	1.67E+01	6.92E+01
60.0220315	4.563974967	0.0005292	0.256133	3.036346	0.42702	16.52115	1.68E+01	6.80E+01
58.0764465	4.589019279	0.0004861	0.239857	3.35997	0.42359	16.81618	1.69E+01	6.66E+01
55.9046574	4.61509787	0.0004633	0.22534	3.671839	0.41882	17.11441	1.70E+01	6.50E+01
53.7481017	4.642469308	0.0004339	0.212012	3.961392	0.41251	17.43063	1.71E+01	6.33E+01
58.47053	4.342029909	0.000471	0.239768	3.149407	0.41412	15.72277	1.60E+01	6.64E+01
56.5167023	4.369124309	0.0004482	0.225151	3.459569	0.41177	16.01894	1.61E+01	6.49E+01
62.5392826	3.991003216	0.0005091	0.297948	2.160953	0.41706	13.81156	1.47E+01	6.85E+01
61.4859936	4.023933901	0.0005171	0.275047	2.377664	0.40707	14.05686	1.48E+01	6.78E+01
60.2541828	4.049310659	0.0005018	0.257378	2.639823	0.40214	14.29705	1.49E+01	6.70E+01
58.7293918	4.07985881	0.0004571	0.240095	2.947617	0.4011	14.58692	1.50E+01	6.60E+01
56.9743274	4.109372682	0.000434	0.225005	3.252058	0.40047	14.88025	1.51E+01	6.47E+01
62.1878733	3.720927275	0.0005013	0.298883	2.029796	0.41553	12.69378	1.37E+01	6.76E+01
61.280031	3.754190406	0.0005064	0.275885	2.229148	0.40806	12.92752	1.38E+01	6.71E+01
60.1745732	3.78466468	0.0004876	0.25659	2.457127	0.40055	13.17445	1.39E+01	6.63E+01
58.8442676	3.814991199	0.0004433	0.2397	2.750408	0.39572	13.44213	1.40E+01	6.54E+01
57.2701248	3.845927204	0.00042	0.224141	3.046999	0.39171	13.72966	1.42E+01	6.43E+01
61.7762611	3.453898761	0.0004928	0.299149	1.908281	0.4204	11.60483	1.27E+01	6.67E+01
60.9788081	3.488731779	0.0004947	0.275296	2.08806	0.41261	11.83149	1.28E+01	6.62E+01
60.0080502	3.520979102	0.0004739	0.255646	2.298253	0.405	12.06566	1.30E+01	6.56E+01
58.8368596	3.551619598	0.0004296	0.23865	2.559122	0.39783	12.32173	1.31E+01	6.48E+01
57.4617931	3.580616332	0.0004074	0.223794	2.851948	0.39379	12.58537	1.32E+01	6.39E+01
59.8136691	3.280139994	0.0004619	0.256231	2.154665	0.41039	10.97402	1.21E+01	6.48E+01
58.8251738	3.308157856	0.0004192	0.24015	2.387193	0.40337	11.19749	1.22E+01	6.42E+01
57.6137088	3.331890851	0.0003977	0.225326	2.67388	0.39732	11.44229	1.23E+01	6.34E+01
71.5120112	5.149672036	0.0005522	0.45875	2.655639	0.515	18.46594	1.90E+01	7.98E+01
69.2705245	5.149468875	0.0004777	0.389193	2.901981	0.50721	18.65115	1.90E+01	7.79E+01
67.1055174	5.146366039	0.0004431	0.343985	3.184838	0.50065	18.84005	1.89E+01	7.62E+01
71.0625244	5.157133616	0.0005182	0.463772	2.49397	0.49885	18.39452	1.90E+01	7.91E+01
68.5293096	5.171170251	0.0004456	0.393054	2.719426	0.48447	18.62656	1.90E+01	7.69E+01
66.8040858	5.181623851	0.0004341	0.347006	2.984371	0.47625	18.85322	1.91E+01	7.56E+01

567	489357.08	3861115.81	6.76176	2.75544	4.65645	8.83495	4.997	3.523	2.5469	2.75544
568	489407.08	3861115.81	6.54482	2.76702	4.00977	7.55677	5.447	3.417	2.5811	2.76702
569	489457.08	3861115.81	6.35822	2.77783	4.23625	6.67535	5.975	3.344	2.6162	2.77783
570	489407.08	3861165.81	6.51756	2.69634	3.88797	7.5981	5.12	3.42	2.4967	2.69634
571	489457.08	3861165.81	6.32528	2.7137	4.27767	6.68662	5.596	3.331	2.537	2.7137
572	489407.08	3861215.81	6.47116	2.61142	3.73001	7.49604	4.778	3.343	2.4016	2.61142
573	489457.08	3861215.81	6.28423	2.6299	4.2782	6.60759	5.216	3.278	2.4394	2.6299
574	489407.08	3861265.81	6.42107	2.50375	3.61839	7.31788	4.468	3.249	2.2827	2.50375
575	489457.08	3861265.81	6.24669	2.52212	4.27304	6.50713	4.868	3.204	2.3198	2.52212
576	489309.86	3861110.14	6.95232	2.74976	5.20491	10.69066	4.678	3.612	2.5237	2.74976
577	489407.08	3861315.81	6.3767	2.3731	3.57593	7.32674	4.214	3.147	2.1438	2.3731
578	489457.08	3861315.81	6.21765	2.39308	4.2815	6.51959	4.569	3.117	2.1782	2.39308
579	488906.03	3861006.75	7.99194	2.65132	7.58333	6.93035	5.221	4.774	2.3453	2.65132
580	488956.03	3861006.75	7.96069	2.66994	7.31207	7.91514	5.21	4.598	2.3651	2.66994
581	488904.24	3861051.87	7.87061	2.54829	7.7129	6.72714	5.248	4.755	2.2614	2.54829
582	488954.24	3861051.87	7.81786	2.61336	6.96904	7.79409	5.17	4.593	2.3117	2.61336
583	489004.24	3861051.87	7.78817	2.61348	6.20617	8.91401	5.137	4.448	2.3157	2.61348
584	488804.24	3861101.87	7.66895	2.44316	7.22584	5.59507	5.303	5.162	2.1611	2.44316
585	488854.24	3861101.87	7.67894	2.46426	7.37937	5.96714	5.224	4.917	2.1763	2.46426
586	488904.24	3861101.87	7.63519	2.54739	6.77026	6.88184	5.035	4.534	2.2571	2.54739
587	488954.24	3861101.87	7.60676	2.59017	6.06088	7.77106	4.988	4.337	2.2987	2.59017
588	489004.24	3861101.87	7.57472	2.61946	5.19849	8.96028	4.933	4.229	2.3285	2.61946
589	488804.24	3861151.87	7.45684	2.39004	6.70895	5.65678	5.141	4.998	2.1284	2.39004
590	488854.24	3861151.87	7.44004	2.4332	6.55792	6.11149	5.023	4.757	2.1613	2.4332
591	489129.49	3861187.55	7.19264	2.54801	5.26329	15.07958	4.553	3.716	2.2727	2.54801
592	489179.49	3861187.55	7.12241	2.57595	5.43261	26.02761	4.478	3.657	2.3073	2.57595
593	488804.24	3861201.87	7.30757	2.2711	6.47656	5.61993	5.083	4.93	2.0256	2.2711
594	488854.24	3861201.87	7.27245	2.31742	6.13144	6.05181	4.97	4.721	2.0611	2.31742
595	489129.49	3861237.55	7.07736	2.42491	5.22288	15.22415	4.497	3.662	2.15	2.42491
596	489179.49	3861237.55	7.01316	2.45965	5.24659	26.28629	4.411	3.517	2.1896	2.45965
597	488804.24	3861251.87	7.16495	2.14321	6.19445	5.61522	5.028	4.868	1.9025	2.14321
598	488854.24	3861251.87	7.13446	2.18551	5.71141	6.0871	4.932	4.677	1.944	2.18551
599	488804.24	3861301.87	7.01419	2.01279	5.80958	5.65622	4.951	4.783	1.7788	2.01279
600	488854.24	3861301.87	6.99909	2.05018	5.26464	6.15862	4.888	4.614	1.8146	2.05018
601	490943.5	3860181.97	5.12226	6.88849	13.36877	7.15967	7.351	5.288	6.1536	6.88849
602	490993.5	3860181.97	5.2114	7.38116	13.63804	7.46526	7.414	5.507	6.6177	7.38116
603	491043.5	3860181.97	5.29557	7.85986	13.5676	8.11956	7.499	5.811	7.0891	7.85986
604	491093.5	3860181.97	5.37642	8.64516	13.29723	8.81126	7.494	6.168	7.7253	8.64516
605	490943.5	3860231.97	4.8816	6.09042	11.80591	6.81442	7.159	4.858	5.3248	6.09042
606	490993.5	3860231.97	4.97402	6.41455	12.65122	6.77517	7.203	5.023	5.7314	6.41455
607	491043.5	3860231.97	5.04958	6.81034	13.03118	6.9021	7.241	5.143	6.1697	6.81034
608	491093.5	3860231.97	5.12191	7.27464	13.10463	7.41935	7.316	5.336	6.5823	7.27464
609	490943.5	3860281.97	4.67716	5.42836	10.11921	6.44523	7.131	4.555	4.7895	5.42836
610	490993.5	3860281.97	4.75572	5.74293	11.04055	6.45775	7.014	4.588	4.9987	5.74293
611	491043.5	3860281.97	4.82814	5.99546	11.77199	6.39031	7.026	4.603	5.3105	5.99546
612	491093.5	3860281.97	4.89944	6.29153	12.30945	6.49742	7.059	4.713	5.72	6.29153
613	490943.5	3860331.97	4.52684	4.81508	8.83397	6.29262	7.04	4.449	4.4619	4.81508
614	490993.5	3860331.97	4.56751	5.09071	9.34834	6.19609	6.956	4.452	4.5763	5.09071
615	491043.5	3860331.97	4.62541	5.36593	10.16071	6.14809	6.837	4.455	4.7111	5.36593
616	491093.5	3860331.97	4.69181	5.63651	10.87967	6.09459	6.845	4.463	4.9237	5.63651
617	490086.72	3859935.12	5.16723	4.50145	14.73423	7.08912	14.18	5.644	4.8011	4.50145
618	490136.72	3859935.12	5.1383	4.74935	16.90255	7.32879	13.54	5.708	4.9699	4.74935
619	490186.72	3859935.12	5.12119	5.01643	15.80822	7.57904	12.75	5.804	5.1083	5.01643
620	490236.72	3859935.12	5.13783	5.36189	15.09223	7.83708	11.84	6.039	5.2254	5.36189
621	490286.72	3859935.12	5.17291	5.84535	14.96139	8.28187	10.84	6.296	5.35	5.84535
622	490336.72	3859935.12	5.241	6.39693	14.16655	8.64179	9.996	6.61	5.6778	6.39693
623	490386.72	3859935.12	5.33438	7.04461	14.22295	9.09611	9.467	6.943	6.2475	7.04461

70.5506437	5.089092874	0.0004848	0.465373	2.343072	0.49567	18.04549	1.87E+01	7.83E+01
68.2871418	5.110480274	0.0004174	0.398046	2.554423	0.48073	18.28788	1.88E+01	7.63E+01
66.3402004	5.13044554	0.000441	0.351618	2.80198	0.47037	18.53679	1.89E+01	7.47E+01
68.0027172	4.979939567	0.0004048	0.400223	2.400697	0.48108	17.68995	1.83E+01	7.56E+01
65.9965121	5.012002197	0.0004453	0.352212	2.624133	0.46864	17.97556	1.85E+01	7.40E+01
67.5185903	4.823098639	0.0003883	0.394847	2.240374	0.47023	17.0162	1.78E+01	7.47E+01
65.5682058	4.857229825	0.0004454	0.348049	2.445906	0.46116	17.28382	1.79E+01	7.31E+01
66.9959628	4.624240152	0.0003767	0.385463	2.095065	0.4571	16.17375	1.70E+01	7.37E+01
65.1765221	4.658168176	0.0004448	0.342757	2.282774	0.45078	16.43634	1.72E+01	7.22E+01
72.5389028	5.078602337	0.0005419	0.563121	2.19374	0.50812	17.88097	1.87E+01	8.01E+01
66.5330165	4.382939313	0.0003723	0.385929	1.976232	0.44267	15.18931	1.61E+01	7.28E+01
64.8735255	4.419840888	0.0004457	0.343413	2.142604	0.43856	15.43319	1.63E+01	7.14E+01
83.386058	4.896790973	0.0007895	0.36505	2.448368	0.67164	16.61751	1.80E+01	9.04E+01
83.0600027	4.931180729	0.0007612	0.416923	2.443017	0.64687	16.75752	1.82E+01	9.01E+01
82.1201287	4.706502221	0.000803	0.354346	2.460939	0.66897	16.02283	1.73E+01	8.90E+01
81.5697474	4.826681675	0.0007255	0.410546	2.424289	0.64612	16.37895	1.78E+01	8.85E+01
81.2599688	4.826903306	0.0006461	0.469537	2.408885	0.62576	16.40722	1.78E+01	8.82E+01
80.0160548	4.512334925	0.0007523	0.294715	2.486707	0.72611	15.31224	1.66E+01	8.67E+01
80.1202882	4.551305057	0.0007682	0.314314	2.449573	0.6917	15.41973	1.68E+01	8.68E+01
79.6638108	4.704839988	0.0007048	0.362495	2.360938	0.63785	15.9923	1.73E+01	8.64E+01
79.3671787	4.783851468	0.000631	0.409333	2.338931	0.61004	16.28676	1.76E+01	8.62E+01
79.0328807	4.837947921	0.0005412	0.471974	2.313366	0.59492	16.49848	1.78E+01	8.59E+01
77.802948	4.414226234	0.0006984	0.297966	2.410901	0.70313	15.08048	1.63E+01	8.45E+01
77.6276607	4.493939546	0.0006827	0.321917	2.355564	0.66922	15.31324	1.65E+01	8.42E+01
75.0463462	4.705985082	0.0005479	0.794303	2.134773	0.52277	16.10318	1.73E+01	8.20E+01
74.3135826	4.757588185	0.0005656	1.37098	2.099618	0.51443	16.34812	1.75E+01	8.19E+01
76.2454993	4.194552894	0.0006742	0.296025	2.383502	0.69358	14.35197	1.54E+01	8.27E+01
75.8790653	4.280102491	0.0006383	0.318773	2.330528	0.66417	14.6035	1.58E+01	8.23E+01
73.8435413	4.478628532	0.0005437	0.801918	2.108598	0.51514	15.23324	1.65E+01	8.05E+01
73.1736933	4.54279073	0.0005462	1.384606	2.068281	0.49481	15.51382	1.67E+01	8.05E+01
74.7574351	3.95834957	0.0006449	0.295777	2.357632	0.68486	13.47969	1.46E+01	8.10E+01
74.4393095	4.036474526	0.0005946	0.320632	2.312484	0.65796	13.77415	1.49E+01	8.07E+01
73.1844401	3.717473524	0.0006048	0.297936	2.321422	0.6728	12.60309	1.37E+01	7.91E+01
73.0268901	3.786530075	0.0005481	0.3244	2.29188	0.6491	12.85724	1.39E+01	7.90E+01
53.444479	12.72252902	0.0013918	0.377129	3.447095	0.74396	43.60076	4.68E+01	6.75E+01
54.3745452	13.63245389	0.0014198	0.393226	3.476562	0.77464	46.88844	5.02E+01	6.94E+01
55.2527555	14.51657721	0.0014125	0.42769	3.516448	0.81753	50.22911	5.34E+01	7.13E+01
56.0963258	15.96696794	0.0013843	0.464125	3.514043	0.8677	54.73625	5.88E+01	7.29E+01
50.9334881	11.24855305	0.0012291	0.358943	3.356903	0.68333	37.7282	4.14E+01	6.29E+01
51.897777	11.84719707	0.0013171	0.356876	3.3777	0.70666	40.6089	4.36E+01	6.52E+01
52.6861526	12.57819178	0.0013566	0.363562	3.395242	0.72356	43.71434	4.63E+01	6.72E+01
53.4408271	13.43571937	0.0013643	0.390807	3.430416	0.75068	46.63783	4.95E+01	6.86E+01
48.8004083	10.02577744	0.0010535	0.339497	3.343638	0.64077	33.93505	3.69E+01	6.02E+01
49.6200852	10.60676485	0.0011494	0.340156	3.289201	0.64546	35.41766	3.91E+01	6.09E+01
50.3756988	11.07316899	0.0012255	0.336604	3.294753	0.64755	37.62695	4.08E+01	6.26E+01
51.1196265	11.61998827	0.0012815	0.342246	3.310227	0.66302	40.52841	4.28E+01	6.48E+01
47.2320041	8.893094866	0.0009197	0.331458	3.301069	0.62587	31.61445	3.27E+01	5.93E+01
47.6563455	9.402162989	0.0009732	0.326373	3.261647	0.62626	32.42474	3.46E+01	5.91E+01
48.2604607	9.910473872	0.0010578	0.323845	3.205925	0.62669	33.37977	3.65E+01	5.92E+01
48.953263	10.41021502	0.0011326	0.321027	3.2097	0.62785	34.8864	3.83E+01	6.01E+01
53.9136856	8.313843567	0.0015339	0.373413	6.649218	0.794	34.01717	3.06E+01	7.35E+01
53.6118366	8.771696441	0.0017597	0.386037	6.349653	0.803	35.21382	3.23E+01	7.28E+01
53.4333148	9.26497335	0.0016457	0.399219	5.978785	0.81653	36.19408	3.41E+01	7.20E+01
53.6069328	9.903012293	0.0015712	0.412811	5.552777	0.84951	37.0237	3.65E+01	7.09E+01
53.9729494	10.79592698	0.0015576	0.43624	5.081991	0.88565	37.90696	3.97E+01	6.93E+01
54.6833847	11.81465424	0.0014748	0.455198	4.687166	0.92986	40.22912	4.35E+01	6.93E+01
55.6576901	13.01087106	0.0014807	0.479129	4.439145	0.97677	44.26579	4.79E+01	7.09E+01

624	490436.72	3859935.12	5.44854	7.72789	13.99571	9.45983	9.049	7.26	6.7453	7.72789
625	490486.72	3859935.12	5.58228	8.39516	14.5465	9.81473	8.807	7.572	7.4886	8.39516
626	490536.72	3859935.12	5.7644	9.33414	16.04092	10.16112	8.744	7.967	8.3078	9.33414
627	490586.72	3859935.12	5.96342	10.43	17.02499	10.48541	8.63	8.413	9.1189	10.43
628	490636.72	3859935.12	6.1465	11.38331	16.99324	10.76436	8.422	8.826	9.9204	11.38331
629	490686.72	3859935.12	6.34567	12.60641	16.74737	12.19801	8.47	9.425	11.268	12.60641
630	490736.72	3859935.12	6.55343	13.9335	16.16689	13.5824	8.65	10.06	12.625	13.9335
631	490086.72	3859985.12	5.10858	4.01653	11.70068	6.84933	14.24	5.461	4.3608	4.01653
632	490136.72	3859985.12	5.07178	4.21545	14.27219	6.96803	13.77	5.418	4.5349	4.21545
633	490186.72	3859985.12	5.04629	4.43961	15.09103	7.1958	13.15	5.376	4.6992	4.43961
634	490236.72	3859985.12	5.03155	4.69905	14.14412	7.43351	12.39	5.381	4.8424	4.69905
635	490286.72	3859985.12	5.03641	4.986	13.88111	7.6268	11.48	5.601	4.9348	4.986
636	490336.72	3859985.12	5.05716	5.40376	13.77303	8.00689	10.5	5.839	5.0327	5.40376
637	490386.72	3859985.12	5.08977	5.86817	13.15224	8.26825	9.696	6.105	5.2493	5.86817
638	490436.72	3859985.12	5.15998	6.39638	13.24274	8.62466	9.186	6.393	5.6477	6.39638
639	490486.72	3859985.12	5.25679	6.98962	13.18073	9.00686	8.791	6.683	6.0985	6.98962
640	490536.72	3859985.12	5.37449	7.60903	13.52733	9.3015	8.576	6.988	6.6413	7.60903
641	490586.72	3859985.12	5.52265	8.23824	14.87523	9.52638	8.516	7.311	7.3724	8.23824
642	490636.72	3859985.12	5.69341	9.12671	16.14651	9.69237	8.409	7.663	8.0566	9.12671
643	490686.72	3859985.12	5.8756	10.10896	16.98747	9.99753	8.273	8.086	8.8611	10.10896
644	490736.72	3859985.12	6.02647	10.90412	16.70292	10.68319	8.26	8.414	9.5818	10.90412
645	490786.72	3859985.12	6.16991	11.70627	16.09657	11.65124	8.394	8.769	10.513	11.70627
646	490086.72	3860035.12	5.0628	3.59901	12.34986	6.45949	14.48	5.297	4.0612	3.59901
647	490136.72	3860035.12	5.01184	3.77414	10.89811	6.60369	13.86	5.254	4.1714	3.77414
648	490186.72	3860035.12	4.97243	3.96308	13.52579	6.69129	13.39	5.202	4.3298	3.96308
649	490236.72	3860035.12	4.94753	4.16545	13.79446	6.87513	12.76	5.142	4.4674	4.16545
650	490286.72	3860035.12	4.93473	4.38767	12.45846	7.03362	11.97	5.113	4.5707	4.38767
651	490336.72	3860035.12	4.9391	4.66571	12.72355	7.22539	11.12	5.213	4.6608	4.66571
652	490386.72	3860035.12	4.94574	5.00761	12.55613	7.54554	10.14	5.295	4.7521	5.00761
653	490436.72	3860035.12	4.96921	5.42237	12.20199	7.80433	9.403	5.522	4.9078	5.42237
654	490486.72	3860035.12	5.00906	5.87372	12.34643	8.10293	8.926	5.774	5.1797	5.87372
655	490536.72	3860035.12	5.08371	6.3962	12.45752	8.4597	8.559	6.038	5.605	6.3962
656	490586.72	3860035.12	5.18325	6.93466	12.48529	8.69094	8.344	6.283	5.9798	6.93466
657	490636.72	3860035.12	5.30545	7.41058	13.57645	8.74146	8.258	6.488	6.515	7.41058
658	490686.72	3860035.12	5.45125	7.99053	14.92867	8.822	8.157	6.766	7.1243	7.99053
659	490736.72	3860035.12	5.61474	8.86475	16.01899	9.06441	8.041	7.137	7.7823	8.86475
660	490786.72	3860035.12	5.7479	9.55528	16.12021	9.46388	8.027	7.401	8.3482	9.55528
661	490836.72	3860035.12	5.87081	10.18482	15.73544	10.32343	8.137	7.678	8.9525	10.18482
662	490086.72	3860085.12	5.05926	3.36445	12.84828	6.09362	14.85	5.317	3.8978	3.36445
663	490136.72	3860085.12	4.98964	3.41283	10.33046	6.23512	13.96	5.115	3.9799	3.41283
664	490186.72	3860085.12	4.94528	3.5908	10.97782	6.38362	13.53	5.092	4.0862	3.5908
665	490236.72	3860085.12	4.90198	3.74812	12.63274	6.4503	13.03	5.053	4.2087	3.74812
666	490286.72	3860085.12	4.87062	3.92799	12.59701	6.61574	12.39	5.003	4.3214	3.92799
667	490336.72	3860085.12	4.85175	4.1195	11.15832	6.74829	11.6	4.942	4.4075	4.1195
668	490386.72	3860085.12	4.84367	4.35632	11.61618	6.86223	10.74	4.991	4.4537	4.35632
669	490436.72	3860085.12	4.84611	4.6653	11.53538	7.15591	9.816	5.046	4.537	4.6653
670	490486.72	3860085.12	4.85898	5.03114	11.32101	7.3706	9.115	5.121	4.6232	5.03114
671	490536.72	3860085.12	4.89007	5.43184	11.51341	7.6419	8.677	5.232	4.8166	5.43184
672	490586.72	3860085.12	4.93315	5.87513	11.69611	7.91873	8.32	5.396	5.1861	5.87513
673	490636.72	3860085.12	5.01715	6.33574	11.59547	8.11317	8.1	5.558	5.5201	6.33574
674	490686.72	3860085.12	5.13072	6.80652	12.59433	8.25581	8.049	5.753	5.8624	6.80652
675	490736.72	3860085.12	5.25772	7.26977	13.86713	8.35513	7.958	5.976	6.429	7.26977
676	490786.72	3860085.12	5.38796	7.83906	14.92006	8.42975	7.813	6.227	6.944	7.83906
677	490836.72	3860085.12	5.50433	8.44537	15.29374	8.50665	7.793	6.432	7.4113	8.44537
678	490086.72	3860135.12	5.011	3.22371	11.72628	5.62115	14.84	5.113	3.6532	3.22371
679	490136.72	3860135.12	4.96158	3.28323	10.86413	5.83046	14.21	5.033	3.7852	3.28323
680	490186.72	3860135.12	4.91533	3.33822	8.92993	6.0053	13.48	4.95	3.9008	3.33822

56.8488092	14.27283843	0.001457	0.498288	4.243419	1.02125	47.79253	5.25E+01	7.21E+01
58.2442215	15.50523653	0.0015144	0.516982	4.129832	1.06514	53.05915	5.71E+01	7.54E+01
60.1444196	17.23946279	0.00167	0.535228	4.100159	1.12078	58.86341	6.35E+01	7.85E+01
62.2209483	19.26343476	0.0017724	0.552309	4.046852	1.18345	64.6107	7.09E+01	8.10E+01
64.1311628	21.02412747	0.0017691	0.567003	3.94935	1.24158	70.28954	7.74E+01	8.38E+01
66.2092566	23.28310226	0.0017435	0.642519	3.971703	1.3259	79.83501	8.57E+01	8.95E+01
68.3769765	25.73413885	0.0016831	0.71544	4.056174	1.41558	89.45233	9.47E+01	9.50E+01
53.301745	7.41823237	0.0012181	0.360782	6.679599	0.76828	30.89777	2.73E+01	7.21E+01
52.9177823	7.785622825	0.0014858	0.367035	6.456722	0.76221	32.13162	2.87E+01	7.18E+01
52.6518255	8.199629684	0.0015711	0.379032	6.164369	0.75631	33.29553	3.02E+01	7.13E+01
52.4980318	8.67879608	0.0014725	0.391553	5.808807	0.75704	34.31001	3.20E+01	7.05E+01
52.5487399	9.208771402	0.0014451	0.401735	5.385293	0.78786	34.96505	3.39E+01	6.94E+01
52.7652406	9.980343071	0.0014339	0.421756	4.925949	0.82144	35.65857	3.67E+01	6.78E+01
53.1054858	10.83807382	0.0013692	0.435522	4.546772	0.85884	37.1929	3.99E+01	6.71E+01
53.8380407	11.81363843	0.0013787	0.454296	4.30751	0.8994	40.01564	4.35E+01	6.78E+01
54.8481339	12.90930862	0.0013722	0.474428	4.122184	0.94018	43.21036	4.75E+01	6.90E+01
56.0761886	14.05331285	0.0014083	0.489948	4.021554	0.98298	47.05622	5.17E+01	7.09E+01
57.6220558	15.21541695	0.0015486	0.501793	3.993152	1.0285	52.23633	5.60E+01	7.46E+01
59.4037263	16.856355	0.001681	0.510537	3.943235	1.07806	57.08363	6.21E+01	7.68E+01
61.3046547	18.67049774	0.0017685	0.526611	3.87935	1.13755	62.78395	6.87E+01	7.96E+01
62.8787975	20.13909916	0.0017389	0.562727	3.873132	1.18367	67.89023	7.41E+01	8.24E+01
64.3754173	21.62061059	0.0016758	0.613718	3.935873	1.23355	74.4913	7.96E+01	8.67E+01
52.824087	6.647103964	0.0012857	0.340248	6.788656	0.74515	28.77493	2.45E+01	7.16E+01
52.2923822	6.970556057	0.0011346	0.347843	6.499769	0.73916	29.55609	2.57E+01	7.07E+01
51.8811873	7.319514193	0.0014081	0.352458	6.27827	0.73176	30.67791	2.69E+01	7.03E+01
51.6213865	7.693276541	0.0014361	0.362141	5.981247	0.72338	31.65321	2.83E+01	6.97E+01
51.4878342	8.103700364	0.001297	0.370489	5.614618	0.71927	32.3852	2.98E+01	6.88E+01
51.5334298	8.617219578	0.0013246	0.380591	5.212975	0.73327	33.02324	3.17E+01	6.78E+01
51.60271	9.248683466	0.0013072	0.397454	4.757148	0.74487	33.67048	3.41E+01	6.64E+01
51.8475906	10.01471436	0.0012703	0.411086	4.409322	0.77682	34.77339	3.69E+01	6.54E+01
52.2633763	10.84832426	0.0012853	0.426814	4.185526	0.81225	36.70033	3.99E+01	6.53E+01
53.0422572	11.81330598	0.0012969	0.445607	4.01325	0.84936	39.71338	4.35E+01	6.64E+01
54.0808346	12.80780158	0.0012998	0.457787	3.912709	0.88389	42.36876	4.72E+01	6.74E+01
55.3558412	13.68679045	0.0014134	0.460448	3.872241	0.9127	46.16134	5.04E+01	7.01E+01
56.8770847	14.75791499	0.0015542	0.464691	3.825166	0.95178	50.47795	5.43E+01	7.30E+01
58.5829017	16.37253435	0.0016677	0.477459	3.770401	1.00402	55.14019	6.03E+01	7.51E+01
59.9722624	17.64789194	0.0016782	0.498501	3.764103	1.04108	59.15008	6.50E+01	7.71E+01
61.254677	18.81060553	0.0016382	0.543777	3.81538	1.08009	63.43191	6.93E+01	7.97E+01
52.7871515	6.213889078	0.0013376	0.320976	6.961574	0.748	27.6176	2.29E+01	7.18E+01
52.0607525	6.303243342	0.0010755	0.328429	6.545802	0.71949	28.19881	2.32E+01	7.10E+01
51.5979105	6.631940704	0.0011429	0.336251	6.343084	0.71632	28.95234	2.44E+01	7.02E+01
51.1461283	6.922499051	0.0013151	0.339764	6.111522	0.71089	29.82037	2.55E+01	6.96E+01
50.8189253	7.254705571	0.0013114	0.348478	5.808479	0.70383	30.61847	2.67E+01	6.88E+01
50.62204	7.608410307	0.0011616	0.35546	5.441554	0.69528	31.22859	2.80E+01	6.79E+01
50.5377352	8.045799245	0.0012093	0.361462	5.034621	0.70211	31.55614	2.96E+01	6.66E+01
50.5631936	8.616462339	0.0012009	0.376931	4.602676	0.70984	32.14635	3.17E+01	6.53E+01
50.6974762	9.292141627	0.0011786	0.38824	4.274058	0.72042	32.75669	3.42E+01	6.39E+01
51.0218621	10.03220474	0.0011986	0.40253	4.068929	0.73606	34.12735	3.69E+01	6.35E+01
51.4713489	10.85092842	0.0012176	0.417112	3.901548	0.75915	36.74518	4.00E+01	6.42E+01
52.3477855	11.70164086	0.0012072	0.427354	3.798391	0.78187	39.11155	4.31E+01	6.51E+01
53.5327487	12.57113653	0.0013111	0.434867	3.774204	0.80927	41.53743	4.63E+01	6.64E+01
54.8578374	13.42672484	0.0014437	0.440099	3.731701	0.84061	45.5515	4.94E+01	6.94E+01
56.2167315	14.47816116	0.0015533	0.444029	3.66383	0.87595	49.20103	5.33E+01	7.16E+01
57.4309092	15.59797066	0.0015922	0.44808	3.654147	0.90484	52.51152	5.74E+01	7.31E+01
52.2836178	5.953952759	0.0012208	0.296089	6.958948	0.71934	25.88431	2.19E+01	7.02E+01
51.7679809	6.063881775	0.001131	0.307114	6.66208	0.70807	26.81965	2.23E+01	7.00E+01
51.2854191	6.165444218	0.0009297	0.316324	6.320074	0.69632	27.63829	2.27E+01	6.97E+01

681	490236.72	3860135.12	4.86745	3.39448	10.61351	6.10818	13.13	4.929	3.9822	3.39448
682	490286.72	3860135.12	4.82672	3.55019	11.55051	6.15014	12.65	4.892	4.1102	3.55019
683	490336.72	3860135.12	4.7941	3.72888	11.41678	6.29528	12.01	4.838	4.2188	3.72888
684	490386.72	3860135.12	4.77195	3.90626	10.14196	6.40357	11.24	4.769	4.2937	3.90626
685	490436.72	3860135.12	4.7568	4.09206	10.68799	6.47844	10.38	4.743	4.332	4.09206
686	490486.72	3860135.12	4.75345	4.35925	10.63202	6.74761	9.518	4.793	4.4137	4.35925
687	490536.72	3860135.12	4.76442	4.70182	10.60489	6.98373	8.86	4.88	4.4826	4.70182
688	490586.72	3860135.12	4.78364	5.0558	10.74894	7.21093	8.439	4.979	4.5694	5.0558
689	490636.72	3860135.12	4.8127	5.43718	10.98703	7.45216	8.088	5.069	4.8293	5.43718
690	490686.72	3860135.12	4.8764	5.84122	10.95741	7.6126	7.876	5.189	5.1467	5.84122
691	490736.72	3860135.12	4.97106	6.25939	11.53925	7.7215	7.826	5.295	5.4341	6.25939
692	490786.72	3860135.12	5.08148	6.68131	12.74861	7.79399	7.745	5.413	5.8072	6.68131
693	490836.72	3860135.12	5.18601	7.01848	13.71729	7.78476	7.586	5.531	6.2236	7.01848
694	490086.72	3860185.12	4.96567	3.06395	10.49821	5.26612	14.86	4.947	3.4592	3.06395
695	490136.72	3860185.12	4.92081	3.14673	10.93196	5.42552	14.36	4.941	3.6045	3.14673
696	490186.72	3860185.12	4.87798	3.2262	9.49315	5.62541	13.74	4.894	3.7351	3.2262
697	490236.72	3860185.12	4.83289	3.29954	8.39776	5.74951	13.12	4.811	3.833	3.29954
698	490286.72	3860185.12	4.79007	3.37143	10.16485	5.80852	12.77	4.781	3.9167	3.37143
699	490336.72	3860185.12	4.74997	3.44464	10.5407	5.82222	12.27	4.752	4.0341	3.44464
700	490386.72	3860185.12	4.71864	3.56653	10.32659	5.9547	11.63	4.707	4.1356	3.56653
701	490436.72	3860185.12	4.6948	3.73229	9.39604	6.05987	10.88	4.659	4.2078	3.73229
702	490486.72	3860185.12	4.67779	3.89826	9.90774	6.13444	10.05	4.648	4.2465	3.89826
703	490536.72	3860185.12	4.67137	4.09233	9.89069	6.40056	9.249	4.653	4.3205	4.09233
704	490586.72	3860185.12	4.67678	4.406	9.94484	6.63051	8.611	4.728	4.3854	4.406
705	490636.72	3860185.12	4.68512	4.71989	10.02234	6.80986	8.204	4.801	4.4331	4.71989
706	490686.72	3860185.12	4.7068	5.06634	10.32516	7.04974	7.872	4.881	4.5852	5.06634
707	490736.72	3860185.12	4.75001	5.4157	10.3032	7.16943	7.659	4.927	4.8187	5.4157
708	490786.72	3860185.12	4.83102	5.79704	10.61655	7.24677	7.617	5.009	5.0961	5.79704
709	490836.72	3860185.12	4.92042	6.16062	11.70207	7.24496	7.526	5.072	5.3346	6.16062
710	490086.72	3860235.12	4.92326	2.91744	9.14716	5.01183	14.82	4.701	3.3378	2.91744
711	490136.72	3860235.12	4.88462	2.99045	10.38216	5.15077	14.42	4.705	3.412	2.99045
712	490186.72	3860235.12	4.84402	3.09023	9.83353	5.31119	13.9	4.724	3.5495	3.09023
713	490236.72	3860235.12	4.80006	3.18347	8.22898	5.47718	13.26	4.704	3.6747	3.18347
714	490286.72	3860235.12	4.75657	3.26132	8.34286	5.58279	12.78	4.649	3.7843	3.26132
715	490336.72	3860235.12	4.71669	3.34651	9.60817	5.62889	12.42	4.599	3.8708	3.34651
716	490386.72	3860235.12	4.68061	3.4222	9.81147	5.62786	11.92	4.582	3.9772	3.4222
717	490436.72	3860235.12	4.65044	3.49836	9.41975	5.75509	11.29	4.558	4.0731	3.49836
718	490486.72	3860235.12	4.62384	3.59341	8.8643	5.84452	10.55	4.531	4.1409	3.59341
719	490536.72	3860235.12	4.60608	3.74096	9.25393	5.91347	9.751	4.537	4.1786	3.74096
720	490586.72	3860235.12	4.59629	3.90671	9.31009	6.16189	8.996	4.531	4.2434	3.90671
721	490636.72	3860235.12	4.59306	4.1414	9.32027	6.35342	8.362	4.574	4.3018	4.1414
722	490686.72	3860235.12	4.59807	4.4285	9.38418	6.51723	7.989	4.653	4.3717	4.4285
723	490736.72	3860235.12	4.60917	4.7349	9.68561	6.71893	7.661	4.715	4.442	4.7349
724	490786.72	3860235.12	4.6424	5.06179	9.71204	6.83863	7.459	4.76	4.5792	5.06179
725	490086.72	3860285.12	4.85083	2.79854	7.88044	4.77221	14.79	4.611	3.1815	2.79854
726	490136.72	3860285.12	4.82801	2.87631	9.47588	4.90391	14.4	4.543	3.272	2.87631
727	490186.72	3860285.12	4.79669	2.9386	9.70273	5.03664	13.97	4.537	3.3508	2.9386
728	490236.72	3860285.12	4.76341	3.00406	8.91417	5.19546	13.45	4.533	3.4932	3.00406
729	490286.72	3860285.12	4.7233	3.10452	7.22962	5.33507	12.8	4.53	3.6221	3.10452
730	490336.72	3860285.12	4.6838	3.20578	8.14519	5.42301	12.44	4.493	3.732	3.20578
731	490386.72	3860285.12	4.64834	3.30636	9.01474	5.46264	12.09	4.449	3.8195	3.30636
732	490436.72	3860285.12	4.61341	3.39401	9.11733	5.45248	11.58	4.427	3.9144	3.39401
733	490486.72	3860285.12	4.58307	3.47417	8.6024	5.54344	10.96	4.409	4.0111	3.47417
734	490536.72	3860285.12	4.55551	3.54362	8.37589	5.61331	10.23	4.392	4.079	3.54362
735	490586.72	3860285.12	4.53461	3.6288	8.69053	5.65401	9.447	4.394	4.1173	3.6288
736	490636.72	3860285.12	4.52128	3.76541	8.74596	5.86805	8.736	4.383	4.1771	3.76541
737	490686.72	3860285.12	4.51551	3.94538	8.7638	6.06918	8.124	4.375	4.2548	3.94538

50.7858502	6.269352256	0.0011049	0.321743	6.159033	0.69334	28.21497	2.31E+01	6.94E+01
50.3608828	6.556937052	0.0012025	0.323953	5.929732	0.68816	29.12218	2.41E+01	6.88E+01
50.0205332	6.886964201	0.0011886	0.331598	5.630186	0.68054	29.89179	2.54E+01	6.81E+01
49.7894253	7.214571876	0.0010558	0.337302	5.270488	0.67082	30.42263	2.66E+01	6.71E+01
49.6313537	7.557730666	0.0011127	0.341246	4.868192	0.66716	30.69371	2.78E+01	6.59E+01
49.5964005	8.051210737	0.0011069	0.355424	4.463187	0.67426	31.27237	2.96E+01	6.48E+01
49.710859	8.683912064	0.001104	0.367862	4.154652	0.68656	31.76077	3.20E+01	6.34E+01
49.911396	9.337686814	0.001119	0.379829	3.957439	0.70047	32.37564	3.44E+01	6.23E+01
50.2146014	10.04206733	0.0011438	0.392536	3.792529	0.71302	34.21705	3.70E+01	6.24E+01
50.8792325	10.78829918	0.0011407	0.400987	3.693414	0.72995	36.46601	3.97E+01	6.32E+01
51.8668931	11.56062808	0.0012013	0.406723	3.669874	0.7449	38.50235	4.26E+01	6.42E+01
53.0189899	12.33988296	0.0013272	0.410541	3.631831	0.76144	41.14597	4.54E+01	6.59E+01
54.1096318	12.96261089	0.0014281	0.410055	3.55708	0.77811	44.09645	4.77E+01	6.82E+01
51.810655	5.658887913	0.0010929	0.277388	6.966146	0.69596	24.50961	2.08E+01	6.91E+01
51.3425961	5.811776421	0.0011381	0.285784	6.735607	0.69508	25.5394	2.14E+01	6.90E+01
50.8957178	5.958551604	0.0009883	0.296313	6.441843	0.68851	26.4646	2.19E+01	6.88E+01
50.4252592	6.094005133	0.0008743	0.30285	6.150682	0.67673	27.15805	2.24E+01	6.84E+01
49.9784852	6.226780619	0.0010582	0.305958	5.989167	0.67259	27.75152	2.29E+01	6.80E+01
49.560091	6.361994048	0.0010974	0.30668	5.752476	0.66844	28.58291	2.34E+01	6.78E+01
49.233201	6.587115818	0.0010751	0.313658	5.452353	0.66211	29.30222	2.43E+01	6.73E+01
48.98446	6.893262217	0.0009782	0.319198	5.102042	0.6554	29.81385	2.54E+01	6.64E+01
48.8069815	7.199796471	0.0010315	0.323126	4.714021	0.65387	30.08784	2.65E+01	6.53E+01
48.7399967	7.558229336	0.0010297	0.337144	4.336884	0.65462	30.61251	2.78E+01	6.44E+01
48.7964434	8.137554512	0.0010353	0.349256	4.037854	0.66511	31.072	3.00E+01	6.31E+01
48.8834611	8.717286011	0.0010434	0.358703	3.847163	0.67533	31.41011	3.21E+01	6.18E+01
49.1096652	9.35715341	0.0010749	0.371339	3.691515	0.68661	32.4878	3.45E+01	6.13E+01
49.5605084	10.00239536	0.0010726	0.377643	3.591377	0.69318	34.14223	3.68E+01	6.15E+01
50.405748	10.706702	0.0011052	0.381717	3.571584	0.70461	36.10771	3.94E+01	6.25E+01
51.338527	11.37820723	0.0012183	0.381622	3.529166	0.71352	37.79785	4.19E+01	6.32E+01
51.3681589	5.388294833	0.0009523	0.263994	6.951427	0.66126	23.64966	1.98E+01	6.84E+01
50.964998	5.523138877	0.0010808	0.271312	6.76113	0.6619	24.17532	2.03E+01	6.80E+01
50.541387	5.70742512	0.0010237	0.279762	6.517883	0.6646	25.14963	2.10E+01	6.78E+01
50.0827185	5.87963247	0.0008567	0.288505	6.216283	0.66175	26.03629	2.16E+01	6.75E+01
49.6289539	6.023415633	0.0008685	0.294068	5.991207	0.65393	26.81285	2.22E+01	6.72E+01
49.2128552	6.180755231	0.0010003	0.296497	5.824989	0.64703	27.42566	2.28E+01	6.68E+01
48.8364048	6.320549036	0.0010214	0.296442	5.58743	0.64459	28.18018	2.33E+01	6.66E+01
48.521618	6.461210895	0.0009807	0.303144	5.292827	0.64118	28.85945	2.38E+01	6.63E+01
48.2440797	6.63676118	0.0009228	0.307855	4.946455	0.63738	29.33956	2.44E+01	6.57E+01
48.0587759	6.909275063	0.0009634	0.311487	4.572403	0.63821	29.60668	2.54E+01	6.47E+01
47.9566293	7.215402993	0.0009692	0.324572	4.21835	0.63745	30.06581	2.66E+01	6.39E+01
47.9229283	7.648857979	0.0009703	0.334661	3.920887	0.64346	30.47988	2.82E+01	6.28E+01
47.9752015	8.17911034	0.000977	0.343289	3.746336	0.6546	30.97479	3.01E+01	6.18E+01
48.0910163	8.745008366	0.0010083	0.353913	3.59216	0.66322	31.47339	3.22E+01	6.07E+01
48.4377304	9.348749899	0.0010111	0.360219	3.497635	0.66962	32.44507	3.44E+01	6.03E+01
50.612441	5.168695371	0.0008204	0.251372	6.936947	0.64859	22.54229	1.90E+01	6.71E+01
50.3743424	5.31233078	0.0009865	0.258309	6.752239	0.63903	23.18358	1.96E+01	6.70E+01
50.0475567	5.42737578	0.0010101	0.2653	6.550778	0.63821	23.74141	2.00E+01	6.67E+01
49.7003209	5.548275535	0.000928	0.273666	6.305289	0.63773	24.75044	2.04E+01	6.68E+01
49.2818224	5.733817688	0.0007526	0.28102	6.000506	0.63724	25.66374	2.11E+01	6.65E+01
48.8696885	5.920837382	0.000848	0.285652	5.835268	0.632	26.44235	2.18E+01	6.62E+01
48.499707	6.106601166	0.0009385	0.28774	5.668548	0.62581	27.06275	2.25E+01	6.58E+01
48.1352555	6.268484201	0.0009492	0.287204	5.429329	0.62276	27.73479	2.31E+01	6.54E+01
47.8186949	6.416533763	0.0008956	0.291996	5.137094	0.62018	28.42016	2.36E+01	6.51E+01
47.5311402	6.544802751	0.000872	0.295676	4.797062	0.61778	28.90147	2.41E+01	6.46E+01
47.3130745	6.702123879	0.0009047	0.29782	4.429748	0.61809	29.1727	2.47E+01	6.39E+01
47.1739923	6.954432396	0.0009105	0.309094	4.096253	0.61659	29.59647	2.56E+01	6.31E+01
47.1137895	7.286823609	0.0009124	0.319688	3.809565	0.6154	30.14701	2.68E+01	6.25E+01

738	490736.72	3860285.12	4.51451	4.18234	8.78708	6.21397	7.773	4.43	4.3209	4.18234
739	490786.72	3860285.12	4.53035	4.44548	9.11199	6.41525	7.465	4.486	4.3896	4.44548
740	490086.72	3860335.12	4.78119	2.80092	6.91739	4.55329	14.82	4.516	3.1	2.80092
741	490136.72	3860335.12	4.75858	2.78767	8.37608	4.67534	14.35	4.494	3.0772	2.78767
742	490186.72	3860335.12	4.7288	2.84624	9.25532	4.79197	13.97	4.43	3.1769	2.84624
743	490236.72	3860335.12	4.70869	2.90356	9.09365	4.9306	13.55	4.396	3.2667	2.90356
744	490286.72	3860335.12	4.67855	2.96642	7.88508	5.07696	13	4.405	3.4105	2.96642
745	490336.72	3860335.12	4.64491	3.03148	6.70253	5.19999	12.36	4.418	3.5376	3.03148
746	490386.72	3860335.12	4.61138	3.11863	7.90848	5.27694	12.13	4.407	3.6539	3.11863
747	490436.72	3860335.12	4.57795	3.22252	8.39451	5.29909	11.76	4.378	3.7491	3.22252
748	490486.72	3860335.12	4.54541	3.31911	8.45379	5.28568	11.25	4.377	3.8475	3.31911
749	490536.72	3860335.12	4.51748	3.41986	7.97065	5.36724	10.64	4.363	3.9508	3.41986
750	490586.72	3860335.12	4.48975	3.50974	7.93324	5.40693	9.928	4.364	4.0221	3.50974
751	490636.72	3860335.12	4.46861	3.60582	8.20597	5.42224	9.167	4.377	4.076	3.60582
752	490686.72	3860335.12	4.4529	3.70688	8.26533	5.65894	8.497	4.374	4.1292	3.70688
753	490736.72	3860335.12	4.44267	3.81398	8.26309	5.85075	7.897	4.362	4.233	3.81398
754	490786.72	3860335.12	4.44175	3.98714	8.34342	5.99369	7.581	4.387	4.3136	3.98714
755	490086.72	3860385.12	4.6948	3.12374	6.10255	4.36067	14.76	4.344	3.2782	3.12374
756	490136.72	3860385.12	4.68853	3.02221	7.31751	4.46913	14.42	4.374	3.2089	3.02221
757	490186.72	3860385.12	4.66762	2.95175	8.50833	4.56988	13.91	4.368	3.1315	2.95175
758	490236.72	3860385.12	4.64363	2.89184	8.80109	4.6981	13.56	4.328	3.1216	2.89184
759	490286.72	3860385.12	4.61349	2.88725	8.31696	4.80874	13.11	4.269	3.1407	2.88725
760	490336.72	3860385.12	4.59153	2.9471	6.87566	4.96075	12.56	4.301	3.2911	2.9471
761	490386.72	3860385.12	4.56492	2.99445	6.60599	5.07074	12.06	4.317	3.4292	2.99445
762	490436.72	3860385.12	4.53648	3.05238	7.58581	5.1334	11.82	4.329	3.5596	3.05238
763	490486.72	3860385.12	4.50836	3.14695	7.81649	5.14894	11.45	4.345	3.6703	3.14695
764	490536.72	3860385.12	4.47966	3.24284	7.86305	5.13541	10.94	4.37	3.7684	3.24284
765	490586.72	3860385.12	4.4521	3.33733	7.42642	5.20085	10.33	4.37	3.88	3.33733
766	490636.72	3860385.12	4.4258	3.45927	7.53029	5.23408	9.64	4.388	3.9608	3.45927
767	490686.72	3860385.12	4.40551	3.5768	7.77315	5.25056	8.903	4.421	4.0415	3.5768
768	490736.72	3860385.12	4.38642	3.67797	7.82123	5.46594	8.265	4.431	4.0983	3.67797
769	490786.72	3860385.12	4.37368	3.77553	7.81796	5.64794	7.679	4.433	4.1962	3.77553
770	490136.72	3860435.12	4.59608	3.46749	6.47132	4.27206	14.37	4.197	3.4941	3.46749
771	490186.72	3860435.12	4.592	3.35769	7.63063	4.37248	14	4.228	3.3948	3.35769
772	490236.72	3860435.12	4.57977	3.25581	8.29847	4.47531	13.52	4.252	3.2982	3.25581
773	490286.72	3860435.12	4.55968	3.1622	8.36169	4.59914	13.15	4.251	3.2713	3.1622
774	490336.72	3860435.12	4.53186	3.08445	7.46064	4.7073	12.68	4.221	3.2489	3.08445
775	490386.72	3860435.12	4.50337	3.02108	6.20084	4.84745	12.15	4.207	3.2868	3.02108
776	490436.72	3860435.12	4.48348	3.00058	6.48585	4.94556	11.77	4.237	3.373	3.00058
777	490486.72	3860435.12	4.46058	3.04048	7.22211	4.99611	11.52	4.254	3.4918	3.04048
778	490536.72	3860435.12	4.43679	3.11908	7.38198	5.00103	11.14	4.312	3.5893	3.11908
779	490586.72	3860435.12	4.41058	3.2136	7.29207	4.98141	10.63	4.356	3.6885	3.2136
780	490636.72	3860435.12	4.38434	3.31611	6.9757	5.0329	10.03	4.376	3.8111	3.31611
781	490686.72	3860435.12	4.36134	3.41827	7.15006	5.06561	9.357	4.406	3.9105	3.41827
782	490736.72	3860435.12	4.34226	3.51959	7.36597	5.08633	8.642	4.454	3.9931	3.51959
783	490786.72	3860435.12	4.32291	3.63509	7.42342	5.28815	8.045	4.476	4.0536	3.63509
784	490136.72	3860485.12	4.50351	3.95208	5.77107	4.11059	14.29	4.044	3.9633	3.95208
785	490186.72	3860485.12	4.50453	3.85193	6.71569	4.19206	14.01	4.105	3.8579	3.85193
786	490236.72	3860485.12	4.49778	3.75211	7.67809	4.27868	13.58	4.14	3.7452	3.75211
787	490286.72	3860485.12	4.49135	3.64059	8.0775	4.39149	13.13	4.171	3.6374	3.64059
788	490336.72	3860485.12	4.47526	3.5416	7.74191	4.50018	12.74	4.181	3.5978	3.5416
789	490386.72	3860485.12	4.45616	3.43426	6.62908	4.6202	12.29	4.17	3.5445	3.43426
790	490436.72	3860485.12	4.43477	3.32458	5.79072	4.75523	11.78	4.14	3.5489	3.32458
791	490486.72	3860485.12	4.40469	3.2372	6.36374	4.8345	11.51	4.153	3.5689	3.2372
792	490536.72	3860485.12	4.38436	3.15638	6.84248	4.86586	11.23	4.173	3.5806	3.15638
793	490586.72	3860485.12	4.36254	3.15809	6.94234	4.8519	10.83	4.227	3.6244	3.15809
794	490636.72	3860485.12	4.34175	3.23358	6.77612	4.83674	10.34	4.287	3.7017	3.23358

47.1033557	7.724471116	0.0009148	0.327315	3.644787	0.62325	30.61521	2.84E+01	6.16E+01
47.2686266	8.210471137	0.0009486	0.337917	3.500397	0.63113	31.1019	3.02E+01	6.08E+01
49.8858333	5.173091054	0.0007201	0.23984	6.948548	0.63528	21.96434	1.90E+01	6.58E+01
49.6499258	5.148619289	0.000872	0.246269	6.730875	0.63216	21.80286	1.90E+01	6.53E+01
49.3392081	5.256793725	0.0009635	0.252413	6.550726	0.62318	22.5092	1.94E+01	6.52E+01
49.129385	5.362659505	0.0009467	0.259715	6.354615	0.61838	23.14539	1.97E+01	6.51E+01
48.8149112	5.478757253	0.0008209	0.267424	6.095073	0.61963	24.16476	2.02E+01	6.53E+01
48.4639192	5.598918237	0.0006978	0.273905	5.795222	0.62157	25.06538	2.06E+01	6.52E+01
48.1140749	5.759877809	0.0008233	0.277958	5.688393	0.62001	25.88899	2.12E+01	6.51E+01
47.765274	5.951754917	0.0008739	0.279125	5.513285	0.61585	26.56344	2.19E+01	6.48E+01
47.4257592	6.130149468	0.0008801	0.278418	5.274487	0.61576	27.26121	2.26E+01	6.44E+01
47.134344	6.316227229	0.0008298	0.282714	4.988836	0.61377	27.99284	2.33E+01	6.41E+01
46.8450156	6.482228909	0.0008259	0.284805	4.655228	0.61386	28.49796	2.39E+01	6.35E+01
46.6244457	6.659681528	0.0008543	0.285611	4.298624	0.61577	28.87965	2.45E+01	6.28E+01
46.4605312	6.846331836	0.0008605	0.298079	3.98451	0.61525	29.25716	2.52E+01	6.23E+01
46.3537937	7.044137575	0.0008602	0.308183	3.703041	0.61358	29.99233	2.59E+01	6.21E+01
46.3441946	7.363951225	0.0008686	0.315712	3.554933	0.61712	30.56327	2.71E+01	6.16E+01
48.98446	5.769315599	0.0006353	0.229694	6.922063	0.61116	23.22688	2.12E+01	6.45E+01
48.9190402	5.581797236	0.0007618	0.235407	6.763559	0.61532	22.73586	2.06E+01	6.43E+01
48.7008701	5.451662853	0.0008858	0.240714	6.524209	0.61452	22.18752	2.01E+01	6.36E+01
48.450564	5.341013536	0.0009162	0.247468	6.357967	0.60888	22.11787	1.97E+01	6.35E+01
48.1360902	5.332536147	0.0008658	0.253296	6.146372	0.60052	22.25321	1.96E+01	6.31E+01
47.9069646	5.443074649	0.0007158	0.261303	5.891726	0.60509	23.31828	2.00E+01	6.34E+01
47.629322	5.530526579	0.0006877	0.267097	5.655423	0.60734	24.29698	2.04E+01	6.36E+01
47.3325856	5.637518983	0.0007897	0.270397	5.542775	0.60904	25.22084	2.08E+01	6.39E+01
47.039188	5.812182744	0.0008137	0.271216	5.367535	0.6112	26.00554	2.14E+01	6.37E+01
46.7397388	5.989284447	0.0008186	0.270503	5.131111	0.61472	26.7004	2.21E+01	6.34E+01
46.4521842	6.163800454	0.0007731	0.27395	4.845595	0.61479	27.49141	2.27E+01	6.31E+01
46.177776	6.38901457	0.0007839	0.2757	4.520193	0.61728	28.06348	2.35E+01	6.25E+01
45.9660748	6.606083744	0.0008092	0.276568	4.174637	0.62198	28.6352	2.43E+01	6.20E+01
45.7668942	6.792937215	0.0008142	0.287913	3.875566	0.62327	29.03822	2.50E+01	6.14E+01
45.633968	6.973123283	0.0008139	0.2975	3.601056	0.62358	29.73159	2.57E+01	6.12E+01
47.9544383	6.404196299	0.0006737	0.225027	6.740019	0.59044	24.75717	2.36E+01	6.31E+01
47.9118685	6.20140386	0.0007944	0.230316	6.562763	0.59476	24.05324	2.28E+01	6.27E+01
47.7842635	6.013239073	0.0008639	0.235733	6.342034	0.59822	23.36894	2.21E+01	6.22E+01
47.5746491	5.840348361	0.0008705	0.242255	6.164463	0.59795	23.17834	2.15E+01	6.21E+01
47.2843816	5.69674989	0.0007767	0.247953	5.946092	0.59383	23.01956	2.10E+01	6.18E+01
46.9871235	5.57971021	0.0006455	0.255335	5.696004	0.59178	23.28845	2.05E+01	6.19E+01
46.7795958	5.541848234	0.0006752	0.260503	5.520229	0.59601	23.89899	2.04E+01	6.22E+01
46.5406625	5.615540568	0.0007519	0.263165	5.401869	0.59848	24.74031	2.07E+01	6.25E+01
46.2924431	5.760708926	0.0007685	0.263425	5.223497	0.60662	25.43113	2.12E+01	6.24E+01
46.0189741	5.93528034	0.0007591	0.262391	4.98583	0.61283	26.1345	2.19E+01	6.21E+01
45.745192	6.124608691	0.0007262	0.265103	4.702111	0.61553	27.0033	2.25E+01	6.19E+01
45.5052153	6.313290618	0.0007444	0.266826	4.387897	0.61985	27.70759	2.32E+01	6.16E+01
45.3061389	6.500421127	0.0007668	0.267918	4.052615	0.62661	28.29263	2.39E+01	6.11E+01
45.1042455	6.713741042	0.0007728	0.278548	3.772328	0.62969	28.72094	2.47E+01	6.05E+01
46.9885842	7.299198011	0.0006008	0.216522	6.700747	0.56887	28.08127	2.69E+01	6.30E+01
46.9992267	7.114228405	0.0006991	0.220813	6.567734	0.57749	27.33461	2.62E+01	6.26E+01
46.9287987	6.929868284	0.0007993	0.225376	6.366038	0.58235	26.53616	2.55E+01	6.21E+01
46.8617096	6.723899133	0.0008409	0.231318	6.159019	0.58682	25.77257	2.48E+01	6.16E+01
46.6938303	6.541071961	0.000806	0.237043	5.974574	0.58814	25.49164	2.41E+01	6.14E+01
46.4945453	6.342822959	0.0006901	0.243365	5.764635	0.5866	25.11434	2.34E+01	6.12E+01
46.2713669	6.140252151	0.0006028	0.250477	5.524238	0.58238	25.14538	2.26E+01	6.13E+01
45.9575192	5.978867786	0.0006625	0.254653	5.396655	0.58428	25.28709	2.20E+01	6.14E+01
45.7454006	5.829599253	0.0007123	0.256305	5.266445	0.58706	25.37006	2.15E+01	6.16E+01
45.5177358	5.832757496	0.0007227	0.255569	5.079455	0.59461	25.67983	2.15E+01	6.15E+01
45.3008177	5.972181915	0.0007054	0.254771	4.847654	0.6031	26.22781	2.20E+01	6.12E+01

795	490686.72	3860485.12	4.31776	3.30687	6.57108	4.87769	9.739	4.319	3.7966	3.30687
796	490736.72	3860485.12	4.29722	3.40247	6.79896	4.90592	9.086	4.358	3.893	3.40247
797	490786.72	3860485.12	4.27754	3.50748	6.97593	4.92325	8.383	4.407	3.9758	3.50748
798	490136.72	3860535.12	4.40547	4.38997	5.32586	3.95897	14.11	3.913	4.4009	4.38997
799	490186.72	3860535.12	4.41832	4.31162	6.07594	4.04598	13.99	3.982	4.3223	4.31162
800	490236.72	3860535.12	4.41327	4.25418	6.95771	4.10628	13.62	4.007	4.2581	4.25418
801	490286.72	3860535.12	4.40925	4.17241	7.52437	4.18941	13.17	4.042	4.1602	4.17241
802	490336.72	3860535.12	4.40363	4.07261	7.71588	4.30812	12.75	4.069	4.0581	4.07261
803	490386.72	3860535.12	4.39722	3.95791	7.07905	4.4189	12.39	4.094	3.9966	3.95791
804	490436.72	3860535.12	4.38469	3.84096	5.87365	4.54674	11.95	4.095	3.9315	3.84096
805	490486.72	3860535.12	4.36576	3.72721	5.5918	4.66151	11.42	4.075	3.8937	3.72721
806	490536.72	3860535.12	4.35177	3.58345	6.28242	4.76219	11.31	4.06	3.8586	3.58345
807	490586.72	3860535.12	4.31113	3.51503	6.4697	4.74612	10.96	4.071	3.8719	3.51503
808	490636.72	3860535.12	4.29105	3.40526	6.54857	4.72105	10.55	4.083	3.8334	3.40526
809	490686.72	3860535.12	4.27293	3.32804	6.37855	4.70009	10.06	4.134	3.7826	3.32804
810	490736.72	3860535.12	4.25204	3.35717	6.20608	4.73395	9.467	4.174	3.8463	3.35717
811	490786.72	3860535.12	4.23375	3.43122	6.47801	4.7569	8.828	4.22	3.9209	3.43122
812	490136.72	3860585.12	4.31773	4.62912	5.04376	3.83602	13.92	3.776	4.6395	4.62912
813	490186.72	3860585.12	4.30748	4.66655	5.32764	3.85368	13.71	3.833	4.6784	4.66655
814	490236.72	3860585.12	4.31792	4.64609	6.13666	3.93488	13.54	3.906	4.6568	4.64609
815	490286.72	3860585.12	4.32471	4.6086	6.95274	4.0215	13.23	3.956	4.6108	4.6086
816	490336.72	3860585.12	4.32501	4.55909	7.42254	4.11654	12.78	3.982	4.5448	4.55909
817	490386.72	3860585.12	4.32065	4.49386	7.21616	4.22898	12.38	3.986	4.4806	4.49386
818	490436.72	3860585.12	4.32498	4.37964	6.41683	4.35156	12.07	4.007	4.4173	4.37964
819	490486.72	3860585.12	4.32458	4.25216	5.49961	4.5024	11.67	4.028	4.3396	4.25216
820	490536.72	3860585.12	4.30519	4.15826	5.58146	4.5932	11.22	4.011	4.2911	4.15826
821	490586.72	3860585.12	4.26747	4.0955	5.97683	4.59946	10.96	3.952	4.3003	4.0955
822	490636.72	3860585.12	4.24553	3.968	6.07356	4.61697	10.68	3.947	4.2635	3.968
823	490686.72	3860585.12	4.22076	3.84155	6.1933	4.58908	10.27	3.966	4.2049	3.84155
824	490736.72	3860585.12	4.20276	3.71238	6.01075	4.56554	9.779	3.977	4.1271	3.71238
825	490786.72	3860585.12	4.18503	3.60192	5.86997	4.59357	9.2	3.981	4.0786	3.60192
826	490136.72	3860635.12	4.26344	4.56376	4.82382	3.7388	13.8	3.663	4.5753	4.56376
827	490186.72	3860635.12	4.24017	4.68028	5.05904	3.76136	13.63	3.73	4.6978	4.68028
828	490236.72	3860635.12	4.22954	4.76132	5.51895	3.79328	13.44	3.765	4.7792	4.76132
829	490286.72	3860635.12	4.23375	4.81804	6.3133	3.85792	13.19	3.83	4.8313	4.81804
830	490336.72	3860635.12	4.24007	4.84413	6.92621	3.94091	12.85	3.882	4.8466	4.84413
831	490386.72	3860635.12	4.24339	4.84921	7.13617	4.05062	12.4	3.914	4.8347	4.84921
832	490436.72	3860635.12	4.24146	4.8374	6.63942	4.15315	12.03	3.922	4.8279	4.8374
833	490486.72	3860635.12	4.23722	4.80038	5.65627	4.24655	11.66	3.919	4.8387	4.80038
834	490536.72	3860635.12	4.23538	4.73189	5.08066	4.38127	11.24	3.922	4.817	4.73189
835	490586.72	3860635.12	4.21792	4.67398	5.40032	4.45072	10.9	3.882	4.8005	4.67398
836	490636.72	3860635.12	4.20347	4.57911	5.77681	4.5014	10.72	3.842	4.745	4.57911
837	490686.72	3860635.12	4.18389	4.47239	5.83958	4.50525	10.42	3.784	4.7082	4.47239
838	490736.72	3860635.12	4.15925	4.3503	5.8832	4.45952	10	3.789	4.6506	4.3503
839	490786.72	3860635.12	4.13679	4.21713	5.70271	4.43595	9.511	3.795	4.5597	4.21713
840	490136.72	3860685.12	4.19656	4.24504	4.69696	3.63907	13.49	3.5	4.2552	4.24504
841	490186.72	3860685.12	4.19421	4.36089	4.84469	3.67987	13.56	3.601	4.382	4.36089
842	490236.72	3860685.12	4.16682	4.54531	5.10999	3.6953	13.37	3.651	4.5705	4.54531
843	490286.72	3860685.12	4.14503	4.70458	5.62723	3.70763	13.08	3.652	4.7278	4.70458
844	490336.72	3860685.12	4.15554	4.80866	6.31488	3.79034	12.87	3.716	4.8267	4.80866
845	490386.72	3860685.12	4.16153	4.90205	6.84458	3.87458	12.5	3.759	4.9087	4.90205
846	490436.72	3860685.12	4.16186	4.98242	6.70355	3.97801	12.03	3.781	4.9706	4.98242
847	490486.72	3860685.12	4.15952	5.04213	6.00098	4.06454	11.66	3.783	5.0368	5.04213
848	490536.72	3860685.12	4.15819	5.07228	5.05328	4.1625	11.29	3.775	5.1126	5.07228
849	490586.72	3860685.12	4.15277	5.07939	4.79098	4.27322	10.85	3.763	5.1646	5.07939
850	490636.72	3860685.12	4.14751	5.06087	5.28875	4.35593	10.66	3.741	5.1868	5.06087
851	490686.72	3860685.12	4.13881	5.0174	5.55799	4.40293	10.48	3.706	5.1782	5.0174

45.0505116	6.107543098	0.0006841	0.256928	4.566874	0.60757	26.89993	2.25E+01	6.10E+01
44.836202	6.284109192	0.0007078	0.258415	4.260694	0.61307	27.58331	2.31E+01	6.07E+01
44.6308654	6.478054857	0.0007262	0.259328	3.93095	0.62	28.16991	2.39E+01	6.02E+01
45.9656575	8.107948293	0.0005545	0.208535	6.617772	0.55043	31.18196	2.99E+01	6.28E+01
46.0997314	7.963241667	0.0006325	0.213118	6.559954	0.56023	30.6252	2.93E+01	6.27E+01
46.0470409	7.857154256	0.0007243	0.216295	6.386398	0.56369	30.1701	2.89E+01	6.23E+01
46.0050971	7.706131144	0.0007833	0.220673	6.174418	0.56858	29.47645	2.84E+01	6.18E+01
45.9464594	7.521807962	0.0008033	0.226926	5.977908	0.57235	28.75282	2.77E+01	6.13E+01
45.8795789	7.309965587	0.000737	0.232761	5.80815	0.57593	28.31742	2.69E+01	6.12E+01
45.7488438	7.09396763	0.0006115	0.239495	5.601357	0.57611	27.85574	2.61E+01	6.10E+01
45.5513325	6.883879835	0.0005821	0.245541	5.355517	0.57323	27.5882	2.53E+01	6.09E+01
45.4053641	6.6183658	0.000654	0.250844	5.305577	0.57109	27.33986	2.44E+01	6.11E+01
44.9813357	6.491999146	0.0006735	0.249997	5.139364	0.57269	27.43381	2.39E+01	6.10E+01
44.7718256	6.289262115	0.0006817	0.248677	4.948682	0.57432	27.16095	2.32E+01	6.08E+01
44.5827657	6.146642514	0.000664	0.247573	4.715573	0.58152	26.80109	2.26E+01	6.04E+01
44.3648043	6.200443459	0.0006461	0.249356	4.439267	0.58721	27.25256	2.28E+01	6.03E+01
44.1739706	6.337208305	0.0006744	0.250565	4.139515	0.59366	27.78064	2.33E+01	5.99E+01
45.0501986	8.549640568	0.0005251	0.202059	6.526778	0.53113	32.87267	3.15E+01	6.23E+01
44.9432524	8.618770996	0.0005546	0.202989	6.429412	0.53919	33.14801	3.17E+01	6.22E+01
45.052181	8.580982897	0.0006389	0.207266	6.350455	0.54942	32.99497	3.16E+01	6.21E+01
45.1230263	8.511741653	0.0007238	0.211829	6.204856	0.55656	32.66883	3.13E+01	6.19E+01
45.1261564	8.420300363	0.0007727	0.216835	5.992717	0.56015	32.20155	3.10E+01	6.15E+01
45.0806652	8.299825401	0.0007512	0.222758	5.805295	0.5607	31.74681	3.06E+01	6.12E+01
45.1258434	8.088869551	0.000668	0.229214	5.659948	0.5637	31.29809	2.98E+01	6.12E+01
45.1216699	7.853423467	0.0005725	0.23716	5.47255	0.56669	30.74756	2.89E+01	6.11E+01
44.9193591	7.679997146	0.0005811	0.241943	5.262521	0.56429	30.40413	2.83E+01	6.08E+01
44.5257973	7.564084091	0.0006222	0.242272	5.139847	0.55598	30.46932	2.78E+01	6.06E+01
44.2968804	7.328601067	0.0006323	0.243195	5.006022	0.55524	30.20858	2.70E+01	6.07E+01
44.038436	7.095057316	0.0006448	0.241726	4.817807	0.55788	29.79302	2.61E+01	6.04E+01
43.8506281	6.856489927	0.0006258	0.240486	4.585673	0.55954	29.24178	2.52E+01	6.01E+01
43.6656374	6.652478517	0.0006111	0.241962	4.313986	0.56	28.898	2.45E+01	5.98E+01
44.4837492	8.428925506	0.0005022	0.196938	6.470199	0.51524	32.41772	3.10E+01	6.15E+01
44.2409554	8.644129285	0.0005267	0.198126	6.393277	0.52466	33.28589	3.18E+01	6.15E+01
44.1300445	8.793804142	0.0005746	0.199808	6.300966	0.52969	33.86207	3.24E+01	6.14E+01
44.1739706	8.898561766	0.0006573	0.203212	6.186427	0.53876	34.23136	3.28E+01	6.15E+01
44.2399121	8.946748057	0.0007211	0.207584	6.027586	0.54617	34.34005	3.29E+01	6.14E+01
44.2745522	8.956130439	0.0007429	0.213363	5.81502	0.55067	34.25531	3.30E+01	6.11E+01
44.254415	8.934318247	0.0006912	0.218763	5.640122	0.5517	34.20741	3.29E+01	6.09E+01
44.2101758	8.865945059	0.0005889	0.223683	5.466135	0.55127	34.28394	3.26E+01	6.10E+01
44.1909777	8.739449119	0.0005289	0.230779	5.26924	0.55178	34.13047	3.22E+01	6.09E+01
44.0088041	8.632493654	0.0005622	0.234438	5.109001	0.54614	34.01349	3.18E+01	6.08E+01
43.8580361	8.457275815	0.0006014	0.237107	5.027817	0.54046	33.6199	3.11E+01	6.06E+01
43.6537429	8.260171907	0.0006079	0.23731	4.886391	0.53237	33.35922	3.04E+01	6.05E+01
43.3966548	8.034680752	0.0006125	0.234901	4.689515	0.53309	32.95082	2.96E+01	6.03E+01
43.1623124	7.78872566	0.0005937	0.23366	4.459689	0.53387	32.30712	2.87E+01	5.98E+01
43.7859388	7.840273356	0.000489	0.191685	6.324327	0.49234	30.14984	2.89E+01	5.99E+01
43.7614194	8.054239695	0.0005044	0.193834	6.357405	0.50657	31.04798	2.97E+01	6.03E+01
43.4756385	8.394849727	0.000532	0.194647	6.268291	0.51363	32.38329	3.09E+01	6.03E+01
43.2482866	8.689009579	0.0005858	0.195296	6.133768	0.51381	33.49838	3.20E+01	6.03E+01
43.3579455	8.881237603	0.0006574	0.199653	6.03273	0.52278	34.19919	3.27E+01	6.05E+01
43.4204438	9.053721992	0.0007126	0.20409	5.863337	0.52877	34.78012	3.33E+01	6.05E+01
43.423887	9.202159408	0.0006979	0.209538	5.641848	0.53189	35.21828	3.39E+01	6.03E+01
43.3994719	9.31243934	0.0006247	0.214096	5.466111	0.53218	35.68733	3.43E+01	6.03E+01
43.385595	9.368124149	0.0005261	0.219256	5.293	0.53107	36.22447	3.45E+01	6.05E+01
43.329044	9.38125579	0.0004988	0.225088	5.08639	0.52935	36.59327	3.45E+01	6.06E+01
43.2741624	9.347050727	0.0005506	0.229445	4.998261	0.52629	36.75028	3.44E+01	6.07E+01
43.1833886	9.266764868	0.0005786	0.23192	4.916046	0.52129	36.68949	3.41E+01	6.07E+01

852	490736.72	3860685.12	4.1214	4.95599	5.61727	4.39423	10.17	3.658	5.1428	4.95599
853	490786.72	3860685.12	4.10784	4.86453	5.6453	4.368	9.785	3.638	5.11	4.86453
854	490136.72	3860735.12	4.12237	3.91253	4.62329	3.51361	13.03	3.242	3.9012	3.91253
855	490186.72	3860735.12	4.10194	4.02064	4.3657	3.49851	13.03	3.29	4.0214	4.02064
856	490236.72	3860735.12	4.08733	4.13289	4.64424	3.53119	12.97	3.36	4.144	4.13289
857	490286.72	3860735.12	4.07659	4.28064	5.04592	3.58549	12.93	3.429	4.3092	4.28064
858	490336.72	3860735.12	4.06934	4.45198	5.74973	3.63959	12.77	3.493	4.48	4.45198
859	490386.72	3860735.12	4.0776	4.60962	6.38005	3.71792	12.52	3.56	4.6329	4.60962
860	490436.72	3860735.12	4.09239	4.74668	6.6581	3.83681	12.2	3.624	4.7581	4.74668
861	490486.72	3860735.12	4.09102	4.89732	6.24946	3.92706	11.74	3.646	4.8904	4.89732
862	490536.72	3860735.12	4.08327	5.03328	5.39213	3.98618	11.32	3.647	5.0379	5.03328
863	490586.72	3860735.12	4.08123	5.14025	4.67135	4.07951	10.93	3.651	5.1881	5.14025
864	490636.72	3860735.12	4.07769	5.22312	4.68857	4.17777	10.49	3.647	5.3134	5.22312
865	490686.72	3860735.12	4.0766	5.28198	5.14465	4.25881	10.42	3.652	5.4089	5.28198
866	490736.72	3860735.12	4.07329	5.31369	5.32589	4.30295	10.24	3.64	5.474	5.31369
867	490136.72	3860785.12	4.05725	3.70549	4.54609	3.41013	12.6	3.145	3.6862	3.70549
868	490186.72	3860785.12	4.0383	3.8134	4.25286	3.40683	12.71	3.144	3.8048	3.8134
869	490236.72	3860785.12	4.02226	3.92265	4.30043	3.42941	12.71	3.159	3.9239	3.92265
870	490286.72	3860785.12	4.00989	4.02934	4.63926	3.47585	12.68	3.222	4.0382	4.02934
871	490336.72	3860785.12	3.99939	4.13504	5.14792	3.5149	12.6	3.299	4.1481	4.13504
872	490386.72	3860785.12	3.99691	4.22848	5.81386	3.57507	12.46	3.382	4.2414	4.22848
873	490436.72	3860785.12	4.0016	4.32878	6.28349	3.64591	12.17	3.444	4.3366	4.32878
874	490486.72	3860785.12	4.01234	4.42625	6.2619	3.76523	11.81	3.505	4.4396	4.42625
875	490536.72	3860785.12	4.01277	4.62229	5.69534	3.84999	11.39	3.536	4.619	4.62229
876	490586.72	3860785.12	4.00718	4.81308	4.80423	3.90175	10.98	3.538	4.8236	4.81308
877	490636.72	3860785.12	4.00671	4.98065	4.4039	3.99781	10.59	3.538	5.0341	4.98065
878	490686.72	3860785.12	4.00715	5.13335	4.61074	4.09087	10.25	3.529	5.2282	5.13335
879	490736.72	3860785.12	4.00771	5.27159	4.9831	4.16324	10.19	3.523	5.4023	5.27159
880	490086.72	3860835.12	4.02392	3.3329	4.50675	3.38351	12.01	3.097	3.4022	3.3329
881	490136.72	3860835.12	4.00134	3.43537	4.47046	3.34156	12.22	3.08	3.4889	3.43537
882	490186.72	3860835.12	3.97872	3.55052	4.24001	3.32636	12.37	3.087	3.5757	3.55052
883	490236.72	3860835.12	3.96058	3.6644	4.00128	3.33705	12.44	3.096	3.6608	3.6644
884	490286.72	3860835.12	3.94748	3.77563	4.28413	3.38055	12.43	3.11	3.7807	3.77563
885	490336.72	3860835.12	3.9351	3.89226	4.64385	3.4093	12.4	3.117	3.9034	3.89226
886	490386.72	3860835.12	3.92594	4.00694	5.2082	3.43554	12.3	3.152	4.0218	4.00694
887	490436.72	3860835.12	3.92206	4.11799	5.84208	3.50035	12.12	3.223	4.131	4.11799
888	490486.72	3860835.12	3.92863	4.23074	6.06638	3.58885	11.83	3.286	4.2375	4.23074
889	490536.72	3860835.12	3.93358	4.34667	5.7984	3.68927	11.42	3.331	4.3417	4.34667
890	490586.72	3860835.12	3.93506	4.46212	5.1349	3.76662	11.03	3.354	4.4404	4.46212
891	490636.72	3860835.12	3.93586	4.57284	4.39025	3.82623	10.66	3.36	4.5709	4.57284
892	490686.72	3860835.12	3.93905	4.67777	4.19184	3.93092	10.29	3.357	4.7179	4.67777
893	490736.72	3860835.12	3.94358	4.83425	4.54795	4.02131	10.07	3.376	4.9297	4.83425
894	490086.72	3860885.12	3.97003	3.08097	4.4134	3.33805	11.94	3.074	3.2533	3.08097
895	490136.72	3860885.12	3.94424	3.15599	4.39594	3.29215	11.81	3.041	3.3467	3.15599
896	490186.72	3860885.12	3.92131	3.26473	4.20152	3.25172	12.01	3.005	3.4394	3.26473
897	490236.72	3860885.12	3.90247	3.3745	3.90316	3.25563	12.15	3.008	3.5276	3.3745
898	490286.72	3860885.12	3.88661	3.48601	3.96191	3.28951	12.18	3.009	3.6114	3.48601
899	490336.72	3860885.12	3.87276	3.6031	4.27913	3.31131	12.15	3.005	3.687	3.6031
900	490386.72	3860885.12	3.86383	3.71662	4.75036	3.33438	12.13	3.007	3.7563	3.71662
901	490436.72	3860885.12	3.85793	3.83201	5.3443	3.37422	12.03	3.024	3.8448	3.83201
902	490486.72	3860885.12	3.85429	3.95238	5.77324	3.44019	11.81	3.058	3.9625	3.95238
903	490536.72	3860885.12	3.8579	4.07566	5.75842	3.53331	11.49	3.083	4.0798	4.07566
904	490586.72	3860885.12	3.86101	4.20361	5.32922	3.62225	11.07	3.106	4.1958	4.20361
905	490636.72	3860885.12	3.8636	4.33298	4.61622	3.69372	10.71	3.149	4.3061	4.33298
906	490686.72	3860885.12	3.86744	4.45893	4.07879	3.76401	10.36	3.181	4.4551	4.45893
907	490736.72	3860885.12	3.87129	4.58296	4.05462	3.85824	9.987	3.208	4.6243	4.58296
908	490086.72	3860935.12	3.91066	2.93553	4.31584	3.31484	11.78	3.031	3.0911	2.93553

43.0017367	9.153345162	0.0005848	0.231462	4.767806	0.51461	36.43874	3.37E+01	6.04E+01
42.8602547	8.98442534	0.0005877	0.23008	4.588252	0.51178	36.20648	3.31E+01	6.03E+01
43.0118574	7.2261521	0.0004813	0.185076	6.108573	0.45608	27.64141	2.66E+01	5.80E+01
42.7986955	7.425823235	0.0004545	0.184281	6.111114	0.46281	28.49314	2.73E+01	5.81E+01
42.6462581	7.633140642	0.0004835	0.186002	6.082946	0.47266	29.36188	2.81E+01	5.83E+01
42.5341995	7.90602391	0.0005253	0.188862	6.063744	0.48233	30.53252	2.91E+01	5.86E+01
42.4585546	8.222476154	0.0005986	0.191712	5.987798	0.49144	31.74235	3.03E+01	5.88E+01
42.5447376	8.513625517	0.0006642	0.195838	5.870381	0.50087	32.82605	3.13E+01	5.91E+01
42.699053	8.76676515	0.0006931	0.2021	5.722263	0.50985	33.71271	3.23E+01	5.93E+01
42.6847587	9.044986033	0.0006506	0.206854	5.504422	0.51296	34.64997	3.33E+01	5.93E+01
42.603897	9.296094048	0.0005614	0.209968	5.307785	0.51303	35.69527	3.42E+01	5.94E+01
42.5826121	9.493659687	0.0004863	0.214884	5.126229	0.51362	36.75921	3.50E+01	5.97E+01
42.5456766	9.646714417	0.0004881	0.22006	4.921002	0.51297	37.64743	3.55E+01	6.00E+01
42.5343038	9.755424462	0.0005356	0.224329	4.886175	0.5137	38.32422	3.59E+01	6.03E+01
42.499768	9.813990475	0.0005545	0.226654	4.803688	0.512	38.78534	3.61E+01	6.05E+01
42.3324104	6.843764609	0.0004733	0.179625	5.906717	0.44249	26.11834	2.52E+01	5.66E+01
42.1346904	7.043066359	0.0004427	0.179452	5.959236	0.4423	26.95852	2.59E+01	5.68E+01
41.9673328	7.244842988	0.0004477	0.180641	5.958922	0.44444	27.80239	2.67E+01	5.69E+01
41.838267	7.441891488	0.000483	0.183087	5.945356	0.45332	28.61217	2.74E+01	5.71E+01
41.7287125	7.637111532	0.0005359	0.185144	5.909179	0.46413	29.39086	2.81E+01	5.72E+01
41.7028367	7.809688267	0.0006053	0.188314	5.843727	0.47579	30.05213	2.88E+01	5.73E+01
41.7517711	7.994934912	0.0006541	0.192045	5.706268	0.48444	30.72616	2.94E+01	5.74E+01
41.8638298	8.174954757	0.0006519	0.19833	5.539849	0.4931	31.4561	3.01E+01	5.76E+01
41.8683163	8.537026066	0.0005929	0.202795	5.33909	0.49742	32.72728	3.14E+01	5.77E+01
41.8099915	8.889401015	0.0005001	0.205521	5.147171	0.49771	34.17702	3.27E+01	5.80E+01
41.8050877	9.198890349	0.0004585	0.210581	4.966178	0.49775	35.66827	3.39E+01	5.85E+01
41.8096785	9.4809159	0.00048	0.215483	4.808302	0.49639	37.04375	3.49E+01	5.89E+01
41.8155214	9.736234905	0.0005188	0.219295	4.776059	0.49567	38.27696	3.58E+01	5.95E+01
41.9846528	6.155618573	0.0004692	0.178223	5.631841	0.4357	24.10596	2.27E+01	5.58E+01
41.7490583	6.344873047	0.0004654	0.176014	5.729091	0.43329	24.72033	2.34E+01	5.58E+01
41.5130465	6.557546538	0.0004414	0.175213	5.801215	0.43433	25.33498	2.41E+01	5.57E+01
41.3237779	6.767874433	0.0004166	0.175776	5.831076	0.43559	25.93781	2.49E+01	5.56E+01
41.1870955	6.973307976	0.000446	0.178067	5.827559	0.43751	26.78762	2.57E+01	5.57E+01
41.0579254	7.188714917	0.0004835	0.179582	5.812835	0.43848	27.65671	2.65E+01	5.59E+01
40.9623521	7.400520353	0.0005422	0.180964	5.765962	0.44336	28.49605	2.72E+01	5.60E+01
40.9218691	7.605621449	0.0006082	0.184378	5.681988	0.4534	29.26948	2.80E+01	5.61E+01
40.990419	7.813862319	0.0006315	0.189039	5.546085	0.46231	30.02393	2.88E+01	5.63E+01
41.0420661	8.027976412	0.0006036	0.194329	5.356984	0.46865	30.76251	2.96E+01	5.63E+01
41.0575081	8.241203981	0.0005346	0.198403	5.171653	0.47182	31.46198	3.03E+01	5.63E+01
41.0658551	8.445695591	0.0004571	0.201543	4.998927	0.47269	32.38655	3.11E+01	5.65E+01
41.0991388	8.639493502	0.0004364	0.207058	4.825066	0.47231	33.42781	3.18E+01	5.69E+01
41.1464038	8.928500431	0.0004735	0.211819	4.720258	0.47497	34.92835	3.29E+01	5.75E+01
41.422377	5.690322588	0.0004595	0.175829	5.596762	0.43243	23.05109	2.10E+01	5.54E+01
41.1532901	5.828878952	0.0004576	0.173411	5.539	0.42779	23.71286	2.15E+01	5.54E+01
40.9140438	6.02971365	0.0004374	0.171281	5.633797	0.42275	24.36918	2.22E+01	5.53E+01
40.7174716	6.232450681	0.0004063	0.171487	5.695807	0.42317	24.99418	2.29E+01	5.53E+01
40.551992	6.438401363	0.0004125	0.173272	5.713438	0.42327	25.58779	2.37E+01	5.52E+01
40.4074843	6.65465789	0.0004455	0.17442	5.695272	0.42275	26.12351	2.45E+01	5.50E+01
40.3143107	6.864320892	0.0004945	0.175635	5.689626	0.42307	26.61488	2.53E+01	5.48E+01
40.2527515	7.077437645	0.0005564	0.177734	5.641023	0.42543	27.24165	2.61E+01	5.48E+01
40.2147726	7.299752088	0.000601	0.181209	5.538963	0.43022	28.07567	2.69E+01	5.49E+01
40.2524385	7.527441085	0.0005995	0.186114	5.387516	0.43366	28.90714	2.77E+01	5.50E+01
40.2848875	7.763755225	0.0005548	0.190799	5.190002	0.43696	29.72847	2.86E+01	5.50E+01
40.3119109	8.002691999	0.0004806	0.194563	5.020666	0.44292	30.51013	2.95E+01	5.50E+01
40.3519766	8.235312288	0.0004246	0.198266	4.856971	0.44746	31.5662	3.03E+01	5.53E+01
40.3921466	8.464386479	0.0004221	0.203229	4.683096	0.4513	32.76512	3.12E+01	5.58E+01
40.8029241	5.421705719	0.0004493	0.174606	5.525636	0.42645	21.90149	2.00E+01	5.43E+01

909	490136.72	3860935.12	3.88389	2.99044	4.33375	3.23551	11.61	2.983	3.1685	2.99044
910	490186.72	3860935.12	3.86248	3.06792	4.16938	3.19778	11.61	2.939	3.2629	3.06792
911	490236.72	3860935.12	3.84366	3.14585	3.88914	3.17276	11.81	2.894	3.3569	3.14585
912	490286.72	3860935.12	3.82802	3.2235	3.67913	3.20655	11.92	2.875	3.4481	3.2235
913	490336.72	3860935.12	3.813	3.30263	3.94551	3.22209	11.92	2.86	3.5335	3.30263
914	490386.72	3860935.12	3.80352	3.40246	4.31016	3.24077	11.93	2.872	3.6144	3.40246
915	490436.72	3860935.12	3.79628	3.51324	4.81797	3.26045	11.89	2.887	3.6879	3.51324
916	490486.72	3860935.12	3.789	3.6314	5.38829	3.31563	11.74	2.896	3.7524	3.6314
917	490536.72	3860935.12	3.78815	3.75243	5.59819	3.38661	11.51	2.941	3.8089	3.75243
918	490586.72	3860935.12	3.79008	3.88098	5.39605	3.47924	11.16	2.976	3.8801	3.88098
919	490636.72	3860935.12	3.79282	4.009	4.86363	3.56017	10.73	3.004	3.9981	4.009
920	490686.72	3860935.12	3.79725	4.14035	4.16561	3.62878	10.41	3.062	4.1116	4.14035
921	490736.72	3860935.12	3.80146	4.27499	3.88856	3.70273	10.07	3.127	4.2735	4.27499
922	490786.72	3860935.12	3.80565	4.41082	3.99465	3.78679	9.695	3.179	4.4521	4.41082
923	490836.72	3860935.12	3.81205	4.55533	4.32749	3.85745	9.648	3.222	4.6309	4.55533
924	490086.72	3860985.12	3.84582	2.90329	4.20141	3.2938	11.61	3.016	3.0435	2.90329
925	490136.72	3860985.12	3.82383	2.94561	4.28697	3.20385	11.53	2.978	3.1047	2.94561
926	490186.72	3860985.12	3.80465	3.00109	4.17872	3.15914	11.35	2.937	3.1778	3.00109
927	490236.72	3860985.12	3.78462	3.05916	3.8968	3.12211	11.46	2.88	3.2479	3.05916
928	490286.72	3860985.12	3.76785	3.113	3.57302	3.1201	11.61	2.821	3.3154	3.113
929	490336.72	3860985.12	3.75384	3.16596	3.64171	3.13692	11.68	2.79	3.3792	3.16596
930	490386.72	3860985.12	3.74283	3.22049	3.95665	3.14761	11.69	2.795	3.437	3.22049
931	490436.72	3860985.12	3.73623	3.27811	4.42843	3.16129	11.71	2.804	3.5039	3.27811
932	490486.72	3860985.12	3.72821	3.36127	4.9481	3.20437	11.64	2.811	3.5796	3.36127
933	490536.72	3860985.12	3.72152	3.4445	5.32443	3.25737	11.46	2.825	3.6467	3.4445
934	490586.72	3860985.12	3.7221	3.53271	5.336	3.33648	11.19	2.861	3.7059	3.53271
935	490636.72	3860985.12	3.72588	3.65361	5.00787	3.42891	10.85	2.908	3.7589	3.65361
936	490686.72	3860985.12	3.72875	3.77999	4.41923	3.50365	10.44	2.95	3.8032	3.77999
937	490736.72	3860985.12	3.73225	3.90936	3.85705	3.56182	10.12	3.026	3.8768	3.90936
938	490786.72	3860985.12	3.73766	4.04509	3.70035	3.6419	9.785	3.098	4.041	4.04509
939	490836.72	3860985.12	3.74467	4.18375	3.94536	3.7245	9.494	3.161	4.2209	4.18375
940	490086.72	3861035.12	3.81998	2.98186	4.06472	3.2696	11.4	2.954	3.1006	2.98186
941	490136.72	3861035.12	3.7525	3.00387	4.20526	3.18607	11.4	2.924	3.1373	3.00387
942	490186.72	3861035.12	3.73675	3.02838	4.15751	3.11082	11.27	2.882	3.1771	3.02838
943	490236.72	3861035.12	3.72204	3.0609	3.94229	3.08445	11.13	2.835	3.2283	3.0609
944	490286.72	3861035.12	3.70634	3.08979	3.60388	3.05528	11.29	2.78	3.2657	3.08979
945	490336.72	3861035.12	3.69256	3.11824	3.3669	3.05257	11.41	2.754	3.3093	3.11824
946	490386.72	3861035.12	3.68341	3.17152	3.64474	3.06524	11.47	2.732	3.3798	3.17152
947	490436.72	3861035.12	3.6762	3.23238	4.0255	3.07273	11.5	2.742	3.4436	3.23238
948	490486.72	3861035.12	3.66841	3.29117	4.47708	3.10377	11.48	2.75	3.5006	3.29117
949	490536.72	3861035.12	3.66165	3.35029	4.98684	3.15091	11.38	2.76	3.5486	3.35029
950	490586.72	3861035.12	3.6601	3.40326	5.17975	3.20453	11.18	2.769	3.5867	3.40326
951	490636.72	3861035.12	3.6603	3.45688	5.03357	3.293	10.9	2.787	3.6152	3.45688
952	490686.72	3861035.12	3.66211	3.50744	4.60042	3.37402	10.54	2.844	3.6317	3.50744
953	490736.72	3861035.12	3.66546	3.56715	4.01576	3.44338	10.16	2.918	3.6699	3.56715
954	490786.72	3861035.12	3.67129	3.65505	3.61179	3.50128	9.851	3.001	3.7175	3.65505
955	490836.72	3861035.12	3.67803	3.78456	3.56763	3.58892	9.525	3.078	3.8172	3.78456
956	490086.72	3861085.12	3.8084	3.02667	3.91435	3.24735	11.32	2.941	3.1368	3.02667
957	490136.72	3861085.12	3.73579	3.05879	4.10448	3.17209	11.24	2.915	3.1827	3.05879
958	490186.72	3861085.12	3.66667	3.09329	4.12665	3.09763	11.21	2.882	3.2257	3.09329
959	490236.72	3861085.12	3.65244	3.12426	3.96444	3.04902	11.03	2.829	3.278	3.12426
960	490286.72	3861085.12	3.64006	3.15521	3.67912	3.0162	10.98	2.791	3.3286	3.15521
961	490336.72	3861085.12	3.62901	3.19417	3.33111	2.99168	11.13	2.762	3.3778	3.19417
962	490386.72	3861085.12	3.62122	3.23862	3.36033	2.98752	11.24	2.738	3.4305	3.23862
963	490436.72	3861085.12	3.61318	3.27838	3.66053	2.98443	11.27	2.703	3.4754	3.27838
964	490486.72	3861085.12	3.60682	3.31665	4.10326	3.00534	11.27	2.682	3.5141	3.31665
965	490536.72	3861085.12	3.60503	3.35709	4.59814	3.05404	11.26	2.698	3.5469	3.35709

40.5236121	5.523120407	0.0004512	0.170427	5.444171	0.41969	22.44961	2.03E+01	5.42E+01
40.3002251	5.666220208	0.0004341	0.16844	5.445981	0.41339	23.11904	2.09E+01	5.43E+01
40.1038616	5.810151126	0.0004049	0.167122	5.538723	0.40706	23.78464	2.14E+01	5.44E+01
39.9406774	5.953564904	0.000383	0.168902	5.591008	0.40447	24.43096	2.19E+01	5.46E+01
39.7839622	6.099712133	0.0004108	0.169721	5.58826	0.4023	25.03641	2.25E+01	5.46E+01
39.6850501	6.284090723	0.0004487	0.170705	5.592471	0.40405	25.60904	2.31E+01	5.46E+01
39.6095096	6.488693149	0.0005016	0.171741	5.577081	0.40608	26.13031	2.39E+01	5.45E+01
39.5335518	6.706925886	0.000561	0.174648	5.507264	0.40741	26.58675	2.47E+01	5.42E+01
39.5246831	6.9304593	0.0005828	0.178387	5.395726	0.41376	26.98708	2.55E+01	5.39E+01
39.5448202	7.167881595	0.0005618	0.183266	5.234076	0.41868	27.49219	2.64E+01	5.37E+01
39.5734088	7.40432502	0.0005063	0.187529	5.033107	0.42264	28.32805	2.73E+01	5.37E+01
39.6196304	7.646918707	0.0004337	0.191143	4.88219	0.4308	29.13224	2.82E+01	5.37E+01
39.6635565	7.89558878	0.0004048	0.195038	4.720314	0.43995	30.27957	2.91E+01	5.41E+01
39.707274	8.146456694	0.0004159	0.199466	4.546378	0.44726	31.54466	3.00E+01	5.46E+01
39.7740501	8.413355923	0.0004505	0.203188	4.524184	0.45323	32.81153	3.10E+01	5.52E+01
40.1263985	5.362160835	0.0004374	0.173498	5.44629	0.42434	21.56458	1.97E+01	5.34E+01
39.8969599	5.440322729	0.0004463	0.16876	5.407271	0.41897	21.99799	2.00E+01	5.33E+01
39.6968402	5.542790166	0.000435	0.166405	5.323555	0.41318	22.51579	2.04E+01	5.33E+01
39.4878518	5.65004114	0.0004057	0.164454	5.374278	0.40514	23.01233	2.08E+01	5.33E+01
39.3128775	5.749479618	0.000372	0.164348	5.445301	0.39681	23.49081	2.12E+01	5.34E+01
39.1667004	5.847292801	0.0003791	0.165234	5.478191	0.39252	23.94285	2.15E+01	5.35E+01
39.0518246	5.948005658	0.0004119	0.165797	5.482767	0.39315	24.35239	2.19E+01	5.35E+01
38.9829618	6.054425515	0.000461	0.166518	5.492558	0.39445	24.82668	2.23E+01	5.36E+01
38.8992829	6.208015854	0.0005151	0.168787	5.456339	0.39544	25.36283	2.29E+01	5.36E+01
38.829481	6.361735478	0.0005543	0.171579	5.372787	0.39737	25.83783	2.34E+01	5.35E+01
38.8355326	6.524652792	0.0005555	0.175746	5.247923	0.40254	26.25764	2.40E+01	5.34E+01
38.8749722	6.747946105	0.0005213	0.180615	5.0888	0.40907	26.63302	2.48E+01	5.31E+01
38.9049172	6.981360572	0.0004601	0.184552	4.89689	0.41506	26.94712	2.57E+01	5.26E+01
38.9414353	7.220297346	0.0004015	0.187616	4.74572	0.4257	27.46853	2.66E+01	5.24E+01
38.997882	7.470980568	0.0003852	0.191834	4.588365	0.43585	28.63201	2.75E+01	5.28E+01
39.0710228	7.727075281	0.0004107	0.196185	4.451689	0.44468	29.90653	2.84E+01	5.33E+01
39.8567899	5.507273785	0.0004232	0.172223	5.346359	0.41552	21.96866	2.03E+01	5.30E+01
39.1527192	5.547924619	0.0004378	0.167823	5.344947	0.41129	22.2289	2.04E+01	5.24E+01
38.9883873	5.593192767	0.0004328	0.16386	5.286074	0.40548	22.51055	2.06E+01	5.24E+01
38.8349066	5.65325479	0.0004104	0.162471	5.219933	0.39881	22.87367	2.08E+01	5.23E+01
38.6710964	5.706612473	0.0003752	0.160934	5.294674	0.39102	23.13888	2.10E+01	5.24E+01
38.527319	5.759157508	0.0003505	0.160791	5.349022	0.38747	23.44723	2.12E+01	5.24E+01
38.4318501	5.857561708	0.0003794	0.161459	5.379816	0.38434	23.94689	2.16E+01	5.26E+01
38.3566226	5.969965604	0.0004191	0.161853	5.390521	0.38567	24.39943	2.20E+01	5.27E+01
38.2753435	6.078546365	0.0004661	0.163488	5.385077	0.38686	24.8033	2.24E+01	5.27E+01
38.2048112	6.18773661	0.0005192	0.165971	5.335733	0.38827	25.14325	2.28E+01	5.26E+01
38.1886389	6.285568263	0.0005392	0.168796	5.243515	0.38947	25.41328	2.31E+01	5.25E+01
38.1907256	6.384600418	0.000524	0.173456	5.111088	0.39211	25.61521	2.35E+01	5.24E+01
38.2096108	6.47798098	0.0004789	0.177723	4.941841	0.40005	25.7319	2.39E+01	5.21E+01
38.2445639	6.588260912	0.0004181	0.181377	4.763849	0.41053	26.00221	2.43E+01	5.19E+01
38.3053928	6.750605678	0.000376	0.184427	4.619253	0.42223	26.34004	2.49E+01	5.18E+01
38.3757164	6.989801022	0.0003714	0.189043	4.466676	0.43303	27.0461	2.57E+01	5.18E+01
39.7359669	5.590034524	0.0004075	0.171051	5.306266	0.4137	22.22557	2.06E+01	5.29E+01
38.9783709	5.649357777	0.0004273	0.167087	5.270755	0.4101	22.55044	2.08E+01	5.22E+01
38.2571888	5.713076713	0.0004296	0.163165	5.257339	0.40544	22.85496	2.10E+01	5.16E+01
38.1087162	5.770276001	0.0004127	0.160604	5.172394	0.39797	23.22588	2.12E+01	5.16E+01
37.9795462	5.82743835	0.000383	0.158876	5.147401	0.39267	23.58462	2.15E+01	5.16E+01
37.864253	5.899394575	0.0003468	0.157584	5.219174	0.38855	23.933	2.17E+01	5.17E+01
37.7829739	5.981490421	0.0003498	0.157365	5.272082	0.38515	24.30647	2.20E+01	5.19E+01
37.6990864	6.054924185	0.0003811	0.157202	5.284827	0.38023	24.62446	2.23E+01	5.19E+01
37.6327277	6.125606031	0.0004272	0.158304	5.285502	0.37728	24.89831	2.26E+01	5.19E+01
37.6140512	6.200295705	0.0004787	0.160869	5.278103	0.37956	25.13107	2.28E+01	5.19E+01

966	490586.72	3861085.12	3.60158	3.38573	4.93772	3.10026	11.12	2.709	3.5669	3.38573	37.5780547	6.253191656	0.000514	0.163303	5.216459	0.38104	25.27284	2.30E+01	5.18E+01
967	490636.72	3861085.12	3.59848	3.40257	4.95955	3.16161	10.9	2.717	3.5645	3.40257	37.54571	6.284293885	0.0005163	0.166535	5.109601	0.38219	25.2557	2.31E+01	5.16E+01
968	490686.72	3861085.12	3.59876	3.44187	4.69265	3.24534	10.6	2.772	3.5978	3.44187	37.5486315	6.356878064	0.0004885	0.170945	4.972236	0.38996	25.49171	2.34E+01	5.15E+01
969	490736.72	3861085.12	3.60188	3.50418	4.2155	3.32409	10.24	2.861	3.6272	3.50418	37.5811848	6.471960002	0.0004389	0.175093	4.804035	0.4025	25.70016	2.38E+01	5.13E+01
970	490786.72	3861085.12	3.60655	3.56531	3.6756	3.39066	9.9	2.948	3.6511	3.56531	37.6299106	6.584862569	0.0003827	0.1786	4.642272	0.4147	25.86915	2.42E+01	5.11E+01
971	490836.72	3861085.12	3.61218	3.62776	3.45011	3.45611	9.589	3.029	3.674	3.62776	37.6886527	6.700203077	0.0003592	0.182047	4.496424	0.42604	26.03169	2.47E+01	5.09E+01
972	490086.72	3861135.12	3.83459	3.01651	3.75273	3.22275	11.21	2.9	3.1213	3.01651	40.0092273	5.57126976	0.0003907	0.169755	5.256598	0.40794	22.11539	2.05E+01	5.30E+01
973	490136.72	3861135.12	3.72778	3.04957	3.97503	3.14866	11.08	2.875	3.1679	3.04957	38.8947964	5.632329122	0.0004138	0.165853	5.195934	0.40451	22.44564	2.07E+01	5.20E+01
974	490186.72	3861135.12	3.65995	3.08563	4.04677	3.07647	11.05	2.842	3.2154	3.08563	38.1870738	5.698929262	0.0004213	0.16205	5.182908	0.39985	22.78248	2.10E+01	5.14E+01
975	490236.72	3861135.12	3.59106	3.1237	3.95378	3.01188	10.97	2.822	3.2639	3.1237	37.4682915	5.769241722	0.0004116	0.158648	5.142604	0.39703	23.12591	2.12E+01	5.08E+01
976	490286.72	3861135.12	3.57969	3.16098	3.72475	2.9855	10.77	2.8	3.3242	3.16098	37.3496595	5.838095111	0.0003878	0.157258	5.049008	0.3939	23.55301	2.15E+01	5.08E+01
977	490336.72	3861135.12	3.57049	3.20175	3.41543	2.95284	10.84	2.768	3.3824	3.20175	37.2536688	5.913394271	0.0003556	0.155538	5.082123	0.38946	23.96574	2.18E+01	5.10E+01
978	490386.72	3861135.12	3.56314	3.24949	3.16989	2.92868	10.98	2.734	3.4398	3.24949	37.1769806	6.001566503	0.00033	0.154266	5.149849	0.38466	24.37194	2.21E+01	5.11E+01
979	490436.72	3861135.12	3.5561	3.29647	3.36472	2.90937	11.05	2.699	3.4935	3.29647	37.1035269	6.088335071	0.0003503	0.153248	5.179724	0.37965	24.75257	2.24E+01	5.12E+01
980	490486.72	3861135.12	3.55099	3.34251	3.73723	2.91852	11.07	2.681	3.5435	3.34251	37.0502103	6.173367529	0.0003891	0.15373	5.190044	0.37711	25.10961	2.27E+01	5.13E+01
981	490536.72	3861135.12	3.54721	3.38787	4.16783	2.95746	11.07	2.664	3.5875	3.38787	37.0107707	6.257144077	0.0004339	0.155781	5.190218	0.37482	25.41852	2.30E+01	5.14E+01
982	490586.72	3861135.12	3.54382	3.43059	4.62305	2.99981	11.01	2.672	3.6212	3.43059	36.9754002	6.336044742	0.0004813	0.158012	5.162134	0.37589	25.65779	2.33E+01	5.13E+01
983	490636.72	3861135.12	3.54022	3.46077	4.80207	3.04401	10.85	2.702	3.6444	3.46077	36.9378386	6.391784959	0.0004999	0.16034	5.08865	0.38017	25.82175	2.35E+01	5.12E+01
984	490686.72	3861135.12	3.5402	3.4995	4.70184	3.12481	10.63	2.753	3.6605	3.4995	36.93763	6.46331639	0.0004895	0.164596	4.985286	0.38726	25.93568	2.38E+01	5.11E+01
985	490736.72	3861135.12	3.54241	3.53744	4.3521	3.20845	10.34	2.806	3.6709	3.53744	36.9606886	6.53338875	0.0004531	0.169002	4.848554	0.39472	26.00979	2.41E+01	5.09E+01
986	490786.72	3861135.12	3.54578	3.57243	3.86451	3.29004	9.976	2.876	3.6775	3.57243	36.9958504	6.598012679	0.0004023	0.1733	4.677985	0.40455	26.05613	2.43E+01	5.06E+01
987	490836.72	3861135.12	3.54978	3.60549	3.42326	3.35971	9.651	2.95	3.6716	3.60549	37.0375855	6.659072042	0.0003564	0.17697	4.525398	0.41498	26.0144	2.45E+01	5.03E+01
988	490086.72	3861185.12	3.86289	2.95778	3.58506	3.19866	11.11	2.821	3.0605	2.95778	40.304503	5.462799815	0.0003732	0.168486	5.207357	0.39679	21.68461	2.01E+01	5.31E+01
989	490136.72	3861185.12	3.71633	2.99539	3.82609	3.11629	10.97	2.796	3.1076	2.99539	38.7753297	5.532262689	0.0003983	0.164148	5.142716	0.39335	22.01825	2.04E+01	5.17E+01
990	490186.72	3861185.12	3.64562	3.03207	3.93878	3.04481	10.84	2.793	3.1574	3.03207	38.0375579	5.600007923	0.0004101	0.160383	5.083834	0.39285	22.37118	2.06E+01	5.10E+01
991	490236.72	3861185.12	3.58222	3.07201	3.90124	2.98555	10.83	2.782	3.2078	3.07201	37.3760569	5.673774134	0.0004061	0.157261	5.076271	0.3913	22.72814	2.09E+01	5.05E+01
992	490286.72	3861185.12	3.51925	3.11326	3.73425	2.94799	10.72	2.767	3.2632	3.11326	36.7190425	5.749959818	0.0003888	0.155283	5.025473	0.38927	23.12074	2.12E+01	5.00E+01
993	490336.72	3861185.12	3.50304	3.15289	3.45946	2.9125	10.52	2.738	3.3253	3.15289	36.5499111	5.823153483	0.0003602	0.153413	4.932744	0.3851	23.5606	2.14E+01	5.00E+01
994	490386.72	3861185.12	3.49944	3.19657	3.16145	2.88606	10.67	2.711	3.3875	3.19657	36.5123495	5.903827196	0.0003291	0.152021	5.003138	0.38141	24.00159	2.17E+01	5.02E+01
995	490436.72	3861185.12	3.49688	3.24834	3.16793	2.87189	10.8	2.695	3.4481	3.24834	36.4856391	5.999442538	0.0003298	0.151274	5.065354	0.37907	24.43103	2.21E+01	5.04E+01
996	490486.72	3861185.12	3.49267	3.3003	3.37825	2.8573	10.84	2.68	3.5047	3.3003	36.4417129	6.095408796	0.0003517	0.150506	5.083567	0.377	24.83199	2.24E+01	5.05E+01
997	490536.72	3861185.12	3.49285	3.34963	3.81861	2.88981	10.89	2.699	3.5576	3.34963	36.443591	6.18651764	0.0003975	0.152218	5.104964	0.37965	25.20674	2.28E+01	5.07E+01
998	490586.72	3861185.12	3.48861	3.40051	4.27469	2.92217	10.87	2.722	3.6058	3.40051	36.3993518	6.280489218	0.000445	0.153923	5.096153	0.38299	25.54818	2.31E+01	5.07E+01
999	490636.72	3861185.12	3.48298	3.44576	4.57076	2.95648	10.76	2.749	3.6404	3.44576	36.3406097	6.364062604	0.0004758	0.15573	5.044637	0.38678	25.79333	2.34E+01	5.07E+01
1000	490686.72	3861185.12	3.48205	3.48975	4.6196	3.01735	10.6	2.783	3.6694	3.48975	36.3309063	6.445308865	0.0004809	0.158936	4.970375	0.39146	25.99895	2.37E+01	5.06E+01
1001	490736.72	3861185.12	3.48494	3.54107	4.42051	3.11189	10.38	2.819	3.7001	3.54107	36.3610599	6.54009309	0.0004602	0.163916	4.869369	0.39655	26.21669	2.41E+01	5.05E+01
1002	490786.72	3861185.12	3.48803	3.58858	4.0281	3.1983	10.09	2.849	3.7199	3.58858	36.3933002	6.627840529	0.0004193	0.168467	4.729819	0.40072	26.35698	2.44E+01	5.03E+01
1003	490836.72	3861185.12	3.49143	3.63234	3.53015	3.27256	9.716	2.877	3.7322	3.63234	36.428775	6.708661996	0.0003675	0.172379	4.555916	0.40478	26.4442	2.47E+01	5.00E+01
1004	490086.72	3861235.12	3.89873	2.85908	3.41294	3.17213	10.96	2.728	2.96	2.85908	40.6784493	5.280508251	0.0003553	0.167089	5.137699	0.38377	20.97267	1.94E+01	5.32E+01
1005	490136.72	3861235.12	3.7459	2.89906	3.67533	3.0933	10.85	2.711	3.007	2.89906	39.0838563	5.354348339	0.0003826	0.162937	5.086395	0.38135	21.30596	1.97E+01	5.17E+01
1006	490186.72	3861235.12	3.62404	2.93807	3.82559	3.02511	10.75	2.719	3.0583	2.93807	37.8123972	5.42639691	0.0003983	0.159345	5.042335	0.38245	21.6693	2.00E+01	5.05E+01
1007	490236.72	3861235.12	3.56557	2.97819	3.8287	2.96022	10.66	2.713	3.1093	2.97819	37.2023347	5.500495568	0.0003986	0.155927	4.996789	0.38161	22.03016	2.03E+01	5.00E+01
1008	490386.72	3861235.12	3.42861	3.10835	3.21147	2.84955	10.36	2.662	3.2844	3.10835	35.7733256	5.740891413	0.0003343	0.150097	4.856816	0.37442	23.2713	2.11E+01	4.90E+01
1009	490436.72	3861235.12	3.42813	3.15149	2.99938	2.82277	10.49	2.662	3.3478	3.15149	35.7683174	5.820567787	0.0003123	0.148687	4.919924	0.37454	23.72016	2.14E+01	4.93E+01
1010	490486.72	3861235.12	3.42727	3.2055	3.16873	2.80944	10.58	2.693	3.4088	3.2055	35.7593444	5.920320242	0.0003299	0.147985	4.961821	0.37878	24.15229	2.18E+01	4.95E+01
1011	490536.72	3861235.12	3.43146	3.25804	3.48027	2.82444	10.67	2.737	3.4679	3.25804	35.8030619	6.017357717	0.0003623	0.148775	5.003654	0.38507	24.57111	2.22E+01	4.98E+01
1012	490586.72	3861235.12	3.43355	3.30459	3.90836	2.86776	10.7	2.772	3.5193	3.30459	35.8248685	6.103332107	0.0004069	0.151057	5.018476	0.38997	24.93572	2.25E+01	5.00E+01
1013	490636.72	3861235.12	3.42561	3.36601	4.28581	2.8878	10.62	2.777	3.5698	3.36601	35.7420243	6.216770282	0.0004462	0.152112	4.98115	0.39063	25.29332	2.29E+01	4.99E+01
1014	490686.72	3861235.12	3.42524	3.41833	4.46688	2.9368	10.53	2.793	3.6107	3.41833	35.7381638	6.313401433	0.000465	0.154693	4.937034	0.3929	25.58311	2.32E+01	4.99E+01
1015	490736.72	3861235.12	3.42796	3.47131	4.40825	3.01771	10.38	2.808	3.6494	3.47131	35.7665437	6.411251555	0.0004589	0.158955	4.86559	0.39498	25.85753	2.36E+01	4.99E+01
1016	490786.72	3861235.12	3.43181	3.52505	4.12611	3.1078	10.15	2.815	3.681	3.52505	35.8067137	6.510505341	0.0004296	0.1637	4.75953	0.39603	26.08128	2.40E+01	4.97E+01
1017	490836.72	3861235.12	3.43456	3.57753	3.71301	3.18428	9.838	2.809	3.7045	3.57753	35.8354066	6.607432	0.0003865	0.167729	4.613105	0.39519	26.24765	2.43E+01	4.95E+01
1018	490086.72	3861285.12	3.93079	2.7282	3.24858	3.1583	10.8	2.7	2.8268	2.7282	41.0129559	5.038782619	0.0003382	0.166361	5.062845	0.37983	20.02861	1.86E+01	5.31E+01
1019	490136.72	3861285.12	3.78687	2.76651	3.53316	3.09123	10.78	2.692	2.8725	2.76651	39.5113278	5.109538342	0.0003678	0.162828	5.056745	0.37864	20.3527	1.88E+01	5.18E+01
1020	490186.72	3861285.12	3.64057	2.8111	3.70242	3.0091	10.66	2.686	2.9235	2.8111	37.9848674	5.191892757	0.0003854	0.158502	5.000892	0.3778	20.7137	1.91E+01	5.03E+01
1021	490236.72	3861285.12	3.54714	2.85263	3.74818	2.94654	10.52	2.676	2.9772	2.85263	37.0100403	5.26859558	0.0003902	0.155206	4.932383	0.37648	21.09439	1.94E+01	4.94E+01
1022	490386.72	3861285.12	3.37544	2.9884	3.24698	2.82019	10.17	2.693	3.1473	2.9884	35.2185621	5.519352679	0.000338	0.148551	4.768782	0.37884	22.2999	2.03E+01	4.80E+01

1023	490436.72	3861285.12	3.35688	3.0319	2.99427	2.80074	10.22	2.719	3.2114	3.0319	35.0249114	5.599693946	0.0003117	0.147526	4.794272	0.38245	22.75386	2.06E+01	4.81E+01
1024	490486.72	3861285.12	3.3602	3.07825	3.0069	2.77932	10.34	2.733	3.2749	3.07825	35.0595515	5.685298951	0.000313	0.146398	4.850735	0.3845	23.20364	2.09E+01	4.84E+01
1025	490536.72	3861285.12	3.3633	3.13274	3.22054	2.77312	10.41	2.75	3.3364	3.13274	35.0918962	5.78593793	0.0003353	0.146072	4.882696	0.38684	23.63981	2.13E+01	4.86E+01
1026	490586.72	3861285.12	3.36654	3.18591	3.52585	2.79207	10.46	2.765	3.3944	3.18591	35.1257016	5.884138968	0.0003671	0.14707	4.905246	0.38899	24.05034	2.17E+01	4.88E+01
1027	490636.72	3861285.12	3.36471	3.24438	3.95816	2.82025	10.44	2.76	3.449	3.24438	35.1066078	5.992128713	0.0004121	0.148554	4.894114	0.38833	24.43755	2.21E+01	4.89E+01
1028	490686.72	3861285.12	3.36609	3.29916	4.2479	2.8656	10.4	2.756	3.4979	3.29916	35.1210064	6.093303301	0.0004422	0.150943	4.878818	0.38766	24.78367	2.24E+01	4.90E+01
1029	490736.72	3861285.12	3.37191	3.35178	4.329	2.93032	10.33	2.758	3.541	3.35178	35.1817309	6.19048853	0.0004507	0.154352	4.845234	0.38798	25.08926	2.28E+01	4.91E+01
1030	490786.72	3861285.12	3.37393	3.40821	4.1633	3.01329	10.15	2.743	3.5804	3.40821	35.2028071	6.294710545	0.0004334	0.158722	4.759675	0.38581	25.3685	2.32E+01	4.90E+01
1031	490836.72	3861285.12	3.37494	3.46296	3.82928	3.08575	9.886	2.721	3.6096	3.46296	35.2133453	6.395829726	0.0003987	0.162539	4.635613	0.38281	25.57532	2.35E+01	4.88E+01
1032	490061.24	3859716.13	5.94787	9.43518	23.64388	11.41396	12.74	7.551	8.5583	9.43518	62.0587032	17.42607616	0.0024615	0.60122	5.974105	1.0623	60.63857	6.42E+01	8.36E+01
1033	490111.24	3859716.13	6.1586	10.84116	21.29064	11.97637	11.6	8.141	9.923	10.84116	64.2574114	20.02281672	0.0022165	0.630844	5.441076	1.14517	70.30782	7.37E+01	8.81E+01
1034	490161.24	3859716.13	6.43731	12.68683	19.79811	12.62979	10.87	8.729	11.946	12.68683	67.1654072	23.43163203	0.0020611	0.665263	5.098577	1.22798	84.64002	8.63E+01	9.60E+01
1035	490211.24	3859716.13	6.86628	15.36128	20.99915	13.17712	10.37	9.259	13.752	15.36128	71.6411812	28.37114239	0.0021861	0.694093	4.86196	1.30254	97.43526	1.04E+02	9.99E+01
1036	490061.24	3859766.13	5.593	7.47508	21.87883	10.53327	13.41	6.997	6.9764	7.47508	58.3560715	13.80591715	0.0022777	0.55483	6.28642	0.98428	49.43052	5.08E+01	7.86E+01
1037	490111.24	3859766.13	5.70395	8.31183	21.06803	11.06241	12.32	7.259	7.4987	8.31183	59.5136982	15.35133221	0.0021933	0.582702	5.77752	1.02117	53.13121	5.65E+01	7.89E+01
1038	490161.24	3859766.13	5.85219	9.32907	19.03274	11.56925	11.23	7.705	8.4466	9.32907	61.0604002	17.23009888	0.0019814	0.6094	5.265353	1.08393	59.84728	6.34E+01	8.17E+01
1039	490211.24	3859766.13	6.0529	10.59352	18.0488	12.24541	10.53	8.209	9.8369	10.59352	63.154562	19.56544405	0.001879	0.645016	4.939975	1.15478	69.6982	7.20E+01	8.71E+01
1040	490061.24	3859816.13	5.39279	6.12488	21.90894	9.12429	13.91	6.71	6.0899	6.12488	56.2671266	11.31219811	0.0022809	0.480614	6.521165	0.94399	43.14935	4.16E+01	7.70E+01
1041	490111.24	3859816.13	5.43778	6.69262	19.31515	9.64882	12.95	6.925	6.2739	6.69262	56.7365418	12.36077169	0.0020108	0.508243	6.071613	0.9742	44.4527	4.55E+01	7.56E+01
1042	490161.24	3859816.13	5.5179	7.3558	18.92734	10.18124	11.89	7.202	6.6016	7.3558	57.5724954	13.58561586	0.0019705	0.536287	5.576861	1.0132	46.77451	5.00E+01	7.50E+01
1043	490211.24	3859816.13	5.63304	8.16855	17.3781	10.68995	10.88	7.56	7.3913	8.16855	58.7738396	15.0867047	0.0018092	0.563083	5.100059	1.06351	52.36996	5.55E+01	7.74E+01
1044	490061.24	3859866.13	5.2693	5.26043	19.2074	7.90231	14.24	6.265	5.4426	5.26043	54.9786604	9.715623214	0.0019996	0.416247	6.676851	0.88139	38.5625	3.58E+01	7.55E+01
1045	490111.24	3859866.13	5.27199	5.58318	19.08882	8.22079	13.45	6.388	5.6129	5.58318	55.0067272	10.31171847	0.0019873	0.433023	6.307118	0.89865	39.76928	3.80E+01	7.48E+01
1046	490161.24	3859866.13	5.30778	6.0383	17.24532	8.52383	12.53	6.622	5.768	6.0383	55.3801518	11.15229129	0.0017953	0.448985	5.87491	0.93158	40.86836	4.11E+01	7.36E+01
1047	490211.24	3859866.13	5.36927	6.59369	17.21312	9.11627	11.51	6.918	5.9921	6.59369	56.0217243	12.17805534	0.001792	0.480191	5.39537	0.97319	42.45612	4.48E+01	7.27E+01
1048	490061.24	3859916.13	5.20444	4.58762	14.09265	7.19228	14.4	5.772	4.8809	4.58762	54.3019261	8.472993153	0.0014671	0.378847	6.750814	0.81197	34.58273	3.12E+01	7.41E+01
1049	490111.24	3859916.13	5.17651	4.85559	17.59009	7.43204	13.8	5.863	5.0747	4.85559	54.010511	8.967913825	0.0018312	0.391476	6.470546	0.82471	35.95573	3.30E+01	7.36E+01
1050	490161.24	3859916.13	5.15911	5.13537	16.89518	7.69957	13.02	5.967	5.2254	5.13537	53.8289634	9.484646689	0.0017589	0.405568	6.107279	0.83944	37.02377	3.49E+01	7.28E+01
1051	490211.24	3859916.13	5.17661	5.4735	15.46903	7.92979	12.11	6.175	5.3439	5.4735	54.0115543	10.10914767	0.0016104	0.417694	5.679915	0.86869	37.86374	3.72E+01	7.17E+01
1052	490229.25	3859815.26	5.69215	8.55969	17.00773	11.0034	10.58	7.718	7.7587	8.55969	59.3905797	15.80911121	0.0017706	0.579594	4.959744	1.0857	54.97305	5.82E+01	7.86E+01
1053	490279.25	3859815.26	5.86023	9.55292	16.66109	11.65674	10.06	8.061	8.7702	9.55292	61.1442877	17.64353319	0.0017345	0.614008	4.716525	1.13404	62.14031	6.50E+01	8.24E+01
1054	490329.25	3859815.26	6.09105	10.74784	17.12573	12.25593	9.576	8.481	9.8491	10.74784	63.5526103	19.85046162	0.0017829	0.64557	4.490548	1.19314	69.78457	7.31E+01	8.64E+01
1055	490379.25	3859815.26	6.37893	12.38816	17.93485	12.94079	9.416	8.997	10.923	12.38816	66.5562838	22.88001074	0.0018671	0.681644	4.415381	1.26569	77.39	8.42E+01	8.90E+01
1056	490429.25	3859815.26	6.67445	14.12615	18.13078	13.84858	9.297	9.623	12.506	14.12615	69.6396713	26.08994909	0.0018875	0.729461	4.359514	1.35373	88.60612	9.61E+01	9.47E+01
1057	490229.25	3859865.26	5.40245	6.84031	16.95491	9.3499	11.11	7.059	6.1614	6.84031	56.3679168	12.63354415	0.0017651	0.492497	5.209017	0.993	43.65539	4.65E+01	7.28E+01
1058	490279.25	3859865.26	5.50209	7.54216	15.74287	9.9022	10.25	7.419	6.8278	7.54216	57.4075375	13.92980893	0.0016389	0.521589	4.805507	1.04361	48.37736	5.13E+01	7.48E+01
1059	490329.25	3859865.26	5.63241	8.39298	15.51609	10.492	9.761	7.778	7.5097	8.39298	58.7672664	15.50121023	0.0016153	0.552656	4.577073	1.09411	53.20865	5.71E+01	7.66E+01
1060	490379.25	3859865.26	5.79469	9.27646	15.86277	10.99204	9.313	8.152	8.4345	9.27646	60.4604584	17.13293212	0.0016514	0.578996	4.367087	1.1468	59.76119	6.31E+01	8.04E+01
1061	490429.25	3859865.26	6.01236	10.46452	16.7369	11.39591	9.157	8.54	9.3183	10.46452	62.731577	19.32719064	0.0017424	0.600269	4.293724	1.20134	66.02316	7.12E+01	8.30E+01
1062	490229.25	3859915.26	5.19192	5.6578	15.84844	8.13251	11.76	6.29	5.3994	5.6578	54.1712953	10.44953607	0.0016499	0.428372	5.512806	0.88478	38.2567	3.85E+01	7.12E+01
1063	490279.25	3859915.26	5.24666	6.18185	15.35019	8.57087	10.72	6.562	5.6104	6.18185	54.7424399	11.41741747	0.001598	0.451463	5.026603	0.92309	39.75142	4.20E+01	7.03E+01
1064	490329.25	3859915.26	5.32753	6.79682	14.51513	8.97143	9.924	6.899	6.0716	6.79682	55.5862188	12.55322135	0.0015111	0.472562	4.653413	0.97051	43.01933	4.62E+01	7.10E+01
1065	490379.25	3859915.26	5.43449	7.51527	14.59814	9.44377	9.478	7.243	6.6639	7.51527	56.7022147	13.8801451	0.0015198	0.497442	4.444289	1.01897	47.21592	5.11E+01	7.27E+01
1066	490429.25	3859915.26	5.56397	8.24657	14.57666	9.78812	9.047	7.573	7.2783	8.24657	58.0531792	15.23080184	0.0015175	0.51558	4.242152	1.06531	51.56917	5.61E+01	7.46E+01
1067	490451.43	3859872.59	6.03181	10.57911	16.88574	11.25778	9.081	8.566	9.3481	10.57911	62.9345138	19.53882985	0.0017579	0.592993	4.258447	1.20502	66.23466	7.19E+01	8.28E+01
1068	490501.43	3859872.59	6.26655	11.83918	17.52184	11.87423	8.955	9.042	10.282	11.83918	65.3837368	21.86608548	0.0018241	0.625464	4.199382	1.27194	72.85267	8.05E+01	8.57E+01
1069	490551.43	3859872.59	6.50647	13.36727	17.34035	12.8472	8.792	9.699	11.842	13.36727	67.8870067	24.68835413	0.0018052	0.676714	4.122953	1.36437	83.90697	9.09E+01	9.18E+01
1070	490601.43	3859872.59	6.76035	15.12169	16.50225	13.91833	8.681	10.7	13.725	15.12169	70.5359321	27.92863747	0.001718	0.733135	4.070842	1.50593	97.24714	1.03E+02	9.92E+01
1071	490451.43	3859922.59	5.57397	8.32287	14.60488	9.78844	8.904	7.581	7.3681	8.32287	58.1575169	15.37172227	0.0015205	0.515597	4.175177	1.06645	52.20551	5.66E+01	7.49E+01
1072	490501.43	3859922.59	5.73793	9.12965	15.64676	10.11018	8.832	7.926	8.1803	9.12965	59.8682377	16.86178496	0.0016289	0.532544	4.141658	1.11493	57.96024	6.21E+01	7.84E+01
1073	490551.43	3859922.59	5.94105	10.25213	16.83935	10.42146	8.735	8.356	8.9768	10.25213	61.9875449	18.93492209	0.0017531	0.548941	4.095779	1.17543	63.60394	6.97E+01	8.06E+01
1074	490601.43	3859922.59	6.1466	11.3785	17.26582	10.79857	8.586	8.864	9.9124	11.3785	64.1322062	21.01524376	0.0017975	0.568805	4.026131	1.24689	70.23258	7.74E+01	8.39E+01
1075	482129.67	3852241.07	4.31329	9.03372	1.99087	1.90447	2.892	2.132	9.1951	9.03372	45.0038726	16.68460938	0.0002073	0.100316	1.356232	0.29988	65.15074	6.14E+01	6.72E+01
1076	482029.67	3852291.07	4.71119	11.83855	1.75823	2.26452	2.956	2.279	11.694	11.83855	49.1554694	21.86492192	0.000183	0.119281	1.386238	0.32059	82.85274	8.05E+01	7.52E+01
1077	482079.67	3852291.07	4.55582	10.86852	1.78147	2.11424	2.963	2.219	10.865	10.86852	47.5343747	20.07334861	0.0001855	0.111366	1.389478	0.31217	76.9828	7.39E+01	7.25E+01
1078	482129.67	3852291.07	4.45034	9.85447	1.92775	1.97939	2.955	2.178	9.9722	9.85447	46.4338207	18.20047363	0.0002007	0.104263	1.385839	0.30642	70.65692	6.70E+01	7.01E+01
1079	482179.67	3852291.07	4.32063	8.68295	2.15484	1.97301	2.933	2.16	8.8838	8.68295	45.0804565	16.03676327	0.0002243	0.103926	1.375251	0.30386	62.94507	5.90E+01	6.68E+01

1080	482229.67	3852291.07	4.16883	7.64689	2.4498	2.04735	2.896	2.145	7.7046	7.64689
1081	482029.67	3852341.07	5.03826	12.98478	1.82032	2.44053	2.958	2.374	12.855	12.98478
1082	482079.67	3852341.07	4.71356	11.6316	1.78075	2.28774	2.986	2.299	11.563	11.6316
1083	482129.67	3852341.07	4.58936	10.61695	1.88873	2.13233	2.997	2.246	10.683	10.61695
1084	482179.67	3852341.07	4.46165	9.59416	2.08497	1.99767	2.993	2.208	9.7576	9.59416
1085	482259.06	3852400.14	4.32503	8.65994	2.5313	2.05632	3.018	2.233	8.8528	8.65994
1086	482309.06	3852400.14	4.15025	7.73235	2.84719	2.1481	3.002	2.221	7.7649	7.73235
1087	482209.06	3852450.14	4.70998	10.61024	2.17129	2.2461	3.052	2.33	10.75	10.61024
1088	482259.06	3852450.14	4.51313	9.46677	2.43549	2.09494	3.063	2.295	9.6718	9.46677
1089	482309.06	3852450.14	4.30713	8.28111	2.75158	2.14967	3.065	2.264	8.4943	8.28111
1090	482209.06	3852500.14	4.95124	11.73014	2.12158	2.44513	3.054	2.406	11.82	11.73014
1091	482259.06	3852500.14	4.73398	10.44018	2.34279	2.27378	3.088	2.362	10.638	10.44018
1092	482309.06	3852500.14	4.49777	9.15712	2.65251	2.16152	3.106	2.331	9.3885	9.15712
1093	482283.91	3852513.62	4.67992	10.07383	2.46767	2.24372	3.103	2.364	10.297	10.07383
1094	482333.91	3852513.62	4.42023	8.74773	2.82034	2.19267	3.116	2.331	8.9758	8.74773
1095	482283.91	3852563.62	4.94331	11.30493	2.40576	2.43637	3.101	2.433	11.431	11.30493
1096	482333.91	3852563.62	4.64359	9.69759	2.73865	2.25945	3.134	2.396	9.9483	9.69759
1097	482383.91	3852563.62	4.33309	8.62868	3.13454	2.25722	3.147	2.36	8.4941	8.62868
1098	482283.91	3852613.62	5.31004	13.09323	2.30328	2.67129	3.083	2.519	13.13	13.09323
1099	482333.91	3852613.62	4.9452	11.15725	2.63895	2.4635	3.133	2.468	11.383	11.15725
1100	482383.91	3852613.62	4.57357	9.31799	3.0387	2.27536	3.165	2.427	9.4786	9.31799
1101	482602.38	3852600.87	3.73876	7.3452	3.63766	2.51445	3.088	2.278	6.741	7.3452
1102	482652.38	3852600.87	3.65549	6.8119	3.1616	2.49615	3.016	2.271	6.2983	6.8119
1103	482702.38	3852600.87	3.60938	6.35274	2.81115	2.46478	2.961	2.251	6.1226	6.35274
1104	482552.38	3852650.87	3.88585	8.21845	3.94648	2.48132	3.214	2.341	7.6526	8.21845
1105	482602.38	3852650.87	3.7971	7.67172	3.80759	2.55681	3.183	2.317	7.1235	7.67172
1106	482652.38	3852650.87	3.70911	7.13717	3.41262	2.55624	3.13	2.305	6.6762	7.13717
1107	482702.38	3852650.87	3.62272	6.54791	2.84761	2.51099	3.059	2.297	6.1569	6.54791
1108	482552.38	3852700.87	3.97505	8.80601	3.98199	2.50947	3.267	2.417	8.1329	8.80601
1109	482602.38	3852700.87	3.8553	8.06021	3.9458	2.5797	3.254	2.364	7.5131	8.06021
1110	482652.38	3852700.87	3.73755	7.47412	3.64607	2.58331	3.214	2.337	7.0199	7.47412
1111	482702.38	3852700.87	3.66206	6.89708	3.13161	2.56328	3.167	2.329	6.5085	6.89708
1112	482452.38	3852750.87	4.94659	11.03754	3.2764	2.6263	3.201	2.596	11.271	11.03754
1113	482521.29	3852749.74	4.28499	10.07388	3.82573	2.53501	3.272	2.527	9.0771	10.07388
1114	482571.29	3852749.74	4.01318	9.04285	4.03781	2.55463	3.296	2.47	8.3988	9.04285
1115	482521.29	3852799.74	4.58005	10.97472	3.75486	2.57351	3.253	2.612	9.8393	10.97472
1116	482571.29	3852799.74	4.1441	9.92277	4.04109	2.60753	3.303	2.552	9.1159	9.92277
1117	482621.29	3852799.74	3.97943	8.70818	4.09334	2.63538	3.332	2.491	8.1004	8.70818
1118	482571.29	3852849.74	4.40825	11.09635	4.01376	2.67512	3.285	2.649	10.105	11.09635
1119	482621.29	3852849.74	4.12541	9.33617	4.16248	2.69584	3.342	2.582	8.7351	9.33617
1120	482577.42	3852901.55	4.79276	12.53813	3.99166	2.84597	3.263	2.754	11.397	12.53813
1121	482627.42	3852901.55	4.27565	10.23149	4.20885	2.7991	3.332	2.685	9.57	10.23149
1122	482629.96	3852955.85	4.56734	11.79178	4.22231	2.90451	3.299	2.806	10.99	11.79178
1123	482679.96	3852955.85	4.23033	9.90005	4.25084	2.90174	3.372	2.72	9.1695	9.90005
1124	482781.63	3853034.48	4.14498	8.2923	3.75506	3.19923	3.469	2.808	8.0302	8.2923
1125	482831.63	3853034.48	4.03603	7.09374	3.67937	3.15965	3.528	2.706	7.1577	7.09374
1126	482881.63	3853034.48	3.93782	6.66097	3.8457	3.03983	3.567	2.582	6.7154	6.66097
1127	482781.63	3853084.48	4.29001	9.07796	3.96773	3.28267	3.434	2.93	8.882	9.07796
1128	482831.63	3853084.48	4.15704	7.68433	3.68843	3.30902	3.513	2.812	7.7511	7.68433
1129	482881.63	3853084.48	4.0422	7.06064	3.92522	3.19849	3.57	2.671	7.0857	7.06064
1130	482781.63	3853134.48	4.4334	9.8288	4.16181	3.32449	3.419	3.058	9.6975	9.8288
1131	482831.63	3853134.48	4.28671	8.40772	3.72646	3.43346	3.47	2.927	8.5044	8.40772
1132	482881.63	3853134.48	4.15315	7.48332	3.99301	3.35306	3.551	2.768	7.5648	7.48332
1133	482831.63	3853184.48	4.41152	8.64373	3.9001	3.52282	3.454	3.055	8.7734	8.64373
1134	482881.63	3853184.48	4.27261	7.92074	4.05127	3.51534	3.501	2.886	8.0316	7.92074
1135	484154.84	3854250.98	6.36098	2.2504	5.16051	6.63368	5.665	4.135	4.3028	2.2504
1136	484204.84	3854250.98	6.32183	2.24152	5.38696	6.60886	5.795	4.049	4.1781	2.24152

43.4966103	14.12323745	0.000255	0.107842	1.358103	0.30179	54.59001	5.20E+01	6.20E+01
52.5680423	23.98192353	0.0001895	0.128553	1.387236	0.334	91.07905	8.83E+01	8.12E+01
49.1801975	21.48270065	0.0001854	0.120505	1.400394	0.32347	81.92725	7.91E+01	7.53E+01
47.8843233	19.60871752	0.0001966	0.112319	1.405135	0.31594	75.69121	7.22E+01	7.28E+01
46.5518267	17.71970041	0.0002171	0.105225	1.403334	0.31061	69.13619	6.52E+01	7.00E+01
45.1263651	15.99426551	0.0002635	0.108315	1.415086	0.31419	62.72507	5.89E+01	6.68E+01
43.3027509	14.28107572	0.0002964	0.113149	1.407719	0.31249	55.01712	5.26E+01	6.19E+01
49.1428446	19.59632464	0.000226	0.118311	1.430907	0.32778	76.166	7.21E+01	7.46E+01
47.0889571	17.48442055	0.0002535	0.110349	1.43651	0.32281	68.52826	6.44E+01	7.06E+01
44.9396006	15.29459465	0.0002865	0.113232	1.437298	0.31855	60.18546	5.63E+01	6.60E+01
51.6600957	21.66469671	0.0002209	0.128795	1.43207	0.33847	83.74904	7.98E+01	7.92E+01
49.393255	19.28223646	0.0002439	0.119769	1.447924	0.33233	75.3718	7.10E+01	7.50E+01
46.9286944	16.91252001	0.0002761	0.113856	1.456576	0.32787	66.52112	6.23E+01	7.00E+01
48.8292055	18.60561524	0.0002569	0.118186	1.454855	0.3325	72.95796	6.85E+01	7.38E+01
46.1196599	16.15640711	0.0002936	0.115497	1.461185	0.32786	63.59685	5.95E+01	6.83E+01
51.577356	20.87936544	0.0002505	0.128334	1.454278	0.34228	80.99496	7.69E+01	7.85E+01
48.4501466	17.91072793	0.0002851	0.119014	1.469663	0.337	70.48751	6.59E+01	7.28E+01
45.2104613	15.93653061	0.0003263	0.118897	1.475909	0.33201	60.18376	5.87E+01	6.46E+01
55.4037322	24.18222262	0.0002398	0.140708	1.445725	0.35431	93.03008	8.90E+01	8.55E+01
51.5970758	20.60661146	0.0002747	0.129763	1.469204	0.34722	80.6545	7.59E+01	7.89E+01
47.7195741	17.20963494	0.0003163	0.119852	1.484359	0.34148	67.15944	6.34E+01	7.07E+01
39.0093592	13.56603845	0.0003787	0.132446	1.447793	0.32045	47.76235	4.99E+01	5.23E+01
38.1405392	12.58107299	0.0003291	0.131482	1.414476	0.31946	44.6258	4.63E+01	5.09E+01
37.6594381	11.7330386	0.0002927	0.12983	1.388376	0.31669	43.38104	4.32E+01	5.14E+01
40.5440623	15.17886629	0.0004109	0.130701	1.506923	0.32935	54.22115	5.59E+01	5.60E+01
39.6180653	14.16909662	0.0003964	0.134678	1.49241	0.32599	50.47285	5.22E+01	5.40E+01
38.6999979	13.1818225	0.0003553	0.134648	1.46775	0.32419	47.30343	4.85E+01	5.26E+01
37.7986246	12.09350308	0.0002965	0.132264	1.434274	0.32317	43.62365	4.45E+01	5.09E+01
41.4747545	16.26404594	0.0004145	0.132184	1.531875	0.33996	57.62481	5.99E+01	5.75E+01
40.2253107	14.88660877	0.0004108	0.135883	1.526065	0.33256	53.23281	5.48E+01	5.55E+01
38.9967343	13.80414411	0.0003796	0.136073	1.506876	0.32872	49.7386	5.08E+01	5.37E+01
38.2090891	12.73839412	0.000326	0.135018	1.485025	0.32758	46.11472	4.69E+01	5.21E+01
51.6115787	20.38551598	0.0003411	0.138338	1.500809	0.3652	79.85917	7.51E+01	7.88E+01
44.708597	18.60570759	0.0003983	0.133529	1.534097	0.35556	64.31439	6.85E+01	6.12E+01
41.8725941	16.70147182	0.0004204	0.134563	1.545764	0.34745	59.50867	6.15E+01	5.86E+01
47.7871849	20.26949211	0.0003909	0.135557	1.525333	0.36748	69.7152	7.46E+01	6.52E+01
43.2385832	18.32661865	0.0004207	0.137349	1.548681	0.35905	64.58916	6.75E+01	6.07E+01
41.5204544	16.0833612	0.0004261	0.138816	1.562514	0.35044	57.39397	5.92E+01	5.78E+01
45.9946634	20.49413368	0.0004179	0.140909	1.540573	0.3727	71.59637	7.55E+01	6.47E+01
43.0435761	17.24321205	0.0004333	0.142001	1.567353	0.36322	61.89148	6.35E+01	6.08E+01
50.006552	23.15699418	0.0004156	0.149909	1.52999	0.38747	80.752	8.53E+01	7.07E+01
44.6111456	18.89680155	0.0004382	0.14744	1.562378	0.3777	67.80704	6.96E+01	6.38E+01
47.6545717	21.7785412	0.0004396	0.152992	1.546988	0.39472	77.86826	8.02E+01	6.92E+01
44.1382871	18.2846565	0.0004425	0.152846	1.581027	0.38257	64.96915	6.73E+01	6.22E+01
43.2477649	15.31526175	0.0003909	0.168516	1.626587	0.39508	56.89679	5.64E+01	6.13E+01
42.1110058	13.10161052	0.000383	0.166432	1.654328	0.38067	50.7146	4.82E+01	5.99E+01
41.0863053	12.3023165	0.0004004	0.16012	1.672485	0.36328	47.58096	4.53E+01	5.79E+01
44.7609745	16.76631738	0.0004131	0.172912	1.610184	0.41221	62.93182	6.17E+01	6.49E+01
43.3735962	14.19238635	0.000384	0.1743	1.647088	0.39556	54.91913	5.23E+01	6.25E+01
42.1753821	13.04047728	0.0004086	0.168478	1.673826	0.37571	50.20446	4.80E+01	5.96E+01
46.2570727	18.15306305	0.0004333	0.175114	1.603005	0.43023	68.71043	6.68E+01	6.85E+01
44.7265431	15.52843391	0.0003879	0.180854	1.627051	0.41177	60.25674	5.72E+01	6.56E+01
43.3330088	13.82113582	0.0004157	0.176619	1.66493	0.38934	53.59927	5.09E+01	6.21E+01
46.0287818	15.96432684	0.000406	0.185561	1.619595	0.42976	62.16235	5.88E+01	6.76E+01
44.5794269	14.62901805	0.0004218	0.185167	1.64171	0.40601	56.90671	5.39E+01	6.45E+01
66.3689976	4.156321533	0.0005372	0.349423	2.656634	0.58176	30.48682	1.53E+01	8.93E+01
65.9605156	4.139920833	0.0005608	0.348116	2.717265	0.56964	29.60363	1.52E+01	8.81E+01

1137	484154.84	3854300.98	6.73231	2.13643	4.85152	6.82795	5.442	4.123	4.3017	2.13643	70.2433692	3.945827414	0.0005051	0.359656	2.551708	0.58	30.47888	1.45E+01	9.36E+01
1138	484204.84	3854300.98	6.64661	2.15707	5.65539	6.95046	5.685	4.137	4.3207	2.15707	69.3491952	3.98394796	0.0005888	0.366109	2.66589	0.58199	30.61379	1.47E+01	9.29E+01
1139	484074.19	3854519.8	8.32079	1.69133	7.46757	12.65804	5.476	5.826	5.6593	1.69133	86.817203	3.123760797	0.0007774	0.666751	2.567834	0.81954	40.09797	1.15E+01	1.23E+02
1140	484124.19	3854519.8	8.37669	1.76585	6.93904	10.73843	5.368	5.61	5.2414	1.76585	87.4004507	3.261393698	0.0007224	0.565637	2.517294	0.78923	37.13721	1.20E+01	1.20E+02
1141	484074.19	3854569.8	8.64436	1.61783	7.58918	18.1924	5.693	7.273	6.485	1.61783	90.1932577	2.98801176	0.0007901	0.958268	2.669388	1.0232	45.94849	1.10E+01	1.33E+02
1142	484124.19	3854569.8	8.78366	1.61856	7.57902	13.86943	5.502	5.761	5.7282	1.61856	91.6466818	2.989360016	0.000789	0.730559	2.580115	0.81036	40.58629	1.10E+01	1.28E+02
1143	485205.11	3855188.89	7.8037	1.68528	6.34295	16.69869	9.248	7.481	6.904	1.68528	81.4220052	3.112586897	0.0006603	0.879588	4.336419	1.05238	48.91747	1.15E+01	1.28E+02
1144	485255.11	3855188.89	7.70075	1.67169	5.8213	13.66096	9.091	6.471	6.0909	1.67169	80.3478487	3.087487177	0.000606	0.719578	4.263024	0.91033	43.15594	1.14E+01	1.21E+02
1145	485205.11	3855238.89	8.1321	1.65333	7.27075	20.74254	9.498	8.836	8.0146	1.65333	84.8484551	3.053577622	0.0007569	1.092594	4.454015	1.24307	56.7864	1.12E+01	1.40E+02
1146	485255.11	3855238.89	7.92155	1.6556	7.01186	17.03857	9.531	7.578	6.9288	1.6556	82.6516249	3.057770143	0.00073	0.897491	4.469409	1.06609	49.09276	1.13E+01	1.30E+02
1147	485205.11	3855288.89	8.23467	1.68014	8.3142	30.20454	10	11.23	9.9181	1.68014	85.9186468	3.103093699	0.0008656	1.590996	4.690055	1.57941	70.27303	1.14E+01	1.56E+02
1148	485255.11	3855288.89	8.05642	1.6506	7.77775	22.41368	10.03	9.273	8.3307	1.6506	84.0588274	3.048535515	0.0008097	1.18062	4.701374	1.30449	59.0258	1.12E+01	1.42E+02
1149	485255.11	3855338.89	8.23852	1.66489	9.17134	32.27088	10.47	11.67	10.148	1.66489	85.9588168	3.074928082	0.0009548	1.699839	4.9076	1.64102	71.90026	1.13E+01	1.58E+02
1150	485305.11	3855338.89	8.0492	1.63815	9.1891	23.59364	10.51	9.542	8.5713	1.63815	83.9834956	3.02554129	0.0009566	1.242773	4.9276	1.34231	60.73082	1.11E+01	1.44E+02
1151	485852.5	3855635.28	7.15704	1.49792	10.02572	12.69549	12.7	6.148	5.5106	1.49792	74.674904	2.766546903	0.0010437	0.668723	5.956723	0.86494	39.04452	1.02E+01	1.14E+02
1152	485902.5	3855635.28	7.02775	1.49486	8.89035	11.38653	12.36	5.578	5.1605	1.49486	73.325922	2.76089531	0.0009255	0.599775	5.797239	0.78468	36.56372	1.02E+01	1.10E+02
1153	485852.5	3855685.28	7.3691	1.49192	9.89637	14.35301	13.91	6.801	6.0729	1.49192	76.8874891	2.755465349	0.0010303	0.756032	6.522375	0.95671	43.02876	1.01E+01	1.21E+02
1154	485902.5	3855685.28	7.22078	1.47383	9.10591	12.76086	13.29	6.18	5.5209	1.47383	75.3399525	2.722054464	0.000948	0.672166	6.231983	0.86936	39.1175	1.00E+01	1.15E+02
1155	485852.5	3855735.28	7.60463	1.49398	10.41208	16.71352	15.04	7.52	6.7033	1.49398	79.3449548	2.759270016	0.001084	0.880369	7.051696	1.05787	47.49523	1.02E+01	1.28E+02
1156	485902.5	3855735.28	7.40749	1.47364	9.90272	14.6027	14.63	6.804	6.1109	1.47364	77.2880415	2.721703548	0.0010309	0.769184	6.861352	0.95713	43.298	1.00E+01	1.22E+02
1157	485852.5	3855785.28	7.84144	1.49651	11.6088	20.54705	15.94	8.58	7.2909	1.49651	81.8157757	2.763942738	0.0012085	1.082297	7.475571	1.20697	51.65887	1.02E+01	1.36E+02
1158	485902.5	3855785.28	7.65344	1.47642	10.85972	17.11111	15.79	7.565	6.6885	1.47642	79.8542271	2.726838001	0.0011306	0.901312	7.40444	1.06417	47.39058	1.00E+01	1.29E+02
1159	486809.46	3856465.28	7.23536	1.26341	7.39508	11.91244	38.91	5.729	4.5774	1.26341	75.4920768	2.333424364	0.0007699	0.627477	18.24348	0.80597	32.43246	8.59E+00	1.21E+02
1160	486859.46	3856465.28	7.04871	1.2598	7.08675	10.65519	42.93	5.333	4.3311	1.2598	73.5446138	2.326756962	0.0007378	0.561252	20.13161	0.75018	30.68748	8.57E+00	1.19E+02
1161	486909.46	3856465.28	6.88517	1.25592	6.94492	9.68059	44.9	4.994	4.1331	1.25592	71.8382751	2.31959089	0.000723	0.509916	21.05463	0.70257	29.28415	8.54E+00	1.17E+02
1162	486809.46	3856515.28	7.42756	1.27315	7.90538	13.79275	39.85	6.199	4.8793	1.27315	77.4974473	2.35141342	0.000823	0.72652	18.68729	0.87207	34.57146	8.66E+00	1.26E+02
1163	486859.46	3856515.28	7.21286	1.2645	7.64407	12.11724	42.49	5.743	4.6148	1.2645	75.257317	2.335437513	0.0007958	0.638264	19.92645	0.80785	32.69766	8.60E+00	1.23E+02
1164	486909.46	3856515.28	7.0243	1.25772	7.31023	10.81322	46.5	5.366	4.3694	1.25772	73.2899255	2.322915356	0.000761	0.569576	21.80691	0.7548	30.95899	8.55E+00	1.21E+02
1165	486980.94	3856357.95	6.40421	1.2659	5.35971	7.46034	45.18	4.158	3.5826	1.2659	66.8200495	2.338023208	0.000558	0.392967	21.18633	0.58493	25.38366	8.61E+00	1.08E+02
1166	487030.94	3856357.95	6.28353	1.27338	5.35831	7.02008	45.63	3.999	3.4701	1.27338	65.5609022	2.351838213	0.0005578	0.369776	21.39689	0.56259	24.5867	8.66E+00	1.06E+02
1167	486980.94	3856407.95	6.51383	1.26473	5.59774	7.99432	47.48	4.405	3.7111	1.26473	67.9637993	2.335862305	0.0005828	0.421093	22.26194	0.61968	26.29427	8.60E+00	1.11E+02
1168	487030.94	3856407.95	6.38663	1.27144	5.33199	7.50512	48.66	4.23	3.5701	1.27144	66.6366238	2.348255177	0.0005551	0.395325	22.81626	0.59509	25.29559	8.65E+00	1.09E+02
1169	487447.18	3856437.45	5.53838	1.43834	4.46749	4.84578	44.52	3.04	2.7235	1.43834	57.786179	2.656507071	0.0004651	0.255247	20.87801	0.4276	19.29726	9.78E+00	9.15E+01
1170	487497.18	3856437.45	5.44666	1.46715	4.4388	4.59209	44.24	2.944	2.6401	1.46715	56.8291937	2.709717	0.0004621	0.241884	20.74614	0.41415	18.70592	9.98E+00	8.97E+01
1171	487547.18	3856437.45	5.35538	1.49474	4.42975	4.36367	44.76	2.879	2.5584	1.49474	55.8767993	2.760673679	0.0004612	0.229852	20.99105	0.40496	18.1274	1.02E+01	8.82E+01
1172	487447.18	3856487.45	5.5887	1.39705	4.98797	5.20464	48.93	3.222	2.8151	1.39705	58.3112063	2.58024751	0.0005193	0.27415	22.94458	0.45327	19.94607	9.50E+00	9.50E+01
1173	487497.18	3856487.45	5.49458	1.42491	4.76109	4.93611	48.54	3.125	2.7229	1.42491	57.3291799	2.63170286	0.0004957	0.260005	22.7633	0.43955	19.29266	9.69E+00	9.30E+01
1174	487547.18	3856487.45	5.39867	1.45316	4.57233	4.6948	49.01	3.029	2.6352	1.45316	56.3284771	2.68387851	0.000476	0.247294	22.98267	0.42606	18.67134	9.88E+00	9.15E+01
1175	487447.18	3856537.45	5.63958	1.36345	5.66742	5.53736	52.72	3.399	2.9088	1.36345	58.8420765	2.518190808	0.00059	0.291675	24.72202	0.47812	20.61004	9.27E+00	9.82E+01
1176	487497.18	3856537.45	5.54276	1.38453	5.49087	5.27118	51.71	3.297	2.8168	1.38453	57.8318789	2.557124001	0.0005716	0.277655	24.24873	0.46384	19.95797	9.41E+00	9.59E+01
1177	487547.18	3856537.45	5.43999	1.41308	5.35327	5.02937	52.03	3.209	2.7249	1.41308	56.7596005	2.609853729	0.0005573	0.264917	24.39637	0.45136	19.30669	9.61E+00	9.42E+01
1178	489285.89	3858826.54	7.35102	5.05462	8.04261	25.61474	20.37	11.6	4.755	5.05462	76.6988466	9.335507441	0.0008373	1.349233	9.554017	1.63145	33.6911	3.44E+01	9.79E+01
1179	489335.89	3858826.54	7.15527	4.7751	7.75669	21.20283	19.13	10.73	4.4137	4.7751	74.6564362	8.819254778	0.0008075	1.116839	8.968909	1.50962	31.27259	3.25E+01	9.39E+01
1180	489385.89	3858826.54	6.96853	4.55566	7.66611	18.28646	18.34	10.01	4.0726	4.55566	72.7080342	8.413965408	0.0007981	0.963222	8.601253	1.40849	28.85556	3.10E+01	9.00E+01
1181	489435.89	3858826.54	6.78756	4.39981	7.28134	16.21102	17.49	9.417	3.7498	4.39981	70.8198349	8.126122042	0.000758	0.8539	8.201092	1.32468	26.56876	2.99E+01	8.60E+01
1182	489485.89	3858826.54	6.61312	4.25689	7.68245	14.64768	16.68	8.907	3.5327	4.25689	68.9997682	7.862159425	0.0007998	0.771553	7.81934	1.25294	25.0306	2.89E+01	8.28E+01
1183	489535.89	3858826.54	6.44587	4.12066	10.16215	13.41252	16.42	8.456	3.4127	4.12066	67.2547203	7.610552741	0.0010579	0.706492	7.701205	1.18962	24.18049	2.80E+01	8.06E+01
1184	489585.89	3858826.54	6.28443	3.98685	11.63534	12.40937	17	8.058	3.3227	3.98685	65.5702926	7.363415616	0.0012113	0.653652	7.973221	1.13355	23.54217	2.71E+01	7.91E+01
1185	489635.89	3858826.54	6.13007	3.83759	11.98003	11.57051	17.46	7.692	3.215	3.83759	63.959736	7.087743491	0.0012472	0.609466	8.185613	1.08214	22.77908	2.61E+01	7.76E+01
1186	489685.89	3858826.54	5.98149	3.69818	9.8753	10.86318	18.43	7.357	3.1436	3.69818	62.4094865	6.830263583	0.0010281	0.572208	8.643859	1.03491	22.27326	2.51E+01	7.66E+01
1187	489735.89	3858826.54	5.83825	3.56389	10.3898	10.25162	19.27	7.047	3.0547	3.56389	60.9149534	6.582239934	0.0010816	0.539995	9.034825	0.99133	21.64394	2.42E+01	7.55E+01
1188	489785.89	3858826.54	5.69737	3.45146	7.84579	9.73413	20.01	6.762	2.9414	3.45146	59.445044	6.374590081	0.0008168	0.512736	9.38432	0.95119	20.84067	2.35E+01	7.40E+01
1189	489835.89	3858826.54	5.56439	3.32959	6.82082	9.25109	21.07	6.55	2.8071	3.32959	58.0575614	6.149505249	0.0007101	0.487293	9.877891	0.92145	19.88946	2.26E+01	7.27E+01
1190	489885.89	3858826.54	5.43207	3.22796	7.91629	8.85622	21.89	6.412	2.7343	3.22796	56.676965	5.961802193	0.0008241	0.466493	10.26302	0.90205	19.37379	2.19E+01	7.17E+01
1191	489935.89	3858826.54	5.30497	3.12602	7.82674	8.50697	22.51	6.239	2.691	3.12602	55.350833	5.77352659	0.0008148	0.448097	10.55746	0.87766	19.06635	2.13E+01	7.08E+01
1192	489985.89	3858826.54	5.18335	3.0227	6.52402	8.24445	22.95	6.078	2.6641	3.0227	54.0818779	5.58270223	0.0006792	0.434269	10.76054	0.85501	18.87632	2.06E+01	7.00E+01
1193	490035.89	3858826.54	5.07028	2.92292	7.89172	8.17269	23.54	5.882	2.6284	2.92292	52.9021316	5.398415986	0.0008216	0.430489	11.03978	0.82751	18.62316	1.99E+01	6.93E+01

1194	489285.89	3858876.54	7.4565	5.55708	8.65286	28.47062	21.41	12.85	5.334	5.55708
1195	489335.89	3858876.54	7.27517	5.26522	8.30436	23.34988	19.55	11.72	4.9834	5.26522
1196	489385.89	3858876.54	7.09489	4.97425	7.88224	19.91331	18.4	10.84	4.6337	4.97425
1197	489435.89	3858876.54	6.9184	4.67403	7.62295	17.43763	17.67	10.13	4.2929	4.67403
1198	489485.89	3858876.54	6.74661	4.49883	7.31252	15.5834	16.88	9.53	3.9468	4.49883
1199	489535.89	3858876.54	6.58053	4.34885	9.35205	14.15245	16.1	9.015	3.6205	4.34885
1200	489585.89	3858876.54	6.42185	4.2147	11.71656	13.02139	15.82	8.556	3.4595	4.2147
1201	489635.89	3858876.54	6.26558	4.07783	12.54633	12.10158	16.24	8.168	3.4019	4.07783
1202	489685.89	3858876.54	6.11605	3.93938	9.90323	11.31611	16.71	7.81	3.3033	3.93938
1203	489735.89	3858876.54	5.97291	3.80076	10.50566	10.64108	17.45	7.476	3.215	3.80076
1204	489785.89	3858876.54	5.83133	3.67762	7.75635	10.07315	18.29	7.182	3.1323	3.67762
1205	489835.89	3858876.54	5.69679	3.5506	7.59093	9.55856	18.95	6.882	3.0091	3.5506
1206	489885.89	3858876.54	5.5613	3.45165	8.59692	9.13452	19.8	6.66	2.8833	3.45165
1207	489935.89	3858876.54	5.43633	3.32953	7.69349	8.71548	20.71	6.446	2.7948	3.32953
1208	489985.89	3858876.54	5.31668	3.20605	7.07743	8.33771	21.45	6.321	2.737	3.20605
1209	490035.89	3858876.54	5.20029	3.09234	8.94371	8.28238	21.99	6.143	2.7005	3.09234
1210	489285.89	3858926.54	7.58372	6.13288	11.00639	33.79599	22.93	14.64	5.9197	6.13288
1211	489335.89	3858926.54	7.40783	5.80804	8.54297	25.88166	20.52	13.08	5.5446	5.80804
1212	489385.89	3858926.54	7.23651	5.50152	8.51191	21.54693	18.76	11.91	5.1942	5.50152
1213	489435.89	3858926.54	7.06556	5.19931	8.08184	18.63965	17.71	11.01	4.8446	5.19931
1214	489485.89	3858926.54	6.89814	4.88161	7.73185	16.53657	17.04	10.27	4.5028	4.88161
1215	489535.89	3858926.54	6.73431	4.62059	8.25568	14.92601	16.32	9.693	4.1465	4.62059
1216	489585.89	3858926.54	6.57496	4.45654	11.40885	13.64083	15.58	9.19	3.7839	4.45654
1217	489635.89	3858926.54	6.41954	4.29761	13.01257	12.5996	15.24	8.747	3.5434	4.29761
1218	489685.89	3858926.54	6.27058	4.15983	10.88624	11.72104	15.53	8.336	3.4356	4.15983
1219	489735.89	3858926.54	6.12244	4.02675	10.67446	10.99392	15.99	7.984	3.3336	4.02675
1220	489785.89	3858926.54	5.97812	3.90531	7.96761	10.37354	16.47	7.664	3.2925	3.90531
1221	489835.89	3858926.54	5.84217	3.78578	8.70329	9.81587	17.35	7.351	3.2166	3.78578
1222	489885.89	3858926.54	5.70694	3.67049	9.33172	9.34735	18.02	7.075	3.0974	3.67049
1223	489935.89	3858926.54	5.5782	3.5483	7.67685	8.91421	18.65	6.802	2.9524	3.5483
1224	489985.89	3858926.54	5.4572	3.41174	8.11982	8.4986	19.6	6.564	2.8504	3.41174
1225	490035.89	3858926.54	5.34577	3.25356	9.98074	8.31615	20.45	6.398	2.7646	3.25356
1226	489335.89	3858976.54	7.55527	6.47555	11.06401	37.66222	21.78	16.84	6.1937	6.47555
1227	489385.89	3858976.54	7.40103	6.1102	8.6587	26.17052	19.74	14.28	5.7977	6.1102
1228	489435.89	3858976.54	7.23779	5.77547	8.56597	21.17777	17.99	12.66	5.4343	5.77547
1229	489485.89	3858976.54	7.07604	5.44359	8.06005	18.17857	17.05	11.54	5.0712	5.44359
1230	489535.89	3858976.54	6.91624	5.13103	7.8452	16.06009	16.45	10.7	4.7049	5.13103
1231	489585.89	3858976.54	6.75545	4.78785	10.64644	14.54281	15.77	10.04	4.3496	4.78785
1232	489635.89	3858976.54	6.59943	4.57981	13.24046	13.32228	15.07	9.487	3.9715	4.57981
1233	489685.89	3858976.54	6.44793	4.41729	11.93193	12.32111	14.69	9.002	3.6247	4.41729
1234	489735.89	3858976.54	6.2976	4.25437	10.72386	11.49914	14.84	8.583	3.4636	4.25437
1235	489785.89	3858976.54	6.14864	4.10732	8.14744	10.81068	15.28	8.219	3.3458	4.10732
1236	489835.89	3858976.54	6.00529	3.97042	10.19169	10.21048	15.58	7.883	3.3196	3.97042
1237	489885.89	3858976.54	5.87306	3.86164	10.04225	9.65081	16.46	7.548	3.2862	3.86164
1238	489935.89	3858976.54	5.74256	3.74687	8.0623	9.16596	17.19	7.241	3.1614	3.74687
1239	489985.89	3858976.54	5.61514	3.62282	9.49948	8.73774	17.75	6.938	3.011	3.62282
1240	490035.89	3858976.54	5.52046	3.37055	10.40939	8.36182	18.76	6.622	2.8094	3.37055
1241	489385.89	3859026.54	7.71922	6.85519	11.549	49.35667	20.73	19.48	6.4675	6.85519
1242	489435.89	3859026.54	7.56519	6.46126	8.977	29.00131	18.96	15.75	6.058	6.46126
1243	489485.89	3859026.54	7.35411	6.09443	8.46867	22.3997	17.31	13.84	5.6859	6.09443
1244	489535.89	3859026.54	7.15794	5.73166	7.90182	18.73004	16.43	12.46	5.3242	5.73166
1245	489585.89	3859026.54	6.97877	5.39846	9.36974	16.32485	15.89	11.4	4.9556	5.39846
1246	489635.89	3859026.54	6.80757	5.03569	13.53942	14.59611	15.27	10.59	4.5748	5.03569
1247	489685.89	3859026.54	6.64454	4.74302	13.55699	13.31851	14.59	9.925	4.1804	4.74302
1248	489735.89	3859026.54	6.4856	4.54311	10.97969	12.29651	14.21	9.385	3.8154	4.54311
1249	489785.89	3859026.54	6.33249	4.35752	9.18049	11.44906	14.3	8.921	3.5873	4.35752
1250	489835.89	3859026.54	6.19039	4.21344	11.81494	10.7157	14.65	8.49	3.4059	4.21344

77.7994005	10.26351371	0.0009008	1.499664	10.04072	1.80706	37.7936	3.78E+01	1.01E+02
75.9074452	9.724469988	0.0008645	1.229933	9.167187	1.6487	35.30897	3.58E+01	9.72E+01
74.0264452	9.187070025	0.0008206	1.048915	8.63043	1.52523	32.83151	3.38E+01	9.34E+01
72.1849893	8.632586	0.0007936	0.918511	8.284949	1.42479	30.41639	3.18E+01	9.01E+01
70.3925721	8.309004622	0.0007613	0.820841	7.9159	1.34059	27.96429	3.06E+01	8.62E+01
68.6597317	8.03200271	0.0009736	0.745467	7.551601	1.26818	25.65283	2.96E+01	8.23E+01
67.0041012	7.784237631	0.0012198	0.68589	7.420205	1.20365	24.51152	2.87E+01	8.00E+01
65.373616	7.531448914	0.0013061	0.63744	7.616082	1.14902	24.10362	2.77E+01	7.87E+01
63.8134545	7.275742055	0.001031	0.596066	7.834195	1.09868	23.40486	2.68E+01	7.72E+01
62.3199648	7.019721218	0.0010937	0.560509	8.183714	1.05169	22.77943	2.58E+01	7.61E+01
60.8427517	6.792290791	0.0008075	0.530594	8.575932	1.01031	22.19312	2.50E+01	7.49E+01
59.4389924	6.557694292	0.0007903	0.503488	8.886145	0.96819	21.3202	2.41E+01	7.35E+01
58.025321	6.374940997	0.000895	0.481152	9.285674	0.93686	20.42908	2.35E+01	7.21E+01
56.7214129	6.149394434	0.0008009	0.45908	9.710604	0.90677	19.8021	2.26E+01	7.11E+01
55.4730124	5.921336052	0.0007368	0.439181	10.05666	0.88924	19.39277	2.18E+01	7.04E+01
54.258626	5.711322133	0.0009311	0.436267	10.31102	0.86418	19.13402	2.10E+01	6.97E+01
79.1267847	11.32697352	0.0011458	1.780173	10.75184	2.05945	41.943	4.17E+01	1.05E+02
77.291589	10.72701818	0.0008894	1.363292	9.623478	1.83988	39.28528	3.95E+01	1.01E+02
75.5040756	10.16089852	0.0008861	1.134965	8.798523	1.67527	36.80264	3.74E+01	9.67E+01
73.7204228	9.602739117	0.0008414	0.981826	8.30627	1.54829	34.32574	3.54E+01	9.31E+01
71.9736011	9.015970831	0.0008049	0.871049	7.990913	1.44543	31.90382	3.32E+01	9.00E+01
70.2642367	8.533886292	0.0008595	0.786214	7.652372	1.36352	29.37966	3.14E+01	8.66E+01
68.6016156	8.230898135	0.0011877	0.718518	7.3069	1.29283	26.81037	3.03E+01	8.27E+01
66.9799992	7.937366238	0.0013547	0.663672	7.144298	1.23043	25.10641	2.92E+01	7.98E+01
65.4257849	7.682896819	0.0011333	0.617395	7.283262	1.17274	24.34275	2.83E+01	7.82E+01
63.8801263	7.437107951	0.0011113	0.579095	7.496789	1.12312	23.61948	2.74E+01	7.68E+01
62.3743247	7.212817297	0.0008295	0.546417	7.723544	1.07807	23.32834	2.66E+01	7.57E+01
60.9558538	6.992054271	0.0009061	0.517042	8.135603	1.03418	22.79056	2.57E+01	7.47E+01
59.5448952	6.779122211	0.0009715	0.492363	8.451199	0.99527	21.94627	2.50E+01	7.33E+01
58.2016517	6.553446363	0.0007992	0.469548	8.744963	0.95685	20.91868	2.41E+01	7.17E+01
56.9391656	6.301230193	0.0008453	0.447656	9.192218	0.92334	20.19633	2.32E+01	7.08E+01
55.7765307	6.00908349	0.0010391	0.438046	9.588525	0.89998	19.58847	2.21E+01	7.02E+01
78.8299439	11.95985954	0.0011518	1.983823	10.21489	2.36953	43.88474	4.40E+01	1.05E+02
77.2206394	11.28508524	0.0009014	1.378508	9.254289	2.00826	41.0788	4.15E+01	1.01E+02
75.5174309	10.66686381	0.0008918	1.115519	8.436494	1.78053	38.50383	3.93E+01	9.67E+01
73.8297687	10.05390612	0.0008391	0.957539	7.994491	1.62275	35.93093	3.70E+01	9.34E+01
72.1624524	9.476631032	0.0008167	0.84595	7.714011	1.50517	33.33598	3.49E+01	9.02E+01
70.4848066	8.84280308	0.0011084	0.766029	7.396713	1.41285	30.8187	3.26E+01	8.72E+01
68.8569299	8.458568663	0.0013784	0.701739	7.066795	1.33454	28.13944	3.11E+01	8.34E+01
67.2762139	8.158406303	0.0012422	0.649003	6.889417	1.26629	25.68231	3.00E+01	7.99E+01
65.7077053	7.857505172	0.0011164	0.605707	6.957542	1.20735	24.54071	2.89E+01	7.79E+01
64.1534911	7.585914752	0.0008482	0.569443	7.164888	1.15626	23.70648	2.79E+01	7.64E+01
62.6578102	7.333070628	0.001061	0.537828	7.307018	1.10897	23.52021	2.70E+01	7.55E+01
61.2781529	7.132162053	0.0010455	0.508347	7.7181	1.06183	23.28356	2.63E+01	7.47E+01
59.916546	6.920190394	0.0008393	0.482808	8.062357	1.01862	22.3998	2.55E+01	7.33E+01
58.5870752	6.691079264	0.000989	0.460252	8.323433	0.97601	21.33381	2.46E+01	7.17E+01
57.5992059	6.225155325	0.0010837	0.440451	8.796535	0.93157	19.90583	2.29E+01	7.10E+01
80.5405604	12.6610264	0.0012023	2.599817	9.72069	2.7401	45.82464	4.66E+01	1.07E+02
78.9334469	11.93346697	0.0009346	1.527617	8.891533	2.21559	42.92297	4.39E+01	1.02E+02
76.7310869	11.25595922	0.0008816	1.179883	8.115589	1.94638	40.28644	4.14E+01	9.81E+01
74.6842944	10.58595	0.0008226	0.986588	7.70589	1.75291	37.72374	3.90E+01	9.45E+01
72.814876	9.970554365	0.0009754	0.859896	7.449982	1.60402	35.11236	3.67E+01	9.11E+01
71.0286147	9.300545138	0.0014095	0.768837	7.160162	1.48915	32.41432	3.42E+01	8.79E+01
69.3275972	8.760005402	0.0014114	0.70154	6.840954	1.39626	29.61943	3.23E+01	8.44E+01
67.669254	8.390786491	0.0011431	0.647707	6.664692	1.32018	27.0337	3.09E+01	8.08E+01
66.0717395	8.048015555	0.0009557	0.603069	6.706177	1.25498	25.41746	2.96E+01	7.85E+01
64.5891009	7.781910504	0.00123	0.56444	6.871743	1.19438	24.13217	2.87E+01	7.65E+01

1251	489885.89	3859026.54	6.05028	4.06815	10.20772	10.08557	14.99	8.117	3.3589	4.06815
1252	489935.89	3859026.54	5.91699	3.94601	8.89076	9.52354	15.64	7.764	3.3396	3.94601
1253	489985.89	3859026.54	5.78822	3.8198	11.13048	9.06659	16.4	7.426	3.2258	3.8198
1254	490035.89	3859026.54	5.69735	3.52487	10.85953	8.46421	17.23	7.003	2.9359	3.52487
1255	489485.89	3859076.54	7.61888	6.83675	9.69604	36.02425	18.25	17.24	6.3503	6.83675
1256	489535.89	3859076.54	7.35302	6.44915	8.35735	24.9455	16.65	14.78	5.9678	6.44915
1257	489585.89	3859076.54	7.14361	6.07247	8.83722	20.10329	15.86	13.28	5.6038	6.07247
1258	489635.89	3859076.54	6.96349	5.68673	12.96116	17.12893	15.33	12.13	5.2367	5.68673
1259	489685.89	3859076.54	6.80016	5.30838	15.75764	15.11844	14.76	11.21	4.8534	5.30838
1260	489735.89	3859076.54	6.64578	4.92033	11.50534	13.6167	14.1	10.46	4.4563	4.92033
1261	489785.89	3859076.54	6.49684	4.68581	11.11429	12.48151	13.76	9.832	4.0646	4.68581
1262	489835.89	3859076.54	6.35524	4.50316	13.38824	11.56172	13.83	9.295	3.7036	4.50316
1263	489885.89	3859076.54	6.21813	4.32467	10.14251	10.78945	14.05	8.821	3.5189	4.32467
1264	489935.89	3859076.54	6.08266	4.17344	11.09418	10.11968	14.4	8.412	3.4448	4.17344
1265	489985.89	3859076.54	5.95593	4.03873	12.24966	9.52862	14.86	8.019	3.3861	4.03873
1266	490035.89	3859076.54	5.8588	3.76284	15.8228	8.96741	15.8	7.571	3.1748	3.76284
1267	489585.89	3859126.54	7.47213	6.82961	8.86703	29.14589	16.07	15.72	6.3424	6.82961
1268	489635.89	3859126.54	7.23086	6.43447	12.71095	22.20824	15.27	13.94	5.9631	6.43447
1269	489685.89	3859126.54	7.02336	6.03247	18.03581	18.39816	14.8	12.71	5.583	6.03247
1270	489735.89	3859126.54	6.84282	5.61527	12.3267	15.90388	14.28	11.72	5.1863	5.61527
1271	489785.89	3859126.54	6.67937	5.20001	13.84519	14.14378	13.64	10.92	4.7697	5.20001
1272	489835.89	3859126.54	6.52957	4.83185	14.87956	12.81903	13.35	10.24	4.3419	4.83185
1273	489885.89	3859126.54	6.38937	4.65588	11.21418	11.75727	13.4	9.656	3.8958	4.65588
1274	489935.89	3859126.54	6.25113	4.46463	13.48617	10.93165	13.49	9.153	3.6505	4.46463
1275	489985.89	3859126.54	6.1307	4.27851	14.96111	10.20682	13.92	8.645	3.5438	4.27851
1276	490035.89	3859126.54	6.01604	4.05909	23.80212	9.60212	14.24	8.117	3.3987	4.05909
1277	489585.89	3859176.54	8.00594	7.72284	12.5936	49.59261	16.92	29.09	7.2917	7.72284
1278	489635.89	3859176.54	7.81336	7.24862	13.00996	37.38243	15.51	17.01	6.8038	7.24862
1279	489685.89	3859176.54	7.44357	6.83098	20.22128	25.1366	14.73	14.45	6.3849	6.83098
1280	489735.89	3859176.54	7.15145	6.41984	14.89145	20.01741	14.29	13.13	5.9861	6.41984
1281	489785.89	3859176.54	6.92425	5.98118	18.12746	16.97183	13.83	12.1	5.5678	5.98118
1282	489835.89	3859176.54	6.73396	5.52953	15.66938	14.86111	13.23	11.26	5.1283	5.52953
1283	489885.89	3859176.54	6.57007	5.05053	14.01777	13.29935	12.97	10.55	4.6654	5.05053
1284	489935.89	3859176.54	6.41825	4.79201	16.2668	12.12068	13.02	9.962	4.1961	4.79201
1285	489985.89	3859176.54	6.29028	4.59934	25.35708	11.09177	13.09	9.379	3.8048	4.59934
1286	490035.89	3859176.54	6.15578	4.40855	20.0603	10.31065	13.37	8.915	3.6486	4.40855
1287	489685.89	3859226.54	7.73762	7.72668	23.85454	52.41234	14.98	20.29	7.3047	7.72668
1288	489735.89	3859226.54	7.46828	7.27325	20.69032	29.68761	14.21	15.33	6.8416	7.27325
1289	489785.89	3859226.54	7.1784	6.82913	24.36716	22.32564	13.83	13.5	6.4074	6.82913
1290	489835.89	3859226.54	6.94492	6.36609	16.92314	18.32546	13.42	12.37	5.9705	6.36609
1291	489885.89	3859226.54	6.74981	5.90111	17.89802	15.7501	12.87	11.48	5.5145	5.90111
1292	489935.89	3859226.54	6.5828	5.38393	27.09486	13.93046	12.6	10.75	5.0145	5.38393
1293	489985.89	3859226.54	6.44851	4.96156	23.41581	12.43467	12.76	10.03	4.4235	4.96156
1294	490035.89	3859226.54	6.30402	4.73597	24.13559	11.39836	12.71	9.54	3.9885	4.73597
1295	489735.89	3859276.54	7.94266	8.2805	32.78503	46.99958	14.47	28.66	7.8735	8.2805
1296	489785.89	3859276.54	7.73751	7.74712	33.25722	38.7719	13.73	16.98	7.3344	7.74712
1297	489835.89	3859276.54	7.38326	7.2507	20.65024	25.78305	13.41	14.15	6.8482	7.2507
1298	489885.89	3859276.54	7.07841	6.78252	34.26574	20.12849	13.01	12.62	6.4036	6.78252
1299	489935.89	3859276.54	6.83675	6.29604	31.10504	16.86246	12.53	11.63	5.9337	6.29604
1300	489985.89	3859276.54	6.65458	5.66783	33.91965	14.4312	12.33	10.7	5.2936	5.66783
1301	490035.89	3859276.54	6.46793	5.17986	31.08273	13.06359	12.38	10.2	4.7935	5.17986
1302	490458.06	3859590.74	6.45296	7.2962	22.58619	23.50845	10.27	13.18	7.321	7.2962
1303	490508.06	3859590.74	6.22505	6.25267	22.13492	19.26842	10.14	11.82	6.2614	6.25267
1304	490558.06	3859590.74	6.0408	5.71952	21.69072	16.29878	10.24	10.74	5.4885	5.71952
1305	490608.06	3859590.74	5.89072	5.46976	20.98942	13.89717	10.39	9.76	5.0742	5.46976
1306	490658.06	3859590.74	5.76581	5.02717	20.02451	12.34876	10.69	8.946	4.6718	5.02717
1307	490708.06	3859590.74	5.65824	4.63093	19.21964	10.92728	11.22	8.283	4.337	4.63093

63.1272255	7.513570674	0.0010627	0.531248	7.030557	1.1418	23.7993	2.77E+01	7.55E+01
61.7365084	7.287987172	0.0009256	0.501644	7.335973	1.09225	23.66227	2.68E+01	7.48E+01
60.3929519	7.054886683	0.0011588	0.477574	7.692286	1.0447	22.85582	2.60E+01	7.35E+01
59.4448353	6.510172894	0.0011305	0.445844	8.077461	0.98515	20.80156	2.40E+01	7.23E+01
79.493636	12.62696909	0.0010094	1.897544	8.557423	2.425	44.99381	4.65E+01	1.04E+02
76.7197141	11.9111007	0.0008701	1.313981	7.807767	2.07961	42.2838	4.39E+01	9.83E+01
74.5347785	11.21540074	0.00092	1.058922	7.439384	1.86857	39.70502	4.13E+01	9.45E+01
72.655448	10.50296763	0.0013493	0.902251	7.190355	1.70636	37.10419	3.87E+01	9.14E+01
70.9513004	9.8041833	0.0016405	0.79635	6.920469	1.57664	34.38816	3.61E+01	8.83E+01
69.3405351	9.087483793	0.0011978	0.717247	6.609425	1.47094	31.57464	3.35E+01	8.53E+01
67.7865295	8.654342784	0.0011571	0.657452	6.452881	1.38315	28.79916	3.19E+01	8.19E+01
66.3091078	8.31700181	0.0013938	0.609003	6.485823	1.30753	26.24148	3.06E+01	7.87E+01
64.8785337	7.987344047	0.0010559	0.568324	6.588877	1.24096	24.93275	2.94E+01	7.68E+01
63.465071	7.708033478	0.001155	0.533045	6.75079	1.18333	24.40779	2.84E+01	7.57E+01
62.1427994	7.45923412	0.0012753	0.501911	6.96934	1.12804	23.99202	2.75E+01	7.47E+01
61.1293674	6.949685797	0.0016473	0.47235	7.408609	1.06507	22.49467	2.56E+01	7.39E+01
77.9624804	12.61378204	0.0009231	1.535233	7.534556	2.21151	44.93791	4.64E+01	1.00E+02
75.4451248	11.88398783	0.0013233	1.169798	7.162033	1.96152	42.25057	4.38E+01	9.61E+01
73.2801177	11.14152371	0.0018776	0.969106	6.940431	1.78747	39.55785	4.10E+01	9.27E+01
71.396405	10.37098632	0.0012833	0.837722	6.696138	1.64921	36.74681	3.82E+01	8.95E+01
69.6910054	9.604031965	0.0014414	0.745011	6.397108	1.53636	33.79476	3.54E+01	8.64E+01
68.1280268	8.924067809	0.0015491	0.675231	6.261778	1.44089	30.76421	3.29E+01	8.33E+01
66.6652123	8.599064299	0.0011675	0.619303	6.282382	1.3583	27.60315	3.17E+01	7.95E+01
65.2228481	8.245839764	0.001404	0.575815	6.325734	1.28761	25.86539	3.04E+01	7.72E+01
63.9663092	7.902089958	0.0015575	0.537635	6.52539	1.21608	25.10931	2.91E+01	7.62E+01
62.7699733	7.496837527	0.0024779	0.505783	6.677564	1.14187	24.08094	2.76E+01	7.51E+01
83.5321307	14.26351146	0.0013111	2.612245	7.936274	4.09213	51.66411	5.25E+01	1.12E+02
81.5227954	13.38766237	0.0013544	1.969085	7.272425	2.39274	48.20709	4.93E+01	1.05E+02
77.6644919	12.61631233	0.0021052	1.324047	6.905229	2.03301	45.23918	4.64E+01	9.93E+01
74.6165792	11.85696731	0.0015503	1.054399	6.698595	1.8468	42.41354	4.37E+01	9.48E+01
72.2460269	11.04679489	0.0018872	0.893975	6.483914	1.70211	39.44987	4.07E+01	9.12E+01
70.2605849	10.21263091	0.0016313	0.782795	6.203412	1.58389	36.33607	3.76E+01	8.78E+01
68.5505945	9.327953515	0.0014593	0.700531	6.081375	1.48453	33.0559	3.43E+01	8.49E+01
66.9665396	8.850486291	0.0016935	0.638446	6.106059	1.40138	29.7311	3.26E+01	8.11E+01
65.6313301	8.494639121	0.0026398	0.584249	6.139423	1.31938	26.95845	3.13E+01	7.79E+01
64.2279882	8.142264172	0.0020884	0.543104	6.270233	1.25409	25.85136	3.00E+01	7.63E+01
80.7325418	14.27060365	0.0024834	2.760772	7.025638	2.85421	51.75615	5.25E+01	1.07E+02
77.9223103	13.43315215	0.002154	1.563767	6.661715	2.15683	48.47499	4.95E+01	1.01E+02
74.8977693	12.61289552	0.0025368	1.175982	6.483502	1.89941	45.39902	4.64E+01	9.60E+01
72.4616929	11.75769505	0.0017618	0.965277	6.291869	1.74038	42.30322	4.33E+01	9.22E+01
70.4259601	10.89891155	0.0018633	0.829622	6.034249	1.61496	39.07229	4.01E+01	8.88E+01
68.6834163	9.943718535	0.0028207	0.733774	5.907758	1.5126	35.5294	3.66E+01	8.57E+01
67.2822655	9.163632538	0.0024377	0.654985	5.985186	1.41134	31.34231	3.37E+01	8.21E+01
65.7746901	8.746984576	0.0025127	0.600398	5.960727	1.34204	28.25961	3.22E+01	7.85E+01
82.8718818	15.29346803	0.0034131	2.475659	6.784304	4.03143	55.78673	5.63E+01	1.11E+02
80.731394	14.30835481	0.0034623	2.042274	6.437294	2.38895	51.9668	5.27E+01	1.05E+02
77.0352313	13.39150397	0.0021498	1.358098	6.288295	1.99107	48.52204	4.93E+01	9.93E+01
73.8544967	12.52681031	0.0035673	1.06025	6.10288	1.77597	45.37175	4.61E+01	9.46E+01
71.333072	11.62831791	0.0032382	0.888214	5.87386	1.63662	42.04241	4.28E+01	9.06E+01
69.4323523	10.46806073	0.0035312	0.76015	5.783738	1.50512	37.50728	3.85E+01	8.69E+01
67.4848893	9.566816413	0.0032359	0.688113	5.805215	1.4348	33.96361	3.52E+01	8.37E+01
67.3286957	13.47553909	0.0023514	1.238286	4.815992	1.85405	51.87207	4.96E+01	9.10E+01
64.9507354	11.54821674	0.0023044	1.014946	4.754128	1.66247	44.36442	4.25E+01	8.58E+01
63.0283134	10.56352832	0.0022581	0.858523	4.80087	1.51107	38.88829	3.89E+01	8.08E+01
61.4624133	10.10224017	0.0021851	0.732021	4.87434	1.37306	35.95233	3.72E+01	7.73E+01
60.1591312	9.284809332	0.0020847	0.65046	5.011278	1.25842	33.10153	3.42E+01	7.53E+01
59.0367706	8.552983503	0.0020009	0.575584	5.259702	1.16527	30.729	3.15E+01	7.38E+01

1308	490758.06	3859590.74	5.567	4.29729	18.33081	9.72065	11.7	7.637	4.0092	4.29729	58.0847935	7.936775222	0.0019083	0.512026	5.485576	1.07441	28.40684	2.92E+01	7.23E+01
1309	490808.06	3859590.74	5.47601	4.03307	17.32432	8.85326	12.09	7.187	3.7027	4.03307	57.1354248	7.448780521	0.0018036	0.466337	5.670147	1.01105	26.23518	2.74E+01	7.05E+01
1310	490858.06	3859590.74	5.39562	3.78349	16.44197	8.10331	12.42	6.766	3.4015	3.78349	56.2966541	6.987824812	0.0017117	0.426834	5.824145	0.95177	24.1005	2.57E+01	6.89E+01
1311	490458.06	3859640.74	7.1619	9.54493	19.7813	47.46932	10.04	18.06	9.6389	9.54493	74.7256121	17.62877626	0.0020594	2.500403	4.706533	2.54099	68.2948	6.49E+01	1.05E+02
1312	490508.06	3859640.74	6.75458	8.53433	19.25467	30.85677	10.02	14.99	8.6388	8.53433	70.4757292	15.76227317	0.0020045	1.625352	4.699095	2.10884	61.20887	5.80E+01	9.78E+01
1313	490558.06	3859640.74	6.43409	7.39949	19.11786	24.19408	9.891	13.17	7.4681	7.39949	67.1318105	13.66630804	0.0019903	1.274401	4.637869	1.85282	52.91432	5.03E+01	9.12E+01
1314	490608.06	3859640.74	6.19414	6.18936	18.62357	19.71615	9.905	11.74	6.0751	6.18936	64.6282276	11.43128788	0.0019388	1.03853	4.644415	1.65199	43.04449	4.21E+01	8.44E+01
1315	490658.06	3859640.74	6.00747	5.88158	18.12428	16.80535	10.08	10.54	5.5017	5.88158	62.6805559	10.8628411	0.0018868	0.885206	4.726977	1.48331	38.9816	4.00E+01	7.96E+01
1316	490708.06	3859640.74	5.85187	5.39282	17.7837	14.51857	10.23	9.59	5.0331	5.39282	61.0570614	9.960137704	0.0018514	0.764752	4.798802	1.34902	35.66119	3.67E+01	7.69E+01
1317	490758.06	3859640.74	5.72529	4.95412	17.60933	12.3454	10.76	8.689	4.6668	4.95412	59.7363548	9.149891411	0.0018332	0.650283	5.045913	1.22232	33.06575	3.37E+01	7.52E+01
1318	490808.06	3859640.74	5.60487	4.63477	17.44123	10.97987	11.21	8.091	4.378	4.63477	58.4799204	8.560075698	0.0018157	0.578354	5.25521	1.13827	31.0195	3.15E+01	7.35E+01
1319	490858.06	3859640.74	5.49686	4.34668	17.0467	9.89277	11.6	7.591	4.0487	4.34668	57.3529689	8.027994881	0.0017747	0.521093	5.437531	1.06781	28.68636	2.96E+01	7.15E+01
1320	490608.06	3859690.74	6.71125	8.79713	17.89115	31.37454	9.704	15.02	8.9073	8.79713	70.023634	16.24764524	0.0018626	1.652625	4.550354	2.11365	63.11122	5.98E+01	9.79E+01
1321	490658.06	3859690.74	6.38892	6.98053	16.6647	24.12025	9.614	12.99	7.0428	6.98053	66.6605171	12.89252006	0.0017349	1.270512	4.508114	1.82797	49.90042	4.75E+01	8.96E+01
1322	490708.06	3859690.74	6.14261	6.3733	16.07209	20.39979	9.777	11.57	6.0934	6.3733	64.0905754	11.77101139	0.0016732	1.07454	4.584524	1.62709	43.17422	4.33E+01	8.30E+01
1323	490758.06	3859690.74	5.95297	5.83457	15.79855	16.83983	9.893	10.28	5.6048	5.83457	62.1119154	10.77601712	0.0016447	0.887022	4.639168	1.44589	39.71182	3.97E+01	7.99E+01
1324	490808.06	3859690.74	5.79231	5.38442	15.53308	14.29253	10.31	9.288	5.1512	5.38442	60.4356261	9.944623528	0.0016171	0.752846	4.833005	1.30656	36.49804	3.66E+01	7.72E+01
1325	490858.06	3859690.74	5.63897	5.10359	15.33615	12.95062	10.72	8.805	4.9128	5.10359	58.8357119	9.425951392	0.0015966	0.682162	5.025655	1.2387	34.80896	3.47E+01	7.53E+01
1326	490708.06	3859740.74	6.66498	8.51826	16.02784	31.86928	9.36	15.01	8.6873	8.51826	69.5408635	15.73259308	0.0016686	1.678685	4.388934	2.11095	61.55258	5.79E+01	9.71E+01
1327	490758.06	3859740.74	6.2887	7.27874	15.5912	24.90322	9.442	13.2	7.2572	7.27874	65.6148448	13.44329177	0.0016231	1.311754	4.427624	1.8567	51.4196	4.95E+01	8.86E+01
1328	490808.06	3859740.74	6.026	6.61382	14.84164	21.01976	9.537	11.82	6.4813	6.61382	62.8738936	12.21523395	0.0015451	1.107196	4.472026	1.66292	45.92207	4.50E+01	8.33E+01
1329	490858.06	3859740.74	5.82152	6.10112	14.29578	18.30469	9.796	10.8	6.0397	6.10112	60.7403965	11.26831516	0.0014883	0.964183	4.593753	1.51935	42.79317	4.15E+01	8.04E+01
1330	490786.56	3859749.39	6.20526	7.20144	15.24184	23.95998	9.426	12.91	7.1912	7.20144	64.7442511	13.30052441	0.0015868	1.26207	4.419929	1.81579	50.95189	4.90E+01	8.75E+01
1331	490836.56	3859749.39	5.95165	6.55153	14.52903	20.41967	9.5	11.62	6.446	6.55153	62.0981429	12.10018895	0.0015126	1.075587	4.454737	1.63404	45.67238	4.45E+01	8.25E+01
1332	490786.56	3859799.39	6.91988	10.80186	15.44725	48.63554	9.011	17.99	11.131	10.80186	72.2004313	19.95023254	0.0016082	2.561832	4.225464	2.53016	78.86644	7.35E+01	1.07E+02
1333	490836.56	3859799.39	6.46278	8.92315	14.49926	31.39901	9.109	14.82	9.0984	8.92315	67.4311553	16.48039481	0.0015095	1.653914	4.271282	2.08475	64.46523	6.07E+01	9.57E+01
1334	492307.84	3854508.36	2.19242	0.78876	1.61375	1.12065	8.162	0.879	0.8643	0.78876	22.8752044	1.456781093	0.000168	0.059029	3.827436	0.12363	6.124161	5.36E+00	2.91E+01
1335	486445.7	3854753.6	4.13632	2.21837	3.19883	2.08217	8.093	1.391	2.3973	2.21837	43.1574085	4.097164504	0.000333	0.109676	3.794977	0.19574	16.98559	1.51E+01	5.33E+01
1336	472599.75	3877830.11	0.37258	0.21171	0.31564	0.25706	0.657	0.295	0.2129	0.21171	3.88741375	0.391012634	3.286E-05	0.01354	0.307855	0.04145	1.508473	1.44E+00	4.71E+00
1337	493107.48	3866840.19	2.88319	0.8125	0.67241	1.03086	4.153	1.368	0.7691	0.8125	30.0825392	1.500627109	7E-05	0.0543	1.947323	0.19238	5.449634	5.52E+00	3.37E+01
1338	495815.79	3861662.87	1.94013	3.63512	2.67699	2.25783	5.315	2.599	3.6432	3.63512	20.2428688	6.71379645	0.0002787	0.118929	2.492507	0.36559	25.8136	2.47E+01	3.10E+01
1339	480272.33	3841389.2	0.43479	0.13308	0.22946	0.22307	0.379	0.245	0.1421	0.13308	4.53649854	0.245788868	2.389E-05	0.01175	0.177594	0.03449	1.007113	9.05E-01	5.11E+00
1340	497005.18	3862813.64	1.973	4.33998	2.37506	1.88541	4.552	1.792	4.4084	4.33998	20.5858268	8.015620479	0.0002473	0.099312	2.134511	0.25214	31.23503	2.95E+01	3.28E+01
1341	493677.33	3860302.55	2.80347	2.1202	5.48192	4.27908	7.571	18.8	1.8756	2.1202	29.2507591	3.91585181	0.0005707	0.225397	3.550061	2.64491	13.28952	1.44E+01	3.85E+01
1342	493727.33	3860302.55	2.78761	2.08944	5.3911	4.18913	7.309	18.72	1.8468	2.08944	29.0852795	3.859040377	0.0005612	0.220659	3.427438	2.63349	13.08546	1.42E+01	3.81E+01
1343	493777.33	3860302.55	2.77477	2.07518	5.304	4.10209	7.057	18.79	1.8221	2.07518	28.95131	3.832703217	0.0005522	0.216074	3.309116	2.64262	12.91045	1.41E+01	3.78E+01
1344	493827.33	3860302.55	2.76262	2.07274	5.23875	4.03355	6.809	18.82	1.8101	2.07274	28.8245397	3.828196718	0.0005454	0.212464	3.192904	2.64697	12.825	1.41E+01	3.74E+01
1345	493877.33	3860302.55	2.74471	2.04469	5.1873	3.96298	6.641	18.52	1.7834	2.04469	28.6376708	3.776390453	0.00054	0.208746	3.114036	2.60522	12.6361	1.39E+01	3.71E+01
1346	493927.33	3860302.55	2.72375	2.00558	5.14136	3.88056	6.485	18.08	1.7516	2.00558	28.418979	3.70415719	0.0005352	0.204405	3.040739	2.54289	12.41043	1.36E+01	3.67E+01
1347	493977.33	3860302.55	2.72834	1.99693	5.03111	3.88246	6.371	18.45	1.735	1.99693	28.46687	3.688181283	0.0005238	0.204505	2.987705	2.59477	12.2931	1.36E+01	3.67E+01
1348	494027.33	3860302.55	2.7208	1.9688	4.94989	3.83754	6.237	18.29	1.7067	1.9688	28.3881994	3.636227264	0.0005153	0.202139	2.924522	2.57242	12.09251	1.34E+01	3.64E+01
1349	493677.33	3860352.55	2.80628	2.16036	5.62207	4.43159	7.849	12.84	1.9336	2.16036	29.280078	3.990024345	0.0005853	0.23343	3.680415	1.80613	13.6999	1.47E+01	3.80E+01
1350	493727.33	3860352.55	2.77315	2.12242	5.55911	4.29463	7.584	12.8	1.8913	2.12242	28.9344072	3.919951985	0.0005787	0.226216	3.556325	1.80087	13.40083	1.44E+01	3.74E+01
1351	493777.33	3860352.55	2.75373	2.08448	5.49191	4.16771	7.322	12.75	1.8511	2.08448	28.7317834	3.849879625	0.0005717	0.21953	3.433431	1.79389	13.11564	1.42E+01	3.70E+01
1352	493827.33	3860352.55	2.73829	2.05314	5.41327	4.04783	7.07	12.77	1.8166	2.05314	28.570686	3.791996975	0.0005636	0.213216	3.315099	1.79707	12.87141	1.40E+01	3.66E+01
1353	493877.33	3860352.55	2.72682	2.02524	5.3228	3.93643	6.829	12.89	1.7863	2.02524	28.4510107	3.740467748	0.0005541	0.207348	3.202451	1.81313	12.65686	1.38E+01	3.63E+01
1354	493927.33	3860352.55	2.72165	2.01008	5.21253	3.87765	6.609	13.12	1.7601	2.01008	28.3970681	3.712468355	0.0005427	0.204252	3.098871	1.84543	12.47116	1.37E+01	3.61E+01
1355	493977.33	3860352.55	2.72105	2.03241	5.08828	3.83934	6.49	13.36	1.7634	2.03241	28.3908079	3.753710206	0.0005297	0.202234	3.043351	1.88008	12.49418	1.38E+01	3.59E+01
1356	494027.33	3860352.55	2.70553	2.0047	5.01819	3.77931	6.347	13.34	1.7349	2.0047	28.2288758	3.702531895	0.0005224	0.199072	2.976094	1.87703	12.29246	1.36E+01	3.56E+01
1357	493677.33	3860402.55	2.80827	2.24939	5.68679	4.85672	8.148	10.5	2.0559	2.24939	29.3008412	4.154456138	0.000592	0.255823	3.820744	1.4776	14.56651	1.53E+01	3.83E+01
1358	493727.33	3860402.55	2.7751	2.20433	5.63657	4.67153	7.821	10.43	2.0019	2.20433	28.9547531	4.071233667	0.0005868	0.246069	3.66745	1.46757	14.1839	1.50E+01	3.76E+01
1359	493777.33	3860402.55	2.75838	2.14869	5.54653	4.47688	7.611	10.59	1.9436	2.14869	28.7803005	3.968470723	0.0005774	0.235816	3.568977	1.49013	13.77082	1.46E+01	3.72E+01
1360	493827.33	3860402.55	2.72562	2.11159	5.5042	4.32116	7.343	10.47	1.8962	2.11159	28.4384902	3.89994978	0.000573	0.227613	3.44332	1.47318	13.43554	1.44E+01	3.66E+01
1361	493877.33	3860402.55	2.7081	2.07268	5.44415	4.19072	7.092	10.43	1.8554	2.07268	28.2556906	3.828085902	0.0005668	0.220742	3.325772	1.46715	13.14639	1.41E+01	3.62E+01
1362	493927.33	3860402.55	2.70583	2.03509	5.34834	4.08602	6.877	10.61	1.8127	2.03509	28.2320059	3.758659966	0.0005568	0.215227	3.224598	1.49187	12.84349	1.38E+01	3.59E+01
1363	493977.33	3860402.55	2.70955	2.01994	5.23006	4.04186	6.672	10.83	1.7875	2.01994	28.2708195	3.730679042	0.0005445	0.212901	3.128732	1.52381	12.66508	1.37E+01	3.58E+01
1364	494027.33	3860402.55	2.69011	1.98959	5.17383	3.9118	6.446	10.77	1.7508	1.98959	28.067987	3.674624848	0.0005386	0.20605	3.022475	1.51449	12.40505	1.35E+01	3.54E+01

1365	493677.33	3860452.55	2.81688	2.35424	5.56713	5.25193	8.531	9.454	2.1849	2.35424	29.390676	4.348106295	0.0005796	0.276641	4.000504	1.32999	15.48073	1.60E+01	3.88E+01
1366	493727.33	3860452.55	2.77453	2.31307	5.474	5.06683	8.189	9.24	2.1297	2.31307	28.9488058	4.272068365	0.0005699	0.266891	3.840115	1.2999	15.08948	1.57E+01	3.80E+01
1367	493777.33	3860452.55	2.74441	2.26349	5.44154	4.89643	7.873	9.167	2.0725	2.26349	28.6345407	4.18049779	0.0005665	0.257915	3.691594	1.28955	14.68469	1.54E+01	3.73E+01
1368	493827.33	3860452.55	2.72425	2.20888	5.45545	4.73646	7.583	9.226	2.0158	2.20888	28.4241959	4.079637179	0.0005679	0.249489	3.555974	1.2979	14.28274	1.50E+01	3.69E+01
1369	493877.33	3860452.55	2.70133	2.15673	5.44659	4.57821	7.362	9.237	1.9613	2.15673	28.1850539	3.983320005	0.000567	0.241153	3.452136	1.29947	13.89673	1.47E+01	3.64E+01
1370	493927.33	3860452.55	2.70004	2.09762	5.36862	4.41944	7.167	9.376	1.9031	2.09762	28.1715944	3.874148229	0.0005589	0.23279	3.36065	1.31902	13.48436	1.43E+01	3.62E+01
1371	493977.33	3860452.55	2.68512	2.05907	5.31676	4.26328	6.927	9.355	1.855	2.05907	28.0159225	3.802949244	0.0005535	0.224564	3.248002	1.31603	13.14306	1.40E+01	3.57E+01
1372	494027.33	3860452.55	2.66961	2.0228	5.26406	4.11556	6.686	9.329	1.8168	2.0228	27.8540948	3.73596125	0.000548	0.216783	3.135269	1.31237	12.8724	1.38E+01	3.54E+01
1373	493677.33	3860502.55	2.81593	2.45658	5.30457	5.44829	8.828	8.773	2.3117	2.45658	29.3807639	4.537120668	0.0005522	0.286984	4.139726	1.23421	16.37944	1.67E+01	3.93E+01
1374	493727.33	3860502.55	2.77878	2.40531	5.25683	5.29968	8.536	8.577	2.2519	2.40531	28.9931494	4.442428789	0.0005473	0.279156	4.002797	1.20663	15.95517	1.64E+01	3.85E+01
1375	493777.33	3860502.55	2.74964	2.35365	5.24707	5.1544	8.252	8.468	2.1923	2.35365	28.6891093	4.347016608	0.0005463	0.271503	3.869718	1.19124	15.53317	1.60E+01	3.79E+01
1376	493827.33	3860502.55	2.72174	2.3037	5.23806	5.00909	7.958	8.381	2.1348	2.3037	28.3980072	4.254762671	0.0005453	0.263849	3.73179	1.17901	15.12597	1.57E+01	3.73E+01
1377	493877.33	3860502.55	2.70251	2.25282	5.2687	4.86936	7.678	8.399	2.0782	2.25282	28.1973658	4.160791093	0.0005485	0.256489	3.600207	1.18153	14.72494	1.53E+01	3.68E+01
1378	493927.33	3860502.55	2.68795	2.19315	5.31203	4.73839	7.399	8.48	2.0198	2.19315	28.0454501	4.050585038	0.000553	0.24959	3.469753	1.19291	14.31101	1.49E+01	3.64E+01
1379	493977.33	3860502.55	2.658	2.15159	5.27461	4.59355	7.161	8.392	1.9697	2.15159	27.7329587	3.973826807	0.0005491	0.241961	3.357987	1.18056	13.95632	1.46E+01	3.58E+01
1380	494027.33	3860502.55	2.64498	2.10618	5.25343	4.45552	6.932	8.361	1.9195	2.10618	27.597111	3.889957912	0.0005469	0.23469	3.250679	1.17617	13.60028	1.43E+01	3.54E+01
1381	493627.33	3860552.55	2.83826	2.59558	5.09247	5.45695	9.236	9.101	2.4869	2.59558	29.61375	4.793843336	0.0005302	0.28744	4.331149	1.28026	17.62065	1.76E+01	4.03E+01
1382	493677.33	3860552.55	2.80174	2.54147	5.02486	5.37929	9.009	8.793	2.4248	2.54147	29.2327087	4.693906188	0.0005231	0.283349	4.224451	1.23694	17.1808	1.73E+01	3.96E+01
1383	493727.33	3860552.55	2.76811	2.48675	4.96686	5.28932	8.769	8.528	2.362	2.48675	28.881821	4.592842415	0.0005171	0.27861	4.111905	1.19963	16.73548	1.69E+01	3.89E+01
1384	493777.33	3860552.55	2.74306	2.43494	4.95259	5.20077	8.538	8.327	2.3025	2.43494	28.6204551	4.497153196	0.0005156	0.273946	4.003571	1.17142	16.31404	1.66E+01	3.83E+01
1385	493827.33	3860552.55	2.72375	2.38591	5.0061	5.10867	8.307	8.229	2.2464	2.38591	28.418979	4.406598431	0.0005212	0.269094	3.895176	1.15757	15.91655	1.62E+01	3.78E+01
1386	493877.33	3860552.55	2.69388	2.33678	4.99555	4.99672	8.022	8.102	2.1894	2.33678	28.1073224	4.315858972	0.0005201	0.263198	3.761567	1.13976	15.51269	1.59E+01	3.72E+01
1387	493927.33	3860552.55	2.67426	2.28897	5.03332	4.88973	7.756	8	2.1346	2.28897	27.9026118	4.227557456	0.000524	0.257562	3.636956	1.12545	15.1242	1.56E+01	3.67E+01
1388	493977.33	3860552.55	2.65719	2.23991	5.07655	4.77879	7.484	7.852	2.0794	2.23991	27.7245074	4.136947283	0.0005285	0.251718	3.509602	1.10464	14.73337	1.52E+01	3.62E+01
1389	494027.33	3860552.55	2.62896	2.19625	5.05709	4.65871	7.171	7.754	2.0285	2.19625	27.4299621	4.056310508	0.0005265	0.245393	3.362469	1.09085	14.37237	1.49E+01	3.56E+01
1390	493627.33	3860602.55	2.82615	2.65869	4.86326	5.02396	9.303	8.851	2.5752	2.65869	29.487397	4.910402816	0.0005063	0.264632	4.362177	1.24517	18.24622	1.81E+01	4.04E+01
1391	493727.33	3860602.55	2.7507	2.53963	4.7352	4.99667	8.902	8.396	2.4411	2.53963	28.7001691	4.690507845	0.000493	0.263195	4.17422	1.18117	17.29579	1.73E+01	3.90E+01
1392	493777.33	3860602.55	2.73446	2.50128	4.79248	4.99958	8.75	8.29	2.3928	2.50128	28.5307247	4.619678245	0.0004989	0.263348	4.103015	1.16618	16.95385	1.70E+01	3.86E+01
1393	493827.33	3860602.55	2.70897	2.4533	4.78036	4.96337	8.537	8.124	2.3376	2.4533	28.2647679	4.531062752	0.0004977	0.261441	4.003327	1.14284	16.5626	1.67E+01	3.81E+01
1394	493877.33	3860602.55	2.69163	2.40955	4.80465	4.92579	8.333	7.953	2.2893	2.40955	28.0838464	4.450259754	0.0005002	0.259461	3.907307	1.11878	16.22059	1.64E+01	3.77E+01
1395	493927.33	3860602.55	2.66974	2.36265	4.79883	4.86635	8.091	7.805	2.2352	2.36265	27.8554512	4.36363894	0.0004996	0.25633	3.794035	1.098	15.83734	1.61E+01	3.71E+01
1396	493977.33	3860602.55	2.64968	2.31614	4.80857	4.79772	7.839	7.696	2.1817	2.31614	27.6461498	4.277738427	0.0005006	0.252715	3.675839	1.08264	15.4582	1.57E+01	3.66E+01
1397	494027.33	3860602.55	2.61982	2.27132	4.79479	4.71116	7.542	7.546	2.1296	2.27132	27.3345974	4.194959218	0.0004992	0.248156	3.536715	1.0615	15.08877	1.54E+01	3.60E+01
1398	493627.33	3860652.55	2.80852	2.68566	4.59205	4.50301	9.342	8.058	2.6227	2.68566	29.3034497	4.960214401	0.0004781	0.237192	4.380854	1.13356	18.58299	1.83E+01	4.03E+01
1399	493727.33	3860652.55	2.73705	2.58164	4.49301	4.47172	8.969	7.985	2.5055	2.58164	28.5577482	4.768097193	0.0004677	0.235544	4.205924	1.12325	17.7523	1.76E+01	3.91E+01
1400	493777.33	3860652.55	2.717	2.54299	4.52984	4.54343	8.852	7.947	2.4598	2.54299	28.3485511	4.696713515	0.0004716	0.239321	4.15107	1.11791	17.42829	1.73E+01	3.87E+01
1401	493827.33	3860652.55	2.69758	2.50106	4.5744	4.59262	8.709	7.838	2.4122	2.50106	28.1459273	4.619271922	0.0004762	0.241912	4.084033	1.10261	17.09131	1.70E+01	3.83E+01
1402	493877.33	3860652.55	2.68126	2.46373	4.62895	4.6258	8.551	7.666	2.3669	2.46373	27.9756482	4.550326186	0.0004819	0.24366	4.009822	1.0784	16.77062	1.68E+01	3.79E+01
1403	493927.33	3860652.55	2.65852	2.42201	4.63384	4.62736	8.345	7.567	2.3178	2.42201	27.7383843	4.473272447	0.0004824	0.243742	3.91307	1.06452	16.42245	1.65E+01	3.74E+01
1404	493977.33	3860652.55	2.63521	2.37819	4.62885	4.61213	8.116	7.463	2.2677	2.37819	27.4951731	4.392340164	0.0004819	0.24294	3.805926	1.04992	16.06747	1.62E+01	3.69E+01
1405	494027.33	3860652.55	2.61829	2.33576	4.64908	4.59167	7.891	7.375	2.2196	2.33576	27.3186337	4.313975108	0.000484	0.241862	3.700448	1.0375	15.72631	1.59E+01	3.65E+01
1406	494311.06	3858401.99	1.99316	0.47762	1.1106	1.18642	5.327	1.049	0.5184	0.47762	20.7961716	0.88212864	0.0001156	0.062494	2.497843	0.14759	3.673264	3.25E+00	2.48E+01
1407	494361.06	3858401.99	1.9528	0.4777	1.08902	1.17245	5.23	1.052	0.5135	0.4777	20.3750646	0.882276394	0.0001134	0.061758	2.452307	0.14792	3.63812	3.25E+00	2.43E+01
1408	494411.06	3858401.99	1.92943	0.4777	1.06733	1.16192	5.144	1.057	0.5093	0.4777	20.1312274	0.882276394	0.0001111	0.061203	2.412055	0.14865	3.608645	3.25E+00	2.40E+01
1409	494461.06	3858401.99	1.9238	0.47761	1.0457	1.15375	5.076	1.069	0.5064	0.47761	20.0724853	0.88211017	0.0001089	0.060773	2.380248	0.15042	3.588239	3.25E+00	2.39E+01
1410	494511.06	3858401.99	1.89757	0.47733	1.02344	1.13043	5.003	1.086	0.5012	0.47733	19.7988075	0.881593031	0.0001065	0.059544	2.346153	0.15271	3.551325	3.25E+00	2.35E+01
1411	494561.06	3858401.99	1.89055	0.47694	1.00321	1.12134	4.939	1.099	0.4981	0.47694	19.7255625	0.88087273	0.0001044	0.059066	2.316151	0.15466	3.529502	3.24E+00	2.34E+01
1412	494611.06	3858401.99	1.54203	0.47629	0.98579	1.10672	4.864	1.117	0.4917	0.47629	16.0891852	0.879672228	0.0001026	0.058295	2.280626	0.1571	3.484014	3.24E+00	1.97E+01
1413	494661.06	3858401.99	1.52143	0.47555	0.86522	1.09689	3.797	1.134	0.4862	0.47555	15.8742496	0.878305503	9.007E-05	0.057778	1.780453	0.15948	3.444761	3.23E+00	1.90E+01
1414	494711.06	3858401.99	1.48531	0.47453	0.85509	1.09128	3.756	1.155	0.4766	0.47453	15.4973818	0.876421639	8.902E-05	0.057482	1.761453	0.16241	3.376954	3.23E+00	1.85E+01
1415	494761.06	3858401.99	1.47146	0.47351	0.84826	1.08687	3.726	1.171	0.4715	0.47351	15.3528741	0.874537775	8.831E-05	0.05725	1.747071	0.16479	3.340889	3.22E+00	1.83E+01
1416	494811.06	3858401.99	1.44646	0.47233	0.83841	1.08218	3.688	1.192	0.4649	0.47233	15.0920299	0.872358403	8.728E-05	0.057003	1.729379	0.16766	3.293913	3.21E+00	1.80E+01
1417	494861.06	3858401.99	1.42597	0.47103	0.82811	1.06956	3.651	1.214	0.4594	0.47103	14.878242	0.869957399	8.621E-05	0.056338	1.711977	0.17071	3.254731	3.20E+00	1.77E+01
1418	494911.06	3858401.99	1.407	0.46959	0.81666	1.06284	3.613	1.238	0.4543	0.46959	14.6803134	0.867297826	8.502E-05	0.055984	1.693985	0.17411	3.218667	3.19E+00	1.75E+01
1419	494961.06	3858401.99	1.39452	0.46803	0.80428	1.0563	3.572	1.26	0.4451	0.46803	14.5500999	0.864416622	8.373E-05	0.05564	1.67512	0.17731	3.153836	3.18E+00	1.73E+01
1420	495011.06	3858401.99	1.38574	0.4663	0.78967	1.04863	3.527	1.293	0.4357	0.4663	14.4584914	0.861221441	8.221E-05	0.055236	1.653695	0.18194	3.086737	3.17E+00	1.71E+01
1421	495061.06	3858401.99	1.3824	0.46443	0.77643	1.04084	3.485	1.338	0.4274	0.46443	14.4236426	0.85776769	8.083E-05	0.054825	1.634033	0.18823	3.028567	3.16E+00	1.70E+01

1422	495111.06	3858401.99	1.3793	0.46226	0.76489	1.01673	3.426	1.403	0.4251	0.46226	14.391298	0.853759861	7.963E-05	0.053555	1.606353	0.1973	3.011703	3.14E+00	1.70E+01
1423	495161.06	3858401.99	1.37739	0.46025	0.76135	1.00925	3.392	1.443	0.4231	0.46025	14.3713695	0.850047541	7.926E-05	0.053161	1.59056	0.20301	2.997816	3.13E+00	1.69E+01
1424	495211.06	3858401.99	1.37441	0.45489	0.73232	0.98766	3.342	1.511	0.4204	0.45489	14.3402768	0.840148019	7.624E-05	0.052024	1.567086	0.21254	2.978615	3.09E+00	1.69E+01
1425	495261.06	3858401.99	1.37198	0.44905	0.72779	0.97512	3.307	1.581	0.418	0.44905	14.3149228	0.829361973	7.577E-05	0.051364	1.550814	0.22242	2.961539	3.05E+00	1.69E+01
1426	495311.06	3858401.99	1.36949	0.44126	0.72514	0.9615	3.277	1.66	0.4156	0.44126	14.2889427	0.814974422	7.549E-05	0.050646	1.536564	0.23347	2.944605	3.00E+00	1.69E+01
1427	495361.06	3858401.99	1.36722	0.43857	0.72286	0.9533	3.249	1.731	0.4126	0.43857	14.265258	0.810006192	7.525E-05	0.050214	1.523734	0.24345	2.923703	2.98E+00	1.68E+01
1428	495411.06	3858401.99	1.36514	0.4359	0.72378	0.94915	3.225	1.795	0.4097	0.4359	14.2435558	0.805074901	7.535E-05	0.049996	1.512302	0.25253	2.902872	2.96E+00	1.68E+01
1429	495461.06	3858401.99	1.36313	0.43319	0.72578	0.94694	3.202	1.853	0.4073	0.43319	14.2225839	0.800069732	7.556E-05	0.049879	1.501245	0.26068	2.885797	2.95E+00	1.68E+01
1430	495511.06	3858401.99	1.36103	0.43061	0.72855	0.94323	3.176	1.912	0.4043	0.43061	14.200673	0.795304664	7.585E-05	0.049684	1.489325	0.26892	2.864328	2.93E+00	1.67E+01
1431	495561.06	3858401.99	1.35904	0.42878	0.72712	0.94173	3.135	1.97	0.4021	0.42878	14.1799098	0.79192479	7.57E-05	0.049605	1.470132	0.27708	2.848953	2.92E+00	1.67E+01
1432	495611.06	3858401.99	1.35692	0.42752	0.7288	0.93891	3.108	2.057	0.401	0.42752	14.1577902	0.789597663	7.587E-05	0.049456	1.457551	0.28932	2.841371	2.91E+00	1.67E+01
1433	495661.06	3858401.99	1.35473	0.42614	0.73452	0.93512	3.1	2.154	0.3996	0.42614	14.1349402	0.787048906	7.647E-05	0.049257	1.453598	0.30307	2.830956	2.90E+00	1.67E+01
1434	494311.06	3858451.99	2.10141	0.48407	1.08017	1.19244	5.632	1.097	0.5367	0.48407	21.9256271	0.89404131	0.0001125	0.062811	2.641009	0.15432	3.802926	3.29E+00	2.62E+01
1435	494361.06	3858451.99	2.06967	0.47756	1.06126	1.18167	5.542	1.095	0.5265	0.47756	21.5944592	0.882017824	0.0001105	0.062243	2.598614	0.15403	3.73023	3.25E+00	2.58E+01
1436	494411.06	3858451.99	2.04438	0.47698	1.04384	1.17125	5.467	1.097	0.5215	0.47698	21.3305892	0.880946607	0.0001087	0.061695	2.563708	0.15433	3.694874	3.24E+00	2.54E+01
1437	494461.06	3858451.99	2.02352	0.47686	1.0273	1.16205	5.394	1.1	0.5182	0.47686	21.1129408	0.880724976	0.0001069	0.06121	2.529435	0.15469	3.671917	3.24E+00	2.52E+01
1438	494511.06	3858451.99	2.01489	0.4769	1.01126	1.1541	5.329	1.105	0.5156	0.4769	21.0228974	0.880798853	0.0001053	0.060791	2.498702	0.1554	3.652858	3.24E+00	2.50E+01
1439	494561.06	3858451.99	1.98525	0.47701	0.99045	1.14228	5.244	1.111	0.5111	0.47701	20.7136404	0.881002015	0.0001031	0.060169	2.459059	0.15632	3.621257	3.24E+00	2.46E+01
1440	494611.06	3858451.99	1.96546	0.47645	0.97003	1.13204	5.166	1.123	0.5076	0.47645	20.5071561	0.879967737	0.000101	0.059629	2.422263	0.158	3.596813	3.24E+00	2.44E+01
1441	494661.06	3858451.99	1.94326	0.47605	0.94818	1.12151	5.083	1.139	0.5032	0.47605	20.2755265	0.879228966	9.871E-05	0.059075	2.383708	0.16025	3.565566	3.24E+00	2.41E+01
1442	494711.06	3858451.99	1.91191	0.47575	0.92399	1.10869	4.993	1.157	0.4975	0.47575	19.9484278	0.878674889	9.619E-05	0.058399	2.341337	0.16272	3.524754	3.24E+00	2.37E+01
1443	494761.06	3858451.99	1.88004	0.4747	0.89895	1.08283	4.915	1.175	0.4911	0.4747	19.6159036	0.876735617	9.359E-05	0.057037	2.304752	0.16536	3.479337	3.23E+00	2.33E+01
1444	494811.06	3858451.99	1.53574	0.4738	0.87462	1.07095	4.846	1.199	0.4849	0.4738	16.0235568	0.875073384	9.105E-05	0.056411	2.272284	0.16866	3.435975	3.22E+00	1.96E+01
1445	494861.06	3858451.99	1.50834	0.47275	0.83139	1.06166	3.755	1.231	0.4782	0.47275	15.7376715	0.873134112	8.655E-05	0.055922	1.760796	0.17318	3.38822	3.21E+00	1.88E+01
1446	494911.06	3858451.99	1.4769	0.47184	0.8181	1.05206	3.703	1.264	0.4713	0.47184	15.4096338	0.871453409	8.517E-05	0.055416	1.73623	0.17783	3.339047	3.21E+00	1.84E+01
1447	494961.06	3858451.99	1.44643	0.47012	0.80773	1.03031	3.676	1.299	0.4617	0.47012	15.0917169	0.868276697	8.409E-05	0.054271	1.723756	0.18276	3.271099	3.20E+00	1.80E+01
1448	495011.06	3858451.99	1.41506	0.46863	0.79709	1.01299	3.637	1.338	0.4548	0.46863	14.7644095	0.865524778	8.298E-05	0.053358	1.705398	0.18821	3.222139	3.19E+00	1.76E+01
1449	495061.06	3858451.99	1.40523	0.46713	0.78943	1.00519	3.608	1.384	0.4493	0.46713	14.6618456	0.862754389	8.218E-05	0.052947	1.691865	0.19472	3.183382	3.18E+00	1.75E+01
1450	495111.06	3858451.99	1.39201	0.46565	0.78375	0.99601	3.567	1.431	0.4375	0.46565	14.5239112	0.860020939	8.159E-05	0.052464	1.672686	0.20132	3.099774	3.17E+00	1.72E+01
1451	495161.06	3858451.99	1.38353	0.4635	0.77782	0.98286	3.522	1.489	0.4283	0.4635	14.4354328	0.856050049	8.098E-05	0.051771	1.651674	0.20946	3.03466	3.15E+00	1.71E+01
1452	495211.06	3858451.99	1.38085	0.46188	0.77253	0.96566	3.477	1.551	0.4267	0.46188	14.4074703	0.853058029	8.043E-05	0.050865	1.630624	0.21816	3.023111	3.14E+00	1.70E+01
1453	495261.06	3858451.99	1.3785	0.4593	0.77279	0.95703	3.439	1.623	0.4244	0.4593	14.3829509	0.848292961	8.045E-05	0.050411	1.612697	0.22831	3.007098	3.12E+00	1.70E+01
1454	495311.06	3858451.99	1.37624	0.4566	0.73838	0.9502	3.403	1.692	0.422	0.4566	14.3593706	0.843306262	7.687E-05	0.050051	1.595624	0.23803	2.990235	3.10E+00	1.70E+01
1455	495361.06	3858451.99	1.37408	0.45375	0.73973	0.94375	3.367	1.756	0.4198	0.45375	14.3368337	0.838042524	7.701E-05	0.049711	1.579067	0.24697	2.974434	3.09E+00	1.69E+01
1456	495411.06	3858451.99	1.37212	0.45143	0.74131	0.94105	3.337	1.811	0.4175	0.45143	14.3163835	0.833757656	7.717E-05	0.049569	1.564671	0.25478	2.958138	3.07E+00	1.69E+01
1457	495461.06	3858451.99	1.37018	0.4494	0.74256	0.93906	3.306	1.867	0.4151	0.4494	14.296142	0.830008397	7.731E-05	0.049464	1.550402	0.26257	2.941133	3.06E+00	1.69E+01
1458	495511.06	3858451.99	1.36782	0.44517	0.74222	0.93216	3.267	1.954	0.4127	0.44517	14.2715183	0.822195902	7.727E-05	0.049101	1.53179	0.27491	2.924412	3.03E+00	1.68E+01
1459	495561.06	3858451.99	1.36609	0.44377	0.74323	0.9332	3.242	2.019	0.41	0.44377	14.2534679	0.819610206	7.737E-05	0.049155	1.520245	0.28396	2.905069	3.02E+00	1.68E+01
1460	495611.06	3858451.99	1.36355	0.43875	0.7417	0.92416	3.214	2.121	0.4073	0.43875	14.2269661	0.810338639	7.722E-05	0.048679	1.506923	0.29832	2.885655	2.98E+00	1.68E+01
1461	495661.06	3858451.99	1.36161	0.43864	0.74149	0.92419	3.194	2.199	0.4051	0.43864	14.2067246	0.810135477	7.719E-05	0.048681	1.497733	0.30941	2.870421	2.98E+00	1.68E+01
1462	494311.06	3858501.99	2.16074	0.49888	1.066	1.19212	5.896	1.149	0.5634	0.49888	22.5446626	0.921394279	0.000111	0.062794	2.764668	0.16165	3.992105	3.39E+00	2.71E+01
1463	494361.06	3858501.99	2.14254	0.48977	1.05042	1.18478	5.827	1.145	0.5492	0.48977	22.354768	0.904568786	0.0001094	0.062407	2.732341	0.16108	3.890926	3.33E+00	2.68E+01
1464	494411.06	3858501.99	2.11995	0.488	1.02059	1.17546	5.747	1.137	0.5355	0.488	22.1190692	0.901299728	0.0001062	0.061916	2.695099	0.15995	3.793856	3.32E+00	2.64E+01
1465	494461.06	3858501.99	2.10903	0.48732	0.99762	1.16786	5.681	1.14	0.5269	0.48732	22.0051324	0.900043819	0.0001039	0.061516	2.663803	0.16031	3.73356	3.31E+00	2.62E+01
1466	494511.06	3858501.99	2.07499	0.48111	0.97004	1.15588	5.577	1.139	0.5244	0.48111	21.6499669	0.88857441	0.000101	0.060885	2.615148	0.16022	3.715209	3.27E+00	2.58E+01
1467	494561.06	3858501.99	2.08726	0.4851	0.94889	1.15113	5.536	1.144	0.5229	0.4851	21.7779892	0.895943644	9.879E-05	0.060635	2.595833	0.16093	3.705219	3.30E+00	2.59E+01
1468	494611.06	3858501.99	2.05933	0.47981	0.92305	1.14104	5.451	1.149	0.5196	0.47981	21.4865741	0.886173407	9.61E-05	0.060103	2.556003	0.16168	3.681837	3.26E+00	2.56E+01
1469	494661.06	3858501.99	2.04428	0.47697	0.90339	1.13112	5.387	1.181	0.515	0.47697	21.3295458	0.880928138	9.405E-05	0.059581	2.526251	0.16617	3.64889	3.24E+00	2.54E+01
1470	494711.06	3858501.99	2.01058	0.47557	0.8831	1.11902	5.306	1.201	0.5107	0.47557	20.9779278	0.878342442	9.194E-05	0.058943	2.487968	0.16891	3.618139	3.23E+00	2.50E+01
1471	494761.06	3858501.99	1.97116	0.47509	0.8695	1.10389	5.218	1.215	0.505	0.47509	20.5666286	0.877455918	9.052E-05	0.058146	2.446839	0.17087	3.578178	3.23E+00	2.45E+01
1472	494811.06	3858501.99	1.93559	0.47451	0.85705	1.08952	5.132	1.243	0.4997	0.47451	20.1954995	0.876384701	8.922E-05	0.057389	2.406498	0.17486	3.540697	3.23E+00	2.40E+01
1473	494861.06	3858501.99	1.91381	0.47383	0.84666	1.07595	5.055	1.275	0.4949	0.47383	19.968252	0.875128791	8.814E-05	0.056675	2.370494	0.17932	3.506333	3.22E+00	2.37E+01
1474	494911.06	3858501.99	1.54218	0.47282	0.83224	1.04298	4.955	1.306	0.485	0.47282	16.0907503	0.873263396	8.664E-05	0.054938	2.323368	0.18372	3.436329	3.22E+00	1.97E+01
1475	494961.06	3858501.99	1.52079	0.47182	0.82198	1.03254	3.833	1.345	0.4795	0.47182	15.867572	0.871416471	8.557E-05	0.054388	1.797475	0.18923	3.397501	3.21E+00	1.90E+01
1476	495011.06	3858501.99	1.48264	0.47049	0.81206	1.01858	3.767	1.383	0.4693	0.47049	15.4695237	0.86896006	8.454E-05	0.053653	1.766461	0.19449	3.325089	3.20E+00	1.85E+01
1477	495061.06	3858501.99	1.47006	0.46925	0.80699	1.01379	3.719	1.425	0.465	0.46925	15.3382668	0.866669872	8.401E-05	0.0534	1.743774	0.20049	3.294693	3.19E+00	1.83E+01
1478	495111.06	3858501.99	1.42243	0.4677	0.80027	0.97294	3.65	1.469	0.4553	0.4677	14.8413064	0.863807137	8.331E-05	0.051249	1.711363	0.20672	3.225752	3.18E+00	1.77E+01

1479	495161.06	3858501.99	1.40031	0.46616	0.79775	0.96857	3.607	1.522	0.4438	0.46616
1480	495211.06	3858501.99	1.39189	0.46469	0.79471	0.96311	3.574	1.587	0.4351	0.46469
1481	495261.06	3858501.99	1.38604	0.46266	0.79202	0.95833	3.544	1.657	0.4302	0.46266
1482	495311.06	3858501.99	1.38266	0.4608	0.78981	0.95412	3.519	1.717	0.4283	0.4608
1483	495361.06	3858501.99	1.37988	0.45924	0.78713	0.95031	3.493	1.782	0.4265	0.45924
1484	495411.06	3858501.99	1.37797	0.45673	0.78437	0.94755	3.468	1.847	0.4247	0.45673
1485	495461.06	3858501.99	1.37604	0.45455	0.78112	0.94469	3.442	1.914	0.4221	0.45455
1486	495511.06	3858501.99	1.37394	0.45221	0.77973	0.93607	3.413	1.989	0.4197	0.45221
1487	495561.06	3858501.99	1.37245	0.44988	0.77999	0.94069	3.392	2.051	0.4174	0.44988
1488	495611.06	3858501.99	1.37043	0.44744	0.77023	0.9403	3.332	2.123	0.415	0.44744
1489	495661.06	3858501.99	1.36798	0.44472	0.77522	0.92912	3.329	2.252	0.4123	0.44472
1490	494311.06	3858551.99	2.16681	0.51884	1.04965	1.18697	5.946	1.171	0.5859	0.51884
1491	494361.06	3858551.99	2.19034	0.51061	1.03859	1.18565	5.937	1.197	0.5775	0.51061
1492	494411.06	3858551.99	2.21449	0.50168	1.03812	1.18098	5.994	1.211	0.5666	0.50168
1493	494461.06	3858551.99	2.21393	0.49167	1.03169	1.1755	5.966	1.227	0.5545	0.49167
1494	494511.06	3858551.99	2.19836	0.49141	1.02135	1.16854	5.911	1.231	0.5412	0.49141
1495	494561.06	3858551.99	2.18698	0.49172	1.01101	1.16122	5.857	1.235	0.5308	0.49172
1496	494611.06	3858551.99	2.16594	0.49129	1.00716	1.15031	5.784	1.229	0.5277	0.49129
1497	494661.06	3858551.99	2.14826	0.49101	1.00258	1.14031	5.712	1.25	0.5251	0.49101
1498	494711.06	3858551.99	2.10875	0.48956	0.91799	1.12562	5.605	1.273	0.5211	0.48956
1499	494761.06	3858551.99	2.06949	0.48362	0.90765	1.10968	5.495	1.283	0.5181	0.48362
1500	494811.06	3858551.99	2.04099	0.4779	0.89988	1.09834	5.402	1.293	0.5127	0.4779
1501	494861.06	3858551.99	2.00159	0.47422	0.8924	1.08629	5.323	1.314	0.5075	0.47422
1502	494911.06	3858551.99	1.95543	0.47386	0.88235	1.07143	5.237	1.348	0.5018	0.47386
1503	494961.06	3858551.99	1.92107	0.47288	0.87446	1.05912	5.159	1.384	0.4956	0.47288
1504	495011.06	3858551.99	1.87452	0.47193	0.86311	1.03151	5.07	1.417	0.4868	0.47193
1505	495061.06	3858551.99	1.53355	0.47093	0.85604	1.02327	4.996	1.455	0.4803	0.47093
1506	495111.06	3858551.99	1.4846	0.46955	0.84145	1.00785	3.849	1.495	0.4687	0.46955
1507	495161.06	3858551.99	1.45491	0.4685	0.83083	0.98689	3.779	1.558	0.4612	0.4685
1508	495211.06	3858551.99	1.42963	0.46684	0.82022	0.96433	3.716	1.628	0.4554	0.46684
1509	495261.06	3858551.99	1.41377	0.46535	0.81148	0.95395	3.669	1.692	0.4481	0.46535
1510	495311.06	3858551.99	1.40862	0.4638	0.80572	0.95014	3.626	1.753	0.4442	0.4638
1511	495361.06	3858551.99	1.4036	0.46209	0.79924	0.9454	3.582	1.817	0.4419	0.46209
1512	495411.06	3858551.99	1.4036	0.4603	0.79368	0.94298	3.553	1.873	0.4405	0.4603
1513	495461.06	3858551.99	1.40035	0.45837	0.78892	0.9396	3.534	1.942	0.4382	0.45837
1514	495511.06	3858551.99	1.40077	0.45635	0.78575	0.93745	3.517	2.014	0.4368	0.45635
1515	495561.06	3858551.99	1.39732	0.45419	0.78134	0.93517	3.495	2.116	0.4342	0.45419
1516	495611.06	3858551.99	1.39189	0.45191	0.77805	0.93285	3.471	2.223	0.4308	0.45191
1517	495661.06	3858551.99	1.3859	0.44972	0.77656	0.93022	3.444	2.358	0.4257	0.44972
1518	494311.06	3858601.99	2.07266	0.51352	0.96214	1.14918	5.844	1.135	0.5885	0.51352
1519	494361.06	3858601.99	2.22034	0.53221	1.0456	1.1778	5.99	1.247	0.6017	0.53221
1520	494411.06	3858601.99	2.32658	0.52968	1.08575	1.18108	6.205	1.33	0.5991	0.52968
1521	494461.06	3858601.99	2.32303	0.51835	1.08895	1.17609	6.161	1.346	0.5861	0.51835
1522	494511.06	3858601.99	2.29865	0.50585	1.07493	1.16971	6.084	1.351	0.5712	0.50585
1523	494561.06	3858601.99	2.30041	0.49586	1.09007	1.16427	6.096	1.363	0.5597	0.49586
1524	494611.06	3858601.99	2.26843	0.49178	1.0838	1.15569	6.028	1.353	0.545	0.49178
1525	494661.06	3858601.99	2.24698	0.49169	1.07868	1.14846	5.972	1.346	0.5331	0.49169
1526	494711.06	3858601.99	2.21012	0.49173	1.06621	1.13961	5.887	1.354	0.5305	0.49173
1527	494761.06	3858601.99	2.17312	0.49155	1.05194	1.1301	5.799	1.356	0.5267	0.49155
1528	494811.06	3858601.99	2.11433	0.48936	0.9761	1.11278	5.674	1.356	0.5215	0.48936
1529	494861.06	3858601.99	2.08603	0.48657	0.96456	1.10193	5.593	1.37	0.5187	0.48657
1530	494911.06	3858601.99	2.03103	0.47729	0.9427	1.08696	5.469	1.379	0.5122	0.47729
1531	494961.06	3858601.99	1.9948	0.47328	0.92601	1.07507	5.37	1.411	0.5073	0.47328
1532	495011.06	3858601.99	1.95674	0.47268	0.90797	1.06216	5.296	1.445	0.5014	0.47268
1533	495061.06	3858601.99	1.91675	0.47197	0.89597	1.04715	5.222	1.485	0.4947	0.47197
1534	495111.06	3858601.99	1.54445	0.47095	0.88247	1.01816	5.129	1.544	0.4835	0.47095
1535	495161.06	3858601.99	1.51807	0.46993	0.87533	1.01266	3.991	1.607	0.4762	0.46993

14.6105114	0.860962871	8.305E-05	0.051019	1.691359	0.21406	3.144554	3.17E+00	1.74E+01
14.5226591	0.858247891	8.273E-05	0.050731	1.675716	0.2232	3.083053	3.16E+00	1.73E+01
14.4616216	0.854498632	8.245E-05	0.050479	1.661929	0.23304	3.04791	3.15E+00	1.72E+01
14.4263554	0.85106335	8.222E-05	0.050257	1.649958	0.24151	3.034589	3.13E+00	1.71E+01
14.3973495	0.848182146	8.195E-05	0.050057	1.637714	0.25074	3.021977	3.12E+00	1.71E+01
14.377421	0.843546362	8.166E-05	0.049911	1.626132	0.2598	3.00894	3.11E+00	1.71E+01
14.3572839	0.839520064	8.132E-05	0.049761	1.614189	0.26919	2.990447	3.09E+00	1.70E+01
14.3353729	0.835198258	8.117E-05	0.049307	1.600492	0.27987	2.974009	3.07E+00	1.70E+01
14.3198266	0.830894921	8.12E-05	0.04955	1.590438	0.28849	2.957642	3.06E+00	1.70E+01
14.2987504	0.826388423	8.019E-05	0.049529	1.562228	0.29864	2.940566	3.04E+00	1.69E+01
14.2731877	0.821364785	8.071E-05	0.048941	1.561112	0.3168	2.921578	3.02E+00	1.69E+01
22.6079956	0.958258916	0.0001093	0.062523	2.788184	0.16477	4.151384	3.53E+00	2.72E+01
22.8535022	0.943058718	0.0001081	0.062453	2.784095	0.1684	4.091938	3.47E+00	2.74E+01
23.1054777	0.926565671	0.0001081	0.062207	2.810767	0.17043	4.014707	3.41E+00	2.77E+01
23.0996348	0.908077945	0.0001074	0.061918	2.797684	0.17261	3.928478	3.34E+00	2.76E+01
22.937181	0.907597745	0.0001063	0.061552	2.771584	0.17314	3.834385	3.34E+00	2.73E+01
22.8184447	0.908170292	0.0001053	0.061166	2.746338	0.17367	3.760839	3.34E+00	2.71E+01
22.5989182	0.907376114	0.0001049	0.060592	2.712229	0.17288	3.738732	3.34E+00	2.69E+01
22.4144492	0.906858974	0.0001044	0.060065	2.678574	0.17584	3.720736	3.34E+00	2.66E+01
22.0022109	0.904180932	9.557E-05	0.059291	2.628315	0.17912	3.692465	3.33E+00	2.61E+01
21.5925812	0.893210194	9.449E-05	0.058451	2.576809	0.18044	3.670642	3.29E+00	2.57E+01
21.2952187	0.882645779	9.368E-05	0.057854	2.533308	0.18184	3.632523	3.25E+00	2.53E+01
20.8841282	0.875849092	9.29E-05	0.057219	2.496277	0.18491	3.595962	3.22E+00	2.49E+01
20.4025054	0.875184199	9.186E-05	0.056437	2.455861	0.18968	3.555292	3.22E+00	2.43E+01
20.0440011	0.873374212	9.104E-05	0.055788	2.419192	0.19468	3.511151	3.22E+00	2.39E+01
19.5583092	0.871619633	8.986E-05	0.054334	2.377312	0.19939	3.44887	3.21E+00	2.33E+01
16.0007069	0.869772707	8.912E-05	0.0539	2.342697	0.20473	3.403241	3.20E+00	1.97E+01
15.4899739	0.867223949	8.76E-05	0.053088	1.804982	0.21037	3.320909	3.19E+00	1.86E+01
15.1801952	0.865284677	8.649E-05	0.051984	1.771816	0.21916	3.267768	3.19E+00	1.82E+01
14.9164296	0.862218781	8.539E-05	0.050795	1.742401	0.22895	3.22639	3.17E+00	1.79E+01
14.75095	0.859466862	8.448E-05	0.050248	1.720324	0.23808	3.174879	3.16E+00	1.76E+01
14.6972161	0.856604127	8.388E-05	0.050048	1.700465	0.24664	3.147388	3.15E+00	1.75E+01
14.6448385	0.853445884	8.321E-05	0.049798	1.679795	0.25561	3.131304	3.14E+00	1.75E+01
14.6448385	0.850139887	8.263E-05	0.049671	1.665929	0.26348	3.12096	3.13E+00	1.75E+01
14.6109288	0.84657532	8.213E-05	0.049493	1.65702	0.27313	3.104663	3.12E+00	1.74E+01
14.615311	0.842844531	8.18E-05	0.049379	1.648954	0.28326	3.094744	3.10E+00	1.74E+01
14.5793145	0.838855171	8.134E-05	0.049259	1.638896	0.29769	3.076747	3.09E+00	1.74E+01
14.5226591	0.834644181	8.1E-05	0.049137	1.627548	0.31266	3.052303	3.07E+00	1.73E+01
14.4601608	0.830599413	8.084E-05	0.048998	1.615141	0.33167	3.016096	3.06E+00	1.72E+01
21.6256562	0.948433271	0.0001002	0.060532	2.740298	0.15972	4.169381	3.49E+00	2.62E+01
23.1665153	0.982952312	0.0001089	0.06204	2.808821	0.17544	4.263262	3.62E+00	2.78E+01
24.2749989	0.97827959	0.000113	0.062212	2.90955	0.18715	4.244485	3.60E+00	2.91E+01
24.237959	0.957353922	0.0001134	0.061949	2.889152	0.18938	4.153013	3.52E+00	2.90E+01
23.9835837	0.934267351	0.0001119	0.061613	2.852796	0.19	4.047016	3.44E+00	2.86E+01
24.0019472	0.915816564	0.0001135	0.061327	2.858456	0.19177	3.965818	3.37E+00	2.86E+01
23.6682752	0.908281107	0.0001128	0.060875	2.826471	0.19031	3.861734	3.34E+00	2.82E+01
23.4444709	0.908114884	0.0001123	0.060494	2.800273	0.1893	3.776993	3.34E+00	2.78E+01
23.0598821	0.908188761	0.000111	0.060028	2.760546	0.19047	3.7585	3.34E+00	2.74E+01
22.6738327	0.907856314	0.0001095	0.059527	2.719033	0.19082	3.732143	3.34E+00	2.69E+01
22.0604314	0.903811547	0.0001016	0.058615	2.660769	0.19082	3.695087	3.33E+00	2.62E+01
21.7651557	0.898658624	0.0001004	0.058043	2.622604	0.19269	3.674822	3.31E+00	2.59E+01
21.1912984	0.881519154	9.814E-05	0.057255	2.564364	0.19394	3.629051	3.25E+00	2.53E+01
20.8132829	0.874112982	9.64E-05	0.056628	2.518007	0.19849	3.594404	3.22E+00	2.48E+01
20.4161737	0.873004827	9.453E-05	0.055948	2.483401	0.20331	3.552883	3.21E+00	2.44E+01
19.9989272	0.87169351	9.328E-05	0.055158	2.448804	0.20891	3.505411	3.21E+00	2.39E+01
16.1144349	0.869809645	9.187E-05	0.053631	2.405223	0.21716	3.425489	3.20E+00	1.99E+01
15.8391921	0.867925781	9.113E-05	0.053341	1.871367	0.22602	3.374049	3.20E+00	1.90E+01

1536	495211.06	3858601.99	1.50279	0.46881	0.87031	1.00671	3.939	1.668	0.4708	0.46881
1537	495261.06	3858601.99	1.48446	0.46754	0.86374	0.99635	3.883	1.727	0.4654	0.46754
1538	495311.06	3858601.99	1.47258	0.46623	0.85812	0.98855	3.831	1.79	0.4616	0.46623
1539	495361.06	3858601.99	1.46809	0.46482	0.85712	0.98531	3.784	1.847	0.458	0.46482
1540	495411.06	3858601.99	1.46359	0.46329	0.85628	0.9818	3.736	1.918	0.4543	0.46329
1541	495461.06	3858601.99	1.46104	0.46165	0.85516	0.97924	3.689	2.005	0.4527	0.46165
1542	495511.06	3858601.99	1.44847	0.45982	0.85135	0.97192	3.632	2.1	0.45	0.45982
1543	495561.06	3858601.99	1.45014	0.45796	0.85185	0.97243	3.594	2.202	0.4487	0.45796
1544	495611.06	3858601.99	1.43428	0.45589	0.85053	0.95504	3.548	2.332	0.4455	0.45589
1545	495661.06	3858601.99	1.433	0.45379	0.85114	0.95411	3.516	2.456	0.4441	0.45379
1546	494311.06	3858651.99	2.09862	0.5382	1.01174	1.13856	5.767	1.177	0.6117	0.5382
1547	494361.06	3858651.99	2.24054	0.55389	1.07596	1.17197	6.007	1.293	0.6246	0.55389
1548	494411.06	3858651.99	2.40459	0.5567	1.09766	1.18394	6.379	1.436	0.6292	0.5567
1549	494461.06	3858651.99	2.41774	0.54651	1.18198	1.18004	6.498	1.452	0.6173	0.54651
1550	494511.06	3858651.99	2.40037	0.53356	1.17193	1.17489	6.437	1.459	0.6025	0.53356
1551	494561.06	3858651.99	2.39097	0.52138	1.16287	1.16987	6.394	1.469	0.5889	0.52138
1552	494611.06	3858651.99	2.37424	0.50939	1.14916	1.16328	6.322	1.474	0.5748	0.50939
1553	494661.06	3858651.99	2.34487	0.49704	1.12911	1.1564	6.209	1.465	0.5601	0.49704
1554	494711.06	3858651.99	2.30195	0.49136	1.10275	1.14843	6.058	1.46	0.5447	0.49136
1555	494761.06	3858651.99	2.2692	0.49186	1.07903	1.13978	5.989	1.491	0.5343	0.49186
1556	494811.06	3858651.99	2.21756	0.49149	1.04849	1.13053	5.894	1.441	0.5312	0.49149
1557	494861.06	3858651.99	2.17002	0.49127	1.02539	1.11977	5.803	1.435	0.527	0.49127
1558	494911.06	3858651.99	2.11626	0.48898	0.98053	1.10249	5.699	1.436	0.5218	0.48898
1559	494961.06	3858651.99	2.06794	0.48496	0.96632	1.08723	5.601	1.446	0.5184	0.48496
1560	495011.06	3858651.99	2.03211	0.47963	0.95408	1.07605	5.517	1.483	0.5131	0.47963
1561	495061.06	3858651.99	1.99036	0.47244	0.93977	1.06296	5.422	1.531	0.507	0.47244
1562	495111.06	3858651.99	1.94035	0.47209	0.92615	1.04718	5.311	1.584	0.4998	0.47209
1563	495161.06	3858651.99	1.9142	0.47116	0.91876	1.03445	5.254	1.667	0.4942	0.47116
1564	495211.06	3858651.99	1.88239	0.47029	0.90959	1.0139	5.191	1.706	0.4865	0.47029
1565	495261.06	3858651.99	1.87631	0.46942	0.90708	1.00999	5.151	1.753	0.4835	0.46942
1566	495311.06	3858651.99	1.54849	0.46863	0.90513	1.00679	5.1	1.828	0.4788	0.46863
1567	495361.06	3858651.99	1.54233	0.46724	0.90391	1.0036	5.054	1.908	0.4759	0.46724
1568	495411.06	3858651.99	1.53997	0.466	0.90278	1.00103	5.01	1.988	0.4729	0.466
1569	495461.06	3858651.99	1.54309	0.46467	0.90194	1.00168	4.968	2.075	0.4713	0.46467
1570	495511.06	3858651.99	1.52582	0.46309	0.8973	0.99792	4.906	2.181	0.4659	0.46309
1571	495561.06	3858651.99	1.51536	0.46143	0.89319	0.99466	3.818	2.294	0.4623	0.46143
1572	495611.06	3858651.99	1.49541	0.45956	0.88715	0.98862	3.76	2.416	0.457	0.45956
1573	495661.06	3858651.99	1.49338	0.45771	0.88358	0.98826	3.715	2.538	0.4558	0.45771
1574	494311.06	3858701.99	2.18504	0.59278	1.12805	1.14063	5.789	1.228	0.6437	0.59278
1575	494361.06	3858701.99	2.38855	0.60514	1.10497	1.1797	6.193	1.47	0.662	0.60514
1576	494411.06	3858701.99	2.49487	0.60036	1.12889	1.18506	6.547	1.581	0.6609	0.60036
1577	494461.06	3858701.99	2.49663	0.58044	1.12002	1.182	6.589	1.6	0.6477	0.58044
1578	494511.06	3858701.99	2.49189	0.56287	1.18596	1.17738	6.679	1.597	0.6341	0.56287
1579	494561.06	3858701.99	2.47591	0.54914	1.16209	1.17268	6.648	1.588	0.6195	0.54914
1580	494611.06	3858701.99	2.42575	0.53302	1.13109	1.16586	6.502	1.55	0.6012	0.53302
1581	494661.06	3858701.99	2.42476	0.5219	1.11839	1.16162	6.503	1.578	0.5885	0.5219
1582	494711.06	3858701.99	2.30837	0.50248	1.07162	1.14799	6.164	1.495	0.5654	0.50248
1583	494761.06	3858701.99	2.33728	0.49465	1.06827	1.14587	6.23	1.618	0.5568	0.49465
1584	494811.06	3858701.99	2.28545	0.49107	1.0446	1.1367	6.07	1.548	0.5407	0.49107
1585	494861.06	3858701.99	2.24428	0.49119	1.02385	1.12747	5.936	1.519	0.5338	0.49119
1586	494911.06	3858701.99	2.20903	0.49125	1.01176	1.11969	5.837	1.509	0.5314	0.49125
1587	494961.06	3858701.99	2.13242	0.4884	0.99258	1.09956	5.716	1.496	0.5249	0.4884
1588	495011.06	3858701.99	2.08592	0.48695	0.98412	1.08445	5.639	1.522	0.5213	0.48695
1589	495061.06	3858701.99	2.06846	0.48508	0.98594	1.07567	5.599	1.57	0.5186	0.48508
1590	495111.06	3858701.99	2.0129	0.47212	0.96911	1.06098	5.5	1.663	0.5109	0.47212
1591	495161.06	3858701.99	1.98858	0.47205	0.96257	1.05096	5.442	1.736	0.5071	0.47205
1592	495211.06	3858701.99	1.95377	0.47119	0.95383	1.03895	5.365	1.769	0.5011	0.47119

15.6797641	0.865857224	9.06E-05	0.053028	1.847077	0.23469	3.336	3.19E+00	1.88E+01
15.4885131	0.863511629	8.992E-05	0.052482	1.820907	0.24293	3.297669	3.18E+00	1.86E+01
15.3645599	0.861092156	8.934E-05	0.052071	1.796608	0.25184	3.270461	3.17E+00	1.84E+01
15.3177123	0.858487991	8.923E-05	0.0519	1.774611	0.25982	3.244883	3.16E+00	1.83E+01
15.2707604	0.855662195	8.914E-05	0.051715	1.752046	0.26987	3.218809	3.15E+00	1.83E+01
15.2441543	0.852633237	8.903E-05	0.051581	1.729655	0.28201	3.207401	3.14E+00	1.82E+01
15.1130018	0.849253363	8.863E-05	0.051195	1.702969	0.29543	3.188696	3.13E+00	1.81E+01
15.1304262	0.845818081	8.868E-05	0.051222	1.685352	0.30971	3.179343	3.11E+00	1.81E+01
14.9649466	0.841994945	8.855E-05	0.050306	1.663702	0.32803	3.156245	3.10E+00	1.79E+01
14.9515914	0.838116401	8.861E-05	0.050257	1.648673	0.34547	3.146609	3.09E+00	1.79E+01
21.8965169	0.994015397	0.0001053	0.059973	2.704093	0.16551	4.334044	3.66E+00	2.65E+01
23.3772774	1.022993661	0.000112	0.061732	2.816619	0.18184	4.425304	3.77E+00	2.81E+01
25.0889372	1.028183522	0.0001143	0.062363	2.991343	0.20201	4.458251	3.79E+00	3.00E+01
25.2261413	1.009363349	0.0001231	0.062158	3.046892	0.20427	4.37351	3.72E+00	3.02E+01
25.0449067	0.985445662	0.000122	0.061886	3.018639	0.20518	4.269072	3.63E+00	3.00E+01
24.9468293	0.962950107	0.0001211	0.061622	2.998072	0.2067	4.172215	3.55E+00	2.98E+01
24.7722723	0.940805468	0.0001196	0.061275	2.964343	0.20729	4.072949	3.46E+00	2.96E+01
24.4658325	0.917995936	0.0001175	0.060912	2.911332	0.20608	3.968581	3.38E+00	2.92E+01
24.0180152	0.907505398	0.0001148	0.060492	2.840727	0.20535	3.859609	3.34E+00	2.86E+01
23.6763092	0.908428861	0.0001123	0.060037	2.808188	0.2098	3.785708	3.34E+00	2.81E+01
23.1375094	0.907745499	0.0001092	0.05955	2.763669	0.20267	3.763602	3.34E+00	2.75E+01
22.641488	0.907339175	0.0001067	0.058983	2.720922	0.20181	3.733631	3.34E+00	2.69E+01
22.0805686	0.903109715	0.0001021	0.058073	2.672431	0.20195	3.696858	3.32E+00	2.63E+01
21.5764088	0.895685074	0.0001006	0.057269	2.626355	0.20346	3.67298	3.30E+00	2.57E+01
21.2025669	0.88584096	9.933E-05	0.05668	2.587187	0.20859	3.635782	3.26E+00	2.53E+01
20.766957	0.872561565	9.784E-05	0.05599	2.542522	0.21531	3.591924	3.21E+00	2.48E+01
20.2451642	0.871915141	9.642E-05	0.055159	2.490627	0.22277	3.541051	3.21E+00	2.42E+01
19.9723211	0.8701975	9.565E-05	0.054489	2.463683	0.2345	3.501302	3.20E+00	2.39E+01
19.6404229	0.868590674	9.469E-05	0.053406	2.434324	0.23996	3.446886	3.20E+00	2.35E+01
19.5769856	0.866983849	9.443E-05	0.0532	2.415229	0.24656	3.425985	3.19E+00	2.34E+01
16.1565874	0.865524778	9.423E-05	0.053032	2.391497	0.25711	3.392542	3.19E+00	1.99E+01
16.0923154	0.862957551	9.41E-05	0.052864	2.370119	0.26834	3.372065	3.18E+00	1.98E+01
16.0676917	0.860667363	9.398E-05	0.052728	2.349135	0.27963	3.350738	3.17E+00	1.98E+01
16.100245	0.858210952	9.39E-05	0.052763	2.329403	0.29193	3.339614	3.16E+00	1.98E+01
15.9200538	0.85529281	9.341E-05	0.052565	2.300405	0.30688	3.301353	3.15E+00	1.96E+01
15.8109166	0.852226913	9.299E-05	0.052393	1.790408	0.32278	3.275279	3.14E+00	1.90E+01
15.6027629	0.848773162	9.236E-05	0.052075	1.762953	0.3399	3.238081	3.12E+00	1.87E+01
15.5815823	0.845356349	9.199E-05	0.052056	1.742058	0.3571	3.229295	3.11E+00	1.87E+01
22.7982032	1.0948206	0.0001174	0.060082	2.714395	0.17276	4.560492	4.03E+00	2.74E+01
24.9215796	1.117648601	0.000115	0.06214	2.903862	0.20679	4.690792	4.11E+00	2.98E+01
26.0308979	1.108820297	0.0001175	0.062422	3.070051	0.22236	4.682928	4.08E+00	3.11E+01
26.0492614	1.072029537	0.0001166	0.062261	3.089812	0.22505	4.589046	3.95E+00	3.11E+01
25.9998053	1.039579053	0.0001235	0.062017	3.132066	0.22469	4.492473	3.83E+00	3.11E+01
25.8330737	1.014220764	0.000121	0.06177	3.117487	0.2234	4.389594	3.73E+00	3.09E+01
25.3097158	0.984448322	0.0001178	0.061411	3.049077	0.21805	4.259931	3.62E+00	3.03E+01
25.2993864	0.963910508	0.0001164	0.061187	3.049222	0.222	4.169947	3.55E+00	3.02E+01
24.085	0.928043212	0.0001116	0.060469	2.890479	0.2103	4.006346	3.42E+00	2.88E+01
24.3866402	0.913581784	0.0001112	0.060358	2.921245	0.2276	3.945271	3.36E+00	2.91E+01
23.845858	0.90696979	0.0001087	0.059875	2.846185	0.21782	3.830913	3.34E+00	2.84E+01
23.4162997	0.907191421	0.0001066	0.059388	2.783542	0.21366	3.782236	3.34E+00	2.78E+01
23.0485093	0.907302236	0.0001053	0.058979	2.737124	0.21228	3.765232	3.34E+00	2.74E+01
22.2491783	0.902038498	0.0001033	0.057918	2.680567	0.21051	3.718752	3.32E+00	2.65E+01
21.764008	0.899360456	0.0001025	0.057122	2.644066	0.21414	3.693882	3.31E+00	2.60E+01
21.5818344	0.895906705	0.0001026	0.05666	2.625694	0.22091	3.674256	3.30E+00	2.58E+01
21.0021342	0.871970548	0.0001009	0.055886	2.579004	0.23388	3.619982	3.21E+00	2.52E+01
20.7483849	0.871841264	0.0001002	0.055358	2.552083	0.2442	3.592916	3.21E+00	2.49E+01
20.3851854	0.870252908	9.93E-05	0.054726	2.515536	0.24886	3.550545	3.20E+00	2.44E+01

1593	495261.06	3858701.99	1.94917	0.47061	0.9493	1.03286	5.329	1.82	0.4984	0.47061	20.33719	0.869181691	9.883E-05	0.054405	2.498856	0.25604	3.53106	3.20E+00	2.43E+01
1594	495311.06	3858701.99	1.9459	0.46991	0.94438	1.02811	5.291	1.895	0.4955	0.46991	20.3030716	0.867888843	9.832E-05	0.054155	2.480939	0.26659	3.510867	3.20E+00	2.43E+01
1595	495361.06	3858701.99	1.93539	0.46906	0.93902	1.02106	5.239	1.973	0.4922	0.46906	20.1934127	0.866318956	9.776E-05	0.053783	2.456508	0.27758	3.487415	3.19E+00	2.41E+01
1596	495411.06	3858701.99	1.93792	0.46838	0.93586	1.02037	5.202	2.066	0.4898	0.46838	20.2198101	0.865063046	9.743E-05	0.053747	2.439257	0.2906	3.470197	3.18E+00	2.42E+01
1597	495461.06	3858701.99	1.93168	0.46701	0.93096	1.0197	5.163	2.162	0.4869	0.46701	20.1547034	0.862532758	9.692E-05	0.053712	2.421105	0.30418	3.449791	3.18E+00	2.41E+01
1598	495511.06	3858701.99	1.9185	0.46576	0.92464	1.01741	5.117	2.261	0.4829	0.46576	20.0171863	0.860224101	9.626E-05	0.053591	2.399563	0.31805	3.421166	3.17E+00	2.39E+01
1599	495561.06	3858701.99	1.90089	0.46438	0.91999	1.01321	5.065	2.373	0.4782	0.46438	19.8334477	0.857675344	9.578E-05	0.05337	2.375151	0.33383	3.388078	3.16E+00	2.37E+01
1600	495611.06	3858701.99	1.88284	0.46287	0.91598	1.00131	5.011	2.498	0.4729	0.46287	19.6451181	0.854886486	9.536E-05	0.052743	2.349618	0.35137	3.35088	3.15E+00	2.35E+01
1601	495661.06	3858701.99	1.87448	0.46126	0.91287	0.99783	4.962	2.645	0.4693	0.46126	19.5578918	0.851912936	9.504E-05	0.05256	2.32681	0.37203	3.325443	3.14E+00	2.34E+01
1602	494311.06	3858751.99	2.29054	0.64763	1.12573	1.1612	5.705	1.373	0.6924	0.64763	23.8989659	1.196124473	0.0001172	0.061165	2.675006	0.19315	4.905975	4.40E+00	2.85E+01
1603	494361.06	3858751.99	2.5146	0.66171	1.13811	1.19189	6.285	1.69	0.7085	0.66171	26.2367562	1.222129187	0.0001185	0.062782	2.946932	0.23773	5.020262	4.50E+00	3.12E+01
1604	494411.06	3858751.99	2.58765	0.65159	1.15099	1.20423	6.599	1.728	0.6976	0.65159	26.998943	1.203438299	0.0001198	0.063432	3.094327	0.24303	4.942535	4.43E+00	3.21E+01
1605	494461.06	3858751.99	2.58698	0.6377	1.13958	1.19556	6.671	1.718	0.6795	0.6377	26.9919524	1.177784501	0.0001186	0.062975	3.128127	0.24171	4.814503	4.34E+00	3.21E+01
1606	494511.06	3858751.99	2.5869	0.62266	1.16242	1.18987	6.809	1.73	0.667	0.62266	26.9911177	1.150006739	0.000121	0.062675	3.192866	0.24334	4.725865	4.23E+00	3.21E+01
1607	494561.06	3858751.99	2.56428	0.60391	1.13842	1.17847	6.742	1.752	0.6506	0.60391	26.7551059	1.115376883	0.0001185	0.062075	3.161613	0.24652	4.610019	4.11E+00	3.18E+01
1608	494611.06	3858751.99	2.52319	0.56877	1.11823	1.17171	6.667	1.743	0.6335	0.56877	26.3263823	1.050475915	0.0001164	0.061719	3.126106	0.24513	4.488364	3.87E+00	3.14E+01
1609	494661.06	3858751.99	2.50075	0.55193	1.09053	1.16695	6.588	1.729	0.6183	0.55193	26.0922485	1.019373686	0.0001135	0.061468	3.089437	0.24326	4.381162	3.75E+00	3.11E+01
1610	494711.06	3858751.99	2.43992	0.53196	1.08045	1.15902	6.424	1.688	0.5992	0.53196	25.4575623	0.982490581	0.0001125	0.06105	3.012145	0.23742	4.24569	3.62E+00	3.04E+01
1611	494761.06	3858751.99	2.4184	0.51938	1.08559	1.15306	6.449	1.79	0.5849	0.51938	25.2330276	0.959256256	0.000113	0.060736	3.024186	0.25178	4.144015	3.53E+00	3.01E+01
1612	494811.06	3858751.99	2.36299	0.50499	1.07732	1.14366	6.297	1.676	0.5675	0.50499	24.6548924	0.932678995	0.0001122	0.060241	2.952854	0.23582	4.020659	3.43E+00	2.94E+01
1613	494861.06	3858751.99	2.31341	0.49128	1.07419	1.1353	6.162	1.645	0.5514	0.49128	24.1375862	0.907357644	0.0001118	0.059801	2.889602	0.23134	3.906868	3.34E+00	2.88E+01
1614	494911.06	3858751.99	2.25645	0.49082	1.06939	1.12378	6.007	1.586	0.536	0.49082	23.5432787	0.906508058	0.0001113	0.059194	2.816929	0.22305	3.797966	3.34E+00	2.80E+01
1615	494961.06	3858751.99	2.21666	0.49098	1.06682	1.1158	5.893	1.574	0.5335	0.49098	23.128119	0.906803567	0.0001111	0.058774	2.763505	0.22141	3.780182	3.34E+00	2.75E+01
1616	495011.06	3858751.99	2.19079	0.49113	1.06634	1.108	5.811	1.599	0.5318	0.49113	22.8581974	0.907080605	0.000111	0.058363	2.725035	0.2249	3.767995	3.34E+00	2.72E+01
1617	495061.06	3858751.99	2.1486	0.49054	1.06267	1.09355	5.69	1.645	0.5262	0.49054	22.4179966	0.905990919	0.0001106	0.057602	2.66808	0.23139	3.728246	3.34E+00	2.67E+01
1618	495111.06	3858751.99	2.09763	0.48741	1.0572	1.07681	5.611	1.788	0.5218	0.48741	21.8861874	0.900210042	0.0001101	0.05672	2.631237	0.25146	3.697354	3.31E+00	2.61E+01
1619	495161.06	3858751.99	2.07054	0.4852	1.055	1.06527	5.567	1.829	0.5187	0.4852	21.6035366	0.896128336	0.0001098	0.056112	2.610454	0.25733	3.675035	3.30E+00	2.58E+01
1620	495211.06	3858751.99	2.034	0.48117	1.05152	1.05408	5.509	1.851	0.5129	0.48117	21.2222867	0.888685226	0.0001095	0.055523	2.583041	0.26038	3.634011	3.27E+00	2.54E+01
1621	495261.06	3858751.99	2.02729	0.48015	1.05086	1.04832	5.488	1.885	0.5101	0.48015	21.1522761	0.886801362	0.0001094	0.055219	2.573293	0.2652	3.614526	3.26E+00	2.53E+01
1622	495311.06	3858751.99	2.0239	0.47958	1.05154	1.04358	5.469	1.994	0.5078	0.47958	21.1169056	0.885748614	0.0001095	0.05497	2.564693	0.28049	3.597592	3.26E+00	2.52E+01
1623	495361.06	3858751.99	2.01363	0.47696	1.05593	1.0383	5.437	2.093	0.5047	0.47696	21.0097508	0.880909669	0.0001099	0.054691	2.549312	0.29447	3.575911	3.24E+00	2.51E+01
1624	495411.06	3858751.99	2.01926	0.4793	1.06265	1.03412	5.424	2.192	0.5026	0.4793	21.0684929	0.885231475	0.0001106	0.054471	2.543371	0.3084	3.561173	3.26E+00	2.52E+01
1625	495461.06	3858751.99	2.01199	0.47686	1.06752	1.02983	5.388	2.28	0.4996	0.47686	20.9926394	0.880724976	0.0001111	0.054245	2.526635	0.32072	3.539705	3.24E+00	2.51E+01
1626	495511.06	3858751.99	1.99752	0.47169	0.96591	1.02626	5.338	2.365	0.4963	0.47169	20.8416628	0.87117637	0.0001006	0.054057	2.502959	0.33267	3.516465	3.21E+00	2.49E+01
1627	495561.06	3858751.99	1.98007	0.46681	0.96027	1.02165	5.28	2.475	0.4923	0.46681	20.6595935	0.862163373	9.997E-05	0.053814	2.47571	0.34815	3.488194	3.17E+00	2.47E+01
1628	495611.06	3858751.99	1.96258	0.46584	0.95644	1.01716	5.218	2.657	0.4875	0.46584	20.4771069	0.860371855	9.957E-05	0.053578	2.446858	0.37378	3.454255	3.17E+00	2.45E+01
1629	495661.06	3858751.99	1.94975	0.46421	0.95439	1.01238	5.16	2.911	0.4835	0.46421	20.3432416	0.857361366	9.936E-05	0.053326	2.419693	0.40945	3.425489	3.16E+00	2.44E+01
1630	494311.06	3858801.99	2.43862	0.72094	1.13319	1.21234	5.59	1.803	0.7581	0.72094	25.4439984	1.331522594	0.000118	0.063859	2.621268	0.25364	5.371625	4.90E+00	3.02E+01
1631	494361.06	3858801.99	2.6154	0.72253	1.14862	1.28634	6.196	1.953	0.764	0.72253	27.2884801	1.334459206	0.0001196	0.067757	2.905531	0.27469	5.413499	4.91E+00	3.24E+01
1632	494411.06	3858801.99	2.6497	0.70008	1.16085	1.29125	6.425	1.993	0.7473	0.70008	27.6463584	1.292995725	0.0001209	0.068015	3.012796	0.28038	5.294678	4.76E+00	3.28E+01
1633	494461.06	3858801.99	2.66335	0.67972	1.17091	1.28283	6.599	1.991	0.7264	0.67972	27.7887794	1.255392318	0.0001219	0.067572	3.094327	0.28011	5.146594	4.62E+00	3.30E+01
1634	494511.06	3858801.99	2.66445	0.66803	1.2354	1.28331	6.862	1.975	0.7053	0.66803	27.8002565	1.233801757	0.0001286	0.067597	3.217691	0.27786	4.997376	4.54E+00	3.31E+01
1635	494561.06	3858801.99	2.6525	0.6549	1.24066	1.26947	6.916	1.984	0.6828	0.6549	27.675573	1.209551623	0.0001292	0.066868	3.242984	0.27905	4.837743	4.45E+00	3.29E+01
1636	494611.06	3858801.99	2.6301	0.64102	1.23803	1.24664	6.901	2.039	0.6675	0.64102	27.4418566	1.183916294	0.0001289	0.065666	3.236114	0.28682	4.729549	4.36E+00	3.26E+01
1637	494661.06	3858801.99	2.59148	0.61795	1.22452	1.21136	6.791	2.001	0.6502	0.61795	27.0389044	1.141307719	0.0001275	0.063807	3.184346	0.28155	4.606689	4.20E+00	3.21E+01
1638	494711.06	3858801.99	2.54376	0.57976	1.2147	1.18385	6.641	1.914	0.632	0.57976	26.5410049	1.070773628	0.0001265	0.062358	3.11398	0.2693	4.477735	3.94E+00	3.16E+01
1639	494761.06	3858801.99	2.48553	0.54512	1.20156	1.16376	6.501	1.991	0.6127	0.54512	25.9334465	1.006796122	0.0001251	0.0613	3.048505	0.28009	4.341271	3.71E+00	3.10E+01
1640	494811.06	3858801.99	2.4227	0.52865	1.1865	1.15207	6.349	1.82	0.5937	0.52865	25.2778928	0.976377257	0.0001235	0.060684	2.977229	0.25607	4.206579	3.59E+00	3.02E+01
1641	494861.06	3858801.99	2.38958	0.51561	1.18108	1.14585	6.287	1.816	0.5784	0.51561	24.9323264	0.952293346	0.000123	0.060357	2.948292	0.25542	4.098102	3.51E+00	2.97E+01
1642	494911.06	3858801.99	2.3363	0.50108	1.16871	1.13524	6.163	1.748	0.5617	0.50108	24.3764151	0.925457516	0.0001217	0.059798	2.889841	0.24589	3.980131	3.41E+00	2.91E+01
1643	494961.06	3858801.99	2.29723	0.49069	1.16054	1.12749	6.076	1.721	0.5468	0.49069	23.9687678	0.906267958	0.0001208	0.059389	2.849219	0.24207	3.874488	3.34E+00	2.86E+01
1644	495011.06	3858801.99	2.25483	0.49096	1.15123	1.11653	5.977	1.719	0.5365	0.49096	23.526376	0.906766628	0.0001199	0.058812	2.802636	0.24178	3.801509	3.34E+00	2.80E+01
1645	495061.06	3858801.99	2.22924	0.49151	1.15183	1.10919	5.916	1.829	0.534	0.49151	23.2593758	0.907782437	0.0001199	0.058426	2.774018	0.25725	3.783512	3.34E+00	2.77E+01
1646	495111.06	3858801.99	2.17225	0.49153	1.14956	1.09798	5.769	1.889	0.5305	0.49153	22.6647553	0.907819376	0.0001197	0.057835	2.705171	0.26573	3.758855	3.34E+00	2.70E+01
1647	495161.06	3858801.99	2.13159	0.49012	1.14916	1.08038	5.662	1.904	0.5254	0.49012	22.2405182	0.90521521	0.0001196	0.056908	2.654978	0.26787	3.722294	3.33E+00	2.65E+01
1648	495211.06	3858801.99	2.11223	0.48727	1.15099	1.07178	5.602	1.924	0.522	0.48727	22.0385205	0.899951472	0.0001198	0.056455	2.627007	0.27061	3.698487	3.31E+00	2.63E+01
1649	495261.06	3858801.99	2.10622	0.48714	1.15394	1.06629	5.569	2.027	0.5197	0.48714	21.9758135	0.899711372	0.0001201	0.056166	2.611603	0.28521	3.681979	3.31E+00	2.62E+01

1650	495311.06	3858801.99	2.10467	0.48709	1.15691	1.0625	5.565	2.133	0.518	0.48709	21.9596412	0.899619026	0.0001204	0.055966	2.609474	0.30003	3.670146	3.31E+00	2.62E+01
1651	495361.06	3858801.99	2.09556	0.48681	1.15845	1.05586	5.545	2.222	0.5153	0.48681	21.8645895	0.899101887	0.0001206	0.055616	2.600208	0.31259	3.650945	3.31E+00	2.61E+01
1652	495411.06	3858801.99	2.10718	0.48845	1.16206	1.05535	5.563	2.321	0.5142	0.48845	21.9858299	0.902130845	0.000121	0.05559	2.608555	0.32656	3.64308	3.32E+00	2.62E+01
1653	495461.06	3858801.99	2.0961	0.48607	1.1624	1.04853	5.542	2.409	0.5111	0.48607	21.8702238	0.897735162	0.000121	0.05523	2.598586	0.33891	3.621399	3.31E+00	2.61E+01
1654	495511.06	3858801.99	2.07727	0.48497	1.16136	1.03992	5.505	2.509	0.5074	0.48497	21.6737559	0.895703543	0.0001209	0.054777	2.581194	0.35297	3.59497	3.30E+00	2.59E+01
1655	495561.06	3858801.99	2.0629	0.48292	1.16047	1.03527	5.47	2.675	0.5057	0.48292	21.5238226	0.891917346	0.0001208	0.054532	2.565091	0.37631	3.58335	3.28E+00	2.57E+01
1656	495611.06	3858801.99	2.03828	0.48003	1.15802	1.02563	5.416	2.935	0.5028	0.48003	21.2669432	0.88657973	0.0001206	0.054024	2.539446	0.41288	3.562378	3.26E+00	2.55E+01
1657	495661.06	3858801.99	2.02937	0.47869	1.15719	1.02214	5.382	3.229	0.5012	0.47869	21.1739783	0.88410485	0.0001205	0.05384	2.523512	0.45426	3.551183	3.26E+00	2.54E+01
1658	494311.06	3858851.99	2.67057	0.80892	1.2579	1.37909	5.724	2.221	0.8466	0.80892	27.8641112	1.494015115	0.000131	0.072642	2.684065	0.31251	5.998254	5.50E+00	3.29E+01
1659	494361.06	3858851.99	2.74582	0.79341	1.28609	1.42459	6.255	2.277	0.8357	0.79341	28.6492523	1.465369298	0.0001339	0.075039	2.933104	0.32025	5.921307	5.40E+00	3.40E+01
1660	494411.06	3858851.99	2.73684	0.76409	1.28617	1.40516	6.349	2.271	0.8044	0.76409	28.5555571	1.411217437	0.0001339	0.074016	2.97729	0.31949	5.69911	5.20E+00	3.38E+01
1661	494461.06	3858851.99	2.73755	0.73623	1.28911	1.39513	6.55	2.289	0.7781	0.73623	28.5629651	1.359762088	0.0001342	0.073487	3.071257	0.32206	5.512836	5.01E+00	3.39E+01
1662	494511.06	3858851.99	2.72761	0.70827	1.37039	1.37887	6.795	2.297	0.755	0.70827	28.4592534	1.308122046	0.0001427	0.072631	3.186447	0.32314	5.349447	4.82E+00	3.39E+01
1663	494561.06	3858851.99	2.71202	0.68458	1.36771	1.35171	6.858	2.297	0.7296	0.68458	28.2965909	1.264368377	0.0001424	0.0712	3.215698	0.32313	5.169408	4.66E+00	3.37E+01
1664	494611.06	3858851.99	2.68523	0.66863	1.35822	1.32453	6.824	2.376	0.7025	0.66863	28.0170703	1.234909912	0.0001414	0.069768	3.199989	0.33422	4.977749	4.55E+00	3.33E+01
1665	494661.06	3858851.99	2.65064	0.6524	1.3445	1.29272	6.728	2.418	0.6785	0.6524	27.6561662	1.204934309	0.00014	0.068093	3.154738	0.34016	4.807488	4.44E+00	3.28E+01
1666	494711.06	3858851.99	2.59775	0.62954	1.32271	1.2473	6.561	2.216	0.66	0.62954	27.1043241	1.162713588	0.0001377	0.0657	3.07664	0.3117	4.67648	4.28E+00	3.21E+01
1667	494761.06	3858851.99	2.54332	0.58907	1.30107	1.20618	6.4	2.258	0.641	0.58907	26.5364141	1.087968506	0.0001354	0.063534	3.001059	0.31768	4.542	4.01E+00	3.15E+01
1668	494811.06	3858851.99	2.49671	0.55562	1.28303	1.18362	6.322	2.174	0.6228	0.55562	26.0500961	1.026188842	0.0001336	0.062346	2.964549	0.3059	4.41255	3.78E+00	3.10E+01
1669	494861.06	3858851.99	2.46589	0.54189	1.27621	1.171	6.295	2.103	0.607	0.54189	25.7285273	1.000830553	0.0001329	0.061681	2.951921	0.29587	4.300531	3.68E+00	3.07E+01
1670	494911.06	3858851.99	2.4205	0.52681	1.27095	1.15628	6.217	2.007	0.5899	0.52681	25.2549385	0.972978913	0.0001323	0.060906	2.915102	0.28233	4.179725	3.58E+00	3.01E+01
1671	494961.06	3858851.99	2.38016	0.51306	1.26634	1.14348	6.15	1.948	0.5747	0.51306	24.8340403	0.947583685	0.0001318	0.060232	2.88374	0.27408	4.072028	3.49E+00	2.96E+01
1672	495011.06	3858851.99	2.3475	0.50054	1.26269	1.13329	6.101	1.955	0.5597	0.50054	24.4932734	0.924460176	0.0001315	0.059695	2.860904	0.27502	3.965464	3.40E+00	2.92E+01
1673	495061.06	3858851.99	2.30717	0.49116	1.2574	1.12483	6.026	2.022	0.5451	0.49116	24.0724794	0.907136013	0.0001309	0.059249	2.825548	0.2844	3.862443	3.34E+00	2.87E+01
1674	495111.06	3858851.99	2.22913	0.49124	1.24619	1.1085	5.846	1.969	0.5351	0.49124	23.2582281	0.907283767	0.0001297	0.058389	2.741325	0.27702	3.791518	3.34E+00	2.77E+01
1675	495161.06	3858851.99	2.18964	0.49147	1.24029	1.0986	5.766	1.981	0.5332	0.49147	22.8461985	0.90770856	0.0001291	0.057868	2.703572	0.27868	3.777631	3.34E+00	2.72E+01
1676	495211.06	3858851.99	2.1959	0.4921	1.24088	1.09607	5.798	2.079	0.5321	0.4921	22.9115139	0.908872123	0.0001292	0.057734	2.71862	0.29251	3.77012	3.35E+00	2.73E+01
1677	495261.06	3858851.99	2.18822	0.49196	1.23905	1.09091	5.788	2.183	0.5303	0.49196	22.8313826	0.908613554	0.000129	0.057463	2.713912	0.30705	3.75765	3.35E+00	2.72E+01
1678	495311.06	3858851.99	2.18929	0.49203	1.23804	1.08687	5.794	2.284	0.5288	0.49203	22.8425467	0.908742839	0.0001289	0.05725	2.717148	0.32124	3.746739	3.35E+00	2.72E+01
1679	495361.06	3858851.99	2.18414	0.49195	1.23574	1.08166	5.779	2.374	0.5272	0.49195	22.7888128	0.908595084	0.0001286	0.056975	2.709893	0.33395	3.735048	3.35E+00	2.72E+01
1680	495411.06	3858851.99	2.17895	0.49175	1.23304	1.07625	5.758	2.463	0.5247	0.49175	22.7346615	0.908225699	0.0001284	0.05669	2.69991	0.34643	3.717547	3.34E+00	2.71E+01
1681	495461.06	3858851.99	2.17621	0.49144	1.23033	1.07098	5.737	2.581	0.5224	0.49144	22.706073	0.907653152	0.0001281	0.056413	2.69011	0.36307	3.701392	3.34E+00	2.71E+01
1682	495511.06	3858851.99	2.17021	0.49104	1.22534	1.06623	5.666	2.727	0.52	0.49104	22.6434704	0.906914382	0.0001276	0.056163	2.657023	0.38357	3.684671	3.34E+00	2.70E+01
1683	495561.06	3858851.99	2.12963	0.49046	1.22011	1.05423	5.573	2.95	0.5147	0.49046	22.220068	0.905843165	0.000127	0.055531	2.613057	0.41506	3.646835	3.34E+00	2.65E+01
1684	495611.06	3858851.99	2.10248	0.48832	1.2165	1.0433	5.508	3.252	0.511	0.48832	21.9367912	0.901890744	0.0001266	0.054955	2.58299	0.45748	3.620903	3.32E+00	2.62E+01
1685	495661.06	3858851.99	2.09967	0.48783	1.2142	1.04306	5.499	3.585	0.5107	0.48783	21.9074723	0.900985751	0.0001264	0.054942	2.578469	0.50439	3.618281	3.32E+00	2.62E+01
1686	494311.06	3858901.99	2.76418	0.87118	1.39015	1.49754	5.894	2.675	0.9198	0.87118	28.8408163	1.609004707	0.0001447	0.078882	2.763814	0.37627	6.517186	5.92E+00	3.43E+01
1687	494361.06	3858901.99	2.81325	0.85092	1.41502	1.53382	6.502	2.656	0.9046	0.85092	29.3528014	1.571585993	0.0001473	0.080793	3.049124	0.3737	6.409417	5.79E+00	3.51E+01
1688	494411.06	3858901.99	2.8096	0.82367	1.42247	1.52667	6.629	2.639	0.8767	0.82367	29.3147181	1.521257268	0.0001481	0.080416	3.10839	0.3712	6.212019	5.60E+00	3.50E+01
1689	494461.06	3858901.99	2.80204	0.79756	1.4929	1.52545	6.913	2.633	0.8502	0.79756	29.2358388	1.473034039	0.0001554	0.080352	3.241455	0.37035	6.023974	5.42E+00	3.50E+01
1690	494511.06	3858901.99	2.79438	0.76873	1.48793	1.50823	7.032	2.612	0.8196	0.76873	29.1559162	1.419787172	0.0001549	0.079445	3.297473	0.36751	5.807233	5.23E+00	3.49E+01
1691	494561.06	3858901.99	2.77011	0.73727	1.46945	1.47048	6.951	2.63	0.7841	0.73727	28.9026886	1.36168289	0.000153	0.077456	3.259387	0.36999	5.55549	5.01E+00	3.45E+01
1692	494611.06	3858901.99	2.72727	0.70367	1.43905	1.41465	6.678	2.733	0.749	0.70367	28.4557059	1.299626188	0.0001498	0.074515	3.131391	0.38445	5.306864	4.78E+00	3.39E+01
1693	494661.06	3858901.99	2.70155	0.68195	1.42926	1.37586	6.591	2.863	0.7227	0.68195	28.1873494	1.259510962	0.0001488	0.072472	3.090515	0.40278	5.120307	4.64E+00	3.35E+01
1694	494711.06	3858901.99	2.65732	0.66307	1.4174	1.32454	6.414	2.809	0.6928	0.66307	27.7258637	1.224641005	0.0001476	0.069769	3.007446	0.39517	4.908738	4.51E+00	3.28E+01
1695	494761.06	3858901.99	2.60121	0.64224	1.40253	1.27185	6.257	2.765	0.6695	0.64224	27.140425	1.186169544	0.000146	0.066994	2.933938	0.38901	4.743791	4.37E+00	3.21E+01
1696	494811.06	3858901.99	2.56629	0.6176	1.39326	1.2422	6.215	2.833	0.6527	0.6176	26.7760777	1.140661295	0.000145	0.065432	2.914216	0.39849	4.624686	4.20E+00	3.17E+01
1697	494861.06	3858901.99	2.53935	0.59009	1.38585	1.22026	6.207	2.597	0.6367	0.59009	26.494992	1.08985237	0.0001443	0.064276	2.91067	0.36538	4.51132	4.01E+00	3.14E+01
1698	494911.06	3858901.99	2.47698	0.55228	1.36939	1.19099	6.073	2.35	0.6168	0.55228	25.8442378	1.02002011	0.0001426	0.062734	2.84761	0.33058	4.369896	3.76E+00	3.07E+01
1699	494961.06	3858901.99	2.44275	0.53815	1.35981	1.17888	6.051	2.336	0.6007	0.53815	25.4870899	0.993923051	0.0001416	0.062096	2.837594	0.32861	4.25646	3.66E+00	3.03E+01
1700	495011.06	3858901.99	2.40875	0.52451	1.35006	1.1673	6.025	2.341	0.5851	0.52451	25.1323417	0.968730984	0.0001405	0.061486	2.825107	0.32932	4.145503	3.57E+00	2.99E+01
1701	495061.06	3858901.99	2.35677	0.51004	1.33645	1.15002	5.941	2.238	0.5686	0.51004	24.5899944	0.94200597	0.0001391	0.060576	2.785877	0.31488	4.028878	3.47E+00	2.93E+01
1702	495111.06	3858901.99	2.27856	0.4945	1.31814	1.12468	5.786	2.053	0.5497	0.4945	23.7739693	0.913304745	0.0001372	0.059241	2.713105	0.28879	3.894752	3.36E+00	2.83E+01
1703	495161.06	3858901.99	2.25723	0.49166	1.31064	1.1158	5.78	2.125	0.5375	0.49166	23.551417	0.908059476	0.0001364	0.058774	2.710545	0.29893	3.808098	3.34E+00	2.80E+01
1704	495211.06	3858901.99	2.27598	0.49233	1.31006	1.11719	5.875	2.281	0.5371	0.49233	23.7470502	0.909296916	0.0001364	0.058847	2.754971	0.32094	3.805476	3.35E+00	2.82E+01
1705	495261.06	3858901.99	2.27357	0.49278	1.30529	1.11565	5.908	2.441	0.5361	0.49278	23.7219048	0.910128033	0.0001359	0.058766	2.770473	0.34341	3.798249	3.35E+00	2.83E+01
1706	495311.06	3858901.99	2.26434	0.49338	1.29943	1.11198	5.916	2.56	0.5347	0.49338	23.6256011	0.911236188	0.0001353	0.058573	2.774173	0.36014	3.788755	3.35E+00	2.82E+01

1707	495361.06	3858901.99	2.25736	0.49324	1.29588	1.10862	5.924	2.614	0.5332	0.49324
1708	495411.06	3858901.99	2.26128	0.49337	1.29436	1.10948	5.957	2.752	0.5318	0.49337
1709	495461.06	3858901.99	2.24754	0.49327	1.28863	1.10403	5.933	2.904	0.53	0.49327
1710	495511.06	3858901.99	2.22369	0.493	1.28534	1.09347	5.875	3.017	0.5271	0.493
1711	495561.06	3858901.99	2.20509	0.49295	1.28422	1.08519	5.827	3.261	0.5244	0.49295
1712	495611.06	3858901.99	2.17797	0.49205	1.28196	1.0747	5.748	3.606	0.5212	0.49205
1713	495661.06	3858901.99	2.17759	0.49185	1.28184	1.07385	5.738	4.046	0.5185	0.49185
1714	494311.06	3858951.99	2.90386	0.92677	1.56449	1.63246	7.094	3.076	0.9886	0.92677
1715	494361.06	3858951.99	2.91186	0.90194	1.57067	1.64621	7.4	3.086	0.9655	0.90194
1716	494411.06	3858951.99	2.88796	0.87505	1.56257	1.62114	7.22	3.147	0.9367	0.87505
1717	494461.06	3858951.99	2.87987	0.85043	1.58014	1.6214	7.507	3.172	0.9123	0.85043
1718	494511.06	3858951.99	2.86014	0.8221	1.5722	1.59974	7.366	3.193	0.882	0.8221
1719	494561.06	3858951.99	2.83029	0.79243	1.55976	1.56547	7.14	3.211	0.849	0.79243
1720	494611.06	3858951.99	2.78719	0.76074	1.54325	1.52002	6.846	3.276	0.8124	0.76074
1721	494661.06	3858951.99	2.74565	0.72837	1.52893	1.47749	6.609	3.384	0.7751	0.72837
1722	494711.06	3858951.99	2.69784	0.69584	1.50831	1.41967	6.309	3.44	0.7385	0.69584
1723	494761.06	3858951.99	2.65958	0.67402	1.49264	1.37245	6.129	3.376	0.7098	0.67402
1724	494811.06	3858951.99	2.63168	0.65854	1.48092	1.33405	6.045	3.687	0.6832	0.65854
1725	494861.06	3858951.99	2.60292	0.64275	1.46877	1.30425	6.045	3.336	0.6669	0.64275
1726	494911.06	3858951.99	2.55893	0.61876	1.45187	1.26388	5.971	3.096	0.6483	0.61876
1727	494961.06	3858951.99	2.53589	0.59573	1.44143	1.24041	5.995	3.191	0.6329	0.59573
1728	495011.06	3858951.99	2.46142	0.54968	1.41669	1.20288	5.815	2.94	0.6113	0.54968
1729	495061.06	3858951.99	2.38633	0.53226	1.39592	1.1802	5.691	2.465	0.5907	0.53226
1730	495111.06	3858951.99	2.32675	0.51693	1.38482	1.16152	5.613	2.287	0.573	0.51693
1731	495161.06	3858951.99	2.35621	0.50913	1.38931	1.16552	5.772	2.591	0.5651	0.50913
1732	495211.06	3858951.99	2.35478	0.49929	1.38791	1.16364	5.842	2.843	0.554	0.49929
1733	495261.06	3858951.99	2.3524	0.49339	1.38601	1.16158	5.904	3.012	0.5432	0.49339
1734	495311.06	3858951.99	2.32488	0.49383	1.37933	1.14931	5.886	2.953	0.5393	0.49383
1735	495361.06	3858951.99	2.32577	0.49431	1.37737	1.1505	5.946	3.262	0.5385	0.49431
1736	495411.06	3858951.99	2.33115	0.4947	1.37595	1.15092	6.013	3.695	0.5378	0.4947
1737	495461.06	3858951.99	2.32072	0.49488	1.37143	1.14634	6.027	3.868	0.536	0.49488
1738	495511.06	3858951.99	2.31928	0.49534	1.36827	1.14454	6.062	4.077	0.5345	0.49534
1739	495561.06	3858951.99	2.27856	0.4951	1.35782	1.12664	5.971	3.879	0.5316	0.4951
1740	495611.06	3858951.99	2.25525	0.49483	1.35025	1.11761	5.927	4.119	0.529	0.49483
1741	495661.06	3858951.99	2.25537	0.49426	1.34667	1.11658	5.947	4.632	0.5274	0.49426
1742	494311.06	3859001.99	2.99204	0.97352	1.67537	1.73278	8.257	3.52	1.0315	0.97352
1743	494361.06	3859001.99	2.9792	0.94327	1.66937	1.72899	8.251	3.601	1.0089	0.94327
1744	494411.06	3859001.99	2.96187	0.91924	1.69469	1.72707	8.409	3.708	0.988	0.91924
1745	494461.06	3859001.99	2.94377	0.89431	1.68377	1.71244	8.326	3.772	0.9622	0.89431
1746	494511.06	3859001.99	2.92529	0.86864	1.67209	1.69537	8.223	3.811	0.9355	0.86864
1747	494561.06	3859001.99	2.88947	0.84216	1.64991	1.65471	7.803	3.947	0.9058	0.84216
1748	494611.06	3859001.99	2.85398	0.81373	1.62879	1.61066	7.415	4.093	0.8736	0.81373
1749	494661.06	3859001.99	2.80916	0.78298	1.6042	1.55358	6.924	4.277	0.8382	0.78298
1750	494711.06	3859001.99	2.75299	0.74971	1.57655	1.4985	6.438	4.471	0.7989	0.74971
1751	494761.06	3859001.99	2.71489	0.71793	1.56414	1.46218	6.239	4.529	0.7628	0.71793
1752	494811.06	3859001.99	2.68972	0.69138	1.55565	1.43563	6.155	5.07	0.732	0.69138
1753	494861.06	3859001.99	2.65623	0.67451	1.54222	1.39457	6.004	4.551	0.7044	0.67451
1754	494911.06	3859001.99	2.61943	0.65615	1.528	1.35017	5.85	4.184	0.677	0.65615
1755	494961.06	3859001.99	2.57998	0.63883	1.51348	1.30855	5.696	4.558	0.6611	0.63883
1756	495011.06	3859001.99	2.46217	0.57324	1.48205	1.23077	5.362	3.533	0.6316	0.57324
1757	495061.06	3859001.99	2.43862	0.5582	1.47251	1.2216	5.411	3.409	0.6167	0.5582
1758	495111.06	3859001.99	2.38471	0.54213	1.45712	1.21026	5.371	3.059	0.5984	0.54213
1759	495161.06	3859001.99	2.4289	0.53508	1.46033	1.2081	5.596	3.608	0.5922	0.53508
1760	495211.06	3859001.99	2.41872	0.52368	1.45286	1.20323	5.667	3.82	0.5798	0.52368
1761	495261.06	3859001.99	2.4188	0.51351	1.44725	1.20173	5.763	4.325	0.5688	0.51351
1762	495311.06	3859001.99	2.40582	0.50271	1.43886	1.19601	5.813	4.716	0.5566	0.50271
1763	495361.06	3859001.99	2.4044	0.49554	1.43261	1.19411	5.895	5.029	0.546	0.49554

23.5527734	0.910977619	0.0001349	0.058396	2.777957	0.36775	3.778056	3.35E+00	2.81E+01
23.5936738	0.911217719	0.0001348	0.058441	2.793272	0.38713	3.767853	3.35E+00	2.82E+01
23.4503138	0.911033026	0.0001342	0.058154	2.782135	0.40852	3.754958	3.35E+00	2.80E+01
23.2014684	0.910534356	0.0001338	0.057598	2.755022	0.42446	3.734835	3.35E+00	2.77E+01
23.0074003	0.91044201	0.0001337	0.057161	2.732228	0.45876	3.715776	3.35E+00	2.75E+01
22.7244365	0.908779777	0.0001335	0.056609	2.695554	0.50723	3.692677	3.35E+00	2.72E+01
22.7204716	0.908410392	0.0001334	0.056564	2.690682	0.56914	3.674043	3.34E+00	2.73E+01
30.2982052	1.711675305	0.0001629	0.085988	3.326311	0.43268	7.004729	6.30E+00	3.66E+01
30.3816754	1.665816141	0.0001635	0.086713	3.469955	0.43417	6.840774	6.13E+00	3.67E+01
30.1323083	1.61615231	0.0001627	0.085392	3.385634	0.44272	6.636574	5.95E+00	3.63E+01
30.0478991	1.570680999	0.0001645	0.085406	3.520106	0.44619	6.464187	5.78E+00	3.64E+01
29.8420408	1.518357595	0.0001637	0.084265	3.454223	0.4492	6.249288	5.59E+00	3.60E+01
29.5305928	1.46355931	0.0001624	0.08246	3.348158	0.45178	6.01533	5.39E+00	3.55E+01
29.0808974	1.405030236	0.0001607	0.080066	3.210268	0.46087	5.756076	5.17E+00	3.48E+01
28.6474786	1.345245252	0.0001592	0.077825	3.099007	0.47607	5.491792	4.95E+00	3.42E+01
28.1486401	1.28516476	0.000157	0.07478	2.958444	0.48392	5.232752	4.73E+00	3.35E+01
27.7494441	1.244864842	0.0001554	0.072293	2.873935	0.47498	5.029189	4.58E+00	3.29E+01
27.4583419	1.216274432	0.0001542	0.07027	2.834424	0.51862	4.840577	4.48E+00	3.25E+01
27.1582667	1.187111476	0.0001529	0.0687	2.834626	0.4693	4.724944	4.37E+00	3.21E+01
26.6992852	1.142803729	0.0001511	0.066574	2.799916	0.43546	4.593652	4.21E+00	3.15E+01
26.4588911	1.100269031	0.0001501	0.065337	2.810983	0.44887	4.484537	4.05E+00	3.13E+01
25.6818884	1.015218104	0.0001475	0.063361	2.726821	0.41361	4.331069	3.74E+00	3.05E+01
24.8984166	0.983044658	0.0001453	0.062166	2.668497	0.34683	4.185464	3.62E+00	2.95E+01
24.2767726	0.954731288	0.0001442	0.061182	2.632123	0.32179	4.059557	3.52E+00	2.88E+01
24.5841515	0.940325268	0.0001446	0.061393	2.706414	0.3645	4.003725	3.46E+00	2.92E+01
24.5692312	0.922151519	0.0001445	0.061294	2.739313	0.4	3.925432	3.40E+00	2.92E+01
24.5443988	0.911254657	0.0001443	0.061185	2.768377	0.42375	3.84891	3.35E+00	2.92E+01
24.2572615	0.912067305	0.0001436	0.060539	2.760199	0.41546	3.820781	3.36E+00	2.89E+01
24.2665475	0.912953829	0.0001434	0.060602	2.787992	0.45887	3.815183	3.36E+00	2.89E+01
24.3226812	0.91367413	0.0001432	0.060624	2.819578	0.51974	3.81079	3.36E+00	2.91E+01
24.213857	0.914006577	0.0001428	0.060382	2.826049	0.54418	3.797966	3.37E+00	2.90E+01
24.1988324	0.914856162	0.0001424	0.060288	2.842621	0.57359	3.786842	3.37E+00	2.90E+01
23.7739693	0.9144129	0.0001414	0.059345	2.799724	0.54571	3.766578	3.37E+00	2.85E+01
23.5307581	0.91391423	0.0001406	0.058869	2.779364	0.57942	3.748014	3.36E+00	2.82E+01
23.5320102	0.912861483	0.0001402	0.058815	2.788592	0.65161	3.736465	3.36E+00	2.83E+01
31.218255	1.79801908	0.0001744	0.091273	3.871903	0.49518	7.308195	6.62E+00	3.82E+01
31.0842854	1.742149579	0.0001738	0.091073	3.869062	0.50663	7.148279	6.41E+00	3.80E+01
30.9034682	1.697767955	0.0001764	0.090972	3.942954	0.52162	7.000266	6.25E+00	3.79E+01
30.714617	1.651724098	0.0001753	0.090201	3.904165	0.5306	6.81718	6.08E+00	3.76E+01
30.5218009	1.604313516	0.0001741	0.089302	3.855941	0.53614	6.628142	5.91E+00	3.73E+01
30.1480633	1.555406924	0.0001718	0.08716	3.658826	0.55527	6.41792	5.73E+00	3.67E+01
29.7777688	1.502898827	0.0001696	0.08484	3.477008	0.57582	6.189984	5.53E+00	3.61E+01
29.3101273	1.446105863	0.000167	0.081833	3.246778	0.60171	5.938949	5.32E+00	3.53E+01
28.7240625	1.384658646	0.0001641	0.078932	3.018695	0.62901	5.660566	5.10E+00	3.44E+01
28.3265358	1.325963348	0.0001628	0.077019	2.925657	0.63708	5.404501	4.88E+00	3.38E+01
28.0639179	1.276927471	0.000162	0.07562	2.886165	0.71327	5.186484	4.70E+00	3.35E+01
27.7144909	1.245769835	0.0001606	0.073458	2.815616	0.64024	4.991141	4.59E+00	3.29E+01
27.3305282	1.21186028	0.0001591	0.071119	2.743257	0.58853	4.796506	4.46E+00	3.23E+01
26.918916	1.179871527	0.0001576	0.068927	2.670987	0.64117	4.684274	4.34E+00	3.18E+01
25.6897137	1.058731672	0.0001543	0.06483	2.514293	0.49701	4.475185	3.90E+00	3.04E+01
25.4439984	1.03095391	0.0001533	0.064347	2.537111	0.47961	4.369684	3.80E+00	3.01E+01
24.8815139	1.001273815	0.0001517	0.063749	2.518612	0.43031	4.239667	3.69E+00	2.94E+01
25.3425822	0.988252989	0.000152	0.063636	2.624283	0.50755	4.196092	3.64E+00	3.01E+01
25.2363664	0.967198036	0.0001513	0.063379	2.657271	0.53742	4.108305	3.56E+00	3.00E+01
25.2372011	0.948414802	0.0001507	0.0633	2.702156	0.60836	4.029799	3.49E+00	3.01E+01
25.1017708	0.928468005	0.0001498	0.062999	2.725963	0.6635	3.943783	3.42E+00	3.00E+01
25.0869548	0.915225548	0.0001491	0.062899	2.764068	0.70746	3.86889	3.37E+00	3.00E+01

1764	495411.06	3859001.99	2.3971	0.49579	1.42505	1.19031	5.955	5.196	0.5424	0.49579
1765	495461.06	3859001.99	2.39251	0.49625	1.41788	1.18738	6.023	5.352	0.5415	0.49625
1766	495511.06	3859001.99	2.36281	0.49647	1.40568	1.17611	5.985	5.111	0.5393	0.49647
1767	495561.06	3859001.99	2.34616	0.49665	1.39599	1.16922	5.993	5.026	0.5376	0.49665
1768	495611.06	3859001.99	2.3271	0.49668	1.38636	1.16155	5.988	5.063	0.5356	0.49668
1769	495661.06	3859001.99	2.34054	0.49676	1.38152	1.16441	6.08	5.684	0.5349	0.49676
1770	494311.06	3859051.99	3.06104	1.01025	1.74371	1.84727	9.071	3.778	1.0643	1.01025
1771	494361.06	3859051.99	3.03998	0.98599	1.8103	1.85513	9.275	4.101	1.0423	0.98599
1772	494411.06	3859051.99	3.01542	0.95906	1.7933	1.82666	9.137	4.255	1.0215	0.95906
1773	494461.06	3859051.99	2.99249	0.9316	1.77242	1.79271	8.934	4.529	1.0007	0.9316
1774	494511.06	3859051.99	2.96491	0.90877	1.7455	1.75742	8.632	4.815	0.9777	0.90877
1775	494561.06	3859051.99	2.93938	0.88503	1.72235	1.72463	8.389	5.066	0.9526	0.88503
1776	494611.06	3859051.99	2.90634	0.86038	1.6913	1.68004	8.019	5.406	0.9253	0.86038
1777	494661.06	3859051.99	2.86899	0.83357	1.66653	1.63709	7.6	5.685	0.8953	0.83357
1778	494711.06	3859051.99	2.83151	0.8047	1.64692	1.58919	7.209	5.908	0.8629	0.8047
1779	494761.06	3859051.99	2.79036	0.77419	1.62691	1.54513	6.796	6.14	0.8281	0.77419
1780	494811.06	3859051.99	2.75827	0.74376	1.61046	1.50943	6.517	6.846	0.7942	0.74376
1781	494861.06	3859051.99	2.72451	0.71286	1.59378	1.47394	6.237	6.436	0.7594	0.71286
1782	494911.06	3859051.99	2.67151	0.68805	1.57247	1.42504	5.925	6.734	0.7223	0.68805
1783	494961.06	3859051.99	2.59435	0.66299	1.54538	1.36023	5.429	6.498	0.6899	0.66299
1784	495011.06	3859051.99	2.54086	0.63709	1.52355	1.31054	5.164	6.258	0.6639	0.63709
1785	495061.06	3859051.99	2.50321	0.59972	1.50636	1.272	5.121	5.852	0.6461	0.59972
1786	495111.06	3859051.99	2.48337	0.57757	1.49323	1.25474	5.185	5.661	0.6321	0.57757
1787	495161.06	3859051.99	2.50207	0.58828	1.48834	1.26169	5.399	6.232	0.6223	0.58828
1788	495211.06	3859051.99	2.47801	0.56069	1.47418	1.24862	5.435	6.338	0.6078	0.56069
1789	495261.06	3859051.99	2.48579	0.5627	1.46685	1.25529	5.602	6.884	0.5971	0.5627
1790	495311.06	3859051.99	2.47007	0.54287	1.45444	1.24727	5.663	6.731	0.5837	0.54287
1791	495361.06	3859051.99	2.46381	0.53238	1.44406	1.24452	5.76	7.041	0.5719	0.53238
1792	495411.06	3859051.99	2.46388	0.52971	1.43502	1.24539	5.884	7.565	0.5612	0.52971
1793	495461.06	3859051.99	2.4628	0.52523	1.42596	1.24522	5.998	7.767	0.5508	0.52523
1794	495511.06	3859051.99	2.43344	0.50862	1.41497	1.22749	5.969	7.424	0.5455	0.50862
1795	495561.06	3859051.99	2.41111	0.49953	1.40466	1.21448	5.967	7.376	0.544	0.49953
1796	495611.06	3859051.99	2.39155	0.4985	1.39463	1.20298	5.973	7.393	0.5415	0.4985
1797	495661.06	3859051.99	2.40061	0.50236	1.38706	1.2076	6.111	8.143	0.5416	0.50236
1798	494311.06	3859101.99	3.1245	1.04386	1.92118	1.99647	9.714	3.515	1.0952	1.04386
1799	494361.06	3859101.99	3.09938	1.02181	1.8999	1.9791	9.687	3.859	1.0748	1.02181
1800	494411.06	3859101.99	3.07577	0.99742	1.8826	1.96645	9.681	4.032	1.052	0.99742
1801	494461.06	3859101.99	3.04749	0.97225	1.85189	1.93113	9.53	4.397	1.0286	0.97225
1802	494511.06	3859101.99	3.0129	0.9465	1.80699	1.87397	9.225	4.938	1.0096	0.9465
1803	494561.06	3859101.99	2.98375	0.92003	1.77281	1.83028	8.988	5.563	0.9889	0.92003
1804	494611.06	3859101.99	2.94867	0.9004	1.72272	1.76218	8.544	6.479	0.9675	0.9004
1805	494661.06	3859101.99	2.92191	0.87663	1.70039	1.72219	8.28	7.462	0.9424	0.87663
1806	494711.06	3859101.99	2.87701	0.85238	1.66757	1.65927	7.737	8.571	0.9145	0.85238
1807	494761.06	3859101.99	2.85946	0.82539	1.65372	1.63587	7.62	9.041	0.8865	0.82539
1808	494811.06	3859101.99	2.82476	0.79712	1.63001	1.58629	7.261	9.894	0.8549	0.79712
1809	494861.06	3859101.99	2.79185	0.76764	1.60837	1.54464	6.937	9.764	0.8222	0.76764
1810	494911.06	3859101.99	2.74287	0.73577	1.58048	1.49798	6.454	10.84	0.7852	0.73577
1811	494961.06	3859101.99	2.66124	0.69916	1.54322	1.43972	5.766	10.95	0.7404	0.69916
1812	495011.06	3859101.99	2.56173	0.66826	1.51208	1.38115	5.173	10.42	0.701	0.66826
1813	495061.06	3859101.99	2.56201	0.65746	1.50532	1.36633	5.217	10.38	0.6798	0.65746
1814	495111.06	3859101.99	2.53924	0.64168	1.49186	1.33777	5.106	10.28	0.6625	0.64168
1815	495161.06	3859101.99	2.55466	0.63496	1.48955	1.32854	5.308	10.94	0.652	0.63496
1816	495211.06	3859101.99	2.53553	0.6217	1.47652	1.30705	5.287	10.97	0.6384	0.6217
1817	495261.06	3859101.99	2.53618	0.61018	1.46964	1.30109	5.43	11.16	0.6267	0.61018
1818	495311.06	3859101.99	2.5344	0.59949	1.45873	1.28838	5.469	11.57	0.6139	0.59949
1819	495361.06	3859101.99	2.53025	0.58854	1.45364	1.29499	5.655	11.94	0.6016	0.58854
1820	495411.06	3859101.99	2.52499	0.57759	1.44489	1.29454	5.744	12.38	0.5896	0.57759

25.0107883	0.915687279	0.0001484	0.062698	2.792226	0.73092	3.8431	3.37E+00	3.00E+01
24.9628973	0.916536865	0.0001476	0.062544	2.824155	0.75295	3.83651	3.37E+00	3.00E+01
24.6530144	0.916943189	0.0001463	0.061951	2.806402	0.71901	3.821135	3.38E+00	2.96E+01
24.4792921	0.917275635	0.0001453	0.061588	2.810256	0.70701	3.808948	3.38E+00	2.94E+01
24.2804245	0.917331043	0.0001443	0.061184	2.807654	0.71224	3.795132	3.38E+00	2.92E+01
24.4206543	0.917478797	0.0001438	0.061334	2.851258	0.79963	3.789747	3.38E+00	2.95E+01
31.9381851	1.86585666	0.0001815	0.097303	4.25343	0.5315	7.540595	6.87E+00	3.94E+01
31.7184499	1.821050244	0.0001885	0.097717	4.349235	0.57684	7.385072	6.70E+00	3.92E+01
31.4621965	1.771312535	0.0001867	0.096218	4.284449	0.59864	7.237838	6.52E+00	3.89E+01
31.2229502	1.720595956	0.0001845	0.094429	4.189315	0.63711	7.090108	6.33E+00	3.86E+01
30.9351868	1.678430643	0.0001817	0.09257	4.047837	0.67739	6.927499	6.18E+00	3.82E+01
30.6688127	1.634584628	0.0001793	0.090843	3.933829	0.71264	6.749727	6.02E+00	3.78E+01
30.324081	1.58905791	0.0001761	0.088495	3.760446	0.76045	6.555872	5.85E+00	3.72E+01
29.9343797	1.539541833	0.0001735	0.086232	3.563683	0.79976	6.343594	5.67E+00	3.66E+01
29.543322	1.486221088	0.0001715	0.083709	3.380528	0.83104	6.113745	5.47E+00	3.60E+01
29.1139724	1.429871386	0.0001694	0.081388	3.186934	0.86376	5.8676	5.26E+00	3.53E+01
28.7791528	1.373669438	0.0001677	0.079508	3.056078	0.96313	5.626839	5.06E+00	3.48E+01
28.4269087	1.316599435	0.0001659	0.077638	2.924682	0.90541	5.380481	4.85E+00	3.42E+01
27.8739189	1.270777209	0.0001637	0.075063	2.778182	0.94727	5.117898	4.68E+00	3.34E+01
27.0688493	1.224493251	0.0001609	0.071649	2.545748	0.91413	4.887978	4.51E+00	3.22E+01
26.510747	1.176657877	0.0001586	0.069031	2.421625	0.88039	4.703971	4.33E+00	3.14E+01
26.1179156	1.107638264	0.0001568	0.067001	2.401368	0.82324	4.577639	4.08E+00	3.10E+01
25.9109096	1.066728861	0.0001555	0.066092	2.431365	0.7963	4.478798	3.93E+00	3.08E+01
26.1060211	1.086509434	0.0001549	0.066458	2.531864	0.87667	4.409007	4.00E+00	3.11E+01
25.8549846	1.035552755	0.0001535	0.06577	2.548679	0.89155	4.306624	3.81E+00	3.09E+01
25.9361593	1.039265076	0.0001527	0.066121	2.627059	0.96835	4.230527	3.83E+00	3.10E+01
25.7721405	1.00264054	0.0001514	0.065699	2.655349	0.94687	4.135654	3.69E+00	3.09E+01
25.7068251	0.983266289	0.0001503	0.065554	2.701171	0.99049	4.052189	3.62E+00	3.09E+01
25.7075554	0.978334998	0.0001494	0.0656	2.758956	1.06424	3.976304	3.60E+00	3.09E+01
25.696287	0.970060771	0.0001485	0.065591	2.812746	1.09262	3.9029	3.57E+00	3.10E+01
25.3899515	0.939383335	0.0001473	0.064657	2.798754	1.04442	3.864781	3.46E+00	3.06E+01
25.1569654	0.922594781	0.0001462	0.063972	2.798125	1.03763	3.854365	3.40E+00	3.04E+01
24.9528809	0.920692448	0.0001452	0.063366	2.801037	1.03999	3.836369	3.39E+00	3.02E+01
25.0474108	0.927821581	0.0001444	0.063609	2.86556	1.14556	3.837502	3.42E+00	3.05E+01
32.6003121	1.927931832	0.0002	0.105162	4.555058	0.4945	7.760171	7.10E+00	4.03E+01
32.3382158	1.887207121	0.0001978	0.104247	4.542575	0.54282	7.614992	6.95E+00	4.01E+01
32.0918745	1.842160604	0.000196	0.103581	4.539405	0.56717	7.453516	6.78E+00	3.98E+01
31.7968075	1.795673485	0.0001928	0.10172	4.468842	0.61848	7.288073	6.61E+00	3.95E+01
31.4359034	1.748115149	0.0001881	0.09871	4.325934	0.69471	7.153522	6.44E+00	3.90E+01
31.1317591	1.699227026	0.0001846	0.096408	4.214829	0.78254	7.00643	6.26E+00	3.87E+01
30.7657424	1.662971875	0.0001793	0.092821	4.006624	0.91139	6.85537	6.12E+00	3.82E+01
30.4865348	1.619070452	0.000177	0.090715	3.882876	1.04975	6.677386	5.96E+00	3.78E+01
30.0180585	1.574282505	0.0001736	0.087401	3.628239	1.20578	6.479846	5.80E+00	3.72E+01
29.8349459	1.524433981	0.0001722	0.086168	3.573258	1.27192	6.280818	5.61E+00	3.70E+01
29.4728941	1.472221392	0.0001697	0.083556	3.404911	1.3918	6.057558	5.42E+00	3.65E+01
29.1295187	1.417774023	0.0001674	0.081362	3.252935	1.37355	5.825371	5.22E+00	3.59E+01
28.6184727	1.358912502	0.0001645	0.078905	3.02639	1.52542	5.563496	5.00E+00	3.52E+01
27.7667641	1.291296553	0.0001607	0.075836	2.703671	1.54081	5.246285	4.75E+00	3.39E+01
26.7284997	1.23422655	0.0001574	0.072751	2.425944	1.46543	4.966909	4.54E+00	3.23E+01
26.7314212	1.214279752	0.0001567	0.07197	2.446492	1.46031	4.816274	4.47E+00	3.23E+01
26.4938443	1.185135265	0.0001553	0.070466	2.394072	1.44644	4.694335	4.36E+00	3.19E+01
26.654733	1.172723925	0.0001551	0.06998	2.488793	1.53855	4.619868	4.32E+00	3.22E+01
26.455135	1.14823369	0.0001537	0.068848	2.478998	1.54351	4.523082	4.23E+00	3.20E+01
26.4619169	1.126957107	0.000153	0.068534	2.546034	1.56975	4.440112	4.15E+00	3.21E+01
26.4433448	1.107213471	0.0001519	0.067864	2.564561	1.62815	4.349986	4.08E+00	3.21E+01
26.4000447	1.086989635	0.0001513	0.068212	2.651602	1.67945	4.262553	4.00E+00	3.21E+01
26.3451631	1.066765799	0.0001504	0.068189	2.693326	1.74181	4.177245	3.93E+00	3.22E+01

1821	495461.06	3859101.99	2.51378	0.5666	1.42933	1.28589	5.721	12.77	0.5771	0.5666
1822	495511.06	3859101.99	2.50383	0.55566	1.41929	1.28182	5.812	13.11	0.5655	0.55566
1823	495561.06	3859101.99	2.47841	0.54163	1.40875	1.27204	5.887	13.25	0.5519	0.54163
1824	495611.06	3859101.99	2.45612	0.53672	1.39572	1.26009	5.901	13.41	0.5482	0.53672
1825	495661.06	3859101.99	2.45442	0.54	1.38926	1.26028	6.016	13.9	0.5481	0.54
1826	494311.06	3859151.99	3.17177	1.06204	1.99198	2.10073	9.814	3.387	1.1082	1.06204
1827	494361.06	3859151.99	3.14973	1.04296	1.97234	2.09919	9.918	3.793	1.0912	1.04296
1828	494411.06	3859151.99	3.12324	1.02635	1.9167	2.05837	9.823	3.942	1.0759	1.02635
1829	494461.06	3859151.99	3.0958	1.00713	1.8737	2.01717	9.695	4.185	1.0582	1.00713
1830	494511.06	3859151.99	3.06392	0.98713	1.82636	1.9602	9.444	4.64	1.0391	0.98713
1831	494561.06	3859151.99	3.03688	0.96183	1.7986	1.93172	9.337	5.206	1.0178	0.96183
1832	494611.06	3859151.99	3.00138	0.93646	1.77017	1.87253	9.028	6.049	0.9991	0.93646
1833	494661.06	3859151.99	2.97168	0.91164	1.75079	1.83784	8.855	7.239	0.9784	0.91164
1834	494711.06	3859151.99	2.94635	0.88984	1.7332	1.80797	8.705	8.785	0.9563	0.88984
1835	494761.06	3859151.99	2.9095	0.86826	1.70232	1.74304	8.252	11.26	0.9326	0.86826
1836	494811.06	3859151.99	2.87446	0.84415	1.67518	1.69129	7.87	16.05	0.9059	0.84415
1837	494861.06	3859151.99	2.84827	0.81753	1.6554	1.65493	7.636	20.25	0.8775	0.81753
1838	494911.06	3859151.99	2.80034	0.78842	1.62355	1.59001	7.121	21.37	0.8441	0.78842
1839	494961.06	3859151.99	2.73508	0.75413	1.57941	1.51555	6.365	22.41	0.8029	0.75413
1840	495011.06	3859151.99	2.64867	0.71855	1.54657	1.45716	5.796	24.26	0.7598	0.71855
1841	495061.06	3859151.99	2.63929	0.69129	1.53603	1.44252	5.741	24.81	0.7308	0.69129
1842	495111.06	3859151.99	2.62216	0.67672	1.52254	1.42269	5.621	25.61	0.7021	0.67672
1843	495161.06	3859151.99	2.63614	0.67057	1.52024	1.41667	5.722	24.78	0.6828	0.67057
1844	495211.06	3859151.99	2.62183	0.65774	1.50755	1.39552	5.61	25.24	0.6647	0.65774
1845	495261.06	3859151.99	2.60834	0.64558	1.49505	1.37362	5.61	24.66	0.6518	0.64558
1846	495311.06	3859151.99	2.59821	0.63297	1.4837	1.36175	5.641	24.4	0.6391	0.63297
1847	495361.06	3859151.99	2.58566	0.62078	1.47139	1.35067	5.65	24.67	0.6268	0.62078
1848	495411.06	3859151.99	2.59394	0.61238	1.46694	1.35145	5.824	22.84	0.6153	0.61238
1849	495461.06	3859151.99	2.58251	0.60063	1.45494	1.34212	5.91	22.61	0.6029	0.60063
1850	495511.06	3859151.99	2.55267	0.58577	1.43582	1.32063	5.855	22.96	0.5894	0.58577
1851	495561.06	3859151.99	2.53094	0.57251	1.41967	1.31322	5.852	22.28	0.5768	0.57251
1852	495611.06	3859151.99	2.51698	0.55961	1.40452	1.3072	5.863	21.74	0.5647	0.55961
1853	495661.06	3859151.99	2.50499	0.54921	1.39037	1.30234	5.888	24.15	0.5532	0.54921
1854	494311.06	3859201.99	3.20559	1.06759	2.3547	2.17409	9.694	4.086	1.1083	1.06759
1855	494361.06	3859201.99	3.18397	1.05432	2.32818	2.16689	9.768	4.65	1.0967	1.05432
1856	494411.06	3859201.99	3.16134	1.04116	1.99242	2.14254	9.764	4.95	1.0853	1.04116
1857	494461.06	3859201.99	3.13605	1.03149	1.92858	2.09157	9.633	5.192	1.0767	1.03149
1858	494511.06	3859201.99	3.11179	1.0139	1.8877	2.06405	9.596	5.774	1.0611	1.0139
1859	494561.06	3859201.99	3.08224	0.99717	1.82254	2.0014	9.384	6.561	1.0455	0.99717
1860	494611.06	3859201.99	3.05364	0.97636	1.79244	1.9559	9.234	7.555	1.0258	0.97636
1861	494661.06	3859201.99	3.02647	0.95154	1.76777	1.92212	9.129	8.816	1.0071	0.95154
1862	494711.06	3859201.99	2.99854	0.92509	1.74299	1.89133	9.001	10.1	0.9878	0.92509
1863	494761.06	3859201.99	2.96037	0.90373	1.70391	1.82851	8.657	11.59	0.9683	0.90373
1864	494811.06	3859201.99	2.92343	0.88331	1.67214	1.78249	8.369	13.01	0.947	0.88331
1865	494861.06	3859201.99	2.88857	0.85898	1.63554	1.72525	7.967	11.64	0.9206	0.85898
1866	494911.06	3859201.99	2.83704	0.83596	1.60368	1.66625	7.467	10.29	0.8941	0.83596
1867	494961.06	3859201.99	2.77931	0.80633	1.56762	1.59609	6.893	10.25	0.8598	0.80633
1868	495011.06	3859201.99	2.69209	0.77062	1.52286	1.51585	6.122	11.15	0.8164	0.77062
1869	495061.06	3859201.99	2.72022	0.74769	1.52767	1.53163	6.457	10.48	0.7962	0.74769
1870	495111.06	3859201.99	2.71517	0.72076	1.51839	1.5202	6.477	10.28	0.7687	0.72076
1871	495161.06	3859201.99	2.70572	0.70001	1.5072	1.50394	6.441	10.16	0.7401	0.70001
1872	495211.06	3859201.99	2.6844	0.68814	1.49079	1.47727	6.276	10.15	0.7091	0.68814
1873	495261.06	3859201.99	2.6801	0.67645	1.48167	1.46222	6.271	10.05	0.6828	0.67645
1874	495311.06	3859201.99	2.66969	0.6637	1.46987	1.44142	6.195	10.12	0.6635	0.6637
1875	495361.06	3859201.99	2.66185	0.65278	1.45919	1.42159	6.167	10.11	0.6512	0.65278
1876	495411.06	3859201.99	2.66348	0.64035	1.45295	1.42051	6.27	10.08	0.6396	0.64035
1877	495461.06	3859201.99	2.64804	0.62799	1.43868	1.40536	6.164	10.29	0.6269	0.62799

26.2282005	1.046468086	0.0001488	0.067733	2.682762	1.79664	4.08882	3.85E+00	3.21E+01
26.1243845	1.026262719	0.0001478	0.067519	2.725522	1.84375	4.006488	3.78E+00	3.20E+01
25.8591581	1.000350352	0.0001467	0.067004	2.760569	1.86431	3.910411	3.68E+00	3.18E+01
25.6265894	0.991281947	0.0001453	0.066374	2.76713	1.88682	3.884266	3.65E+00	3.16E+01
25.608852	0.997339863	0.0001446	0.066384	2.820966	1.95549	3.883345	3.67E+00	3.17E+01
33.0935163	1.961508941	0.0002074	0.110654	4.60186	0.47646	7.851784	7.22E+00	4.09E+01
32.8635561	1.926269599	0.0002053	0.110573	4.650848	0.53363	7.731617	7.09E+00	4.07E+01
32.5871655	1.895592164	0.0001995	0.108423	4.60639	0.55461	7.623069	6.98E+00	4.04E+01
32.3008629	1.860094252	0.0001951	0.106253	4.546214	0.58872	7.497729	6.85E+00	4.01E+01
31.9682343	1.823155739	0.0001901	0.103252	4.428313	0.65275	7.362328	6.71E+00	3.96E+01
31.6861052	1.776428519	0.0001872	0.101752	4.378252	0.7324	7.211551	6.54E+00	3.93E+01
31.3157064	1.729572015	0.0001843	0.098634	4.233463	0.851	7.079126	6.37E+00	3.89E+01
31.0058235	1.68373132	0.0001823	0.096807	4.152265	1.0184	6.932175	6.20E+00	3.87E+01
30.7415361	1.64346834	0.0001804	0.095233	4.081787	1.23578	6.775872	6.05E+00	3.85E+01
30.3570517	1.603611684	0.0001772	0.091813	3.869667	1.58462	6.607878	5.90E+00	3.82E+01
29.9914524	1.559082306	0.0001744	0.089087	3.690188	2.25806	6.418487	5.74E+00	3.83E+01
29.718192	1.509917145	0.0001723	0.087172	3.580615	2.84858	6.217688	5.56E+00	3.84E+01
29.2181014	1.456153139	0.000169	0.083752	3.339178	3.00598	5.98054	5.36E+00	3.77E+01
28.5371936	1.392822057	0.0001644	0.07983	2.984732	3.1521	5.689049	5.13E+00	3.67E+01
27.6356116	1.327108442	0.000161	0.076755	2.717621	3.4131	5.38367	4.89E+00	3.57E+01
27.5377429	1.276761248	0.0001599	0.075983	2.692032	3.4895	5.177627	4.70E+00	3.55E+01
27.3590124	1.249851541	0.0001585	0.074939	2.635973	3.60228	4.974278	4.60E+00	3.53E+01
27.5048765	1.238492948	0.0001583	0.074622	2.683113	3.48625	4.837955	4.56E+00	3.53E+01
27.3555693	1.214796892	0.0001569	0.073508	2.630632	3.55135	4.709427	4.47E+00	3.51E+01
27.2148177	1.192338275	0.0001556	0.072354	2.630426	3.46872	4.618026	4.39E+00	3.48E+01
27.1091236	1.169048543	0.0001545	0.071729	2.645103	3.43313	4.528325	4.30E+00	3.47E+01
26.9781798	1.146534519	0.0001532	0.071145	2.649581	3.47017	4.441388	4.22E+00	3.45E+01
27.0645715	1.131020343	0.0001527	0.071186	2.731206	3.21323	4.35941	4.16E+00	3.44E+01
26.9453135	1.109318967	0.0001515	0.070695	2.7715	3.18127	4.271977	4.08E+00	3.43E+01
26.6339698	1.081873651	0.0001495	0.069563	2.745723	3.22981	4.176395	3.98E+00	3.40E+01
26.407244	1.057383417	0.0001478	0.069173	2.743951	3.13424	4.086907	3.89E+00	3.36E+01
26.2615886	1.033558075	0.0001462	0.068856	2.749381	3.05791	4.001245	3.81E+00	3.34E+01
26.1364877	1.014350048	0.0001447	0.0686	2.760977	3.39704	3.91948	3.73E+00	3.36E+01
33.4463864	1.971759378	0.0002451	0.114518	4.545473	0.57485	7.852847	7.26E+00	4.12E+01
33.2208083	1.947250675	0.0002424	0.114139	4.5806	0.65412	7.770799	7.17E+00	4.11E+01
32.9846921	1.922945133	0.0002074	0.112856	4.578752	0.6964	7.68953	7.08E+00	4.09E+01
32.7208221	1.905085362	0.0002008	0.110172	4.517141	0.73034	7.62895	7.01E+00	4.06E+01
32.4676989	1.872597939	0.0001965	0.108722	4.49957	0.81223	7.518135	6.89E+00	4.04E+01
32.159381	1.841698873	0.0001897	0.105422	4.400305	0.92294	7.408028	6.78E+00	4.01E+01
31.8609752	1.803264349	0.0001866	0.103025	4.329878	1.06286	7.268376	6.64E+00	3.98E+01
31.5774897	1.757423654	0.000184	0.101246	4.280665	1.24017	7.135383	6.47E+00	3.96E+01
31.2860745	1.70857247	0.0001815	0.099624	4.220629	1.42098	6.998778	6.29E+00	3.94E+01
30.8878175	1.669122138	0.0001774	0.096315	4.059213	1.62984	6.860401	6.15E+00	3.91E+01
30.5023941	1.631407916	0.0001741	0.093891	3.924282	1.83037	6.710049	6.01E+00	3.87E+01
30.1386729	1.586472214	0.0001703	0.090876	3.735903	1.63788	6.5225	5.84E+00	3.79E+01
29.6010208	1.543955985	0.000167	0.087768	3.501377	1.44786	6.335163	5.68E+00	3.68E+01
28.9986793	1.489231577	0.0001632	0.084073	3.23218	1.44173	6.091922	5.48E+00	3.59E+01
28.0886459	1.423277862	0.0001585	0.079846	2.87069	1.56802	5.784205	5.24E+00	3.46E+01
28.3821478	1.380927856	0.000159	0.080677	3.027971	1.47455	5.641435	5.08E+00	3.49E+01
28.3294573	1.331190148	0.0001581	0.080075	3.037166	1.44636	5.446375	4.90E+00	3.48E+01
28.2308582	1.29286644	0.0001569	0.079219	3.020459	1.42977	5.244159	4.76E+00	3.45E+01
28.0084102	1.270943432	0.0001552	0.077814	2.942745	1.42819	5.023875	4.68E+00	3.41E+01
27.963545	1.249352871	0.0001543	0.077021	2.940456	1.41334	4.837814	4.60E+00	3.39E+01
27.8549295	1.225804569	0.000153	0.075925	2.90517	1.42348	4.701066	4.51E+00	3.37E+01
27.7731287	1.20563614	0.0001519	0.074881	2.891989	1.42268	4.613987	4.44E+00	3.35E+01
27.7901358	1.182678854	0.0001513	0.074824	2.939978	1.41806	4.531797	4.35E+00	3.36E+01
27.6290384	1.159850853	0.0001498	0.074026	2.890521	1.4474	4.441742	4.27E+00	3.34E+01

1878	495511.06	3859201.99	2.63278	0.61581	1.4245	1.39248	6.094	10.96	0.6154	0.61581	27.4698191	1.137355298	0.0001483	0.073348	2.857439	1.54242	4.360048	4.19E+00	3.33E+01
1879	495561.06	3859201.99	2.60304	0.60276	1.40387	1.36867	5.935	12.97	0.6008	0.60276	27.1595188	1.113252918	0.0001462	0.072093	2.782801	1.82492	4.256956	4.10E+00	3.31E+01
1880	495611.06	3859201.99	2.58069	0.59091	1.38681	1.34948	5.85	13.85	0.5881	0.59091	26.926324	1.091366849	0.0001444	0.071083	2.742971	1.94881	4.166617	4.02E+00	3.29E+01
1881	495661.06	3859201.99	2.56473	0.57887	1.37252	1.33871	5.897	11.09	0.5766	0.57887	26.7598011	1.069129864	0.0001429	0.070515	2.765057	1.56024	4.085561	3.94E+00	3.24E+01
1882	494311.06	3859251.99	3.22701	1.07518	2.31403	2.28285	9.33	4.699	1.1062	1.07518	33.6698778	1.985777544	0.0002409	0.120247	4.375157	0.66099	7.837968	7.31E+00	4.13E+01
1883	494361.06	3859251.99	3.20654	1.06396	2.26617	2.2517	9.397	5.325	1.099	1.06396	33.4562985	1.965055038	0.0002359	0.118606	4.406363	0.74908	7.78667	7.23E+00	4.12E+01
1884	494411.06	3859251.99	3.18504	1.05549	2.20615	2.14953	9.368	5.663	1.0935	1.05549	33.2319725	1.949411578	0.0002297	0.113225	4.392699	0.79662	7.747488	7.18E+00	4.11E+01
1885	494461.06	3859251.99	3.16653	1.04406	2.16694	2.12903	9.417	5.681	1.0836	1.04406	33.0388434	1.928301217	0.0002256	0.112145	4.41562	0.79918	7.677839	7.10E+00	4.09E+01
1886	494511.06	3859251.99	3.14304	1.03519	1.79758	2.07627	9.308	6.177	1.0759	1.03519	32.7937542	1.911918987	0.0001871	0.109366	4.364892	0.86892	7.622998	7.04E+00	4.06E+01
1887	494561.06	3859251.99	3.1199	1.02248	1.77123	2.05119	9.288	6.768	1.0649	1.02248	32.5523167	1.888444561	0.0001844	0.108045	4.355396	0.95203	7.544846	6.95E+00	4.04E+01
1888	494611.06	3859251.99	3.09367	1.0071	1.73675	2.00691	9.167	7.528	1.0511	1.0071	32.278639	1.860038845	0.0001808	0.105712	4.298606	1.05899	7.447281	6.85E+00	4.02E+01
1889	494661.06	3859251.99	3.07089	0.9855	1.71677	1.9939	9.169	8.187	1.0314	0.9855	32.0409577	1.82014525	0.0001787	0.105027	4.299633	1.15171	7.308125	6.70E+00	4.00E+01
1890	494711.06	3859251.99	3.04561	0.96417	1.69118	1.96412	9.083	8.789	1.0121	0.96417	31.777192	1.780750325	0.0001761	0.103458	4.258996	1.23636	7.170952	6.56E+00	3.98E+01
1891	494761.06	3859251.99	3.00406	0.94179	1.63052	1.84027	8.549	9.735	0.9958	0.94179	31.3436689	1.739416129	0.0001697	0.096935	4.00887	1.36951	7.055531	6.40E+00	3.92E+01
1892	494811.06	3859251.99	2.98092	0.91604	1.6212	1.85287	8.624	10.33	0.978	0.91604	31.1022315	1.691857793	0.0001688	0.097598	4.043987	1.45346	6.929483	6.23E+00	3.91E+01
1893	494861.06	3859251.99	2.93438	0.89659	1.56301	1.7649	8.067	10.68	0.9572	0.89659	30.6166439	1.655935088	0.0001627	0.092964	3.782846	1.5027	6.78232	6.10E+00	3.83E+01
1894	494911.06	3859251.99	2.87576	0.87869	1.52889	1.70957	7.633	7.67	0.9372	0.87869	30.0050163	1.622875119	0.0001592	0.09005	3.579368	1.07896	6.640329	5.97E+00	3.70E+01
1895	494961.06	3859251.99	2.84051	0.85377	1.50368	1.68048	7.437	7.253	0.9112	0.85377	29.6372259	1.576849731	0.0001565	0.088518	3.487127	1.02029	6.456039	5.81E+00	3.65E+01
1896	495011.06	3859251.99	2.80563	0.82709	1.47962	1.64219	7.156	7.278	0.8825	0.82709	29.2732961	1.527573754	0.000154	0.086501	3.355412	1.02385	6.252831	5.62E+00	3.59E+01
1897	495061.06	3859251.99	2.8018	0.80093	1.4724	1.64409	7.262	7.219	0.8569	0.80093	29.2333347	1.479258179	0.0001533	0.086601	3.405376	1.01554	6.071587	5.45E+00	3.58E+01
1898	495111.06	3859251.99	2.7847	0.77376	1.45818	1.62599	7.186	7.289	0.8287	0.77376	29.0549173	1.429077208	0.0001518	0.085648	3.36971	1.02533	5.87178	5.26E+00	3.56E+01
1899	495161.06	3859251.99	2.77366	0.74672	1.44716	1.61388	7.175	7.35	0.801	0.74672	28.9397285	1.379136338	0.0001507	0.08501	3.364294	1.03399	5.675374	5.08E+00	3.54E+01
1900	495211.06	3859251.99	2.75494	0.71893	1.43212	1.58963	7.053	7.583	0.7716	0.71893	28.7444083	1.327810274	0.0001491	0.083732	3.307503	1.0668	5.46671	4.89E+00	3.51E+01
1901	495261.06	3859251.99	2.74991	0.69989	1.41763	1.57037	6.986	7.66	0.7428	0.69989	28.6919264	1.292644809	0.0001476	0.082718	3.275827	1.07761	5.263148	4.76E+00	3.49E+01
1902	495311.06	3859251.99	2.73916	0.68914	1.41707	1.56367	7.047	7.764	0.7165	0.68914	28.5797634	1.272790358	0.0001475	0.082365	3.3043	1.09224	5.076307	4.69E+00	3.47E+01
1903	495361.06	3859251.99	2.72599	0.67722	1.40678	1.54113	6.959	7.804	0.6881	0.67722	28.4423507	1.250775004	0.0001465	0.081178	3.263138	1.0978	4.875153	4.60E+00	3.44E+01
1904	495411.06	3859251.99	2.72305	0.66557	1.40517	1.53112	6.993	8.357	0.6629	0.66557	28.4116754	1.22925832	0.0001463	0.08065	3.279208	1.17563	4.697169	4.53E+00	3.43E+01
1905	495461.06	3859251.99	2.70881	0.65347	1.39373	1.50638	6.88	9.219	0.6497	0.65347	28.2630985	1.206910519	0.0001451	0.079347	3.226112	1.29696	4.603571	4.44E+00	3.42E+01
1906	495511.06	3859251.99	2.68208	0.64065	1.37157	1.47043	6.619	10.27	0.6366	0.64065	27.9842039	1.183232932	0.0001428	0.077454	3.103692	1.4441	4.510824	4.36E+00	3.39E+01
1907	495561.06	3859251.99	2.66453	0.62832	1.35734	1.44838	6.485	10.2	0.6241	0.62832	27.8010912	1.160460338	0.0001413	0.076292	3.040946	1.43446	4.421619	4.27E+00	3.37E+01
1908	495611.06	3859251.99	2.63971	0.61562	1.33755	1.41736	6.254	8.898	0.6111	0.61562	27.5421251	1.137004382	0.0001392	0.074658	2.932827	1.25173	4.329581	4.19E+00	3.31E+01
1909	495661.06	3859251.99	2.62172	0.60495	1.32323	1.39809	6.111	6.899	0.5987	0.60495	27.3544216	1.117297685	0.0001378	0.073643	2.865626	0.97058	4.241651	4.11E+00	3.25E+01
1910	494311.06	3859301.99	3.24395	1.08321	2.43001	2.34217	8.764	4.91	1.1006	1.08321	33.8466258	2.000608357	0.000253	0.123372	4.10958	0.69066	7.798077	7.37E+00	4.12E+01
1911	494361.06	3859301.99	3.22483	1.07623	2.37752	2.29184	8.849	5.483	1.0974	1.07623	33.6471321	1.987716816	0.0002475	0.120721	4.149335	0.77126	7.775121	7.32E+00	4.11E+01
1912	494411.06	3859301.99	3.20525	1.06701	2.31223	2.22652	8.894	5.953	1.0941	1.06701	33.4428389	1.970688162	0.0002407	0.11728	4.170441	0.83744	7.751739	7.26E+00	4.10E+01
1913	494461.06	3859301.99	3.18498	1.05531	2.24813	2.17755	8.914	5.675	1.0884	1.05531	33.2313464	1.949079131	0.000234	0.1147	4.179711	0.79829	7.711707	7.18E+00	4.08E+01
1914	494511.06	3859301.99	3.16467	1.0469	2.19243	2.09425	8.934	6.059	1.0821	1.0469	33.0194366	1.933546486	0.0002282	0.110313	4.189418	0.85234	7.667069	7.12E+00	4.07E+01
1915	494561.06	3859301.99	3.14814	1.0354	2.14886	2.0657	8.983	6.45	1.0723	1.0354	32.8469664	1.912306841	0.0002237	0.108809	4.212489	0.9073	7.597562	7.04E+00	4.05E+01
1916	494611.06	3859301.99	3.12704	1.02293	1.79987	2.04227	8.997	6.887	1.0615	1.02293	32.6268139	1.889275678	0.0001874	0.107575	4.218932	0.96888	7.52104	6.96E+00	4.04E+01
1917	494661.06	3859301.99	3.10486	1.01034	1.75733	2.01774	8.989	7.347	1.0507	1.01034	32.3953928	1.866022884	0.0001829	0.106283	4.215236	1.03352	7.444447	6.87E+00	4.02E+01
1918	494711.06	3859301.99	3.08016	0.99571	1.70566	1.97933	8.904	7.911	1.0376	0.99571	32.1376787	1.839002361	0.0001776	0.104259	4.17513	1.11289	7.3517	6.77E+00	4.00E+01
1919	494761.06	3859301.99	3.05493	0.97664	1.66251	1.94697	8.825	8.338	1.0201	0.97664	31.8744347	1.803781489	0.0001731	0.102555	4.138353	1.17291	7.227635	6.64E+00	3.97E+01
1920	494811.06	3859301.99	3.02326	0.95713	1.61807	1.88654	8.592	9.033	1.0041	0.95713	31.5439973	1.767747969	0.0001685	0.099372	4.028982	1.27077	7.114623	6.51E+00	3.93E+01
1921	494861.06	3859301.99	2.97818	0.93589	1.56027	1.79638	8.147	10.4	0.9892	0.93589	31.073643	1.728519267	0.0001624	0.094623	3.820435	1.46341	7.008555	6.36E+00	3.88E+01
1922	494911.06	3859301.99	2.94529	0.91262	1.52983	1.76795	7.979	6.992	0.9713	0.91262	30.7304763	1.685541307	0.0001593	0.093125	3.741605	0.98362	6.88194	6.21E+00	3.79E+01
1923	494961.06	3859301.99	2.88826	0.89325	1.47401	1.69266	7.446	5.992	0.9496	0.89325	30.1354384	1.649766357	0.0001535	0.089159	3.491802	0.8429	6.728117	6.07E+00	3.69E+01
1924	495011.06	3859301.99	2.85738	0.86948	1.45094	1.67137	7.32	6.142	0.9258	0.86948	29.8132436	1.605864934	0.0001511	0.088038	3.432671	0.86399	6.559273	5.91E+00	3.65E+01
1925	495061.06	3859301.99	2.86987	0.84164	1.4564	1.71091	7.706	6.128	0.9008	0.84164	29.9435614	1.554446523	0.0001516	0.090121	3.613716	0.8621	6.382564	5.72E+00	3.67E+01
1926	495111.06	3859301.99	2.82977	0.81862	1.43296	1.67689	7.49	6.304	0.8765	0.81862	29.5251673	1.511930294	0.0001492	0.088329	3.51213	0.8868	6.210035	5.57E+00	3.62E+01
1927	495161.06	3859301.99	2.81546	0.79345	1.42686	1.67731	7.545	6.395	0.8514	0.79345	29.37586	1.465443175	0.0001485	0.088351	3.538169	0.89957	6.03276	5.40E+00	3.60E+01
1928	495211.06	3859301.99	2.81406	0.76674	1.42483	1.68658	7.712	6.356	0.8255	0.76674	29.3612527	1.41611179	0.0001483	0.088839	3.616328	0.89411	5.849249	5.21E+00	3.60E+01
1929	495261.06	3859301.99	2.80599	0.74024	1.41705	1.68312	7.767	6.395	0.7989	0.74024	29.2770522	1.36716826	0.0001475	0.088657	3.642245	0.89959	5.660778	5.03E+00	3.59E+01
1930	495311.06	3859301.99	2.78388	0.71412	1.39561	1.65371	7.585	6.826	0.7706	0.71412	29.0463616	1.318926561	0.0001453	0.087108	3.556944	0.96025	5.459979	4.86E+00	3.56E+01
1931	495361.06	3859301.99	2.77785	0.69873	1.38997	1.65146	7.643	7.376	0.7438	0.69873	28.983446	1.290502375	0.0001447	0.086989	3.58379	1.03763	5.269879	4.75E+00	3.55E+01
1932	495411.06	3859301.99	2.7665	0.68738	1.37939	1.63985	7.604	7.987	0.7165	0.68738	28.8650227	1.269539769	0.0001436	0.086378	3.56554	1.12356	5.076448	4.67E+00	3.53E+01
1933	495461.06	3859301.99	2.75674	0.67583	1.37185	1.63027	7.579	8.312	0.6897	0.67583	28.7631891	1.248207777	0.0001428	0.085873	3.553849	1.16934	4.886419	4.60E+00	3.51E+01
1934	495511.06	3859301.99	2.73643	0.66422	1.35402	1.59417	7.375	8.032	0.6625	0.66422	28.5512792	1.22676497	0.000141	0.083971	3.458368	1.12989	4.694052	4.52E+00	3.46E+01

1935	495561.06	3859301.99	2.70615	0.65191	1.32717	1.53714	7.028	7.205	0.6452	0.65191
1936	495611.06	3859301.99	2.68952	0.63979	1.31394	1.51735	6.873	5.678	0.6329	0.63979
1937	495661.06	3859301.99	2.67238	0.62768	1.30034	1.49703	6.707	4.939	0.6207	0.62768
1938	494311.06	3859351.99	3.25141	1.08568	2.62464	2.42367	8.892	5.027	1.0936	1.08568
1939	494361.06	3859351.99	3.23595	1.08176	2.55269	2.36513	8.687	5.344	1.0945	1.08176
1940	494411.06	3859351.99	3.21984	1.07619	2.45284	2.26945	8.428	5.837	1.0929	1.07619
1941	494461.06	3859351.99	3.20132	1.06888	2.3724	2.18525	8.335	5.477	1.0909	1.06888
1942	494511.06	3859351.99	3.18243	1.05887	2.30334	2.13748	8.356	5.756	1.0858	1.05887
1943	494561.06	3859351.99	3.16362	1.04684	2.2553	2.12304	8.482	6.224	1.0775	1.04684
1944	494611.06	3859351.99	3.14443	1.03442	2.19855	2.07875	8.563	6.626	1.0687	1.03442
1945	494661.06	3859351.99	3.12978	1.02431	2.1392	2.02794	8.611	6.902	1.0602	1.02431
1946	494711.06	3859351.99	3.10909	1.01372	1.79792	1.97787	8.575	7.247	1.0513	1.01372
1947	494761.06	3859351.99	3.08518	1.00326	1.66319	1.91079	8.416	7.64	1.0418	1.00326
1948	494811.06	3859351.99	3.04811	0.99511	1.58759	1.82903	8.094	8.826	1.0346	0.99511
1949	494861.06	3859351.99	3.0228	0.97308	1.55437	1.81217	8.075	10.93	1.0143	0.97308
1950	494911.06	3859351.99	3.00065	0.94825	1.53215	1.80916	8.116	7.098	0.9958	0.94825
1951	494961.06	3859351.99	2.97173	0.92376	1.49654	1.78094	8.015	5.826	0.9786	0.92376
1952	495011.06	3859351.99	2.94633	0.90048	1.47176	1.76665	7.977	5.578	0.9593	0.90048
1953	495061.06	3859351.99	2.93864	0.87566	1.47923	1.80889	8.243	5.621	0.9364	0.87566
1954	495111.06	3859351.99	2.91223	0.85393	1.44993	1.7853	8.147	5.453	0.9151	0.85393
1955	495161.06	3859351.99	2.89223	0.83024	1.43526	1.78188	8.155	5.557	0.892	0.83024
1956	495211.06	3859351.99	2.87131	0.80612	1.41919	1.77346	8.149	5.756	0.8683	0.80612
1957	495261.06	3859351.99	2.85541	0.78043	1.41472	1.77816	8.232	6.122	0.843	0.78043
1958	495311.06	3859351.99	2.83113	0.75632	1.39288	1.7533	8.136	6.499	0.8183	0.75632
1959	495361.06	3859351.99	2.81766	0.73087	1.38056	1.74087	8.113	6.959	0.7924	0.73087
1960	495411.06	3859351.99	2.80728	0.70853	1.37483	1.73664	8.137	6.951	0.766	0.70853
1961	495461.06	3859351.99	2.79906	0.69416	1.37399	1.74029	8.189	6.889	0.7397	0.69416
1962	495511.06	3859351.99	2.77657	0.68401	1.3438	1.69815	7.952	6.192	0.7124	0.68401
1963	495561.06	3859351.99	2.75744	0.67297	1.32203	1.66585	7.775	5.135	0.685	0.67297
1964	495611.06	3859351.99	2.74187	0.66154	1.30713	1.64184	7.651	4.193	0.6604	0.66154
1965	495661.06	3859351.99	2.71718	0.65008	1.27864	1.59418	7.373	3.765	0.6413	0.65008
1966	494311.06	3859401.99	3.25275	1.08006	2.74989	2.52872	9.216	4.857	1.094	1.08006
1967	494361.06	3859401.99	3.23974	1.08175	2.64131	2.4287	9.014	5.209	1.091	1.08175
1968	494411.06	3859401.99	3.22707	1.07972	2.52956	2.33363	8.776	6.104	1.0881	1.07972
1969	494461.06	3859401.99	3.21238	1.07518	2.45271	2.28322	8.55	6.031	1.087	1.07518
1970	494511.06	3859401.99	3.19544	1.06887	2.40554	2.25617	8.36	5.585	1.0837	1.06887
1971	494561.06	3859401.99	3.17803	1.06096	2.3478	2.19459	8.156	6.418	1.0782	1.06096
1972	494611.06	3859401.99	3.16007	1.05086	2.27533	2.11862	8.067	6.374	1.0733	1.05086
1973	494661.06	3859401.99	3.14225	1.03878	2.22762	2.09881	8.096	6.481	1.0648	1.03878
1974	494711.06	3859401.99	3.12393	1.02452	2.16823	2.07016	8.197	6.866	1.0554	1.02452
1975	494761.06	3859401.99	3.11047	1.01332	1.98401	1.93301	8.083	7.336	1.0482	1.01332
1976	494811.06	3859401.99	3.08944	1.00795	1.74113	1.89158	8.078	8.22	1.0444	1.00795
1977	494861.06	3859401.99	3.06354	0.99872	1.64337	1.83618	7.932	11.19	1.0366	0.99872
1978	494911.06	3859401.99	3.04081	0.97891	1.58148	1.80193	7.908	7.686	1.0183	0.97891
1979	494961.06	3859401.99	3.01888	0.95872	1.57638	1.81511	7.998	6.635	1.0005	0.95872
1980	495011.06	3859401.99	3.00004	0.93391	1.56029	1.82448	8.11	6.444	0.9836	0.93391
1981	495061.06	3859401.99	2.98452	0.90517	1.52407	1.82976	8.225	6.146	0.9624	0.90517
1982	495111.06	3859401.99	2.96032	0.88441	1.49374	1.80815	8.184	5.577	0.9445	0.88441
1983	495161.06	3859401.99	2.94067	0.86383	1.50492	1.8307	8.3	5.422	0.9253	0.86383
1984	495211.06	3859401.99	2.92457	0.84078	1.50005	1.84695	8.421	5.558	0.9034	0.84078
1985	495261.06	3859401.99	2.90506	0.81749	1.48328	1.84456	8.444	5.844	0.8809	0.81749
1986	495311.06	3859401.99	2.88476	0.7938	1.46421	1.83653	8.433	6.218	0.8577	0.7938
1987	495361.06	3859401.99	2.86967	0.76917	1.46315	1.85084	8.542	6.337	0.8338	0.76917
1988	495411.06	3859401.99	2.85146	0.74458	1.45122	1.84772	8.578	6.37	0.8094	0.74458
1989	495461.06	3859401.99	2.82987	0.71991	1.42794	1.82659	8.515	5.935	0.7844	0.71991
1990	495511.06	3859401.99	2.80943	0.70272	1.39298	1.78821	8.351	4.971	0.7584	0.70272
1991	495561.06	3859401.99	2.78693	0.69083	1.35468	1.7398	8.119	4.058	0.7322	0.69083

28.2353447	1.204029315	0.0001382	0.080967	3.295452	1.01352	4.571546	4.43E+00	3.40E+01
28.0618311	1.181644576	0.0001368	0.079925	3.22268	0.79881	4.484396	4.35E+00	3.35E+01
27.8829963	1.159278306	0.0001354	0.078855	3.144886	0.69486	4.397742	4.27E+00	3.31E+01
33.9244617	2.005170264	0.0002732	0.127665	4.169733	0.70712	7.748763	7.38E+00	4.13E+01
33.7631557	1.997930315	0.0002658	0.124581	4.073398	0.75184	7.75514	7.36E+00	4.11E+01
33.5950676	1.987642939	0.0002554	0.119541	3.952135	0.82117	7.743874	7.32E+00	4.09E+01
33.4018342	1.974141913	0.000247	0.115106	3.908606	0.77043	7.729562	7.27E+00	4.06E+01
33.2047403	1.955654187	0.0002398	0.11259	3.918415	0.80975	7.693497	7.20E+00	4.05E+01
33.0084811	1.933435671	0.0002348	0.111829	3.977363	0.87552	7.634193	7.12E+00	4.04E+01
32.8082571	1.910496854	0.0002289	0.109496	4.015524	0.93213	7.572338	7.03E+00	4.03E+01
32.6554024	1.891824435	0.0002227	0.10682	4.037661	0.97087	7.512112	6.97E+00	4.02E+01
32.4395277	1.872265492	0.0001872	0.104182	4.02093	1.01953	7.449123	6.89E+00	4.00E+01
32.1900563	1.85294665	0.0001731	0.100649	3.946607	1.07482	7.381316	6.82E+00	3.97E+01
31.8032764	1.837894206	0.0001653	0.096342	3.795329	1.24156	7.330798	6.77E+00	3.93E+01
31.5391977	1.797206433	0.0001618	0.095454	3.78663	1.53759	7.186752	6.62E+00	3.93E+01
31.3080898	1.751347269	0.0001595	0.095296	3.805715	0.99857	7.055461	6.45E+00	3.86E+01
31.0063451	1.706116059	0.0001558	0.093809	3.75858	0.81958	6.933451	6.28E+00	3.80E+01
30.7413274	1.663119629	0.0001532	0.093057	3.740779	0.78464	6.796703	6.12E+00	3.77E+01
30.6610917	1.617278934	0.000154	0.095282	3.86531	0.79078	6.634378	5.95E+00	3.77E+01
30.3855359	1.577145239	0.0001509	0.094039	3.820196	0.76707	6.483672	5.81E+00	3.73E+01
30.1768605	1.53339157	0.0001494	0.093859	3.824088	0.78172	6.320213	5.65E+00	3.71E+01
29.958586	1.488843723	0.0001477	0.093415	3.821363	0.80973	6.152219	5.48E+00	3.68E+01
29.7926891	1.441396202	0.0001473	0.093663	3.86004	0.86115	5.972676	5.31E+00	3.67E+01
29.5393572	1.396866824	0.000145	0.092353	3.815122	0.91425	5.797951	5.14E+00	3.64E+01
29.3988143	1.349862566	0.0001437	0.091699	3.804238	0.97894	5.614369	4.97E+00	3.63E+01
29.2905118	1.308602247	0.0001431	0.091476	3.81538	0.97783	5.42767	4.82E+00	3.61E+01
29.2047462	1.282061925	0.000143	0.091668	3.840195	0.96913	5.240687	4.72E+00	3.59E+01
28.9700907	1.263315629	0.0001399	0.089448	3.728653	0.87108	5.047753	4.65E+00	3.53E+01
28.7704927	1.24292557	0.0001376	0.087747	3.645739	0.72237	4.85333	4.58E+00	3.47E+01
28.6080389	1.221815209	0.0001361	0.086482	3.587696	0.5898	4.679385	4.50E+00	3.43E+01
28.3504292	1.200649441	0.0001331	0.083972	3.457304	0.52961	4.5437	4.42E+00	3.37E+01
33.938443	1.994790542	0.0002863	0.133198	4.321719	0.6833	7.751597	7.34E+00	4.15E+01
33.8026996	1.997911846	0.000275	0.12793	4.226753	0.73277	7.730129	7.36E+00	4.13E+01
33.6705038	1.994162587	0.0002633	0.122922	4.115188	0.85874	7.709227	7.34E+00	4.11E+01
33.5172317	1.985777544	0.0002553	0.120267	4.009142	0.84843	7.701433	7.31E+00	4.09E+01
33.3404837	1.974123443	0.0002504	0.118842	3.920061	0.78561	7.678547	7.27E+00	4.05E+01
33.1588317	1.959514261	0.0002444	0.115598	3.824716	0.90291	7.639365	7.21E+00	4.04E+01
32.9714412	1.940860312	0.0002369	0.111596	3.782846	0.89673	7.605001	7.15E+00	4.02E+01
32.7855115	1.91854945	0.0002319	0.110553	3.796585	0.91178	7.544421	7.06E+00	4.00E+01
32.5943648	1.89221229	0.0002257	0.109044	3.843576	0.96592	7.477606	6.97E+00	3.99E+01
32.4539263	1.871526722	0.0002065	0.10182	3.790443	1.03194	7.426521	6.89E+00	3.98E+01
32.2345041	1.861608731	0.0001813	0.099637	3.787695	1.15631	7.399667	6.85E+00	3.97E+01
31.9642695	1.844561607	0.0001711	0.096719	3.71965	1.57393	7.344543	6.79E+00	3.98E+01
31.7271099	1.80797401	0.0001646	0.094915	3.708255	1.08117	7.215094	6.66E+00	3.90E+01
31.4982974	1.77068458	0.0001641	0.095609	3.750566	0.9334	7.088691	6.52E+00	3.86E+01
31.3017252	1.724862355	0.0001624	0.096103	3.803014	0.90656	6.969232	6.35E+00	3.85E+01
31.1397931	1.671781711	0.0001587	0.096381	3.856757	0.86456	6.81881	6.16E+00	3.83E+01
30.8872958	1.633439534	0.0001555	0.095243	3.837696	0.7846	6.692407	6.01E+00	3.79E+01
30.6822723	1.595429803	0.0001567	0.09643	3.891842	0.76278	6.555801	5.87E+00	3.77E+01
30.5142886	1.552858167	0.0001562	0.097286	3.948614	0.78194	6.400561	5.72E+00	3.76E+01
30.3107257	1.509843268	0.0001544	0.09716	3.959465	0.82212	6.241636	5.56E+00	3.74E+01
30.0989202	1.466089599	0.0001524	0.096738	3.954456	0.87473	6.077256	5.40E+00	3.72E+01
29.9414747	1.420599819	0.0001523	0.097491	4.005447	0.89142	5.908057	5.23E+00	3.70E+01
29.7514757	1.375183917	0.0001511	0.097327	4.022511	0.8961	5.735174	5.06E+00	3.68E+01
29.5262106	1.329620261	0.0001487	0.096214	3.992777	0.83493	5.557899	4.90E+00	3.64E+01
29.3129444	1.297871608	0.000145	0.094192	3.91585	0.69934	5.373183	4.78E+00	3.59E+01
29.0781846	1.275911662	0.000141	0.091642	3.807235	0.57086	5.187901	4.70E+00	3.53E+01

1992	495611.06	3859401.99	2.7709	0.68056	1.33411	1.71442	8.015	3.698	0.7064	0.68056
1993	495661.06	3859401.99	2.75625	0.66967	1.31722	1.69215	7.928	3.408	0.6802	0.66967
1994	494311.06	3859451.99	3.25816	1.07378	2.71845	2.52807	9.301	5.061	1.0972	1.07378
1995	494361.06	3859451.99	3.24661	1.07502	2.62303	2.45686	9.181	5.419	1.0942	1.07502
1996	494411.06	3859451.99	3.23701	1.0783	2.48407	2.33783	8.988	6.33	1.0907	1.0783
1997	494461.06	3859451.99	3.21971	1.07675	2.44813	2.33562	8.867	6.547	1.0865	1.07675
1998	494511.06	3859451.99	3.20409	1.07341	2.37404	2.29323	8.686	6.098	1.0822	1.07341
1999	494561.06	3859451.99	3.18725	1.06847	2.31923	2.26486	8.506	6.469	1.077	1.06847
2000	494611.06	3859451.99	3.17018	1.06136	2.29241	2.26494	8.349	6.865	1.0699	1.06136
2001	494661.06	3859451.99	3.154	1.05308	2.21673	2.17559	8.109	6.74	1.0667	1.05308
2002	494711.06	3859451.99	3.13704	1.04294	2.14304	2.09551	7.873	6.954	1.0621	1.04294
2003	494761.06	3859451.99	3.11972	1.03041	2.08528	2.04337	7.778	7.462	1.0543	1.03041
2004	494811.06	3859451.99	3.10127	1.01656	1.9934	1.93384	7.66	8.084	1.0482	1.01656
2005	494861.06	3859451.99	3.0907	1.00623	1.75057	1.88037	7.673	10.59	1.0405	1.00623
2006	494911.06	3859451.99	3.07244	0.99264	1.69805	1.85768	7.749	9.612	1.0287	0.99264
2007	494961.06	3859451.99	3.05478	0.97472	1.67387	1.86076	7.888	8.987	1.013	0.97472
2008	495011.06	3859451.99	3.03616	0.95724	1.63961	1.85667	7.982	8.044	0.9973	0.95724
2009	495061.06	3859451.99	3.01726	0.93693	1.60621	1.85577	8.073	7.244	0.9811	0.93693
2010	495111.06	3859451.99	2.99777	0.91467	1.57535	1.85236	8.142	6.661	0.9665	0.91467
2011	495161.06	3859451.99	2.98032	0.88913	1.56532	1.86702	8.282	6.47	0.9485	0.88913
2012	495211.06	3859451.99	2.96362	0.8676	1.56275	1.88624	8.435	6.521	0.9286	0.8676
2013	495261.06	3859451.99	2.94641	0.84596	1.5588	1.90086	8.56	6.621	0.9085	0.84596
2014	495311.06	3859451.99	2.92753	0.82511	1.53529	1.89851	8.602	6.485	0.8889	0.82511
2015	495361.06	3859451.99	2.90926	0.80287	1.52011	1.90042	8.656	6.156	0.8677	0.80287
2016	495411.06	3859451.99	2.88988	0.78031	1.49529	1.89255	8.659	5.609	0.8461	0.78031
2017	495461.06	3859451.99	2.87133	0.75711	1.47859	1.88874	8.673	4.706	0.8234	0.75711
2018	495511.06	3859451.99	2.84744	0.73483	1.43057	1.85045	8.517	4.221	0.801	0.73483
2019	495561.06	3859451.99	2.82639	0.71288	1.40348	1.83075	8.456	3.885	0.7767	0.71288
2020	495611.06	3859451.99	2.80526	0.69778	1.37794	1.81006	8.394	3.527	0.7516	0.69778
2021	495661.06	3859451.99	2.78903	0.68612	1.35507	1.78975	8.33	3.245	0.7263	0.68612
2022	494311.06	3859501.99	3.25458	1.0669	2.56575	2.52681	9.211	6.984	1.0993	1.0669
2023	494361.06	3859501.99	3.24582	1.06762	2.45457	2.46644	9.164	7.321	1.0974	1.06762
2024	494411.06	3859501.99	3.24259	1.07065	2.29162	2.33537	9.031	8.189	1.0945	1.07065
2025	494461.06	3859501.99	3.22279	1.07031	2.30495	2.38199	9.003	8.586	1.0907	1.07031
2026	494511.06	3859501.99	3.21037	1.07191	2.22823	2.336	8.879	8.352	1.0866	1.07191
2027	494561.06	3859501.99	3.19606	1.07079	2.1664	2.30153	8.746	8.261	1.0813	1.07079
2028	494611.06	3859501.99	3.17616	1.06557	2.18463	2.34913	8.679	9.54	1.0749	1.06557
2029	494661.06	3859501.99	3.16296	1.0611	2.10005	2.2851	8.485	9.935	1.0701	1.0611
2030	494711.06	3859501.99	3.14841	1.05448	1.99855	2.18178	8.239	9.243	1.0638	1.05448
2031	494761.06	3859501.99	3.13049	1.0452	1.99108	2.20205	8.108	9.78	1.055	1.0452
2032	494811.06	3859501.99	3.11291	1.03473	1.86656	2.01021	7.766	9.207	1.0536	1.03473
2033	494861.06	3859501.99	3.0964	1.02172	1.82588	1.97228	7.554	11.59	1.0444	1.02172
2034	494911.06	3859501.99	3.0802	1.00729	1.80535	1.96678	7.5	13.42	1.0321	1.00729
2035	494961.06	3859501.99	3.06296	0.99215	1.75849	1.89116	7.453	11.97	1.0224	0.99215
2036	495011.06	3859501.99	3.04652	0.97483	1.74195	1.89562	7.566	11.37	1.0073	0.97483
2037	495061.06	3859501.99	3.03003	0.95583	1.72642	1.89956	7.742	10.09	0.9904	0.95583
2038	495111.06	3859501.99	3.02175	0.93575	1.58954	1.87007	7.803	8.57	0.9757	0.93575
2039	495161.06	3859501.99	3.00513	0.91382	1.57731	1.88137	7.96	7.552	0.9596	0.91382
2040	495211.06	3859501.99	2.98871	0.89085	1.57709	1.90801	8.159	6.758	0.9425	0.89085
2041	495261.06	3859501.99	2.97185	0.86778	1.5636	1.91455	8.299	6.217	0.9262	0.86778
2042	495311.06	3859501.99	2.95505	0.84877	1.55571	1.93023	8.445	5.702	0.9082	0.84877
2043	495361.06	3859501.99	2.93791	0.8288	1.5374	1.92839	8.538	5.242	0.8903	0.8288
2044	495411.06	3859501.99	2.92068	0.80806	1.52097	1.92334	8.623	4.537	0.8712	0.80806
2045	495461.06	3859501.99	2.90298	0.78683	1.49805	1.91813	8.666	4.235	0.8521	0.78683
2046	495511.06	3859501.99	2.88265	0.76718	1.42593	1.86851	8.52	3.85	0.8339	0.76718
2047	495561.06	3859501.99	2.86492	0.74542	1.44531	1.88479	8.612	3.575	0.8132	0.74542
2048	495611.06	3859501.99	2.84545	0.72298	1.42326	1.86908	8.574	3.296	0.7912	0.72298

28.9109313	1.256943736	0.0001389	0.090305	3.758603	0.52025	5.005028	4.63E+00	3.49E+01		
28.7580765	1.236830715	0.0001371	0.089132	3.717418	0.47946	4.819675	4.55E+00	3.45E+01		
33.9948897	1.983191848	0.000283	0.133164	4.361202	0.71193	7.773704	7.30E+00	4.17E+01		
33.8743796	1.985482036	0.0002731	0.129413	4.305128	0.76228	7.752802	7.31E+00	4.15E+01		
33.7742155	1.991539952	0.0002586	0.123143	4.214707	0.89045	7.728286	7.33E+00	4.14E+01		
33.5937112	1.988677218	0.0002549	0.123027	4.15785	0.92101	7.698528	7.32E+00	4.12E+01		
33.4307358	1.982508486	0.0002472	0.120794	4.073154	0.85788	7.667848	7.30E+00	4.08E+01		
33.2550311	1.973384673	0.0002414	0.119299	3.988842	0.90998	7.63065	7.27E+00	4.06E+01		
33.0769267	1.960253031	0.0002387	0.119304	3.914959	0.96578	7.58084	7.22E+00	4.04E+01		
32.9081083	1.944960487	0.0002308	0.114597	3.802311	0.94822	7.557671	7.16E+00	4.01E+01		
32.7311515	1.926232661	0.0002231	0.110379	3.691735	0.97822	7.525149	7.09E+00	3.99E+01		
32.5504387	1.903090682	0.0002171	0.107633	3.647122	1.04966	7.469812	7.01E+00	3.97E+01		
32.3579356	1.877510761	0.0002075	0.101863	3.591846	1.13727	7.426663	6.91E+00	3.96E+01		
32.2476507	1.858432019	0.0001822	0.099047	3.5982	1.4896	7.372389	6.84E+00	3.98E+01		
32.05713	1.833332299	0.0001768	0.097852	3.633697	1.35216	7.288923	6.75E+00	3.95E+01		
31.8728697	1.800235391	0.0001743	0.098014	3.698694	1.26423	7.177116	6.63E+00	3.93E+01		
31.6785929	1.767951131	0.0001707	0.097798	3.743025	1.13166	7.066372	6.51E+00	3.90E+01		
31.4813947	1.73044007	0.0001672	0.097751	3.785547	1.01909	6.951731	6.37E+00	3.87E+01		
31.2780405	1.689327505	0.000164	0.097571	3.817809	0.93709	6.848214	6.22E+00	3.84E+01		
31.0959712	1.642157023	0.000163	0.098344	3.883415	0.91012	6.720323	6.05E+00	3.83E+01		
30.9217273	1.602392713	0.0001627	0.099356	3.955165	0.91741	6.579395	5.90E+00	3.82E+01		
30.7421621	1.562425242	0.0001623	0.100126	4.01377	0.9314	6.436838	5.75E+00	3.80E+01		
30.5451725	1.523916841	0.0001598	0.100002	4.03383	0.91233	6.297894	5.61E+00	3.78E+01		
30.3545476	1.482841214	0.0001583	0.100103	4.059152	0.866	6.14818	5.46E+00	3.76E+01		
30.1523411	1.441174571	0.0001557	0.099688	4.060315	0.78908	5.994782	5.31E+00	3.72E+01		
29.9587947	1.398325896	0.0001539	0.099488	4.066852	0.662	5.833732	5.15E+00	3.69E+01		
29.709532	1.357176392	0.0001489	0.097471	3.993902	0.59382	5.675161	5.00E+00	3.64E+01		
29.4899011	1.316636373	0.0001461	0.096433	3.964974	0.54651	5.502916	4.85E+00	3.61E+01		
29.2694356	1.288747796	0.0001435	0.095343	3.936239	0.49611	5.325286	4.74E+00	3.57E+01		
29.1000955	1.267212642	0.0001411	0.094273	3.906125	0.45642	5.145885	4.67E+00	3.53E+01		
33.9575368	1.970485	0.0002671	0.133097	4.319219	0.98248	7.788937	7.25E+00	4.19E+01		
33.866137	1.971814786	0.0002555	0.129917	4.297143	1.02994	7.775404	7.26E+00	4.18E+01		
33.8324359	1.977410971	0.0002386	0.123013	4.234898	1.15197	7.755069	7.28E+00	4.18E+01		
33.6258473	1.976783016	0.00024	0.125469	4.221506	1.20788	7.728074	7.28E+00	4.16E+01		
33.4962598	1.979738097	0.000232	0.123047	4.163702	1.17498	7.69874	7.29E+00	4.13E+01		
33.3469526	1.977669541	0.0002255	0.121231	4.101012	1.1621	7.661542	7.28E+00	4.11E+01		
33.1393206	1.968028589	0.0002274	0.123738	4.069656	1.34208	7.616196	7.25E+00	4.10E+01		
33.0015948	1.959772831	0.0002186	0.120366	3.978976	1.3976	7.581832	7.22E+00	4.08E+01		
32.8497835	1.947546183	0.0002081	0.114923	3.863224	1.30028	7.537619	7.17E+00	4.04E+01		
32.6628104	1.930406713	0.0002073	0.115991	3.801772	1.37575	7.475339	7.11E+00	4.03E+01		
32.4793847	1.911069401	0.0001943	0.105886	3.641528	1.29514	7.465207	7.04E+00	3.99E+01		
32.3071232	1.887040898	0.0001901	0.103888	3.542323	1.63051	7.399738	6.95E+00	3.99E+01		
32.1380961	1.86038976	0.0001879	0.103598	3.516674	1.88721	7.312659	6.85E+00	4.00E+01		
31.9582179	1.832427306	0.0001831	0.099615	3.494859	1.68368	7.244215	6.75E+00	3.96E+01		
31.7866867	1.800438553	0.0001813	0.09985	3.547964	1.59946	7.137084	6.63E+00	3.93E+01		
31.6146339	1.765346965	0.0001797	0.100058	3.630157	1.42007	7.017412	6.50E+00	3.90E+01		
31.5282423	1.728260698	0.0001655	0.098504	3.658775	1.20566	6.913328	6.36E+00	3.88E+01		
31.354833	1.687757618	0.0001642	0.099099	3.732747	1.06238	6.798829	6.21E+00	3.85E+01		
31.1835105	1.645333735	0.0001642	0.100503	3.826141	0.95074	6.67774	6.06E+00	3.83E+01		
31.0075972	1.60272516	0.0001628	0.100847	3.891452	0.87457	6.562107	5.90E+00	3.81E+01		
30.8323099	1.567615103	0.000162	0.101673	3.960116	0.80211	6.434854	5.77E+00	3.79E+01		
30.6534751	1.530731997	0.0001601	0.101576	4.003791	0.73744	6.308168	5.64E+00	3.77E+01		
30.4737012	1.492426759	0.0001583	0.10131	4.04349	0.63824	6.17305	5.49E+00	3.74E+01		
30.2890235	1.453216527	0.000156	0.101036	4.063565	0.59581	6.037578	5.35E+00	3.72E+01		
30.076905	1.416924437	0.0001484	0.098422	3.995285	0.54165	5.908766	5.22E+00	3.68E+01		
29.8919142	1.376735335	0.0001505	0.09928	4.038407	0.50289	5.761532	5.07E+00	3.66E+01		
29.6887688	1.335290323	0.0001482	0.098452	4.020612	0.46361	5.606008	4.92E+00	3.63E+01		

2049	495661.06	3859501.99	2.82502	0.70642	1.39684	1.84696	8.499	3.046	0.7683	0.70642
2050	494311.06	3859551.99	3.24505	1.06867	2.73454	2.50293	9.115	7.7	1.0987	1.06867
2051	494361.06	3859551.99	3.23957	1.05968	2.56409	2.43826	9.078	9.876	1.0924	1.05968
2052	494411.06	3859551.99	3.24096	1.05719	2.37564	2.32819	9.006	14.96	1.093	1.05719
2053	494461.06	3859551.99	3.22016	1.0633	2.43194	2.39853	8.936	17.93	1.0945	1.0633
2054	494511.06	3859551.99	3.20985	1.06498	2.33699	2.3616	8.884	19.39	1.0912	1.06498
2055	494561.06	3859551.99	3.19674	1.06525	2.27077	2.34336	8.823	19.71	1.0871	1.06525
2056	494611.06	3859551.99	3.18072	1.06381	2.24217	2.35298	8.766	19.77	1.0816	1.06381
2057	494661.06	3859551.99	3.1662	1.06178	2.19009	2.34149	8.677	20.52	1.0753	1.06178
2058	494711.06	3859551.99	3.1589	1.06089	2.01009	2.19526	8.437	20.39	1.0712	1.06089
2059	494761.06	3859551.99	3.13863	1.05413	2.05103	2.27414	8.41	22.79	1.064	1.05413
2060	494811.06	3859551.99	3.12613	1.04713	1.94002	2.1679	8.178	23.39	1.0573	1.04713
2061	494861.06	3859551.99	3.10882	1.03792	1.89717	2.10812	8.015	23.6	1.0488	1.03792
2062	494911.06	3859551.99	3.09125	1.02714	1.84377	2.04446	7.819	17.66	1.0392	1.02714
2063	494961.06	3859551.99	3.07419	1.01427	1.82118	2.041	7.663	13.57	1.0275	1.01427
2064	495011.06	3859551.99	3.05887	0.99987	1.80634	2.04854	7.512	11.1	1.0144	0.99987
2065	495061.06	3859551.99	3.04309	0.98361	1.76981	2.0196	7.413	9.388	1	0.98361
2066	495111.06	3859551.99	3.02702	0.96569	1.72199	1.97661	7.396	8.101	0.9873	0.96569
2067	495161.06	3859551.99	3.01147	0.94695	1.70866	1.98417	7.527	7.214	0.97	0.94695
2068	495211.06	3859551.99	2.99586	0.92728	1.70337	2.00657	7.745	6.523	0.9511	0.92728
2069	495261.06	3859551.99	2.97971	0.90534	1.66739	1.98937	7.869	5.945	0.9386	0.90534
2070	495311.06	3859551.99	2.96362	0.88269	1.64107	1.98892	8.007	5.564	0.9242	0.88269
2071	495361.06	3859551.99	2.9475	0.86118	1.62166	1.998	8.158	5.133	0.9082	0.86118
2072	495411.06	3859551.99	2.93157	0.84287	1.60879	2.01398	8.319	4.73	0.8909	0.84287
2073	495461.06	3859551.99	2.91462	0.82287	1.56754	1.95827	8.362	4.481	0.8762	0.82287
2074	495511.06	3859551.99	2.90731	0.80142	1.50657	1.91461	8.376	4.191	0.86	0.80142
2075	495561.06	3859551.99	2.89067	0.78013	1.4841	1.90605	8.448	3.919	0.841	0.78013
2076	495611.06	3859551.99	2.87385	0.75818	1.46801	1.88621	8.497	3.707	0.8213	0.75818
2077	495661.06	3859551.99	2.85614	0.7362	1.44807	1.86997	8.497	3.505	0.8023	0.7362
2078	494311.06	3859601.99	3.22522	1.07901	2.97109	2.53477	8.887	9.044	1.1012	1.07901
2079	494361.06	3859601.99	3.2348	1.06215	2.69586	2.40519	8.933	11.78	1.0967	1.06215
2080	494411.06	3859601.99	3.23083	1.06342	2.59954	2.36509	8.933	15.03	1.0989	1.06342
2081	494461.06	3859601.99	3.20978	1.0628	2.64479	2.41782	8.914	12.6	1.097	1.0628
2082	494511.06	3859601.99	3.20606	1.05797	2.52191	2.35341	8.873	11.36	1.0949	1.05797
2083	494561.06	3859601.99	3.18776	1.05866	2.54173	2.38771	8.813	10.95	1.0918	1.05866
2084	494611.06	3859601.99	3.17232	1.05903	2.52882	2.40524	8.728	10.75	1.0875	1.05903
2085	494661.06	3859601.99	3.16667	1.05457	2.37811	2.3161	8.645	10.92	1.0788	1.05457
2086	494711.06	3859601.99	3.15945	1.06129	2.27425	2.2487	8.54	11.56	1.0783	1.06129
2087	494761.06	3859601.99	3.13591	1.05361	2.36966	2.35468	8.561	10.66	1.0698	1.05361
2088	494811.06	3859601.99	3.12828	1.05313	2.23671	2.26427	8.412	10.81	1.0648	1.05313
2089	494861.06	3859601.99	3.11341	1.04716	2.19965	2.25293	8.311	11.09	1.0582	1.04716
2090	494911.06	3859601.99	3.10098	1.03961	2.10925	2.18659	8.141	11.28	1.0507	1.03961
2091	494961.06	3859601.99	3.08235	1.02932	2.14311	2.24381	8.081	10.75	1.0403	1.02932
2092	495011.06	3859601.99	3.06944	1.01853	2.04644	2.15936	7.874	9.566	1.0308	1.01853
2093	495061.06	3859601.99	3.05219	1.00555	2.05169	2.19179	7.765	8.691	1.0184	1.00555
2094	495111.06	3859601.99	3.0361	0.99123	1.98895	2.10977	7.568	8.036	1.0058	0.99123
2095	495161.06	3859601.99	3.02134	0.97538	1.98147	2.12877	7.428	7.275	0.991	0.97538
2096	495211.06	3859601.99	3.00647	0.95816	1.95413	2.09826	7.325	6.661	0.9755	0.95816
2097	495261.06	3859601.99	2.99141	0.93965	1.93693	2.09403	7.37	6.209	0.9584	0.93965
2098	495311.06	3859601.99	2.97644	0.9201	1.92354	2.09769	7.502	5.69	0.9426	0.9201
2099	495361.06	3859601.99	2.96123	0.89938	1.88989	2.06235	7.659	5.183	0.9287	0.89938
2100	495411.06	3859601.99	2.94596	0.87776	1.87344	2.06168	7.837	4.766	0.9135	0.87776
2101	495461.06	3859601.99	2.93013	0.85647	1.79859	1.99518	7.893	4.503	0.8973	0.85647
2102	495511.06	3859601.99	2.91405	0.83613	1.73497	1.95369	7.953	4.258	0.8808	0.83613
2103	495561.06	3859601.99	2.89882	0.81772	1.73222	1.97619	8.135	4.028	0.8623	0.81772
2104	495611.06	3859601.99	2.88211	0.79584	1.65936	1.90919	8.143	3.808	0.8478	0.79584
2105	495661.06	3859601.99	2.8665	0.77529	1.64256	1.9158	8.267	3.648	0.8285	0.77529

29.4756069	1.304705233	0.0001454	0.097287	3.985288	0.42854	5.443683	4.80E+00	3.59E+01		
33.858103	1.973754058	0.0002847	0.13184	4.274109	1.0832	7.784473	7.27E+00	4.18E+01		
33.8009259	1.957150196	0.0002669	0.128433	4.256806	1.38926	7.739694	7.21E+00	4.21E+01		
33.8154288	1.952551351	0.0002473	0.122635	4.222931	2.10395	7.744583	7.19E+00	4.28E+01		
33.5984064	1.963836067	0.0002532	0.12634	4.190342	2.52264	7.754786	7.23E+00	4.29E+01		
33.4908343	1.966938902	0.0002433	0.124395	4.165695	2.72796	7.731617	7.24E+00	4.30E+01		
33.3540476	1.967437572	0.0002364	0.123434	4.137161	2.7733	7.702283	7.24E+00	4.28E+01		
33.1868986	1.964777999	0.0002334	0.123941	4.110461	2.78138	7.663385	7.23E+00	4.26E+01		
33.0354003	1.96102874	0.000228	0.123336	4.068685	2.88596	7.619172	7.22E+00	4.25E+01		
32.9592337	1.959384976	0.0002093	0.115633	3.956318	2.86782	7.589768	7.21E+00	4.22E+01		
32.7477412	1.946899759	0.0002135	0.119788	3.943606	3.20654	7.538682	7.17E+00	4.23E+01		
32.6173191	1.933971279	0.000202	0.114192	3.835037	3.29003	7.491494	7.12E+00	4.22E+01		
32.4367106	1.916961094	0.0001975	0.111043	3.758326	3.31947	7.430843	7.06E+00	4.19E+01		
32.2533892	1.897051235	0.0001919	0.10769	3.666404	2.48504	7.362824	6.98E+00	4.08E+01		
32.0753891	1.873281302	0.0001896	0.107508	3.593346	1.90839	7.28035	6.90E+00	3.99E+01		
31.9155438	1.846685572	0.0001881	0.107905	3.522376	1.56179	7.18739	6.80E+00	3.93E+01		
31.7508989	1.81665456	0.0001842	0.106381	3.476267	1.3206	7.085361	6.69E+00	3.89E+01		
31.5832282	1.783557652	0.0001793	0.104116	3.467953	1.13961	6.995093	6.57E+00	3.85E+01		
31.4209831	1.748946265	0.0001779	0.104514	3.529344	1.0149	6.872587	6.44E+00	3.83E+01		
31.258112	1.712617237	0.0001773	0.105694	3.631906	0.91759	6.738816	6.31E+00	3.81E+01		
31.0896066	1.672095688	0.0001736	0.104788	3.690061	0.83634	6.650107	6.16E+00	3.79E+01		
30.9217273	1.630262822	0.0001708	0.104765	3.7545	0.78279	6.54822	6.00E+00	3.77E+01		
30.7535349	1.59053545	0.0001688	0.105243	3.825241	0.72208	6.435066	5.86E+00	3.76E+01		
30.587325	1.556718241	0.0001675	0.106085	3.900742	0.66533	6.312065	5.73E+00	3.74E+01		
30.4104726	1.519779728	0.0001632	0.10315	3.921046	0.63037	6.207839	5.60E+00	3.72E+01		
30.3342017	1.480163172	0.0001568	0.10085	3.927888	0.58956	6.093056	5.45E+00	3.71E+01		
30.1605838	1.440842125	0.0001545	0.100399	3.961439	0.55126	5.958647	5.30E+00	3.69E+01		
29.9850878	1.400302106	0.0001528	0.099354	3.984617	0.52143	5.81949	5.16E+00	3.67E+01		
29.8003058	1.35970668	0.0001508	0.098499	3.984519	0.49309	5.684868	5.01E+00	3.64E+01		
33.6512013	1.99285127	0.0003093	0.133517	4.167486	1.27226	7.80247	7.34E+00	4.17E+01		
33.7511568	1.961712103	0.0002807	0.126691	4.189085	1.65657	7.770373	7.22E+00	4.22E+01		
33.7097348	1.964057698	0.0002706	0.124579	4.188789	2.11446	7.786032	7.23E+00	4.27E+01		
33.4901039	1.962912604	0.0002753	0.127356	4.179838	1.77197	7.772357	7.23E+00	4.21E+01		
33.4512903	1.953991953	0.0002625	0.123964	4.16065	1.59848	7.757549	7.19E+00	4.19E+01		
33.2603523	1.955266332	0.0002646	0.12577	4.132369	1.53992	7.735939	7.20E+00	4.16E+01		
33.0992549	1.955949695	0.0002633	0.126694	4.092619	1.51274	7.704976	7.20E+00	4.13E+01		
33.0403041	1.947712406	0.0002476	0.121998	4.053924	1.53575	7.643333	7.17E+00	4.12E+01		
32.9649723	1.960123747	0.0002368	0.118448	4.004485	1.62598	7.640428	7.22E+00	4.11E+01		
32.7193614	1.945939358	0.0002467	0.124031	4.014473	1.50003	7.579565	7.16E+00	4.07E+01		
32.6397517	1.945052833	0.0002329	0.119268	3.944633	1.52109	7.544421	7.16E+00	4.06E+01		
32.4846016	1.934026687	0.000229	0.118671	3.897023	1.56072	7.497516	7.12E+00	4.04E+01		
32.3549098	1.920082398	0.0002196	0.115177	3.817612	1.58668	7.444518	7.07E+00	4.02E+01		
32.1605287	1.901077533	0.0002231	0.118191	3.789341	1.51279	7.370759	7.00E+00	3.99E+01		
32.0258287	1.881149205	0.000213	0.113742	3.692134	1.34568	7.303448	6.93E+00	3.94E+01		
31.8458462	1.85717611	0.0002136	0.115451	3.641383	1.22257	7.215661	6.84E+00	3.91E+01		
31.6779669	1.830728134	0.0002071	0.11113	3.548729	1.1305	7.126527	6.74E+00	3.87E+01		
31.5239644	1.801454362	0.0002063	0.112131	3.483047	1.02339	7.021734	6.63E+00	3.83E+01		
31.3688143	1.769650302	0.0002034	0.110524	3.434636	0.93704	6.911415	6.52E+00	3.80E+01		
31.2116817	1.735463708	0.0002016	0.110301	3.4557	0.87341	6.790681	6.39E+00	3.78E+01		
31.0554882	1.699356311	0.0002003	0.110494	3.517663	0.8005	6.678519	6.26E+00	3.76E+01		
30.8967906	1.661088011	0.0001967	0.108632	3.591602	0.72909	6.579891	6.12E+00	3.75E+01		
30.7374669	1.621157478	0.000195	0.108597	3.674798	0.67042	6.472477	5.97E+00	3.73E+01		
30.5723003	1.581836431	0.0001872	0.105094	3.701362	0.63341	6.35734	5.82E+00	3.71E+01		
30.4045253	1.544269962	0.0001806	0.102909	3.729319	0.59902	6.240573	5.69E+00	3.69E+01		
30.245619	1.510268061	0.0001803	0.104094	3.814676	0.56658	6.109494	5.56E+00	3.68E+01		
30.0712707	1.469857327	0.0001727	0.100565	3.818578	0.53576	6.006898	5.41E+00	3.66E+01		
29.9083996	1.431903004	0.000171	0.100913	3.876733	0.51314	5.870151	5.27E+00	3.64E+01		

2106	494311.06	3859651.99	3.20893	1.0868	3.15011	2.54558	8.558	9.758	1.1069	1.0868
2107	494361.06	3859651.99	3.22	1.06256	2.90775	2.42062	8.663	11.71	1.1006	1.06256
2108	494411.06	3859651.99	3.21102	1.06019	2.83957	2.39914	8.709	13.19	1.0995	1.06019
2109	494461.06	3859651.99	3.19085	1.06246	2.88443	2.4462	8.714	11.76	1.0979	1.06246
2110	494511.06	3859651.99	3.18306	1.05893	2.80419	2.42902	8.721	8.9	1.0962	1.05893
2111	494561.06	3859651.99	3.17055	1.05671	2.78001	2.43815	8.719	8.725	1.0936	1.05671
2112	494611.06	3859651.99	3.15858	1.05315	2.74668	2.44033	8.701	8.657	1.0902	1.05315
2113	494661.06	3859651.99	3.15832	1.04691	2.52917	2.33069	8.664	8.539	1.0826	1.04691
2114	494711.06	3859651.99	3.14505	1.0477	2.51079	2.33176	8.601	7.656	1.0786	1.0477
2115	494761.06	3859651.99	3.13121	1.05304	2.52882	2.35766	8.524	6.604	1.0789	1.05304
2116	494811.06	3859651.99	3.12221	1.05142	2.45273	2.31579	8.442	6.998	1.073	1.05142
2117	494861.06	3859651.99	3.10814	1.04743	2.43185	2.31937	8.401	6.849	1.0654	1.04743
2118	494911.06	3859651.99	3.09583	1.0426	2.38417	2.30015	8.33	6.861	1.0572	1.0426
2119	494961.06	3859651.99	3.0819	1.03602	2.35592	2.29553	8.254	7.137	1.0479	1.03602
2120	495011.06	3859651.99	3.06844	1.02921	2.31515	2.27998	8.155	7.344	1.0407	1.02921
2121	495061.06	3859651.99	3.05315	1.0193	2.30037	2.28481	8.06	7.347	1.0304	1.0193
2122	495111.06	3859651.99	3.03988	1.00902	2.25	2.25603	7.927	7.106	1.0211	1.00902
2123	495161.06	3859651.99	3.02492	0.99634	2.22215	2.246	7.799	6.639	1.009	0.99634
2124	495211.06	3859651.99	3.00931	0.98218	2.20647	2.24662	7.671	6.082	0.9955	0.98218
2125	495261.06	3859651.99	2.99466	0.96655	2.17401	2.23161	7.519	5.55	0.9811	0.96655
2126	495311.06	3859651.99	2.98096	0.94968	2.15099	2.22464	7.367	5.208	0.9655	0.94968
2127	495361.06	3859651.99	2.96703	0.93154	2.13245	2.22082	7.25	4.969	0.9486	0.93154
2128	495411.06	3859651.99	2.95354	0.9123	2.09947	2.20051	7.28	4.776	0.9353	0.9123
2129	495461.06	3859651.99	2.94104	0.89141	2.02572	2.1265	7.315	4.579	0.9222	0.89141
2130	495511.06	3859651.99	2.92636	0.86928	1.96502	2.0132	7.429	4.446	0.9076	0.86928
2131	495561.06	3859651.99	2.9117	0.85151	1.94472	2.00219	7.597	4.241	0.8917	0.85151
2132	495611.06	3859651.99	2.89679	0.83277	1.90578	1.97097	7.723	4.044	0.8748	0.83277
2133	495661.06	3859651.99	2.88162	0.81272	1.8604	1.94532	7.827	3.851	0.8568	0.81272
2134	494311.06	3859701.99	3.20582	1.06613	3.04442	2.45803	8.56	9.992	1.1006	1.06613
2135	494361.06	3859701.99	3.20236	1.06384	2.95941	2.43244	8.514	10.93	1.1019	1.06384
2136	494411.06	3859701.99	3.18954	1.0645	2.94156	2.44186	8.436	12.11	1.1012	1.0645
2137	494461.06	3859701.99	3.1651	1.07584	3.02901	2.51572	8.375	11.05	1.1024	1.07584
2138	494511.06	3859701.99	3.15725	1.06949	2.97307	2.49202	8.44	8.014	1.0988	1.06949
2139	494561.06	3859701.99	3.14538	1.06657	2.94906	2.48771	8.472	7.682	1.0957	1.06657
2140	494611.06	3859701.99	3.13439	1.06206	2.91578	2.48046	8.488	7.012	1.0919	1.06206
2141	494661.06	3859701.99	3.14269	1.04715	2.69129	2.36565	8.532	6.281	1.0919	1.04715
2142	494711.06	3859701.99	3.1264	1.04424	2.72216	2.40335	8.525	5.598	1.0876	1.04424
2143	494761.06	3859701.99	3.11896	1.04697	2.64957	2.37612	8.511	5.564	1.0847	1.04697
2144	494811.06	3859701.99	3.11109	1.04837	2.57266	2.34446	8.474	5.419	1.0808	1.04837
2145	494861.06	3859701.99	3.09401	1.04518	2.61026	2.3835	8.407	5.088	1.0737	1.04518
2146	494911.06	3859701.99	3.08397	1.04314	2.55541	2.36301	8.327	4.939	1.0674	1.04314
2147	494961.06	3859701.99	3.07322	1.03927	2.50381	2.34281	8.258	4.993	1.0597	1.03927
2148	495011.06	3859701.99	3.05914	1.033	2.4955	2.34907	8.221	5.16	1.0501	1.033
2149	495061.06	3859701.99	3.04672	1.02582	2.45977	2.33601	8.163	5.382	1.0398	1.02582
2150	495111.06	3859701.99	3.03423	1.01771	2.42182	2.32031	8.09	5.513	1.03	1.01771
2151	495161.06	3859701.99	3.02201	1.008	2.37408	2.29869	7.999	5.555	1.0197	1.008
2152	495211.06	3859701.99	3.00981	0.99737	2.32134	2.27513	7.891	5.552	1.0091	0.99737
2153	495261.06	3859701.99	2.99343	0.98353	2.33812	2.2961	7.801	5.415	0.9946	0.98353
2154	495311.06	3859701.99	2.98047	0.97	2.29561	2.27486	7.674	5.205	0.9818	0.97
2155	495361.06	3859701.99	2.96695	0.95595	2.26311	2.25775	7.538	4.941	0.969	0.95595
2156	495411.06	3859701.99	2.95564	0.94072	2.20864	2.21747	7.375	4.657	0.9569	0.94072
2157	495461.06	3859701.99	2.94354	0.92322	2.17094	2.19006	7.215	4.373	0.9425	0.92322
2158	495511.06	3859701.99	2.93324	0.90365	2.08224	2.10888	7.015	4.092	0.9307	0.90365
2159	495561.06	3859701.99	2.91828	0.88906	2.10276	2.14094	7.084	3.901	0.916	0.88906
2160	495611.06	3859701.99	2.90532	0.87089	2.06979	2.11695	7.132	3.756	0.9014	0.87089
2161	495661.06	3859701.99	2.89219	0.85108	2.03069	2.07471	7.278	3.638	0.8859	0.85108
2162	494311.06	3859751.99	3.16611	1.08893	3.0896	2.56586	8.458	8.92	1.1386	1.08893

33.4812352	2.007238821	0.0003279	0.134086	4.012917	1.37269	7.843069	7.39E+00	4.15E+01
33.596737	1.962469342	0.0003027	0.127504	4.062177	1.64708	7.797936	7.23E+00	4.20E+01
33.5030418	1.958092128	0.0002956	0.126372	4.083916	1.85559	7.790213	7.21E+00	4.21E+01
33.2925927	1.96228465	0.0003003	0.128851	4.086354	1.65436	7.779159	7.22E+00	4.17E+01
33.2113136	1.955765002	0.0002919	0.127946	4.089402	1.25206	7.766902	7.20E+00	4.12E+01
33.0807872	1.951664827	0.0002894	0.128427	4.088464	1.22735	7.748338	7.19E+00	4.10E+01
32.9558949	1.945089772	0.0002859	0.128542	4.079855	1.21789	7.724106	7.16E+00	4.09E+01
32.9531822	1.933564956	0.0002633	0.122767	4.062641	1.20126	7.670399	7.12E+00	4.08E+01
32.814726	1.935024027	0.0002614	0.122823	4.033371	1.07702	7.642483	7.12E+00	4.05E+01
32.6703227	1.94488661	0.0002633	0.124188	3.99725	0.92899	7.644183	7.16E+00	4.01E+01
32.5764187	1.94189459	0.0002553	0.121982	3.958785	0.98451	7.602309	7.15E+00	4.00E+01
32.4296156	1.934525357	0.0002532	0.122171	3.939479	0.96355	7.548673	7.12E+00	3.98E+01
32.3011759	1.925604706	0.0002482	0.121158	3.906116	0.96519	7.490785	7.09E+00	3.96E+01
32.1558335	1.913451935	0.0002453	0.120915	3.87044	1.00405	7.424962	7.04E+00	3.94E+01
32.015395	1.900874371	0.000241	0.120096	3.823998	1.03306	7.373735	7.00E+00	3.93E+01
31.8558626	1.882571338	0.0002395	0.12035	3.779709	1.0335	7.301039	6.93E+00	3.90E+01
31.7174065	1.863584942	0.0002342	0.118834	3.717319	0.9997	7.23472	6.86E+00	3.88E+01
31.5613173	1.840165924	0.0002313	0.118306	3.657152	0.9339	7.149271	6.77E+00	3.85E+01
31.3984462	1.814013457	0.0002297	0.118339	3.596971	0.85563	7.053689	6.68E+00	3.82E+01
31.2455915	1.785146009	0.0002263	0.117548	3.525663	0.78079	6.95166	6.57E+00	3.78E+01
31.1026488	1.753988372	0.0002239	0.117181	3.454382	0.73267	6.840845	6.46E+00	3.75E+01
30.9573064	1.720485141	0.000222	0.11698	3.399856	0.69908	6.721102	6.33E+00	3.73E+01
30.8165549	1.684950291	0.0002186	0.11591	3.413718	0.67192	6.627009	6.20E+00	3.71E+01
30.6861328	1.646368013	0.0002109	0.112011	3.429919	0.64419	6.53412	6.06E+00	3.70E+01
30.532965	1.605495548	0.0002046	0.106043	3.483568	0.62543	6.430886	5.91E+00	3.69E+01
30.380006	1.572675679	0.0002025	0.105464	3.562384	0.59656	6.318229	5.79E+00	3.67E+01
30.2244385	1.538064292	0.0001984	0.103819	3.621416	0.5689	6.198486	5.66E+00	3.66E+01
30.0661582	1.501033432	0.0001937	0.102468	3.670071	0.54175	6.070525	5.53E+00	3.64E+01
33.4487862	1.969062867	0.0003169	0.129474	4.013953	1.40559	7.797794	7.25E+00	4.15E+01
33.4126854	1.964833407	0.0003081	0.128127	3.992195	1.53692	7.807217	7.23E+00	4.16E+01
33.2789244	1.966052378	0.0003062	0.128623	3.956013	1.70378	7.802683	7.24E+00	4.16E+01
33.0239231	1.986996515	0.0003153	0.132513	3.927386	1.55417	7.811114	7.32E+00	4.11E+01
32.942018	1.975268537	0.0003095	0.131265	3.957579	1.12743	7.785394	7.27E+00	4.06E+01
32.8181692	1.969875514	0.000307	0.131038	3.972843	1.08072	7.763642	7.25E+00	4.05E+01
32.7035021	1.961545879	0.0003036	0.130656	3.979975	0.98644	7.736789	7.22E+00	4.03E+01
32.7901023	1.934008218	0.0002802	0.124608	4.000776	0.88358	7.736789	7.12E+00	4.03E+01
32.6201362	1.928633664	0.0002834	0.126594	3.997311	0.78749	7.705968	7.10E+00	4.01E+01
32.542509	1.933675771	0.0002758	0.12516	3.99106	0.78268	7.685491	7.12E+00	3.99E+01
32.4603952	1.936261467	0.0002678	0.123492	3.973527	0.76233	7.657716	7.13E+00	3.98E+01
32.2821865	1.930369774	0.0002717	0.125549	3.942086	0.71573	7.607339	7.11E+00	3.95E+01
32.1774314	1.926602046	0.000266	0.124469	3.904906	0.69474	7.562702	7.09E+00	3.93E+01
32.0652684	1.919454443	0.0002607	0.123405	3.872124	0.70234	7.508003	7.07E+00	3.91E+01
31.9183609	1.907874219	0.0002598	0.123735	3.85491	0.72582	7.440337	7.02E+00	3.89E+01
31.7887735	1.894613293	0.0002561	0.123047	3.827698	0.7571	7.3675	6.98E+00	3.88E+01
31.6584557	1.879634726	0.0002521	0.12222	3.79342	0.77561	7.297638	6.92E+00	3.86E+01
31.5309551	1.861701078	0.0002472	0.121081	3.750842	0.78149	7.22473	6.85E+00	3.84E+01
31.4036631	1.842068258	0.0002417	0.11984	3.700424	0.78105	7.149625	6.78E+00	3.82E+01
31.2327579	1.816506806	0.0002434	0.120945	3.658254	0.76181	7.046958	6.69E+00	3.79E+01
31.0975363	1.791517902	0.000239	0.119826	3.598434	0.73227	6.956478	6.60E+00	3.77E+01
30.9564717	1.765568596	0.0002356	0.118925	3.534652	0.69514	6.865644	6.50E+00	3.74E+01
30.8384658	1.737439918	0.0002299	0.116803	3.458406	0.6551	6.77984	6.40E+00	3.72E+01
30.7122172	1.705118719	0.000226	0.115359	3.383107	0.61514	6.678165	6.28E+00	3.69E+01
30.6047494	1.668974384	0.0002168	0.111083	3.289463	0.57557	6.594274	6.14E+00	3.67E+01
30.4486602	1.642027738	0.0002189	0.112772	3.321589	0.54878	6.489907	6.05E+00	3.65E+01
30.3134385	1.608469099	0.0002155	0.111508	3.34451	0.52842	6.386744	5.92E+00	3.64E+01
30.1764431	1.571881501	0.0002114	0.109283	3.412953	0.51175	6.276779	5.79E+00	3.63E+01
33.0344612	2.011172772	0.0003216	0.135154	3.966048	1.25484	8.067675	7.40E+00	4.11E+01

2163	494361.06	3859751.99	3.16019	1.08394	3.04055	2.54896	8.42	9.969	1.1292	1.08394
2164	494411.06	3859751.99	3.15726	1.07511	2.96503	2.513	8.369	11.5	1.1153	1.07511
2165	494461.06	3859751.99	3.13625	1.08564	3.02545	2.57058	8.295	11.25	1.1278	1.08564
2166	494511.06	3859751.99	3.12062	1.08906	3.04066	2.59544	8.219	8.058	1.1313	1.08906
2167	494561.06	3859751.99	3.11375	1.08276	2.99255	2.57554	8.153	7.317	1.1221	1.08276
2168	494611.06	3859751.99	3.11067	1.07203	2.91293	2.53307	8.174	5.596	1.1075	1.07203
2169	494661.06	3859751.99	3.11374	1.04555	2.75046	2.42638	8.265	5.09	1.0884	1.04555
2170	494711.06	3859751.99	3.09974	1.05391	2.78923	2.4602	8.287	4.811	1.0898	1.05391
2171	494761.06	3859751.99	3.08842	1.04963	2.77177	2.45395	8.296	5.024	1.0856	1.04963
2172	494811.06	3859751.99	3.08207	1.04321	2.71638	2.42877	8.311	4.741	1.0819	1.04321
2173	494861.06	3859751.99	3.07179	1.04168	2.69746	2.42585	8.31	4.13	1.0765	1.04168
2174	494911.06	3859751.99	3.06165	1.03973	2.6743	2.42347	8.29	4.234	1.071	1.03973
2175	494961.06	3859751.99	3.05121	1.03624	2.65051	2.41972	8.251	4.159	1.0639	1.03624
2176	495011.06	3859751.99	3.04139	1.03256	2.61704	2.40877	8.195	4.248	1.0577	1.03256
2177	495061.06	3859751.99	3.02866	1.0285	2.61125	2.41453	8.113	4.257	1.0483	1.0285
2178	495111.06	3859751.99	3.01833	1.02262	2.5772	2.40111	8.073	4.202	1.0396	1.02262
2179	495161.06	3859751.99	3.00851	1.01568	2.53247	2.37959	8.034	4.262	1.0307	1.01568
2180	495211.06	3859751.99	2.99862	1.0074	2.48268	2.35357	7.978	4.388	1.0207	1.0074
2181	495261.06	3859751.99	2.98573	0.9992	2.46793	2.34891	7.914	4.5	1.0092	0.9992
2182	495311.06	3859751.99	2.9744	0.98906	2.42784	2.32665	7.832	4.56	0.9982	0.98906
2183	495361.06	3859751.99	2.96233	0.978	2.39491	2.30737	7.739	4.556	0.9855	0.978
2184	495411.06	3859751.99	2.94993	0.96629	2.36308	2.28782	7.635	4.491	0.9721	0.96629
2185	495461.06	3859751.99	2.93948	0.95134	2.29473	2.23989	7.506	4.377	0.9587	0.95134
2186	495511.06	3859751.99	2.92927	0.93604	2.22577	2.19753	7.362	4.221	0.9458	0.93604
2187	495561.06	3859751.99	2.91778	0.92177	2.19121	2.17578	7.222	4.048	0.9344	0.92177
2188	495611.06	3859751.99	2.90603	0.90612	2.15716	2.15502	7.075	3.867	0.9228	0.90612
2189	495661.06	3859751.99	2.89334	0.89051	2.14113	2.14823	6.947	3.692	0.9091	0.89051
2190	494311.06	3859801.99	3.11613	1.11874	2.98878	2.65885	8.711	8.473	1.1876	1.11874
2191	494361.06	3859801.99	3.11869	1.10127	2.90989	2.61018	8.509	9.338	1.1692	1.10127
2192	494411.06	3859801.99	3.1218	1.0839	2.81974	2.55394	8.289	10.99	1.1474	1.0839
2193	494461.06	3859801.99	3.10251	1.09418	2.87001	2.60582	8.199	11.6	1.159	1.09418
2194	494511.06	3859801.99	3.08091	1.10321	2.92892	2.66204	8.104	9.024	1.17	1.10321
2195	494561.06	3859801.99	3.0748	1.09867	2.90092	2.64678	8.049	7.163	1.1623	1.09867
2196	494611.06	3859801.99	3.08232	1.08021	2.78695	2.5654	8.062	5.379	1.1353	1.08021
2197	494661.06	3859801.99	3.07746	1.07244	2.74252	2.5382	8.013	5.151	1.1239	1.07244
2198	494711.06	3859801.99	3.07551	1.06082	2.67819	2.49163	7.954	4.714	1.1081	1.06082
2199	494761.06	3859801.99	3.056	1.06696	2.73445	2.53638	7.971	4.632	1.1163	1.06696
2200	494811.06	3859801.99	3.05033	1.05812	2.69491	2.50619	8.029	4.734	1.1051	1.05812
2201	494861.06	3859801.99	3.04033	1.05321	2.6823	2.49589	8.052	4.381	1.0987	1.05321
2202	494911.06	3859801.99	3.03551	1.04814	2.63014	2.45646	8.081	4.152	1.086	1.04814
2203	494961.06	3859801.99	3.02658	1.04513	2.61629	2.45196	8.089	4.067	1.0779	1.04513
2204	495011.06	3859801.99	3.01818	1.041	2.59659	2.44126	8.091	3.782	1.0685	1.041
2205	495061.06	3859801.99	3.00761	1.0378	2.59156	2.44117	8.066	3.693	1.0616	1.0378
2206	495111.06	3859801.99	3.00047	1.03265	2.55471	2.41551	8.039	3.672	1.051	1.03265
2207	495161.06	3859801.99	2.99231	1.02686	2.52185	2.39253	7.989	3.693	1.041	1.02686
2208	495211.06	3859801.99	2.98106	1.02119	2.51317	2.39094	7.911	3.684	1.0317	1.02119
2209	495261.06	3859801.99	2.97273	1.01397	2.47432	2.36867	7.873	3.723	1.0216	1.01397
2210	495311.06	3859801.99	2.96078	1.00659	2.46841	2.37432	7.836	3.789	1.0108	1.00659
2211	495361.06	3859801.99	2.95091	0.99783	2.43613	2.36016	7.787	3.859	0.9998	0.99783
2212	495411.06	3859801.99	2.94209	0.98759	2.38826	2.33056	7.723	3.923	0.9893	0.98759
2213	495461.06	3859801.99	2.93117	0.97687	2.35929	2.31591	7.646	3.955	0.9772	0.97687
2214	495511.06	3859801.99	2.92275	0.96273	2.29201	2.26524	7.55	3.947	0.9654	0.96273
2215	495561.06	3859801.99	2.91047	0.95034	2.27356	2.25656	7.452	3.907	0.9505	0.95034
2216	495611.06	3859801.99	2.8972	0.9387	2.28509	2.27306	7.352	3.841	0.9398	0.9387
2217	495661.06	3859801.99	2.88859	0.92231	2.22726	2.22583	7.223	3.741	0.9243	0.92231
2218	494311.06	3859851.99	3.0691	1.1552	2.92074	2.69588	8.903	8.004	1.2296	1.1552
2219	494361.06	3859851.99	3.06891	1.13854	2.87026	2.66593	8.773	8.747	1.2144	1.13854

32.9726933	2.001956613	0.0003165	0.134264	3.948346	1.40241	8.000931	7.37E+00	4.11E+01
32.9421224	1.985648259	0.0003087	0.13237	3.924586	1.6182	7.902303	7.31E+00	4.12E+01
32.7229089	2.005096387	0.000315	0.135403	3.889478	1.58273	7.991082	7.38E+00	4.09E+01
32.5598291	2.011412873	0.0003166	0.136712	3.85422	1.13351	8.01574	7.41E+00	4.03E+01
32.4881491	1.999777241	0.0003115	0.135664	3.822939	1.02928	7.9502	7.36E+00	4.01E+01
32.456013	1.979959728	0.0003033	0.133427	3.832969	0.78722	7.846683	7.29E+00	3.97E+01
32.4880447	1.931053137	0.0002863	0.127807	3.875425	0.71603	7.711636	7.11E+00	3.97E+01
32.3419719	1.946493435	0.0002904	0.129589	3.886004	0.6768	7.721555	7.17E+00	3.95E+01
32.2238617	1.938588593	0.0002886	0.12926	3.890046	0.70676	7.69208	7.14E+00	3.94E+01
32.1576072	1.926731331	0.0002828	0.127933	3.896995	0.66698	7.665439	7.09E+00	3.93E+01
32.0503481	1.923905534	0.0002808	0.127779	3.896667	0.58102	7.627391	7.08E+00	3.91E+01
31.9445497	1.920304029	0.0002784	0.127654	3.887532	0.59569	7.588138	7.07E+00	3.90E+01
31.8356211	1.913858259	0.0002759	0.127457	3.86923	0.58504	7.537832	7.05E+00	3.88E+01
31.7331615	1.907061572	0.0002724	0.12688	3.842947	0.59753	7.493832	7.02E+00	3.87E+01
31.6003396	1.899563054	0.0002718	0.127183	3.804299	0.59892	7.427725	6.99E+00	3.85E+01
31.4925588	1.888703131	0.0002683	0.126476	3.785599	0.59107	7.365729	6.95E+00	3.83E+01
31.3900992	1.875885467	0.0002636	0.125343	3.767086	0.59954	7.302881	6.91E+00	3.82E+01
31.2869092	1.860592922	0.0002585	0.123972	3.741051	0.61725	7.232099	6.85E+00	3.80E+01
31.1524179	1.845448132	0.0002569	0.123727	3.710853	0.63299	7.150475	6.79E+00	3.78E+01
31.0342033	1.826720305	0.0002528	0.122554	3.672566	0.64147	7.072607	6.73E+00	3.76E+01
30.9082677	1.806293307	0.0002493	0.121539	3.629102	0.64092	6.982481	6.65E+00	3.74E+01
30.778889	1.784665808	0.000246	0.120509	3.580137	0.6318	6.887679	6.57E+00	3.72E+01
30.6698561	1.757054269	0.0002389	0.117984	3.519886	0.61574	6.792665	6.47E+00	3.70E+01
30.5633273	1.728796306	0.0002317	0.115753	3.452178	0.59378	6.701122	6.36E+00	3.68E+01
30.4434433	1.702440677	0.0002281	0.114607	3.38668	0.56945	6.62049	6.27E+00	3.66E+01
30.3208465	1.67353629	0.0002246	0.113514	3.317519	0.544	6.5383	6.16E+00	3.63E+01
30.188442	1.64470578	0.0002229	0.113156	3.257779	0.51943	6.441514	6.06E+00	3.61E+01
32.5129814	2.066229627	0.0003112	0.140052	4.084896	1.19193	8.414645	7.61E+00	4.08E+01
32.5396919	2.033963835	0.0003029	0.137489	3.990047	1.31361	8.284062	7.49E+00	4.08E+01
32.5721409	2.001882736	0.0002936	0.134526	3.88673	1.54536	8.129956	7.37E+00	4.09E+01
32.3708735	2.020869132	0.0002988	0.137259	3.844692	1.63176	8.211933	7.44E+00	4.08E+01
32.1455041	2.037546871	0.0003049	0.14022	3.800201	1.26943	8.289872	7.50E+00	4.02E+01
32.0817537	2.029161828	0.000302	0.139417	3.774537	1.00769	8.235173	7.47E+00	3.98E+01
32.1602157	1.99506758	0.0002901	0.13513	3.780375	0.75668	8.043727	7.35E+00	3.95E+01
32.1095076	1.980716968	0.0002855	0.133697	3.757356	0.72456	7.96345	7.29E+00	3.94E+01
32.0891617	1.959255692	0.0002788	0.131244	3.729938	0.66314	7.851076	7.21E+00	3.92E+01
31.8855989	1.970595815	0.0002847	0.133601	3.737755	0.65165	7.909459	7.26E+00	3.90E+01
31.8264394	1.954268992	0.0002806	0.132011	3.765069	0.66601	7.830316	7.20E+00	3.90E+01
31.7221017	1.945200587	0.0002792	0.131469	3.775897	0.61635	7.784332	7.16E+00	3.88E+01
31.6718109	1.935836674	0.0002738	0.129392	3.78935	0.58411	7.694844	7.13E+00	3.87E+01
31.5786374	1.930277428	0.0002724	0.129155	3.79305	0.57209	7.63724	7.11E+00	3.85E+01
31.4909937	1.922649625	0.0002703	0.128591	3.794072	0.53202	7.570779	7.08E+00	3.84E+01
31.3807088	1.916739463	0.0002698	0.128586	3.782415	0.51949	7.521748	7.06E+00	3.82E+01
31.3062117	1.907227795	0.000266	0.127235	3.769641	0.51659	7.446502	7.02E+00	3.81E+01
31.2210721	1.896534096	0.0002625	0.126024	3.746355	0.51953	7.375577	6.98E+00	3.79E+01
31.1036922	1.886062027	0.0002616	0.125941	3.709681	0.5183	7.309683	6.94E+00	3.77E+01
31.0167789	1.872727224	0.0002576	0.124768	3.691669	0.52372	7.238617	6.89E+00	3.76E+01
30.8920954	1.859096912	0.000257	0.125065	3.67453	0.53306	7.162024	6.84E+00	3.74E+01
30.7891141	1.842917844	0.0002536	0.124319	3.651371	0.5429	7.083589	6.79E+00	3.72E+01
30.6970882	1.824005325	0.0002486	0.12276	3.621261	0.55185	7.009335	6.72E+00	3.71E+01
30.5831515	1.804206281	0.0002456	0.121988	3.585544	0.55638	6.923744	6.64E+00	3.69E+01
30.4952991	1.778090752	0.0002386	0.119319	3.540288	0.55518	6.840207	6.55E+00	3.68E+01
30.3671724	1.755207343	0.0002367	0.118862	3.494179	0.54964	6.734777	6.46E+00	3.66E+01
30.2287163	1.733709129	0.0002379	0.119731	3.447363	0.54027	6.658964	6.38E+00	3.63E+01
30.1388816	1.703438017	0.0002319	0.117244	3.387008	0.52626	6.548645	6.27E+00	3.62E+01
32.0222813	2.133568537	0.0003041	0.142003	4.175008	1.12603	8.711876	7.86E+00	4.05E+01
32.0202988	2.102798755	0.0002988	0.140425	4.113626	1.23046	8.604462	7.74E+00	4.05E+01

2220	494411.06	3859851.99	3.07104	1.1179	2.80927	2.62409	8.625	9.955	1.1964	1.1179
2221	494461.06	3859851.99	3.06715	1.10769	2.7666	2.60678	8.415	12.15	1.1871	1.10769
2222	494511.06	3859851.99	3.05198	1.11416	2.76329	2.63863	8.136	9.449	1.1912	1.11416
2223	494561.06	3859851.99	3.03385	1.12474	2.77171	2.67957	7.926	6.689	1.1987	1.12474
2224	494611.06	3859851.99	3.04573	1.09145	2.67857	2.59105	7.96	6.17	1.17	1.09145
2225	494661.06	3859851.99	3.03306	1.09423	2.68277	2.60793	7.889	5.631	1.1698	1.09423
2226	494711.06	3859851.99	3.0359	1.07849	2.6178	2.55131	7.877	5.367	1.1501	1.07849
2227	494761.06	3859851.99	3.01842	1.08599	2.64274	2.58815	7.796	5.504	1.1566	1.08599
2228	494811.06	3859851.99	3.01342	1.07816	2.61062	2.56515	7.746	5.268	1.146	1.07816
2229	494861.06	3859851.99	3.0029	1.07602	2.60169	2.56514	7.68	5.03	1.1415	1.07602
2230	494911.06	3859851.99	2.9997	1.06571	2.55793	2.52923	7.758	4.405	1.1276	1.06571
2231	494961.06	3859851.99	2.99258	1.06202	2.53075	2.50923	7.802	4.081	1.118	1.06202
2232	495011.06	3859851.99	2.98553	1.05746	2.50157	2.48687	7.831	3.859	1.1076	1.05746
2233	495061.06	3859851.99	2.9762	1.05445	2.49484	2.47836	7.831	3.788	1.0995	1.05445
2234	495111.06	3859851.99	2.97212	1.04625	2.46415	2.4506	7.864	3.679	1.0847	1.04625
2235	495161.06	3859851.99	2.96512	1.03995	2.44848	2.43594	7.869	3.617	1.0728	1.03995
2236	495211.06	3859851.99	2.95709	1.03403	2.4367	2.43522	7.852	3.567	1.0621	1.03403
2237	495261.06	3859851.99	2.94954	1.02695	2.41795	2.42651	7.822	3.482	1.0503	1.02695
2238	495311.06	3859851.99	2.93969	1.02008	2.41412	2.43253	7.764	3.463	1.0401	1.02008
2239	495361.06	3859851.99	2.93061	1.01284	2.40063	2.42705	7.695	3.425	1.0298	1.01284
2240	495411.06	3859851.99	2.92354	1.00437	2.36753	2.40006	7.672	3.416	1.0165	1.00437
2241	495461.06	3859851.99	2.91584	0.9949	2.33541	2.37375	7.641	3.459	1.0032	0.9949
2242	495511.06	3859851.99	2.90869	0.98478	2.29084	2.34146	7.596	3.495	0.9909	0.98478
2243	495561.06	3859851.99	2.89677	0.97486	2.29013	2.34908	7.536	3.536	0.9811	0.97486
2244	495611.06	3859851.99	2.88525	0.96413	2.28291	2.34918	7.465	3.556	0.9705	0.96413
2245	495661.06	3859851.99	2.87766	0.95092	2.23778	2.31307	7.382	3.545	0.9567	0.95092
2246	494311.06	3859901.99	3.02825	1.20701	2.92701	2.72855	8.897	7.626	1.2757	1.20701
2247	494361.06	3859901.99	3.03539	1.16211	2.83708	2.65482	8.921	8.355	1.2435	1.16211
2248	494411.06	3859901.99	3.02087	1.1642	2.81857	2.66777	8.751	9.197	1.2445	1.1642
2249	494461.06	3859901.99	3.01684	1.15295	2.77268	2.6483	8.615	12.77	1.234	1.15295
2250	494511.06	3859901.99	3.00755	1.1517	2.75251	2.65206	8.415	9.81	1.232	1.1517
2251	494561.06	3859901.99	2.98455	1.17161	2.77324	2.70474	8.11	8.071	1.2484	1.17161
2252	494611.06	3859901.99	3.00077	1.12852	2.69352	2.60854	8.038	6.674	1.2104	1.12852
2253	494661.06	3859901.99	2.9817	1.14162	2.70496	2.65431	7.737	7.161	1.2202	1.14162
2254	494711.06	3859901.99	2.99548	1.10233	2.62387	2.56324	7.758	6.428	1.1869	1.10233
2255	494761.06	3859901.99	2.98177	1.10628	2.62067	2.58688	7.688	6.172	1.1885	1.10628
2256	494811.06	3859901.99	2.96764	1.11017	2.61647	2.60903	7.597	5.534	1.1898	1.11017
2257	494861.06	3859901.99	2.95897	1.10501	2.59539	2.60671	7.546	5.139	1.1838	1.10501
2258	494911.06	3859901.99	2.95806	1.0922	2.55145	2.57209	7.533	4.793	1.1688	1.0922
2259	494961.06	3859901.99	2.95034	1.08845	2.52589	2.5633	7.469	4.698	1.1612	1.08845
2260	495011.06	3859901.99	2.94716	1.08288	2.4853	2.53353	7.47	4.569	1.1495	1.08288
2261	495061.06	3859901.99	2.94171	1.07857	2.45607	2.51723	7.529	4.436	1.1394	1.07857
2262	495111.06	3859901.99	2.93979	1.07022	2.41817	2.48311	7.593	4.273	1.1244	1.07022
2263	495161.06	3859901.99	2.93625	1.06108	2.38411	2.45459	7.635	4.129	1.1096	1.06108
2264	495211.06	3859901.99	2.92644	1.05802	2.37651	2.46592	7.63	4.118	1.102	1.05802
2265	495261.06	3859901.99	2.92452	1.04508	2.32996	2.43453	7.673	3.954	1.084	1.04508
2266	495311.06	3859901.99	2.91432	1.0407	2.32789	2.45654	7.655	3.926	1.0756	1.0407
2267	495361.06	3859901.99	2.90802	1.03136	2.31415	2.44824	7.644	3.818	1.062	1.03136
2268	495411.06	3859901.99	2.90307	1.02033	2.29216	2.42505	7.627	3.677	1.047	1.02033
2269	495461.06	3859901.99	2.89638	1.0103	2.27707	2.41095	7.584	3.564	1.0334	1.0103
2270	495511.06	3859901.99	2.88635	1.00206	2.28017	2.41881	7.508	3.512	1.0223	1.00206
2271	495561.06	3859901.99	2.87625	0.99357	2.28084	2.42324	7.473	3.459	1.0114	0.99357
2272	495611.06	3859901.99	2.86948	0.9832	2.25534	2.39583	7.446	3.383	0.9976	0.9832
2273	495661.06	3859901.99	2.86284	0.97183	2.22288	2.36093	7.407	3.332	0.9846	0.97183
2274	494311.06	3859951.99	2.98259	1.29196	2.90604	2.83006	8.026	7.187	1.3307	1.29196
2275	494361.06	3859951.99	2.98242	1.26353	2.84714	2.78141	7.974	8.054	1.3119	1.26353
2276	494411.06	3859951.99	2.97964	1.24026	2.79279	2.74502	7.904	8.848	1.2965	1.24026

32.0425228	2.064678209	0.0002925	0.138222	4.044512	1.40036	8.476642	7.60E+00	4.06E+01
32.0019354	2.045821098	0.000288	0.13731	3.946077	1.70966	8.410961	7.53E+00	4.07E+01
31.8436551	2.057770707	0.0002877	0.138987	3.815164	1.32918	8.440224	7.58E+00	4.00E+01
31.6544909	2.077311181	0.0002886	0.141144	3.71678	0.94099	8.492868	7.65E+00	3.94E+01
31.7784441	2.015827025	0.0002789	0.136481	3.732372	0.86797	8.290014	7.42E+00	3.94E+01
31.6462482	2.020961478	0.0002793	0.13737	3.699308	0.79213	8.288243	7.44E+00	3.91E+01
31.6758801	1.991890868	0.0002725	0.134388	3.693798	0.75505	8.148732	7.33E+00	3.91E+01
31.4934978	2.005742811	0.0002751	0.136328	3.655572	0.77429	8.194999	7.38E+00	3.89E+01
31.441329	1.991281383	0.0002718	0.135117	3.632089	0.74101	8.119469	7.33E+00	3.87E+01
31.3315657	1.987328962	0.0002709	0.135116	3.601482	0.70759	8.088223	7.32E+00	3.85E+01
31.2981777	1.968287158	0.0002663	0.133225	3.637823	0.61964	7.989524	7.25E+00	3.84E+01
31.2238892	1.961472002	0.0002635	0.132171	3.658357	0.57416	7.92115	7.22E+00	3.82E+01
31.1503312	1.953050021	0.0002604	0.130994	3.6719	0.5428	7.848029	7.19E+00	3.81E+01
31.0529841	1.947490775	0.0002597	0.130545	3.67228	0.53288	7.790142	7.17E+00	3.80E+01
31.0104143	1.932345985	0.0002565	0.129083	3.687796	0.5176	7.685491	7.11E+00	3.78E+01
30.9373779	1.920710353	0.0002549	0.128311	3.689888	0.50877	7.601388	7.07E+00	3.77E+01
30.8535948	1.909776553	0.0002537	0.128273	3.681972	0.50182	7.525362	7.03E+00	3.76E+01
30.7748198	1.896700319	0.0002517	0.127814	3.667872	0.48986	7.441613	6.98E+00	3.74E+01
30.6720472	1.88401194	0.0002513	0.128131	3.640782	0.4871	7.3692	6.94E+00	3.72E+01
30.5773086	1.870640198	0.0002499	0.127843	3.608497	0.48179	7.296788	6.89E+00	3.71E+01
30.5035418	1.854996737	0.0002465	0.126421	3.59752	0.48049	7.202057	6.83E+00	3.69E+01
30.4232018	1.837506351	0.0002431	0.125035	3.582951	0.48659	7.10768	6.77E+00	3.68E+01
30.3486003	1.818815464	0.0002385	0.123334	3.561755	0.49163	7.020884	6.70E+00	3.67E+01
30.2242298	1.800493961	0.0002384	0.123736	3.5337	0.49748	6.951589	6.63E+00	3.65E+01
30.1040328	1.780676448	0.0002377	0.123741	3.500651	0.50021	6.876555	6.56E+00	3.63E+01
30.0248405	1.75627856	0.000233	0.121839	3.461407	0.49876	6.778777	6.47E+00	3.62E+01
31.5960618	2.229257756	0.0003047	0.143724	4.171871	1.07281	9.038795	8.21E+00	4.00E+01
31.6705589	2.146330793	0.0002954	0.13984	4.183219	1.17536	8.810859	7.90E+00	4.02E+01
31.5190606	2.150190868	0.0002934	0.140522	4.103728	1.29372	8.817944	7.92E+00	4.01E+01
31.4770125	2.129412954	0.0002887	0.139497	4.03994	1.79636	8.742981	7.84E+00	4.05E+01
31.3800828	2.127104297	0.0002866	0.139695	3.946025	1.38004	8.729165	7.83E+00	3.99E+01
31.1401061	2.163876587	0.0002887	0.14247	3.802841	1.13543	8.845506	7.97E+00	3.93E+01
31.3093418	2.08429256	0.0002804	0.137402	3.769398	0.9389	8.575979	7.67E+00	3.91E+01
31.1103698	2.108487286	0.0002816	0.139813	3.628047	1.00733	8.645628	7.76E+00	3.89E+01
31.2541472	2.035921576	0.0002732	0.135016	3.637786	0.90428	8.40926	7.50E+00	3.89E+01
31.1111002	2.043216933	0.0002728	0.136262	3.605046	0.86828	8.42081	7.52E+00	3.87E+01
30.963671	2.050401474	0.0002724	0.137428	3.562524	0.77855	8.430233	7.55E+00	3.84E+01
30.8732102	2.040871337	0.0002702	0.137306	3.538492	0.7229	8.387721	7.51E+00	3.82E+01
30.8637155	2.017212219	0.0002656	0.135482	3.532232	0.67423	8.281441	7.43E+00	3.81E+01
30.7831668	2.010286248	0.000263	0.135019	3.5024	0.66085	8.227521	7.40E+00	3.79E+01
30.7499874	1.999998872	0.0002587	0.133451	3.502643	0.64271	8.144551	7.36E+00	3.78E+01
30.6931234	1.992038622	0.0002557	0.132593	3.530385	0.62398	8.072918	7.33E+00	3.77E+01
30.6730906	1.976616793	0.0002517	0.130796	3.560635	0.60105	7.966709	7.28E+00	3.76E+01
30.636155	1.959735892	0.0002482	0.129293	3.580067	0.5808	7.8622	7.22E+00	3.75E+01
30.5337997	1.9540843	0.0002474	0.12989	3.577896	0.57937	7.808209	7.19E+00	3.74E+01
30.5137669	1.930185082	0.0002426	0.128237	3.597975	0.55629	7.680248	7.11E+00	3.73E+01
30.4073425	1.922095547	0.0002423	0.129396	3.5896	0.55235	7.621297	7.08E+00	3.71E+01
30.3416097	1.904845261	0.0002409	0.128959	3.584437	0.53712	7.524937	7.01E+00	3.70E+01
30.2899625	1.884473671	0.0002386	0.127737	3.576226	0.5172	7.41816	6.94E+00	3.69E+01
30.2201606	1.865949007	0.0002371	0.126995	3.556086	0.50131	7.321941	6.87E+00	3.67E+01
30.1155099	1.850730339	0.0002374	0.127409	3.520767	0.49403	7.243294	6.81E+00	3.65E+01
30.0101289	1.83504994	0.0002374	0.127642	3.50405	0.48653	7.16578	6.76E+00	3.64E+01
29.9394922	1.815897321	0.0002348	0.126198	3.491713	0.47591	7.068639	6.69E+00	3.62E+01
29.870212	1.794897776	0.0002314	0.12436	3.473214	0.46868	6.976317	6.61E+00	3.61E+01
31.1196559	2.386154092	0.0003025	0.149071	3.76347	1.01101	9.428277	8.79E+00	3.91E+01
31.1178821	2.333645995	0.0002964	0.146508	3.739119	1.13301	9.294931	8.59E+00	3.92E+01
31.0888763	2.290668034	0.0002907	0.144591	3.706436	1.24473	9.185958	8.43E+00	3.92E+01

2277	494461.06	3859951.99	2.97322	1.22447	2.74703	2.72792	8.609	13.62	1.2859	1.22447
2278	494511.06	3859951.99	2.96033	1.22203	2.7219	2.73323	8.463	9.912	1.2845	1.22203
2279	494561.06	3859951.99	2.92907	1.25372	2.75136	2.79632	7.606	9.756	1.3052	1.25372
2280	494611.06	3859951.99	2.94229	1.20369	2.66853	2.71844	8.163	8.955	1.2722	1.20369
2281	494661.06	3859951.99	2.92503	1.2146	2.67076	2.74545	7.33	8.341	1.2793	1.2146
2282	494711.06	3859951.99	2.93682	1.1704	2.60629	2.67397	7.842	6.898	1.2486	1.1704
2283	494761.06	3859951.99	2.92804	1.1651	2.59743	2.67099	7.618	6.485	1.245	1.1651
2284	494811.06	3859951.99	2.92178	1.15549	2.58199	2.65815	7.449	6.08	1.2372	1.15549
2285	494861.06	3859951.99	2.90965	1.15646	2.57779	2.67074	7.357	5.851	1.2368	1.15646
2286	494911.06	3859951.99	2.91108	1.13687	2.54346	2.63895	7.361	5.61	1.218	1.13687
2287	494961.06	3859951.99	2.91043	1.12013	2.51163	2.61146	7.338	5.386	1.2024	1.12013
2288	495011.06	3859951.99	2.9077	1.10935	2.48275	2.58857	7.325	5.22	1.1891	1.10935
2289	495061.06	3859951.99	2.90201	1.1034	2.45996	2.57394	7.282	5.088	1.1789	1.1034
2290	495111.06	3859951.99	2.90173	1.0932	2.4217	2.53666	7.257	4.89	1.1623	1.0932
2291	495161.06	3859951.99	2.90036	1.08489	2.384	2.50759	7.305	4.693	1.1486	1.08489
2292	495211.06	3859951.99	2.89813	1.07743	2.34623	2.47951	7.376	4.5	1.1357	1.07743
2293	495261.06	3859951.99	2.8929	1.07156	2.31606	2.46586	7.416	4.362	1.1237	1.07156
2294	495311.06	3859951.99	2.88269	1.06923	2.30095	2.47833	7.412	4.331	1.117	1.06923
2295	495361.06	3859951.99	2.87591	1.06227	2.27364	2.47507	7.424	4.231	1.1055	1.06227
2296	495411.06	3859951.99	2.87258	1.05047	2.233	2.45839	7.456	4.056	1.0892	1.05047
2297	495461.06	3859951.99	2.86746	1.03981	2.19676	2.44963	7.463	3.923	1.0743	1.03981
2298	495511.06	3859951.99	2.86226	1.0283	2.17066	2.43776	7.455	3.788	1.059	1.0283
2299	495561.06	3859951.99	2.8503	1.02348	2.19607	2.46881	7.393	3.787	1.0511	1.02348
2300	495611.06	3859951.99	2.84543	1.01026	2.18185	2.4487	7.36	3.636	1.0343	1.01026
2301	495661.06	3859951.99	2.84189	0.99571	2.15472	2.41288	7.322	3.489	1.0165	0.99571
2302	494311.06	3860001.99	2.93561	1.37539	3.14452	2.96108	7.891	7.005	1.4007	1.37539
2303	494361.06	3860001.99	2.93113	1.35688	3.04735	2.92715	7.887	9.304	1.3849	1.35688
2304	494411.06	3860001.99	2.93676	1.31741	2.93662	2.86528	7.862	10.11	1.3523	1.31741
2305	494461.06	3860001.99	2.92616	1.31142	2.86466	2.84978	7.822	14.01	1.3471	1.31142
2306	494511.06	3860001.99	2.92462	1.28649	2.77436	2.80634	7.763	13.55	1.3264	1.28649
2307	494561.06	3860001.99	2.8835	1.33643	2.78089	2.89773	7.693	12.21	1.3665	1.33643
2308	494611.06	3860001.99	2.88503	1.30702	2.72209	2.85725	7.601	10.14	1.3427	1.30702
2309	494661.06	3860001.99	2.87521	1.29703	2.68672	2.84907	7.496	8.886	1.3346	1.29703
2310	494711.06	3860001.99	2.89745	1.22788	2.57032	2.74138	7.372	7.638	1.2859	1.22788
2311	494761.06	3860001.99	2.87331	1.24744	2.57485	2.78233	7.242	7.48	1.2983	1.24744
2312	494811.06	3860001.99	2.86491	1.24115	2.54731	2.77855	7.099	7.094	1.2936	1.24115
2313	494861.06	3860001.99	2.85382	1.23873	2.52514	2.77957	6.943	6.826	1.2909	1.23873
2314	494911.06	3860001.99	2.87497	1.17873	2.44778	2.6833	7.319	6.029	1.2515	1.17873
2315	494961.06	3860001.99	2.86583	1.17492	2.4362	2.68294	6.696	5.874	1.2484	1.17492
2316	495011.06	3860001.99	2.86638	1.15177	2.40925	2.65606	7.187	5.6	1.2316	1.15177
2317	495061.06	3860001.99	2.85625	1.14893	2.40402	2.66268	7.115	5.535	1.2281	1.14893
2318	495111.06	3860001.99	2.85735	1.13361	2.37621	2.63066	7.111	5.316	1.2095	1.13361
2319	495161.06	3860001.99	2.85785	1.11867	2.34741	2.59757	7.113	5.102	1.1919	1.11867
2320	495211.06	3860001.99	2.8485	1.11706	2.33928	2.59651	7.043	5.066	1.1859	1.11706
2321	495261.06	3860001.99	2.84727	1.10374	2.31163	2.57284	7.011	4.866	1.1701	1.10374
2322	495311.06	3860001.99	2.84191	1.09743	2.29233	2.56595	7.06	4.75	1.1585	1.09743
2323	495361.06	3860001.99	2.84667	1.08084	2.2453	2.50774	7.175	4.418	1.1371	1.08084
2324	495411.06	3860001.99	2.83481	1.07937	2.24058	2.53027	7.164	4.419	1.1309	1.07937
2325	495461.06	3860001.99	2.83073	1.07121	2.21398	2.51209	7.193	4.282	1.1185	1.07121
2326	495511.06	3860001.99	2.82592	1.06264	2.18804	2.50161	7.218	4.174	1.1058	1.06264
2327	495561.06	3860001.99	2.81667	1.05642	2.17345	2.52313	7.204	4.148	1.0961	1.05642
2328	495611.06	3860001.99	2.81513	1.04493	2.13992	2.49935	7.231	3.989	1.0796	1.04493
2329	495661.06	3860001.99	2.813	1.03061	2.10723	2.47808	7.237	3.837	1.0615	1.03061
2330	494411.06	3860051.99	2.88257	1.4152	3.35337	2.99885	7.712	15.2	1.4308	1.4152
2331	494461.06	3860051.99	2.87928	1.38999	3.26025	2.96319	7.717	18.8	1.414	1.38999
2332	494511.06	3860051.99	2.874	1.37396	3.1709	2.93314	7.703	15.45	1.4005	1.37396
2333	494561.06	3860051.99	2.84835	1.39461	3.12969	2.96239	7.672	11.68	1.4161	1.39461

31.0218915	2.261505078	0.000286	0.143691	4.03671	1.91609	9.111349	8.33E+00	4.02E+01
30.8874002	2.256998579	0.0002834	0.14397	3.968402	1.39431	9.101359	8.31E+00	3.94E+01
30.5612405	2.315527654	0.0002864	0.147294	3.56652	1.37237	9.2476	8.53E+00	3.87E+01
30.699175	2.223125962	0.0002778	0.143191	3.827998	1.25982	9.013996	8.18E+00	3.90E+01
30.5190881	2.243275922	0.000278	0.144614	3.437187	1.17341	9.064019	8.26E+00	3.83E+01
30.6421023	2.161641807	0.0002713	0.140849	3.677489	0.97033	8.847065	7.96E+00	3.85E+01
30.5504938	2.151853101	0.0002704	0.140692	3.572043	0.91234	8.821203	7.92E+00	3.82E+01
30.4851784	2.134104145	0.0002688	0.140016	3.492754	0.85533	8.766292	7.86E+00	3.80E+01
30.3586167	2.135895663	0.0002684	0.140679	3.450026	0.82313	8.762962	7.86E+00	3.78E+01
30.373537	2.099714389	0.0002648	0.139004	3.451559	0.78922	8.630253	7.73E+00	3.78E+01
30.3667551	2.068796853	0.0002615	0.137556	3.440863	0.75766	8.519154	7.62E+00	3.77E+01
30.3382709	2.048886995	0.0002585	0.136351	3.434786	0.73436	8.424848	7.54E+00	3.76E+01
30.2789028	2.037897787	0.0002561	0.13558	3.414627	0.71582	8.353074	7.50E+00	3.74E+01
30.2759813	2.019059145	0.0002521	0.133616	3.402881	0.68795	8.235457	7.43E+00	3.73E+01
30.261687	2.003711193	0.0002482	0.132085	3.425305	0.66018	8.138387	7.38E+00	3.72E+01
30.2384197	1.989933127	0.0002443	0.130606	3.458523	0.63299	8.046915	7.33E+00	3.72E+01
30.1838511	1.979091673	0.0002411	0.129887	3.477631	0.61356	7.96182	7.29E+00	3.71E+01
30.0773223	1.974788337	0.0002395	0.130544	3.475638	0.60928	7.914206	7.27E+00	3.69E+01
30.0065814	1.961933734	0.0002367	0.130372	3.481373	0.59526	7.832796	7.22E+00	3.68E+01
29.9718369	1.940140011	0.0002325	0.129493	3.496088	0.57058	7.717304	7.14E+00	3.67E+01
29.918416	1.920451783	0.0002287	0.129032	3.499422	0.55191	7.612087	7.07E+00	3.66E+01
29.8641604	1.899193669	0.000226	0.128407	3.495919	0.53291	7.503397	6.99E+00	3.64E+01
29.7393725	1.890291487	0.0002286	0.130042	3.466546	0.53276	7.447635	6.96E+00	3.62E+01
29.6885601	1.86587513	0.0002271	0.128983	3.451344	0.5115	7.328176	6.87E+00	3.61E+01
29.6516245	1.839002361	0.0002243	0.127096	3.433539	0.49083	7.201986	6.77E+00	3.60E+01
30.6294774	2.5402431	0.0003274	0.155972	3.700199	0.98546	9.924181	9.35E+00	3.86E+01
30.5827341	2.506056506	0.0003172	0.154185	3.698164	1.3088	9.812658	9.23E+00	3.88E+01
30.6414762	2.43315835	0.0003057	0.150926	3.686868	1.4229	9.581321	8.96E+00	3.90E+01
30.5308783	2.422095265	0.0002982	0.15011	3.668111	1.9709	9.544477	8.92E+00	3.94E+01
30.5148103	2.376051408	0.0002888	0.147821	3.64037	1.90579	9.398235	8.75E+00	3.92E+01
30.0857737	2.468286876	0.0002895	0.152635	3.607334	1.7181	9.682287	9.09E+00	3.86E+01
30.1017373	2.413968792	0.0002834	0.150503	3.564485	1.42665	9.513797	8.89E+00	3.83E+01
29.9992777	2.395518005	0.0002797	0.150072	3.515098	1.25004	9.455839	8.82E+00	3.79E+01
30.2313248	2.267803094	0.0002676	0.1444	3.456816	1.07453	9.111065	8.35E+00	3.79E+01
29.9794536	2.303928961	0.0002681	0.146557	3.396011	1.05221	9.198924	8.48E+00	3.76E+01
29.8918099	2.292311798	0.0002652	0.146358	3.328623	0.99789	9.165268	8.44E+00	3.74E+01
29.7760994	2.287842238	0.0002629	0.146411	3.255903	0.9603	9.146351	8.42E+00	3.71E+01
29.9967736	2.177026698	0.0002548	0.14134	3.431907	0.84813	8.867258	8.02E+00	3.74E+01
29.901409	2.169989911	0.0002536	0.141321	3.140009	0.82636	8.845081	7.99E+00	3.70E+01
29.9071476	2.127233582	0.0002508	0.139906	3.37015	0.78783	8.726472	7.83E+00	3.72E+01
29.8014535	2.121988313	0.0002503	0.140254	3.336501	0.77861	8.701461	7.81E+00	3.71E+01
29.8129306	2.093693411	0.0002474	0.138568	3.334278	0.74777	8.569886	7.71E+00	3.70E+01
29.8181475	2.066100342	0.0002444	0.136825	3.335263	0.71769	8.444758	7.61E+00	3.69E+01
29.7205918	2.063126791	0.0002435	0.136769	3.302617	0.71268	8.4026	7.60E+00	3.67E+01
29.7077582	2.038525741	0.0002407	0.135522	3.287705	0.68448	8.290439	7.51E+00	3.66E+01
29.6518332	2.02687164	0.0002386	0.135159	3.310377	0.66818	8.208674	7.46E+00	3.65E+01
29.701498	1.996231144	0.0002337	0.132093	3.364659	0.62151	8.057047	7.35E+00	3.65E+01
29.5777535	1.993516163	0.0002333	0.13328	3.359492	0.62158	8.012905	7.34E+00	3.64E+01
29.5351837	1.978445249	0.0002305	0.132322	3.372776	0.60241	7.925047	7.28E+00	3.63E+01
29.4849972	1.962617096	0.0002278	0.13177	3.384485	0.58721	7.835063	7.23E+00	3.62E+01
29.3884849	1.951129219	0.0002263	0.132904	3.378159	0.58356	7.766477	7.18E+00	3.60E+01
29.3724169	1.929908043	0.0002228	0.131651	3.390825	0.56109	7.649356	7.11E+00	3.59E+01
29.3501929	1.903460067	0.0002194	0.130531	3.393367	0.53979	7.520827	7.01E+00	3.58E+01
30.0760703	2.613769211	0.0003491	0.157962	3.61645	2.13835	10.13788	9.62E+00	3.91E+01
30.0417432	2.567208215	0.0003394	0.156083	3.618438	2.64446	10.01877	9.45E+00	3.96E+01
29.9866529	2.537601997	0.0003301	0.1545	3.612009	2.17282	9.923119	9.34E+00	3.90E+01
29.7190267	2.575741012	0.0003258	0.156041	3.597736	1.643	10.03379	9.48E+00	3.82E+01

2334	494611.06	3860051.99	2.83526	1.39074	3.05753	2.95198	7.624	9.947	1.4123	1.39074
2335	494661.06	3860051.99	2.82592	1.3801	2.97682	2.94328	7.559	8.964	1.4032	1.3801
2336	494711.06	3860051.99	2.83635	1.33767	2.86523	2.88112	7.479	8.086	1.3698	1.33767
2337	494761.06	3860051.99	2.82543	1.32995	2.79364	2.8767	7.384	7.653	1.3633	1.32995
2338	494811.06	3860051.99	2.80665	1.33367	2.73646	2.89044	7.276	7.492	1.3654	1.33367
2339	494861.06	3860051.99	2.79029	1.3317	2.67475	2.89328	7.153	7.402	1.3629	1.3317
2340	494911.06	3860051.99	2.79441	1.30119	2.57861	2.85058	7.02	7.039	1.3391	1.30119
2341	494961.06	3860051.99	2.8029	1.26813	2.48157	2.80157	6.874	6.662	1.3131	1.26813
2342	495011.06	3860051.99	2.80729	1.24085	2.42199	2.7617	6.718	6.364	1.2913	1.24085
2343	495061.06	3860051.99	2.80661	1.22106	2.38641	2.73536	6.58	6.159	1.2752	1.22106
2344	495111.06	3860051.99	2.81222	1.19017	2.34465	2.69229	6.517	5.8	1.2537	1.19017
2345	495161.06	3860051.99	2.81049	1.17165	2.31446	2.67404	6.453	5.588	1.2404	1.17165
2346	495211.06	3860051.99	2.81117	1.15073	2.2811	2.64624	6.931	5.322	1.2237	1.15073
2347	495261.06	3860051.99	2.80583	1.14421	2.26069	2.63586	6.891	5.217	1.2135	1.14421
2348	495311.06	3860051.99	2.79854	1.13991	2.2436	2.62986	6.84	5.164	1.2055	1.13991
2349	495361.06	3860051.99	2.794	1.1313	2.22024	2.62226	6.795	5.033	1.1932	1.1313
2350	495411.06	3860051.99	2.79104	1.12023	2.19825	2.60936	6.768	4.846	1.1792	1.12023
2351	495461.06	3860051.99	2.79	1.10675	2.17418	2.58808	6.842	4.637	1.1628	1.10675
2352	495511.06	3860051.99	2.78443	1.09908	2.15853	2.58574	6.868	4.506	1.1517	1.09908
2353	495561.06	3860051.99	2.78123	1.08751	2.13828	2.57163	6.905	4.331	1.1373	1.08751
2354	495611.06	3860051.99	2.77975	1.07516	2.11758	2.54711	6.947	4.22	1.1206	1.07516
2355	495661.06	3860051.99	2.78129	1.05972	2.08636	2.51217	7.021	4.07	1.1017	1.05972
2356	494411.06	3860101.99	2.85319	1.47641	3.58897	3.08814	7.46	10.88	1.4641	1.47641
2357	494461.06	3860101.99	2.83024	1.49511	3.55968	3.10983	7.503	10.06	1.4769	1.49511
2358	494511.06	3860101.99	2.83625	1.44623	3.46663	3.0432	7.537	9.139	1.4481	1.44623
2359	494561.06	3860101.99	2.82144	1.44561	3.41522	3.03769	7.548	9.405	1.4491	1.44561
2360	494611.06	3860101.99	2.79622	1.46498	3.38039	3.05404	7.535	9.12	1.4608	1.46498
2361	494661.06	3860101.99	2.78393	1.45585	3.31798	3.03224	7.51	8.838	1.455	1.45585
2362	494711.06	3860101.99	2.79069	1.41286	3.21945	2.97351	7.478	8.411	1.4287	1.41286
2363	494761.06	3860101.99	2.78087	1.40367	3.15057	2.95791	7.422	8.309	1.4208	1.40367
2364	494811.06	3860101.99	2.76973	1.39575	3.08338	2.94836	7.35	8.198	1.4141	1.39575
2365	494861.06	3860101.99	2.73063	1.41373	3.05834	2.96868	7.249	8.503	1.4221	1.41373
2366	494911.06	3860101.99	2.76714	1.35062	2.90842	2.88419	7.172	7.533	1.3792	1.35062
2367	494961.06	3860101.99	2.75991	1.33694	2.83774	2.86528	7.06	7.285	1.368	1.33694
2368	495011.06	3860101.99	2.76106	1.31048	2.75312	2.82591	6.937	6.953	1.3475	1.31048
2369	495061.06	3860101.99	2.76032	1.28662	2.67077	2.78959	6.802	6.675	1.3285	1.28662
2370	495111.06	3860101.99	2.76727	1.25403	2.57829	2.73823	6.656	6.275	1.3026	1.25403
2371	495161.06	3860101.99	2.76197	1.24323	2.51115	2.72609	6.502	6.084	1.2939	1.24323
2372	495211.06	3860101.99	2.76109	1.22489	2.43558	2.70225	6.407	5.802	1.279	1.22489
2373	495261.06	3860101.99	2.76043	1.20578	2.35987	2.68369	6.344	5.563	1.2634	1.20578
2374	495311.06	3860101.99	2.75743	1.19057	2.29513	2.67142	6.29	5.403	1.2508	1.19057
2375	495361.06	3860101.99	2.75065	1.18174	2.2535	2.668	6.238	5.282	1.2432	1.18174
2376	495411.06	3860101.99	2.74985	1.16339	2.20894	2.65054	6.178	5.082	1.2271	1.16339
2377	495461.06	3860101.99	2.7549	1.14311	2.16357	2.61098	6.129	4.867	1.2023	1.14311
2378	495511.06	3860101.99	2.74786	1.13912	2.14572	2.61776	6.074	4.796	1.1946	1.13912
2379	495561.06	3860101.99	2.74102	1.13462	2.12684	2.62219	6.012	4.714	1.1859	1.13462
2380	495611.06	3860101.99	2.74526	1.11384	2.08574	2.58264	6.638	4.528	1.1623	1.11384
2381	495661.06	3860101.99	2.74236	1.10273	2.06099	2.57049	6.68	4.402	1.1476	1.10273
2382	494861.06	3860151.99	2.67225	1.50987	3.31397	3.05972	7.238	8.944	1.4614	1.50987
2383	494911.06	3860151.99	2.71914	1.4263	3.20574	2.99475	7.217	8.113	1.4274	1.4263
2384	494961.06	3860151.99	2.71923	1.39864	3.13229	2.96337	7.146	7.654	1.4111	1.39864
2385	495011.06	3860151.99	2.72138	1.37395	3.05286	2.9274	7.061	7.255	1.3933	1.37395
2386	495061.06	3860151.99	2.72289	1.34896	2.97166	2.89116	6.963	6.879	1.3745	1.34896
2387	495111.06	3860151.99	2.71994	1.3297	2.89701	2.86273	6.851	6.576	1.3598	1.3297
2388	495161.06	3860151.99	2.71512	1.31304	2.82511	2.83807	6.727	6.283	1.3466	1.31304
2389	495211.06	3860151.99	2.71296	1.29252	2.75352	2.80721	6.592	5.962	1.3307	1.29252
2390	495261.06	3860151.99	2.70903	1.27729	2.68762	2.78424	6.447	5.687	1.3185	1.27729

29.5824487	2.568593409	0.0003183	0.155493	3.575073	1.39937	10.00666	9.46E+00	3.78E+01
29.4849972	2.54894212	0.0003099	0.155035	3.544555	1.26105	9.942249	9.38E+00	3.76E+01
29.5938215	2.470577064	0.0002983	0.15176	3.507117	1.13757	9.705456	9.10E+00	3.75E+01
29.4798847	2.456318798	0.0002908	0.151528	3.462687	1.07665	9.659189	9.04E+00	3.72E+01
29.2839385	2.463189361	0.0002849	0.152251	3.411762	1.05389	9.674068	9.07E+00	3.70E+01
29.113242	2.459550918	0.0002785	0.152401	3.354113	1.0413	9.656284	9.06E+00	3.67E+01
29.1562292	2.403201215	0.0002684	0.150152	3.291733	0.99026	9.488007	8.85E+00	3.66E+01
29.2448119	2.342141853	0.0002583	0.14757	3.223547	0.9372	9.303433	8.62E+00	3.66E+01
29.2906161	2.29175772	0.0002521	0.14547	3.150354	0.8952	9.149185	8.44E+00	3.65E+01
29.2835212	2.255207061	0.0002484	0.144083	3.085643	0.86644	9.03511	8.30E+00	3.64E+01
29.3420546	2.198155527	0.0002441	0.141814	3.05596	0.81591	8.883059	8.09E+00	3.63E+01
29.3240042	2.163950464	0.0002409	0.140853	3.026142	0.78608	8.788398	7.97E+00	3.63E+01
29.3310992	2.125312779	0.0002375	0.139388	3.249966	0.74863	8.670143	7.82E+00	3.64E+01
29.2753828	2.113270823	0.0002354	0.138841	3.2315	0.73389	8.598298	7.78E+00	3.63E+01
29.1993206	2.105329043	0.0002336	0.138525	3.207229	0.72651	8.541119	7.75E+00	3.62E+01
29.1519513	2.089427013	0.0002311	0.138125	3.186348	0.70808	8.454536	7.69E+00	3.60E+01
29.1210674	2.068981546	0.0002289	0.137446	3.173861	0.68178	8.354774	7.62E+00	3.59E+01
29.1102163	2.044084988	0.0002263	0.136325	3.208308	0.65232	8.239141	7.53E+00	3.59E+01
29.0521002	2.029919068	0.0002247	0.136201	3.220537	0.63385	8.159856	7.47E+00	3.58E+01
29.0187121	2.008550138	0.0002226	0.135458	3.237835	0.60928	8.057827	7.39E+00	3.57E+01
29.0032701	1.985740606	0.0002205	0.134167	3.257619	0.59358	7.939997	7.31E+00	3.56E+01
29.0193381	1.957224073	0.0002172	0.132326	3.292286	0.57249	7.805942	7.21E+00	3.56E+01
29.7695261	2.726819532	0.0003736	0.162665	3.497987	1.531	10.37354	1.00E+01	3.80E+01
29.5300711	2.761357042	0.0003706	0.163807	3.518371	1.4147	10.4643	1.02E+01	3.77E+01
29.5927781	2.671079315	0.0003609	0.160298	3.534169	1.28563	10.26017	9.83E+00	3.77E+01
29.438254	2.669934221	0.0003555	0.160008	3.539177	1.32299	10.26761	9.83E+00	3.76E+01
29.1751143	2.705709171	0.0003519	0.160869	3.533259	1.28301	10.3503	9.96E+00	3.72E+01
29.0468833	2.68884674	0.0003454	0.15972	3.521813	1.24325	10.30906	9.90E+00	3.71E+01
29.1174156	2.609447405	0.0003352	0.156627	3.506465	1.18324	10.1225	9.61E+00	3.71E+01
29.0149559	2.592474158	0.000328	0.155805	3.480384	1.16893	10.06716	9.54E+00	3.69E+01
28.8987238	2.577846507	0.000321	0.155302	3.446692	1.15325	10.01962	9.49E+00	3.68E+01
28.4907634	2.611054231	0.0003184	0.156372	3.399242	1.1961	10.07616	9.61E+00	3.63E+01
28.8717003	2.494494751	0.0003028	0.151922	3.363037	1.05966	9.77213	9.18E+00	3.65E+01
28.7962641	2.469228808	0.0002954	0.150926	3.310701	1.02488	9.692986	9.09E+00	3.64E+01
28.808263	2.420359155	0.0002866	0.148852	3.252949	0.97813	9.547169	8.91E+00	3.62E+01
28.800542	2.376291508	0.000278	0.146939	3.189471	0.93903	9.413114	8.75E+00	3.61E+01
28.8730567	2.316100201	0.0002684	0.144234	3.121112	0.88278	9.229462	8.53E+00	3.60E+01
28.8177577	2.296153404	0.0002614	0.143594	3.048852	0.8559	9.167465	8.45E+00	3.59E+01
28.808576	2.262280787	0.0002536	0.142339	3.004548	0.81624	9.061964	8.33E+00	3.58E+01
28.8016897	2.226986037	0.0002457	0.141361	2.974861	0.78254	8.951574	8.20E+00	3.57E+01
28.7703884	2.198894298	0.0002389	0.140715	2.949666	0.76008	8.862298	8.10E+00	3.56E+01
28.6996474	2.182585944	0.0002346	0.140534	2.925029	0.74304	8.808379	8.04E+00	3.55E+01
28.6913004	2.148694858	0.00023	0.139615	2.897152	0.71495	8.69473	7.91E+00	3.54E+01
28.743991	2.111239205	0.0002252	0.137531	2.874137	0.68472	8.518729	7.77E+00	3.53E+01
28.6705372	2.103869972	0.0002234	0.137888	2.848271	0.67464	8.464101	7.75E+00	3.52E+01
28.5991702	2.095558806	0.0002214	0.138121	2.818969	0.66318	8.402671	7.72E+00	3.50E+01
28.6434094	2.057179691	0.0002171	0.136038	3.112765	0.63701	8.234961	7.57E+00	3.52E+01
28.6131515	2.036660347	0.0002146	0.135398	3.132394	0.61924	8.131443	7.50E+00	3.52E+01
27.8816399	2.788617665	0.000345	0.161168	3.394173	1.25825	10.35455	1.03E+01	3.56E+01
28.3708794	2.634270086	0.0003337	0.157746	3.384359	1.14123	10.11343	9.70E+00	3.61E+01
28.3718184	2.583184122	0.0003261	0.156093	3.350939	1.07674	9.998082	9.51E+00	3.60E+01
28.394251	2.537583527	0.0003178	0.154198	3.311263	1.02058	9.871962	9.34E+00	3.59E+01
28.410006	2.491428855	0.0003094	0.152289	3.265258	0.96772	9.738474	9.17E+00	3.59E+01
28.3792264	2.455857066	0.0003016	0.150792	3.212547	0.92514	9.634815	9.04E+00	3.57E+01
28.3289356	2.425087285	0.0002941	0.149493	3.154316	0.88384	9.540934	8.93E+00	3.56E+01
28.3063987	2.38718837	0.0002867	0.147867	3.090993	0.83871	9.428419	8.79E+00	3.54E+01
28.265394	2.359059692	0.0002798	0.146657	3.023108	0.80007	9.341836	8.69E+00	3.53E+01

2391	495311.06	3860151.99	2.70719	1.2613	2.62059	2.75975	6.296	5.488	1.3057	1.2613
2392	495361.06	3860151.99	2.70421	1.24804	2.55529	2.73807	6.241	5.335	1.2939	1.24804
2393	495411.06	3860151.99	2.70381	1.23056	2.48568	2.71956	6.178	5.185	1.2791	1.23056
2394	495461.06	3860151.99	2.70259	1.21419	2.41735	2.70334	6.133	5.04	1.2649	1.21419
2395	495511.06	3860151.99	2.70448	1.1925	2.3435	2.67693	6.079	4.874	1.2472	1.1925
2396	495561.06	3860151.99	2.70088	1.17953	2.27973	2.66794	6.027	4.753	1.2355	1.17953
2397	495611.06	3860151.99	2.70174	1.16097	2.21916	2.64451	5.979	4.6	1.2177	1.16097
2398	495661.06	3860151.99	2.70376	1.14519	2.16008	2.61531	5.922	4.44	1.1981	1.14519
2399	495718.25	3859442.96	2.76509	0.67112	1.31654	1.74245	8.144	3.055	0.6885	0.67112
2400	495818.25	3859442.96	2.731	0.64986	1.26399	1.67876	7.859	2.959	0.6466	0.64986
2401	495918.25	3859442.96	2.70183	0.6274	1.2357	1.64213	7.634	2.938	0.6155	0.6274
2402	496018.25	3859442.96	2.67475	0.60519	1.21573	1.61947	7.407	3.034	0.5933	0.60519
2403	496118.25	3859442.96	2.66685	0.58463	1.2462	1.65277	7.488	3.157	0.5725	0.58463
2404	496218.25	3859442.96	2.65426	0.56655	1.2735	1.67078	7.588	3.268	0.5624	0.56655
2405	496318.25	3859442.96	2.62933	0.56538	1.25296	1.63818	7.379	3.375	0.5545	0.56538
2406	496418.25	3859442.96	2.60348	0.56382	1.22682	1.61369	7.132	3.422	0.5511	0.56382
2407	495718.25	3859542.96	2.83049	0.70753	1.41936	1.85651	8.507	3.261	0.7721	0.70753
2408	495818.25	3859542.96	2.79461	0.68143	1.39519	1.84013	8.486	3.017	0.7265	0.68143
2409	495918.25	3859542.96	2.75896	0.66232	1.36094	1.80373	8.365	2.837	0.6792	0.66232
2410	496018.25	3859542.96	2.73289	0.64156	1.33336	1.76879	8.261	2.762	0.6419	0.64156
2411	496118.25	3859542.96	2.71936	0.6207	1.35845	1.8114	8.437	2.736	0.6118	0.6207
2412	496218.25	3859542.96	2.70167	0.60454	1.36797	1.83161	8.462	2.724	0.5872	0.60454
2413	496318.25	3859542.96	2.68187	0.58804	1.3687	1.83151	8.377	2.732	0.568	0.58804
2414	496418.25	3859542.96	2.65623	0.56701	1.33182	1.78449	8.073	2.757	0.5618	0.56701
2415	495718.25	3859642.96	2.86137	0.78123	1.76619	1.91448	8.004	3.614	0.8282	0.78123
2416	495818.25	3859642.96	2.83024	0.73833	1.69592	1.8696	8.166	3.349	0.7914	0.73833
2417	495918.25	3859642.96	2.81098	0.70977	1.65629	1.87101	8.342	3.144	0.7507	0.70977
2418	496018.25	3859642.96	2.77992	0.68459	1.59745	1.84913	8.409	2.965	0.709	0.68459
2419	496118.25	3859642.96	2.74242	0.67314	1.64395	1.95298	8.68	2.855	0.666	0.67314
2420	496218.25	3859642.96	2.72616	0.66022	1.66175	2.01761	8.821	2.75	0.6352	0.66022
2421	496318.25	3859642.96	2.70471	0.64071	1.61316	2.00449	8.802	2.668	0.6072	0.64071
2422	496418.25	3859642.96	2.67781	0.60577	1.44328	1.80408	8.32	2.625	0.5797	0.60577
2423	495718.25	3859742.96	2.87931	0.86346	2.0864	2.1147	6.987	3.465	0.8887	0.86346
2424	495818.25	3859742.96	2.85493	0.82153	2.00396	2.03384	7.23	3.196	0.8567	0.82153
2425	495918.25	3859742.96	2.82757	0.78023	1.95133	1.97708	7.511	3.072	0.8215	0.78023
2426	496018.25	3859742.96	2.79946	0.74289	1.89087	1.92746	7.753	2.977	0.7834	0.74289
2427	496118.25	3859742.96	2.7716	0.72824	1.93552	2.00949	8.113	2.897	0.7476	0.72824
2428	496218.25	3859742.96	2.74031	0.72257	1.99815	2.11521	8.421	2.883	0.7132	0.72257
2429	496318.25	3859742.96	2.7144	0.68123	1.82116	1.95231	8.385	2.754	0.6657	0.68123
2430	496418.25	3859742.96	2.6869	0.64773	1.606	1.83056	8.229	2.612	0.6264	0.64773
2431	495718.25	3859842.96	2.86888	0.93048	2.21781	2.28237	7.248	3.544	0.9359	0.93048
2432	495818.25	3859842.96	2.84907	0.89965	2.16772	2.23942	7.016	3.399	0.9066	0.89965
2433	495918.25	3859842.96	2.82849	0.8652	2.11104	2.18523	6.756	3.21	0.8744	0.8652
2434	496018.25	3859842.96	2.8045	0.83186	2.1	2.16822	6.718	3.066	0.8446	0.83186
2435	496118.25	3859842.96	2.77028	0.81291	2.20447	2.25418	7.074	3.046	0.8196	0.81291
2436	496218.25	3859842.96	2.75751	0.77487	2.02438	2.09676	7.278	2.879	0.7782	0.77487
2437	496318.25	3859842.96	2.73654	0.70557	1.6811	1.75264	7.146	2.557	0.73	0.70557
2438	496418.25	3859842.96	2.72609	0.67434	1.51745	1.59016	7.02	2.377	0.683	0.67434
2439	495718.25	3859942.96	2.83635	0.97877	2.174	2.40508	7.3	3.408	0.9959	0.97877
2440	495818.25	3859942.96	2.82332	0.9537	2.14304	2.36479	7.218	3.307	0.9709	0.9537
2441	495918.25	3859942.96	2.80531	0.92919	2.13739	2.35377	7.085	3.255	0.9465	0.92919
2442	496018.25	3859942.96	2.77707	0.90999	2.2028	2.41992	6.901	3.301	0.9265	0.90999
2443	496118.25	3859942.96	2.76931	0.8705	2.09241	2.29615	6.717	3.161	0.8908	0.8705
2444	496218.25	3859942.96	2.76472	0.81858	1.87543	2.06852	6.441	2.966	0.8386	0.81858
2445	496318.25	3859942.96	2.74867	0.76491	1.68376	1.82066	6.168	2.781	0.8011	0.76491
2446	496418.25	3859942.96	2.74364	0.71714	1.49025	1.51864	5.843	2.562	0.7525	0.71714
2447	496856.82	3858864.83	2.00314	0.45218	1.19093	1.03495	4.796	4.028	0.4763	0.45218

28.2461958	2.32952735	0.0002728	0.145367	2.952465	0.77199	9.251639	8.58E+00	3.51E+01
28.2151032	2.305037116	0.000266	0.144225	2.926595	0.75051	9.167607	8.49E+00	3.50E+01
28.2109297	2.272752855	0.0002588	0.14325	2.897123	0.72934	9.062956	8.37E+00	3.49E+01
28.1982005	2.242518682	0.0002517	0.142396	2.875656	0.709	8.962556	8.26E+00	3.49E+01
28.2179203	2.202458864	0.000244	0.141005	2.850325	0.6857	8.836579	8.11E+00	3.48E+01
28.1803587	2.178504238	0.0002373	0.140531	2.826303	0.66867	8.753609	8.02E+00	3.47E+01
28.1893318	2.144225298	0.000231	0.139297	2.803602	0.64712	8.627986	7.89E+00	3.47E+01
28.210408	2.115080811	0.0002249	0.137759	2.776916	0.62453	8.488687	7.79E+00	3.46E+01
28.8503111	1.239508757	0.0001371	0.091782	3.818817	0.42976	4.878483	4.56E+00	3.47E+01
28.4946239	1.200243117	0.0001316	0.088427	3.6854	0.41624	4.581323	4.42E+00	3.40E+01
28.1902708	1.158761167	0.0001286	0.086498	3.579781	0.41336	4.36104	4.27E+00	3.35E+01
27.9077243	1.117740948	0.0001266	0.085304	3.473308	0.42682	4.203886	4.12E+00	3.31E+01
27.8252976	1.079768156	0.0001297	0.087058	3.51145	0.44415	4.056015	3.98E+00	3.30E+01
27.6939364	1.04637574	0.0001326	0.088007	3.558004	0.45975	3.985019	3.85E+00	3.30E+01
27.4338225	1.044214837	0.0001304	0.08629	3.460263	0.47482	3.92862	3.84E+00	3.26E+01
27.1641096	1.041333633	0.0001277	0.085	3.344135	0.48139	3.90453	3.83E+00	3.22E+01
29.5326796	1.306755321	0.0001478	0.09779	3.988936	0.45879	5.470607	4.81E+00	3.60E+01
29.1583159	1.258550561	0.0001452	0.096927	3.979061	0.42438	5.147231	4.63E+00	3.54E+01
28.7863521	1.223255811	0.0001417	0.09501	3.922514	0.39915	4.81259	4.50E+00	3.47E+01
28.5143437	1.184913634	0.0001388	0.093169	3.873587	0.3886	4.547881	4.36E+00	3.42E+01
28.3731748	1.146386765	0.0001414	0.095414	3.956402	0.38483	4.334895	4.22E+00	3.41E+01
28.1886014	1.116540446	0.0001424	0.096478	3.967952	0.38316	4.160453	4.11E+00	3.38E+01
27.9820128	1.086066172	0.0001425	0.096473	3.927944	0.38434	4.024131	4.00E+00	3.35E+01
27.7144909	1.047225325	0.0001387	0.093996	3.7858	0.38783	3.980272	3.86E+00	3.32E+01
29.8548744	1.442873743	0.0001839	0.100843	3.75306	0.5084	5.868308	5.31E+00	3.62E+01
29.5300711	1.363640632	0.0001766	0.098479	3.829396	0.47115	5.607638	5.02E+00	3.59E+01
29.3291167	1.310892434	0.0001724	0.098554	3.911513	0.44231	5.31898	4.83E+00	3.56E+01
29.0050439	1.264386846	0.0001663	0.097401	3.943015	0.41706	5.023733	4.66E+00	3.51E+01
28.6137775	1.243239547	0.0001711	0.102871	4.070045	0.40168	4.718992	4.58E+00	3.46E+01
28.4441244	1.219377267	0.000173	0.106276	4.13643	0.38686	4.500621	4.49E+00	3.43E+01
28.2203201	1.183343747	0.0001679	0.105585	4.12738	0.37534	4.302302	4.36E+00	3.40E+01
27.9396517	1.118812164	0.0001503	0.095028	3.901591	0.36922	4.107596	4.12E+00	3.34E+01
30.0420562	1.594746441	0.0002172	0.11139	3.276146	0.48738	6.296689	5.87E+00	3.59E+01
29.7876809	1.517304848	0.0002086	0.107131	3.390248	0.44957	6.070312	5.59E+00	3.57E+01
29.502213	1.441026817	0.0002031	0.104141	3.521841	0.4322	5.820411	5.31E+00	3.55E+01
29.2089197	1.372062613	0.0001969	0.101527	3.635493	0.4188	5.550743	5.05E+00	3.52E+01
28.9182349	1.345005152	0.0002015	0.105848	3.804393	0.40749	5.296732	4.95E+00	3.49E+01
28.5917623	1.334533083	0.000208	0.111417	3.948773	0.40562	5.05335	4.91E+00	3.45E+01
28.3214233	1.258181176	0.0001896	0.102836	3.931723	0.38749	4.716725	4.63E+00	3.41E+01
28.0344946	1.196309166	0.0001672	0.096423	3.858863	0.36737	4.437916	4.40E+00	3.36E+01
29.933232	1.7185274	0.0002309	0.120222	3.398862	0.49855	6.630835	6.33E+00	3.60E+01
29.726539	1.661586681	0.0002257	0.117959	3.290035	0.4781	6.423234	6.12E+00	3.56E+01
29.511812	1.597960092	0.0002198	0.115105	3.167854	0.45154	6.195652	5.88E+00	3.52E+01
29.2615059	1.53638359	0.0002186	0.114209	3.150068	0.43138	5.984437	5.66E+00	3.48E+01
28.9044623	1.501384348	0.0002295	0.118737	3.316909	0.42848	5.806949	5.53E+00	3.45E+01
28.7712231	1.431127296	0.0002108	0.110445	3.412808	0.40504	5.514111	5.27E+00	3.44E+01
28.552427	1.303135347	0.000175	0.092319	3.350714	0.35965	5.172101	4.80E+00	3.40E+01
28.4433941	1.245455858	0.000158	0.08376	3.291578	0.33438	4.839301	4.59E+00	3.37E+01
29.5938215	1.80771544	0.0002263	0.126685	3.423148	0.47944	7.056311	6.66E+00	3.58E+01
29.4578694	1.761413014	0.0002231	0.124563	3.384865	0.46527	6.879319	6.49E+00	3.56E+01
29.2699573	1.716144865	0.0002225	0.123983	3.322508	0.4579	6.706577	6.32E+00	3.53E+01
28.9753076	1.680683892	0.0002293	0.127467	3.23581	0.4643	6.564374	6.19E+00	3.49E+01
28.8943416	1.607748798	0.0002178	0.120948	3.149772	0.44467	6.311781	5.92E+00	3.46E+01
28.8464506	1.511856417	0.0001952	0.108957	3.020102	0.41729	5.941429	5.57E+00	3.43E+01
28.6789886	1.412731916	0.0001753	0.095902	2.89243	0.39119	5.676366	5.20E+00	3.39E+01
28.6265067	1.324504277	0.0001551	0.079993	2.739693	0.36041	5.331734	4.88E+00	3.36E+01
20.9003006	0.83514285	0.000124	0.054515	2.249026	0.56671	3.374899	3.07E+00	2.49E+01

2448	496956.82	3858864.83	1.97687	0.4456	1.18387	1.02777	4.696	3.802	0.4704	0.4456
2449	497056.82	3858864.83	1.95203	0.43721	1.17653	1.02214	4.592	3.539	0.4612	0.43721
2450	497156.82	3858864.83	1.91823	0.42672	1.16867	1.01264	4.46	3.184	0.4507	0.42672
2451	497256.82	3858864.83	1.91229	0.4246	1.16125	1.01343	4.389	2.986	0.4489	0.4246
2452	496856.82	3858964.83	2.10774	0.46448	1.21582	1.08168	5.207	4.055	0.4911	0.46448
2453	496956.82	3858964.83	2.0669	0.46043	1.20123	1.06277	5.066	3.61	0.487	0.46043
2454	497056.82	3858964.83	2.03739	0.45568	1.18695	1.04716	4.956	3.205	0.4821	0.45568
2455	497156.82	3858964.83	2.00689	0.45018	1.17309	1.03742	4.857	2.899	0.4766	0.45018
2456	497256.82	3858964.83	2.02802	0.4449	1.16335	1.03987	4.895	2.74	0.472	0.4449
2457	496856.82	3859064.83	2.17873	0.4733	1.19822	1.14395	5.559	3.185	0.5008	0.4733
2458	496956.82	3859064.83	2.14693	0.47079	1.18172	1.1311	5.449	2.957	0.4982	0.47079
2459	497056.82	3859064.83	2.12135	0.46758	1.16652	1.1177	5.349	2.801	0.4949	0.46758
2460	497156.82	3859064.83	2.09974	0.46361	1.15215	1.10577	5.251	2.664	0.4913	0.46361
2461	497256.82	3859064.83	2.13324	0.45948	1.14801	1.11201	5.43	2.572	0.4877	0.45948
2462	496856.82	3859164.83	2.22756	0.4818	1.14039	1.19418	6.096	3.496	0.5119	0.4818
2463	496956.82	3859164.83	2.19308	0.47705	1.12072	1.18276	5.918	3.251	0.5064	0.47705
2464	497056.82	3859164.83	2.18041	0.47507	1.10534	1.17723	5.838	3.053	0.5026	0.47507
2465	497156.82	3859164.83	2.19108	0.47276	1.09453	1.17815	5.866	2.887	0.5011	0.47276
2466	497256.82	3859164.83	2.2262	0.50524	1.08917	1.18804	6.028	2.619	0.4998	0.50524
2467	496856.82	3859264.83	2.26238	0.50186	1.04143	1.2433	6.134	3.372	0.5213	0.50186
2468	496956.82	3859264.83	2.25722	0.50395	1.02937	1.24611	6.218	3.137	0.518	0.50395
2469	497056.82	3859264.83	2.26802	0.51934	1.01997	1.2566	6.381	2.86	0.5151	0.51934
2470	497156.82	3859264.83	2.27349	0.52082	1.01207	1.26247	6.501	2.735	0.5116	0.52082
2471	497256.82	3859264.83	2.2939	0.52046	1.01648	1.27836	6.75	2.631	0.5064	0.52046
2472	497088.92	3858620.93	1.4179	0.40939	0.83316	0.97243	2.879	2.351	0.4103	0.40939
2473	497138.92	3858620.93	1.42042	0.4156	0.83181	0.97312	2.86	2.337	0.4189	0.4156
2474	497188.92	3858620.93	1.41485	0.41985	0.82958	0.95425	2.84	2.257	0.4185	0.41985
2475	497238.92	3858620.93	1.41126	0.42518	0.82782	0.9484	2.817	2.21	0.4238	0.42518
2476	497088.92	3858670.93	1.44065	0.40406	0.84642	0.97284	2.986	2.391	0.4054	0.40406
2477	497138.92	3858670.93	1.45165	0.40803	0.84514	0.97476	2.973	2.438	0.4132	0.40803
2478	497188.92	3858670.93	1.4419	0.41213	0.84284	0.97282	2.943	2.361	0.4154	0.41213
2479	497238.92	3858670.93	1.44345	0.4183	0.84089	0.9724	2.921	2.339	0.4233	0.4183
2480	497088.92	3858720.93	1.79582	0.4096	0.86044	0.98554	3.906	2.688	0.4253	0.4096
2481	497138.92	3858720.93	1.45989	0.40694	0.85764	0.97456	3.084	2.441	0.4163	0.40694
2482	497188.92	3858720.93	1.45561	0.40488	0.85764	0.97349	3.053	2.385	0.4126	0.40488
2483	497238.92	3858720.93	1.78018	0.41205	0.85807	0.98115	3.769	2.493	0.4277	0.41205
2484	497088.92	3858770.93	1.8253	0.41389	0.89235	0.99338	4.096	2.839	0.4322	0.41389
2485	497138.92	3858770.93	1.80799	0.41208	0.89113	0.99128	4.046	2.751	0.4296	0.41208
2486	497188.92	3858770.93	1.80188	0.41039	0.89022	0.99181	3.99	2.685	0.4289	0.41039
2487	497238.92	3858770.93	1.81459	0.40865	0.88909	0.99133	3.997	2.743	0.4275	0.40865
2488	497396.65	3858622.63	1.79649	0.46021	0.82986	0.98223	3.387	2.509	0.4812	0.46021
2489	497496.65	3858622.63	1.85101	0.48027	0.83149	0.98689	3.418	2.605	0.5037	0.48027
2490	497596.65	3858622.63	1.94156	0.51597	0.98564	1.03502	3.587	2.699	0.5423	0.51597
2491	497696.65	3858622.63	1.96705	0.52884	0.99025	1.05254	3.665	2.636	0.5591	0.52884
2492	497796.65	3858622.63	2.01636	0.54307	0.99662	1.08163	3.808	2.597	0.5765	0.54307
2493	497896.65	3858622.63	2.06523	0.57596	1.04256	1.1191	3.956	2.562	0.6056	0.57596
2494	497396.65	3858722.63	1.88246	0.45184	1.0588	0.99805	3.918	2.847	0.475	0.45184
2495	497496.65	3858722.63	1.9344	0.48255	1.06068	1.0259	3.984	2.899	0.507	0.48255
2496	497596.65	3858722.63	2.01132	0.50777	1.06467	1.05364	4.145	2.926	0.5334	0.50777
2497	497696.65	3858722.63	2.05272	0.52568	1.09356	1.08178	4.217	2.856	0.5517	0.52568
2498	497796.65	3858722.63	2.07409	0.54346	1.09858	1.10789	4.28	2.755	0.5658	0.54346
2499	497896.65	3858722.63	2.10204	0.5667	1.21701	1.14003	4.394	2.616	0.5838	0.5667
2500	497396.65	3858822.63	1.9435	0.44738	1.13685	1.03136	4.284	3.079	0.4731	0.44738
2501	497496.65	3858822.63	1.98634	0.46683	1.13315	1.03966	4.343	2.969	0.4937	0.46683
2502	497596.65	3858822.63	2.07155	0.49599	1.14176	1.07113	4.534	2.782	0.5207	0.49599
2503	497696.65	3858822.63	2.09649	0.51974	1.23475	1.10093	4.634	2.62	0.5387	0.51974
2504	497796.65	3858822.63	2.11841	0.5555	1.23723	1.12737	4.679	2.434	0.5546	0.5555

20.6262055	0.82299008	0.0001232	0.054137	2.20212	0.53491	3.332741	3.03E+00	2.45E+01
20.3670306	0.807494373	0.0001225	0.05384	2.15308	0.49786	3.267627	2.97E+00	2.42E+01
20.0143692	0.788120123	0.0001217	0.05334	2.091591	0.44793	3.19316	2.90E+00	2.37E+01
19.9523926	0.78420464	0.0001209	0.053381	2.058246	0.42003	3.180831	2.89E+00	2.36E+01
21.9916728	0.857860036	0.0001266	0.056976	2.441625	0.57038	3.479904	3.16E+00	2.62E+01
21.5655577	0.850379987	0.0001251	0.05598	2.37538	0.50779	3.450287	3.13E+00	2.57E+01
21.2576572	0.84160709	0.0001236	0.055158	2.324137	0.45092	3.415498	3.10E+00	2.52E+01
20.9394272	0.831448999	0.0001221	0.054645	2.277592	0.40786	3.376812	3.06E+00	2.48E+01
21.1598927	0.821697232	0.0001211	0.054774	2.295392	0.38541	3.344219	3.03E+00	2.50E+01
22.7323661	0.874149921	0.0001247	0.060257	2.606919	0.44808	3.548136	3.22E+00	2.71E+01
22.4005723	0.869514137	0.000123	0.05958	2.555127	0.41601	3.529572	3.20E+00	2.66E+01
22.1336764	0.863585506	0.0001214	0.058874	2.508296	0.39397	3.506474	3.18E+00	2.63E+01
21.9082027	0.856253211	0.0001199	0.058245	2.462501	0.3747	3.480967	3.15E+00	2.60E+01
22.257734	0.848625408	0.0001195	0.058574	2.546409	0.36177	3.45553	3.12E+00	2.64E+01
23.2418471	0.889848789	0.0001187	0.062902	2.858348	0.49175	3.626925	3.28E+00	2.79E+01
22.8820907	0.881075892	0.0001167	0.062301	2.774867	0.4574	3.58831	3.24E+00	2.74E+01
22.7498948	0.877418979	0.0001151	0.06201	2.737672	0.42942	3.561102	3.23E+00	2.72E+01
22.8612232	0.873152581	0.0001139	0.062058	2.750492	0.40608	3.550616	3.21E+00	2.73E+01
23.2276571	0.933140727	0.0001134	0.062579	2.826715	0.36836	3.541476	3.44E+00	2.75E+01
23.6051509	0.926898118	0.0001084	0.06549	2.876369	0.4744	3.693882	3.41E+00	2.82E+01
23.5513127	0.930758193	0.0001072	0.065638	2.915557	0.44131	3.670075	3.43E+00	2.81E+01
23.6639974	0.959182379	0.0001062	0.06619	2.992347	0.40238	3.649669	3.53E+00	2.82E+01
23.7210701	0.961915829	0.0001054	0.066499	3.048247	0.3848	3.624516	3.54E+00	2.83E+01
23.9340233	0.961250935	0.0001058	0.067336	3.16504	0.37019	3.587956	3.54E+00	2.85E+01
14.7940414	0.756112901	8.674E-05	0.051222	1.350004	0.33066	2.907265	2.78E+00	1.74E+01
14.8203345	0.767582309	8.66E-05	0.051258	1.341057	0.32873	2.967916	2.83E+00	1.75E+01
14.7622184	0.775431743	8.636E-05	0.050264	1.331651	0.31752	2.965365	2.85E+00	1.73E+01
14.7247612	0.785275857	8.618E-05	0.049956	1.320795	0.31091	3.002705	2.89E+00	1.73E+01
15.0314097	0.746268787	8.812E-05	0.051243	1.400408	0.3363	2.872689	2.75E+00	1.77E+01
15.1461812	0.753601082	8.798E-05	0.051345	1.394111	0.34292	2.927742	2.77E+00	1.78E+01
15.0444519	0.761173477	8.774E-05	0.051242	1.379949	0.33211	2.943542	2.80E+00	1.77E+01
15.0606242	0.772569009	8.754E-05	0.05122	1.369694	0.329	2.999375	2.84E+00	1.77E+01
18.7371715	0.756500755	8.958E-05	0.051912	1.831758	0.37814	3.013687	2.79E+00	2.20E+01
15.2321554	0.751587933	8.929E-05	0.051334	1.446302	0.34346	2.949352	2.77E+00	1.80E+01
15.1874989	0.747783266	8.929E-05	0.051278	1.431404	0.33553	2.923207	2.75E+00	1.79E+01
18.5739874	0.761025723	8.933E-05	0.051681	1.767436	0.35075	3.030621	2.80E+00	2.17E+01
19.044759	0.764424066	9.29E-05	0.052325	1.920707	0.39942	3.062364	2.81E+00	2.24E+01
18.8641505	0.761081131	9.277E-05	0.052215	1.897125	0.38703	3.044154	2.80E+00	2.22E+01
18.8004002	0.757959827	9.268E-05	0.052243	1.870767	0.37766	3.03877	2.79E+00	2.21E+01
18.9330134	0.754746176	9.256E-05	0.052217	1.874453	0.38587	3.028921	2.78E+00	2.23E+01
18.7441622	0.849973664	8.639E-05	0.051738	1.588201	0.35289	3.409405	3.13E+00	2.19E+01
19.3130113	0.887022993	8.656E-05	0.051984	1.60262	0.36641	3.569038	3.27E+00	2.25E+01
20.2577891	0.952958239	0.0001026	0.054519	1.682135	0.37965	3.842391	3.51E+00	2.37E+01
20.5237458	0.976728173	0.0001031	0.055442	1.718462	0.37084	3.961142	3.60E+00	2.40E+01
21.038235	1.003009925	0.0001038	0.056974	1.785635	0.3654	4.084711	3.69E+00	2.46E+01
21.5481333	1.06375531	0.0001085	0.058948	1.855105	0.36045	4.29054	3.92E+00	2.53E+01
19.6411533	0.834514896	0.0001102	0.052571	1.837329	0.40045	3.365617	3.07E+00	2.31E+01
20.1830833	0.891233983	0.0001104	0.054038	1.868188	0.40785	3.592349	3.28E+00	2.37E+01
20.9856488	0.937813449	0.0001108	0.0555	1.943811	0.41165	3.779261	3.45E+00	2.47E+01
21.4176069	0.970891887	0.0001138	0.056982	1.977531	0.40171	3.90871	3.57E+00	2.52E+01
21.6405765	1.003730226	0.0001144	0.058357	2.007049	0.38756	4.00911	3.70E+00	2.54E+01
21.9322004	1.046652778	0.0001267	0.06005	2.06044	0.36808	4.136575	3.85E+00	2.58E+01
20.2780306	0.826277607	0.0001184	0.054326	2.008784	0.4332	3.352013	3.04E+00	2.39E+01
20.7250132	0.862200312	0.000118	0.054763	2.036282	0.41769	3.497972	3.17E+00	2.44E+01
21.6140747	0.916056664	0.0001189	0.056421	2.125873	0.39132	3.689418	3.37E+00	2.54E+01
21.8742929	0.959921149	0.0001285	0.05799	2.173159	0.36861	3.817026	3.53E+00	2.57E+01
22.1030012	1.025967211	0.0001288	0.059383	2.194003	0.34239	3.92947	3.78E+00	2.59E+01

2505	497896.65	3858822.63	2.15513	0.58389	1.24529	1.17396	4.825	2.272	0.5727	0.58389
2506	497396.65	3858922.63	2.02541	0.43793	1.16023	1.04383	4.755	2.772	0.4652	0.43793
2507	497496.65	3858922.63	2.08665	0.45635	1.16685	1.07273	4.87	2.608	0.4849	0.45635
2508	497596.65	3858922.63	2.08257	0.47297	1.16098	1.07937	4.799	2.463	0.4991	0.47297
2509	497696.65	3858922.63	2.14751	0.53534	1.21096	1.13653	4.932	2.238	0.5249	0.53534
2510	497796.65	3858922.63	2.17292	0.55497	1.2158	1.18702	5.064	2.175	0.5439	0.55497
2511	497896.65	3858922.63	2.21303	0.57393	1.22925	1.29872	5.248	2.107	0.5639	0.57393
2512	497364.44	3858201.52	1.27744	0.46573	0.72067	1.02317	2.811	2.793	0.4621	0.46573
2513	497414.44	3858201.52	1.28606	0.47674	0.76218	1.02061	2.816	2.666	0.4804	0.47674
2514	497464.44	3858201.52	1.29798	0.49307	0.76432	1.0177	2.834	2.577	0.4968	0.49307
2515	497514.44	3858201.52	1.30873	0.50393	0.77242	1.01454	2.85	2.577	0.509	0.50393
2516	497564.44	3858201.52	1.30734	0.50857	0.77356	1.01143	2.845	2.57	0.5152	0.50857
2517	497614.44	3858201.52	1.31417	0.51887	0.77531	1.00842	2.849	2.557	0.5257	0.51887
2518	497364.44	3858251.52	1.30951	0.47267	0.77713	0.9835	2.791	2.673	0.4708	0.47267
2519	497414.44	3858251.52	1.32772	0.48377	0.78072	0.98106	2.817	2.61	0.4864	0.48377
2520	497464.44	3858251.52	1.32019	0.48588	0.78131	0.97827	2.808	2.41	0.4897	0.48588
2521	497514.44	3858251.52	1.31192	0.48695	0.7815	0.97547	2.795	2.234	0.4907	0.48695
2522	497564.44	3858251.52	1.31094	0.49328	0.78241	0.9728	2.794	2.182	0.4971	0.49328
2523	497614.44	3858251.52	1.31002	0.49917	0.7832	0.97014	2.793	2.177	0.5036	0.49917
2524	497364.44	3858301.52	1.32762	0.47449	0.78531	0.94462	2.792	2.44	0.4735	0.47449
2525	497414.44	3858301.52	1.34029	0.48182	0.78851	0.94364	2.792	2.41	0.4816	0.48182
2526	497464.44	3858301.52	1.33087	0.47949	0.78834	0.94061	2.778	2.236	0.4785	0.47949
2527	497514.44	3858301.52	1.32598	0.47938	0.78849	0.93809	2.766	2.071	0.4788	0.47938
2528	497564.44	3858301.52	1.31698	0.47769	0.78799	0.93524	2.752	1.962	0.4798	0.47769
2529	497614.44	3858301.52	1.31549	0.48249	0.78827	0.93319	2.742	1.943	0.4862	0.48249
2530	497364.44	3858351.52	1.3487	0.47426	0.79128	0.92366	2.794	2.245	0.4731	0.47426
2531	497414.44	3858351.52	1.34422	0.47557	0.79131	0.92139	2.782	2.143	0.4746	0.47557
2532	497464.44	3858351.52	1.34399	0.47838	0.79173	0.91964	2.78	2.113	0.4777	0.47838
2533	497514.44	3858351.52	1.34062	0.47919	0.79161	0.91775	2.77	2.039	0.4783	0.47919
2534	497564.44	3858351.52	1.32881	0.47547	0.79032	0.91388	2.753	1.915	0.4737	0.47547
2535	497614.44	3858351.52	1.32792	0.47656	0.79025	0.91243	2.747	1.888	0.4746	0.47656
2536	497364.44	3858401.52	1.34642	0.4692	0.78685	0.90485	2.783	2.087	0.4646	0.4692
2537	497414.44	3858401.52	1.35278	0.47175	0.79013	0.90264	2.788	2.054	0.4667	0.47175
2538	497464.44	3858401.52	1.34763	0.47098	0.78954	0.90057	2.769	2.019	0.4686	0.47098
2539	497514.44	3858401.52	1.34603	0.4735	0.78927	0.89898	2.759	2.001	0.4718	0.4735
2540	497564.44	3858401.52	1.35877	0.48256	0.79069	0.91021	2.782	1.975	0.4822	0.48256
2541	497614.44	3858401.52	1.37455	0.49079	0.79364	0.96917	2.78	1.976	0.4938	0.49079
2542	493478.11	3860497.94	2.93744	2.67732	5.3863	5.95945	9.677	9.821	2.5624	2.67732
2543	493528.11	3860497.94	2.90376	2.61864	5.33607	5.84308	9.486	9.468	2.4951	2.61864
2544	493478.11	3860547.94	2.92692	2.75776	5.1511	5.59072	9.747	10.11	2.6699	2.75776
2545	493528.11	3860547.94	2.89181	2.70129	5.11496	5.5702	9.549	9.719	2.6054	2.70129
2546	493478.11	3860597.94	2.92429	2.80777	4.87985	4.93238	9.747	9.253	2.744	2.80777
2547	493528.11	3860597.94	2.8803	2.75567	4.85483	4.97321	9.603	9.183	2.6837	2.75567
2548	493561.88	3860524.64	2.87746	2.6265	5.20824	5.68774	9.406	9.407	2.5127	2.6265
2549	493591.88	3860524.64	2.8629	2.59122	5.20869	5.63691	9.303	9.223	2.4727	2.59122
2550	493561.88	3860554.64	2.86935	2.67211	5.07012	5.49204	9.436	9.483	2.5747	2.67211
2551	493591.88	3860554.64	2.8578	2.63794	5.09436	5.47887	9.364	9.314	2.5358	2.63794
2552	492880.5	3860293.11	3.31782	3.08955	6.48752	8.0874	11.3	17.96	2.9419	3.08955
2553	492930.5	3860293.11	3.27472	2.98536	6.57219	7.67191	11.26	19.1	2.8339	2.98536
2554	492980.5	3860293.11	3.23809	2.87546	6.56998	7.29366	11.17	20.18	2.7271	2.87546
2555	493030.5	3860293.11	3.2485	2.76928	6.31956	7.02178	11.16	21.01	2.623	2.76928
2556	493080.5	3860293.11	3.27334	2.7509	6.0099	6.78137	11.1	20.23	2.596	2.7509
2557	493130.5	3860293.11	3.19559	2.70794	6.13159	6.40247	10.77	22.01	2.5336	2.70794
2558	493180.5	3860293.11	3.12898	2.5625	6.20399	5.90639	10.46	21.27	2.3695	2.5625
2559	493230.5	3860293.11	3.0883	2.50121	6.16094	5.61174	10.2	21.1	2.2921	2.50121
2560	493280.5	3860293.11	3.07814	2.52142	5.98997	5.47641	9.98	22.58	2.307	2.52142
2561	493330.5	3860293.11	3.05467	2.4623	5.87401	5.33415	9.698	22.87	2.237	2.4623

22.4861292	1.078401431	0.0001296	0.061837	2.262554	0.31959	4.05807	3.97E+00	2.63E+01
21.1326606	0.80882416	0.0001208	0.054983	2.229617	0.38996	3.296322	2.98E+00	2.49E+01
21.7716246	0.842844531	0.0001215	0.056505	2.283674	0.36686	3.435833	3.10E+00	2.57E+01
21.7290549	0.873540435	0.0001209	0.056855	2.250535	0.34644	3.536233	3.22E+00	2.56E+01
22.4066238	0.988733189	0.0001261	0.059866	2.312569	0.3149	3.719389	3.64E+00	2.62E+01
22.6717459	1.02498834	0.0001266	0.062525	2.374663	0.30598	3.853728	3.77E+00	2.65E+01
23.0902444	1.060006051	0.000128	0.068409	2.460757	0.29634	3.995364	3.90E+00	2.71E+01
13.3285142	0.860168693	7.503E-05	0.053895	1.317921	0.39295	3.274429	3.17E+00	1.61E+01
13.4184533	0.880503345	7.935E-05	0.05376	1.320533	0.3751	3.403878	3.24E+00	1.62E+01
13.5428238	0.910663641	7.957E-05	0.053606	1.328739	0.36255	3.520291	3.35E+00	1.64E+01
13.6549869	0.930721254	8.041E-05	0.05344	1.336556	0.36248	3.606094	3.43E+00	1.65E+01
13.6404839	0.939290989	8.053E-05	0.053276	1.333939	0.36149	3.650661	3.46E+00	1.65E+01
13.7117466	0.958314324	8.071E-05	0.053118	1.335909	0.35974	3.724916	3.53E+00	1.66E+01
13.6631252	0.872986358	8.09E-05	0.051805	1.308669	0.37604	3.335646	3.21E+00	1.64E+01
13.8531241	0.893487232	8.128E-05	0.051676	1.32072	0.36713	3.446178	3.29E+00	1.66E+01
13.7745578	0.897384246	8.134E-05	0.051529	1.316627	0.33904	3.469559	3.30E+00	1.65E+01
13.6882706	0.899360456	8.136E-05	0.051382	1.310718	0.31428	3.476999	3.31E+00	1.64E+01
13.6780455	0.911051496	8.145E-05	0.051241	1.310329	0.30701	3.52192	3.35E+00	1.64E+01
13.6684464	0.921929888	8.154E-05	0.051101	1.309827	0.30627	3.5684	3.39E+00	1.64E+01
13.8520808	0.876347762	8.176E-05	0.049757	1.309161	0.34331	3.354847	3.23E+00	1.66E+01
13.9842766	0.889885727	8.209E-05	0.049705	1.309218	0.33907	3.412026	3.28E+00	1.67E+01
13.8859905	0.885582391	8.207E-05	0.049546	1.302658	0.31454	3.390203	3.26E+00	1.66E+01
13.8349694	0.885379229	8.209E-05	0.049413	1.297251	0.29134	3.392683	3.26E+00	1.65E+01
13.7410654	0.882257924	8.203E-05	0.049263	1.290452	0.27594	3.399556	3.25E+00	1.64E+01
13.7255191	0.891123168	8.206E-05	0.049155	1.285983	0.27329	3.445186	3.28E+00	1.64E+01
14.0720246	0.875922969	8.238E-05	0.048653	1.309973	0.31581	3.351801	3.22E+00	1.67E+01
14.0252813	0.878342442	8.238E-05	0.048533	1.304711	0.30149	3.362429	3.23E+00	1.67E+01
14.0228816	0.883532303	8.242E-05	0.048441	1.30353	0.29731	3.384323	3.25E+00	1.67E+01
13.9877198	0.885028313	8.241E-05	0.048342	1.299042	0.28681	3.389141	3.26E+00	1.66E+01
13.8644969	0.878157749	8.228E-05	0.048138	1.291131	0.26934	3.356335	3.23E+00	1.65E+01
13.8552109	0.880170898	8.227E-05	0.048061	1.288055	0.2656	3.362925	3.24E+00	1.65E+01
14.0482356	0.866577525	8.192E-05	0.047662	1.304777	0.29356	3.291788	3.19E+00	1.67E+01
14.1145944	0.871287186	8.226E-05	0.047546	1.307169	0.28894	3.306384	3.21E+00	1.67E+01
14.0608605	0.869865053	8.22E-05	0.047437	1.298634	0.28396	3.320271	3.20E+00	1.67E+01
14.0441664	0.874519306	8.217E-05	0.047353	1.293786	0.28153	3.343015	3.22E+00	1.67E+01
14.1770927	0.891252452	8.232E-05	0.047944	1.304669	0.27781	3.416561	3.28E+00	1.68E+01
14.3417375	0.906452651	8.262E-05	0.05105	1.303638	0.27798	3.49868	3.34E+00	1.70E+01
30.6485712	4.944811041	0.0005607	0.313909	4.53782	1.38156	18.15532	1.82E+01	4.18E+01
30.2971618	4.836433442	0.0005555	0.307779	4.448022	1.33195	17.6784	1.78E+01	4.11E+01
30.5388079	5.093377742	0.0005363	0.294486	4.570457	1.42164	18.9172	1.88E+01	4.21E+01
30.1724783	4.989081849	0.0005325	0.293405	4.477536	1.36726	18.46048	1.84E+01	4.14E+01
30.5113671	5.185742495	0.000508	0.259809	4.570391	1.30169	19.44209	1.91E+01	4.22E+01
30.0523856	5.089517667	0.0005054	0.261959	4.503219	1.29187	19.01477	1.87E+01	4.15E+01
30.0227537	4.850950278	0.0005422	0.299596	4.410584	1.32339	17.80339	1.79E+01	4.09E+01
29.870838	4.78579074	0.0005423	0.296919	4.362233	1.29745	17.5199	1.76E+01	4.05E+01
29.9381358	4.935188558	0.0005278	0.289288	4.424801	1.33409	18.24232	1.82E+01	4.10E+01
29.8176258	4.872079108	0.0005304	0.288594	4.391142	1.31019	17.96734	1.79E+01	4.07E+01
34.6173684	5.706169211	0.0006754	0.425996	5.29941	2.52584	20.84421	2.10E+01	4.84E+01
34.1676729	5.513738025	0.0006842	0.404111	5.278286	2.68669	20.07906	2.03E+01	4.78E+01
33.7854839	5.310760894	0.000684	0.384187	5.240163	2.8395	19.32227	1.96E+01	4.73E+01
33.8940995	5.114654326	0.0006579	0.369866	5.232876	2.95588	18.58476	1.88E+01	4.73E+01
34.1532743	5.080707832	0.0006257	0.357202	5.205556	2.84537	18.39345	1.87E+01	4.73E+01
33.3420487	5.001363905	0.0006383	0.337244	5.049439	3.09559	17.9514	1.84E+01	4.64E+01
32.6470554	4.732747035	0.0006459	0.311114	4.906794	2.99181	16.78905	1.74E+01	4.50E+01
32.2226096	4.619548961	0.0006414	0.295593	4.78148	2.96789	16.24028	1.70E+01	4.41E+01
32.1166025	4.656875329	0.0006236	0.288465	4.679968	3.17603	16.34607	1.71E+01	4.41E+01
31.871722	4.547685083	0.0006115	0.280971	4.547644	3.21781	15.84974	1.67E+01	4.36E+01

2562	493380.5	3860293.11	3.02546	2.40787	5.78043	5.15844	9.377	22.83	2.1705	2.40787
2563	492880.5	3860343.11	3.35732	3.26059	6.11059	8.49179	11.05	15.3	3.1495	3.26059
2564	492930.5	3860343.11	3.30976	3.16252	6.12785	8.197	11.06	14.23	3.0419	3.16252
2565	492980.5	3860343.11	3.30424	3.01686	6.24617	8.14211	11.19	13.06	2.912	3.01686
2566	493030.5	3860343.11	3.25479	2.92768	6.23036	7.76616	11.11	12.9	2.8197	2.92768
2567	493080.5	3860343.11	3.25916	2.99511	6.00703	7.73091	11.11	12.63	2.8744	2.99511
2568	493130.5	3860343.11	3.20931	2.83433	6.04565	7.26421	10.9	13.4	2.7029	2.83433
2569	493180.5	3860343.11	3.13769	2.68976	6.16521	6.67215	10.58	13.66	2.5561	2.68976
2570	493230.5	3860343.11	3.09969	2.61979	6.13979	6.33865	10.36	13.66	2.4755	2.61979
2571	493280.5	3860343.11	3.08849	2.5511	6.00578	6.16421	10.21	13.87	2.3908	2.5511
2572	493330.5	3860343.11	3.06948	2.56464	5.89802	5.93701	9.995	14.1	2.3863	2.56464
2573	493380.5	3860343.11	3.03822	2.51327	5.83676	5.66994	9.721	14.23	2.3259	2.51327
2574	492880.5	3860393.11	3.38951	3.38557	5.7769	7.92018	10.68	20.11	3.3082	3.38557
2575	492930.5	3860393.11	3.34708	3.29848	5.86795	7.90253	10.8	17.51	3.212	3.29848
2576	492980.5	3860393.11	3.3172	3.19302	6.02731	7.81742	10.91	15.14	3.0993	3.19302
2577	493030.5	3860393.11	3.28109	3.0826	6.1174	7.73515	10.95	13.48	2.9881	3.0826
2578	493080.5	3860393.11	3.27526	3.09732	5.94902	7.96233	11.03	11.97	3.0051	3.09732
2579	493130.5	3860393.11	3.20565	2.93135	5.95624	7.5508	10.86	11.75	2.8341	2.93135
2580	493180.5	3860393.11	3.13586	2.8409	6.00541	7.116	10.62	11.54	2.7226	2.8409
2581	493230.5	3860393.11	3.10408	2.75855	5.9976	6.90216	10.45	11.38	2.6353	2.75855
2582	493280.5	3860393.11	3.09426	2.6894	5.89903	6.70792	10.32	11.24	2.5758	2.6894
2583	493330.5	3860393.11	3.0749	2.63811	5.82598	6.53526	10.17	11.23	2.4979	2.63811
2584	493380.5	3860393.11	3.04629	2.56731	5.78372	6.30712	9.959	11.25	2.4181	2.56731
2585	492880.5	3860443.11	3.41762	3.45016	5.61234	6.83914	10.24	23.34	3.4026	3.45016
2586	492930.5	3860443.11	3.36414	3.37249	5.54275	6.7734	10.38	21.93	3.3134	3.37249
2587	492980.5	3860443.11	3.32757	3.30078	5.59207	6.91134	10.53	19.5	3.2359	3.30078
2588	493030.5	3860443.11	3.29309	3.21379	5.70924	7.00708	10.65	17.06	3.1409	3.21379
2589	493080.5	3860443.11	3.2478	3.1283	5.75377	7.02027	10.67	15.01	3.0476	3.1283
2590	493130.5	3860443.11	3.204	3.04561	5.79184	6.98068	10.66	13.46	2.9585	3.04561
2591	493180.5	3860443.11	3.13624	2.98482	5.66083	6.88334	10.51	12.49	2.8865	2.98482
2592	493230.5	3860443.11	3.11141	2.8893	5.78759	6.80116	10.49	11.65	2.7884	2.8893
2593	493280.5	3860443.11	3.08688	2.79771	5.78164	6.82604	10.38	11.1	2.6981	2.79771
2594	493330.5	3860443.11	3.07624	2.76234	5.6726	6.76849	10.27	10.68	2.6596	2.76234
2595	493380.5	3860443.11	3.03881	2.66547	5.65486	6.52805	10.06	10.44	2.563	2.66547
2596	493180.5	3860493.11	3.15886	3.06643	5.38332	6.19522	10.38	13.75	2.9964	3.06643
2597	493230.5	3860493.11	3.12398	2.99156	5.47122	6.25618	10.38	12.87	2.9138	2.99156
2598	493280.5	3860493.11	3.09194	2.91475	5.55943	6.26728	10.35	12.12	2.8314	2.91475
2599	493330.5	3860493.11	3.05486	2.83504	5.60114	6.29037	10.26	11.45	2.7496	2.83504
2600	493380.5	3860493.11	3.01757	2.77328	5.55832	6.19759	10.09	10.76	2.6779	2.77328
2601	493330.5	3860543.11	3.06316	2.91639	5.27026	5.55665	10.19	11.29	2.8489	2.91639
2602	493380.5	3860543.11	3.01283	2.85871	5.25295	5.62061	10.07	10.87	2.784	2.85871
2603	494135.94	3860876.85	2.49574	2.32489	3.86953	3.48067	8.174	5.21	2.2758	2.32489
2604	494185.94	3860876.85	2.47317	2.29164	3.82303	3.43167	8.042	5.072	2.2473	2.29164
2605	494135.94	3860926.85	2.48191	2.34035	3.81244	3.40303	8.16	4.913	2.2647	2.34035
2606	494185.94	3860926.85	2.45984	2.30451	3.78242	3.35704	8.078	4.786	2.2407	2.30451
2607	494135.94	3860976.85	2.48637	2.37412	3.86871	3.41395	8.146	4.666	2.303	2.37412
2608	494185.94	3860976.85	2.45354	2.32608	3.7941	3.32027	8.057	4.515	2.2603	2.32608
2609	494135.94	3861026.85	2.51996	2.50715	3.9989	3.56486	8.068	4.595	2.392	2.50715
2610	494185.94	3861026.85	2.47873	2.45781	3.89922	3.46603	8.022	4.415	2.3582	2.45781
2611	494135.94	3861076.85	2.57519	2.65638	4.10809	3.61549	7.932	4.447	2.5247	2.65638
2612	494185.94	3861076.85	2.53192	2.60336	4.01931	3.55264	7.922	4.327	2.4814	2.60336
2613	490360.04	3858710.04	4.41829	2.10996	11.90314	9.08624	25.57	4.975	2.1147	2.10996
2614	490410.04	3858710.04	4.37484	2.01834	14.13718	9.14751	25.17	4.832	2.0329	2.01834
2615	490460.04	3858710.04	4.34768	1.91144	13.39527	8.96013	24.73	4.606	1.9398	1.91144
2616	490510.04	3858710.04	4.32582	1.83965	10.23008	8.34355	24.05	4.456	1.8656	1.83965
2617	490560.04	3858710.04	4.30839	1.77954	8.46028	8.15996	23.23	4.334	1.82	1.77954
2618	490610.04	3858710.04	4.29494	1.71611	8.75682	8.43293	22.35	4.202	1.7846	1.71611

31.5669516	4.447156918	0.0006018	0.271716	4.397154	3.21133	15.37863	1.64E+01	4.29E+01
35.0295022	6.022067378	0.0006361	0.447297	5.180741	2.1526	22.31499	2.22E+01	4.90E+01
34.5332722	5.840939377	0.0006379	0.431769	5.188544	2.0013	21.5531	2.15E+01	4.80E+01
34.4756778	5.571916184	0.0006503	0.428878	5.249217	1.83667	20.63285	2.05E+01	4.77E+01
33.9597279	5.407207352	0.0006486	0.409075	5.207413	1.81513	19.9788	1.99E+01	4.69E+01
34.0053234	5.53174555	0.0006254	0.407219	5.21124	1.77744	20.36595	2.04E+01	4.69E+01
33.4852	5.234796841	0.0006294	0.382636	5.109531	1.88512	19.15102	1.93E+01	4.60E+01
32.7379335	4.967786796	0.0006418	0.351449	4.960016	1.92222	18.11054	1.83E+01	4.48E+01
32.3414503	4.838557407	0.0006392	0.333883	4.856488	1.92194	17.53953	1.78E+01	4.40E+01
32.224592	4.711692082	0.0006252	0.324694	4.785785	1.95061	16.93947	1.73E+01	4.36E+01
32.0262461	4.736699456	0.000614	0.312727	4.686641	1.98389	16.90787	1.74E+01	4.32E+01
31.7000865	4.641822884	0.0006076	0.298659	4.558176	2.00191	16.47984	1.71E+01	4.26E+01
35.3653653	6.252896148	0.0006014	0.417188	5.009018	2.82952	23.43979	2.30E+01	5.03E+01
34.9226604	6.092047391	0.0006109	0.416258	5.062545	2.46289	22.75811	2.24E+01	4.93E+01
34.6108994	5.89727061	0.0006275	0.411775	5.11619	2.1298	21.95938	2.17E+01	4.84E+01
34.234136	5.693333077	0.0006369	0.407442	5.133019	1.89686	21.17205	2.10E+01	4.76E+01
34.1733071	5.720519823	0.0006193	0.419408	5.173145	1.68334	21.29215	2.11E+01	4.74E+01
33.4470125	5.413985569	0.0006201	0.397731	5.09386	1.65356	20.08076	1.99E+01	4.62E+01
32.7188397	5.246931142	0.0006252	0.374829	4.98033	1.62341	19.29039	1.93E+01	4.49E+01
32.3872545	5.094836813	0.0006244	0.363565	4.901242	1.60098	18.67198	1.88E+01	4.43E+01
32.2847949	4.967121903	0.0006141	0.353333	4.838777	1.58069	18.25076	1.83E+01	4.40E+01
32.0827971	4.872393085	0.0006065	0.344239	4.767558	1.5797	17.69845	1.79E+01	4.34E+01
31.784287	4.741630748	0.0006021	0.332222	4.669886	1.58252	17.13339	1.75E+01	4.28E+01
35.6586585	6.372189077	0.0005843	0.360245	4.803721	3.28305	24.10858	2.35E+01	5.11E+01
35.1006605	6.22873836	0.000577	0.356783	4.865318	3.08567	23.47692	2.29E+01	5.02E+01
34.7190976	6.09629532	0.0005822	0.364048	4.939473	2.74336	22.92731	2.24E+01	4.93E+01
34.3593412	5.935631256	0.0005944	0.369091	4.994074	2.39982	22.25448	2.19E+01	4.85E+01
33.8867958	5.77773758	0.000599	0.369786	5.005637	2.11132	21.59313	2.13E+01	4.75E+01
33.4297967	5.625015297	0.000603	0.367701	4.999246	1.89396	20.96218	2.07E+01	4.66E+01
32.7228045	5.512740685	0.0005893	0.362574	4.928298	1.75653	20.45168	2.03E+01	4.54E+01
32.463734	5.336322345	0.0006025	0.358245	4.917842	1.63944	19.75675	1.96E+01	4.48E+01
32.2077937	5.167162423	0.0006019	0.359555	4.868558	1.5612	19.11694	1.90E+01	4.43E+01
32.0967784	5.101836661	0.0005906	0.356524	4.816391	1.50258	18.8443	1.88E+01	4.39E+01
31.7062424	4.922924972	0.0005887	0.343859	4.715864	1.46808	18.15964	1.81E+01	4.32E+01
32.9588164	5.663468289	0.0005604	0.326327	4.866561	1.93492	21.23086	2.09E+01	4.61E+01
32.5948865	5.525188964	0.0005696	0.329538	4.867888	1.81071	20.64547	2.03E+01	4.54E+01
32.2605885	5.383326603	0.0005788	0.330123	4.854078	1.70445	20.06135	1.98E+01	4.48E+01
31.8737044	5.236108158	0.0005831	0.331339	4.812363	1.61013	19.48162	1.93E+01	4.41E+01
31.4846291	5.122042028	0.0005787	0.326452	4.732342	1.51379	18.97382	1.89E+01	4.33E+01
31.9603047	5.386355561	0.0005487	0.292691	4.775975	1.58771	20.18541	1.98E+01	4.44E+01
31.4351731	5.279824889	0.0005469	0.29606	4.722246	1.52897	19.72529	1.94E+01	4.35E+01
26.0399753	4.293899026	0.0004028	0.183341	3.832917	0.73286	16.12486	1.58E+01	3.54E+01
25.8044851	4.232488748	0.000398	0.18076	3.771114	0.71357	15.92307	1.56E+01	3.50E+01
25.8956763	4.322452497	0.0003969	0.179251	3.826174	0.69117	16.04593	1.59E+01	3.50E+01
25.665403	4.256258681	0.0003938	0.176829	3.787699	0.67326	15.87631	1.57E+01	3.48E+01
25.9422109	4.384823177	0.0004028	0.179827	3.819595	0.65645	16.31773	1.61E+01	3.52E+01
25.5996702	4.296096868	0.000395	0.174892	3.777941	0.63518	16.01469	1.58E+01	3.47E+01
26.2926812	4.630519699	0.0004163	0.187776	3.783282	0.64636	16.9479	1.70E+01	3.54E+01
25.8624969	4.539392387	0.0004059	0.18257	3.76167	0.62109	16.70877	1.67E+01	3.50E+01
26.8689383	4.906136417	0.0004277	0.190443	3.719326	0.62558	17.88827	1.81E+01	3.61E+01
26.4174691	4.808212418	0.0004184	0.187132	3.714764	0.60876	17.58176	1.77E+01	3.56E+01
46.0994184	3.896939291	0.0012392	0.478609	11.99009	0.69979	14.98355	1.43E+01	6.38E+01
45.6460711	3.727723961	0.0014718	0.481837	11.8038	0.67968	14.40383	1.37E+01	6.30E+01
45.36269	3.530287607	0.0013945	0.471967	11.59862	0.64801	13.74418	1.30E+01	6.24E+01
45.1346078	3.397696813	0.001065	0.439489	11.27643	0.6269	13.21809	1.25E+01	6.16E+01
44.9527472	3.286678111	0.0008808	0.429818	10.89317	0.60973	12.89507	1.21E+01	6.10E+01
44.812413	3.169527615	0.0009116	0.444197	10.47947	0.59106	12.64432	1.17E+01	6.05E+01

2619	490660.04	3858710.04	4.26819	1.68312	9.40326	8.69696	21.34	4.144	1.7578	1.68312
2620	490710.04	3858710.04	4.26719	1.60525	9.23421	9.00714	20.4	3.969	1.7293	1.60525
2621	490760.04	3858710.04	4.26155	1.5405	8.80677	9.03496	19.6	3.824	1.7021	1.5405
2622	490810.04	3858710.04	4.26088	1.47743	8.63136	8.55331	18.9	3.68	1.6765	1.47743
2623	490860.04	3858710.04	4.27217	1.40095	9.34257	8.20029	18.19	3.486	1.6503	1.40095
2624	490360.04	3858760.04	4.46609	2.21999	14.6188	8.54567	26.07	5.012	2.177	2.21999
2625	490410.04	3858760.04	4.42114	2.10662	14.26787	8.30526	25.48	4.841	2.079	2.10662
2626	490460.04	3858760.04	4.38297	2.00976	10.87842	7.79677	24.88	4.642	1.9865	2.00976
2627	490510.04	3858760.04	4.34943	1.90938	8.82047	7.83238	24.49	4.43	1.9004	1.90938
2628	490560.04	3858760.04	4.30974	1.83159	9.0551	8.08324	23.9	4.276	1.8527	1.83159
2629	490610.04	3858760.04	4.29893	1.74882	9.57327	8.15269	23.22	4.108	1.8112	1.74882
2630	490660.04	3858760.04	4.29107	1.67865	9.61526	8.34773	22.42	3.965	1.7731	1.67865
2631	490710.04	3858760.04	4.28529	1.61129	9.01461	8.5175	21.55	3.819	1.7366	1.61129
2632	490760.04	3858760.04	4.28856	1.53271	9.78765	8.24603	20.65	3.636	1.7053	1.53271
2633	490810.04	3858760.04	4.29023	1.46177	10.72723	7.79435	19.71	3.484	1.6778	1.46177
2634	490860.04	3858760.04	4.28708	1.40262	10.85687	7.59149	18.9	3.359	1.6513	1.40262
2635	490360.04	3858810.04	4.51871	2.30813	15.22302	7.86355	26.14	4.955	2.2191	2.30813
2636	490410.04	3858810.04	4.47603	2.18835	11.54558	7.36572	25.9	4.759	2.1193	2.18835
2637	490460.04	3858810.04	4.43799	2.08224	9.58582	7.4695	25.46	4.551	2.0082	2.08224
2638	490510.04	3858810.04	4.39332	2.00083	9.52439	7.751	24.76	4.404	1.9416	2.00083
2639	490560.04	3858810.04	4.3535	1.91489	10.30455	7.8333	24.11	4.244	1.894	1.91489
2640	490610.04	3858810.04	4.32755	1.80568	10.18396	7.87384	23.68	4.019	1.845	1.80568
2641	490660.04	3858810.04	4.29489	1.72303	10.20736	8.09664	23.08	3.85	1.7992	1.72303
2642	490710.04	3858810.04	4.2921	1.63811	11.43103	7.89248	22.39	3.657	1.7567	1.63811
2643	490760.04	3858810.04	4.30943	1.53683	11.88216	7.64657	21.64	3.419	1.7172	1.53683
2644	490810.04	3858810.04	4.29573	1.49189	11.76607	7.36723	20.75	3.349	1.6882	1.49189
2645	490860.04	3858810.04	4.30559	1.41424	10.87969	6.99169	19.86	3.181	1.6554	1.41424
2646	490360.04	3858860.04	4.57958	2.37846	12.24934	7.05332	25.67	4.842	2.2435	2.37846
2647	490410.04	3858860.04	4.52172	2.30218	10.5216	7.09941	25.66	4.723	2.1688	2.30218
2648	490460.04	3858860.04	4.48863	2.17684	10.43899	7.35992	25.59	4.477	2.0539	2.17684
2649	490510.04	3858860.04	4.43504	2.10927	11.20162	7.53288	25.16	4.371	1.9862	2.10927
2650	490560.04	3858860.04	4.40279	1.99948	10.74035	7.53134	24.65	4.161	1.9306	1.99948
2651	490610.04	3858860.04	4.38816	1.8652	11.72414	7.65125	24.01	3.872	1.8722	1.8652
2652	490660.04	3858860.04	4.35545	1.77938	12.94813	7.56523	23.38	3.701	1.8286	1.77938
2653	490710.04	3858860.04	4.31579	1.71368	13.01907	7.36361	22.84	3.581	1.7919	1.71368
2654	490760.04	3858860.04	4.30335	1.60492	12.24858	6.98915	22.25	3.341	1.7463	1.60492
2655	490810.04	3858860.04	4.31574	1.50757	10.70918	6.85469	21.55	3.147	1.7025	1.50757
2656	490860.04	3858860.04	4.3311	1.41073	8.93355	6.36051	20.75	2.959	1.6727	1.41073
2657	490360.04	3858910.04	4.65063	2.55425	11.5537	6.91536	24.38	5.042	2.3423	2.55425
2658	490410.04	3858910.04	4.5826	2.43452	11.44133	7.12245	24.8	4.833	2.2416	2.43452
2659	490460.04	3858910.04	4.53163	2.31742	12.01933	7.23914	25.03	4.607	2.1378	2.31742
2660	490510.04	3858910.04	4.49152	2.19259	11.88939	7.21456	25.06	4.364	2.032	2.19259
2661	490560.04	3858910.04	4.46492	2.06053	13.64132	7.11899	24.89	4.105	1.9614	2.06053
2662	490610.04	3858910.04	4.44262	1.93602	14.14676	7.29212	24.51	3.846	1.9061	1.93602
2663	490660.04	3858910.04	4.41238	1.83954	13.63249	7.02665	23.91	3.653	1.8604	1.83954
2664	490710.04	3858910.04	4.39211	1.73036	12.08477	6.87432	23.18	3.434	1.8142	1.73036
2665	490760.04	3858910.04	4.38416	1.60486	9.95371	6.56884	22.59	3.202	1.7625	1.60486
2666	490810.04	3858910.04	4.35977	1.52012	8.53462	6.31461	22.03	3.05	1.7256	1.52012
2667	490860.04	3858910.04	4.36402	1.40185	7.86448	5.84999	21.35	2.847	1.6929	1.40185
2668	490360.04	3858960.04	4.79426	2.66201	12.54155	6.9335	23.16	5.161	2.419	2.66201
2669	490410.04	3858960.04	4.71923	2.51839	12.6184	7.00403	23.52	4.893	2.2922	2.51839
2670	490460.04	3858960.04	4.65172	2.37158	13.85347	6.90762	24.1	4.602	2.1745	2.37158
2671	490510.04	3858960.04	4.59888	2.24105	15.3604	6.85008	24.44	4.348	2.0679	2.24105
2672	490560.04	3858960.04	4.54904	2.11821	15.07143	6.93438	24.56	4.101	1.9911	2.11821
2673	490610.04	3858960.04	4.51907	1.96332	13.52337	6.79921	24.51	3.779	1.928	1.96332
2674	490660.04	3858960.04	4.47099	1.89485	11.34194	6.61086	24.17	3.655	1.891	1.89485
2675	490710.04	3858960.04	4.46273	1.75142	9.69579	6.25304	23.73	3.394	1.8355	1.75142

44.5333096	3.108597537	0.0009789	0.458104	10.00907	0.58299	12.45451	1.14E+01	5.97E+01
44.5228759	2.964777435	0.0009613	0.474443	9.568123	0.55833	12.25264	1.09E+01	5.94E+01
44.4640294	2.845188998	0.0009168	0.475908	9.189292	0.53798	12.06021	1.05E+01	5.91E+01
44.4570388	2.728703396	0.0008986	0.450538	8.860795	0.51766	11.87882	1.00E+01	5.88E+01
44.5748361	2.587450521	0.0009726	0.431943	8.528562	0.49037	11.69304	9.53E+00	5.88E+01
46.5981526	4.100156523	0.0015219	0.450135	12.22525	0.70504	15.42483	1.51E+01	6.44E+01
46.1291547	3.89077056	0.0014854	0.437472	11.94723	0.68099	14.73032	1.43E+01	6.35E+01
45.7308977	3.711877339	0.0011325	0.410688	11.66492	0.65296	14.07521	1.37E+01	6.26E+01
45.3809491	3.52648294	0.0009183	0.412563	11.4824	0.62324	13.46481	1.30E+01	6.19E+01
44.9668328	3.382810592	0.0009427	0.425777	11.207	0.6016	13.12698	1.25E+01	6.13E+01
44.8540437	3.229940554	0.0009966	0.429435	10.88626	0.57786	12.83308	1.19E+01	6.09E+01
44.7720343	3.10034178	0.001001	0.439709	10.51301	0.55774	12.56319	1.14E+01	6.05E+01
44.7117271	2.975932866	0.0009385	0.448651	10.10736	0.53729	12.30408	1.10E+01	6.01E+01
44.7458455	2.830801447	0.001019	0.434352	9.685334	0.51154	12.08274	1.04E+01	5.99E+01
44.7632699	2.69978054	0.0011168	0.41056	9.240639	0.49012	11.88761	9.94E+00	5.96E+01
44.7304036	2.590534886	0.0011303	0.399875	8.86291	0.47254	11.69977	9.54E+00	5.92E+01
47.1471775	4.262944552	0.0015848	0.414205	12.25818	0.69698	15.72327	1.57E+01	6.48E+01
46.7018643	4.041719795	0.001202	0.387982	12.14524	0.6695	15.01629	1.49E+01	6.41E+01
46.3049637	3.845742512	0.0009979	0.393449	11.93653	0.64028	14.22868	1.42E+01	6.32E+01
45.8388872	3.695384293	0.0009915	0.408277	11.60973	0.61951	13.75701	1.36E+01	6.23E+01
45.4234145	3.536659501	0.0010728	0.412612	11.30677	0.59703	13.41974	1.30E+01	6.17E+01
45.1526582	3.334956748	0.0010602	0.414747	11.10332	0.56542	13.07256	1.23E+01	6.14E+01
44.8118913	3.182308341	0.0010626	0.426483	10.82215	0.54161	12.74784	1.17E+01	6.08E+01
44.7827811	3.025467413	0.00119	0.415729	10.49899	0.51451	12.44707	1.11E+01	6.05E+01
44.9635983	2.838410781	0.001237	0.402776	10.14518	0.48097	12.16712	1.05E+01	6.05E+01
44.8206557	2.755409941	0.0012249	0.388062	9.731119	0.47113	11.96115	1.01E+01	6.00E+01
44.9235326	2.611996163	0.0011326	0.368281	9.31281	0.44745	11.72925	9.62E+00	5.98E+01
47.7822811	4.392838834	0.0012752	0.371527	12.03915	0.68118	15.89565	1.62E+01	6.50E+01
47.1785832	4.251955344	0.0010954	0.373955	12.03255	0.66435	15.36645	1.57E+01	6.42E+01
46.8333297	4.02046168	0.0010868	0.387677	11.99778	0.6298	14.55262	1.48E+01	6.36E+01
46.2741841	3.895664913	0.0011662	0.396787	11.79577	0.61492	14.07301	1.43E+01	6.27E+01
45.937695	3.692890943	0.0011181	0.396706	11.55698	0.58532	13.67879	1.36E+01	6.23E+01
45.7850489	3.444885764	0.0012206	0.403023	11.25978	0.54472	13.26543	1.27E+01	6.20E+01
45.4437604	3.286382603	0.001348	0.398491	10.96411	0.52064	12.95636	1.21E+01	6.15E+01
45.0299571	3.165039586	0.0013554	0.387871	10.71035	0.50372	12.69597	1.17E+01	6.08E+01
44.900161	2.96416795	0.0012752	0.368147	10.43385	0.47002	12.37338	1.09E+01	6.06E+01
45.0294354	2.784369736	0.0011149	0.361064	10.10531	0.44266	12.06247	1.03E+01	6.05E+01
45.1896981	2.605513454	0.00093	0.335034	9.729628	0.41631	11.8519	9.59E+00	6.05E+01
48.5236004	4.717509898	0.0012028	0.36426	11.42996	0.70922	16.59625	1.74E+01	6.50E+01
47.813791	4.496377488	0.0011911	0.375168	11.63114	0.67991	15.88226	1.66E+01	6.43E+01
47.2819818	4.280102491	0.0012513	0.381315	11.73903	0.64804	15.14716	1.58E+01	6.37E+01
46.8634833	4.04955076	0.0012378	0.38002	11.75188	0.6139	14.39731	1.49E+01	6.31E+01
46.5859451	3.805645755	0.0014201	0.374986	11.67027	0.5775	13.89744	1.40E+01	6.29E+01
46.353272	3.57568504	0.0014728	0.384106	11.49267	0.5411	13.50534	1.32E+01	6.27E+01
46.0377548	3.397493651	0.0014192	0.370122	11.2128	0.51386	13.18189	1.25E+01	6.22E+01
45.8262623	3.195846306	0.0012581	0.362098	10.868	0.48314	12.85433	1.18E+01	6.18E+01
45.7433139	2.964057134	0.0010362	0.346008	10.59172	0.45043	12.48795	1.09E+01	6.17E+01
45.4888342	2.807548653	0.0008885	0.332616	10.3283	0.42905	12.2265	1.03E+01	6.13E+01
45.5331778	2.589112754	0.0008187	0.308143	10.00999	0.40048	11.99467	9.53E+00	6.13E+01
50.0222026	4.916534609	0.0013057	0.365216	10.86161	0.72609	17.13956	1.81E+01	6.59E+01
49.2393569	4.651279144	0.0013137	0.368931	11.02708	0.68835	16.24085	1.71E+01	6.51E+01
48.5349732	4.380131986	0.0014422	0.363852	11.30168	0.6474	15.40676	1.61E+01	6.45E+01
47.9836528	4.139052778	0.0015991	0.360822	11.45971	0.61164	14.65175	1.52E+01	6.40E+01
47.4636337	3.912176428	0.001569	0.365262	11.51563	0.57692	14.10731	1.44E+01	6.35E+01
47.1509337	3.626106111	0.0014079	0.358142	11.4929	0.5316	13.66058	1.34E+01	6.35E+01
46.6492781	3.49964711	0.0011808	0.348221	11.33499	0.51422	13.3987	1.29E+01	6.29E+01
46.5630951	3.234742561	0.0010094	0.329373	11.12658	0.47742	13.00504	1.19E+01	6.28E+01

2676	490760.04	3858960.04	4.44932	1.63122	9.37651	6.15031	23.1	3.175	1.7896	1.63122
2677	490810.04	3858960.04	4.43897	1.51364	10.12327	5.82342	22.28	2.966	1.7412	1.51364
2678	490860.04	3858960.04	4.44094	1.37986	10.67686	5.42902	21.64	2.784	1.7084	1.37986
2679	490360.04	3859010.04	4.94881	2.76204	13.913	6.9709	21.92	5.308	2.497	2.76204
2680	490410.04	3859010.04	4.87636	2.592	16.53186	6.85639	22.5	4.981	2.3446	2.592
2681	490460.04	3859010.04	4.81783	2.39625	16.78871	6.67202	22.88	4.597	2.1973	2.39625
2682	490510.04	3859010.04	4.76085	2.21905	15.49161	6.63143	23.35	4.241	2.065	2.21905
2683	490560.04	3859010.04	4.68555	2.12936	13.20443	6.55036	23.73	4.057	2.0047	2.12936
2684	490610.04	3859010.04	4.65189	1.96758	11.2049	6.31803	23.97	3.764	1.9436	1.96758
2685	490660.04	3859010.04	4.58629	1.90406	11.4473	6.16553	23.94	3.639	1.9084	1.90406
2686	490710.04	3859010.04	4.56104	1.74412	12.39738	5.89727	23.78	3.347	1.8506	1.74412
2687	490760.04	3859010.04	4.53535	1.60762	13.45611	5.68791	23.39	3.113	1.8001	1.60762
2688	490810.04	3859010.04	4.53039	1.47462	13.36065	5.41965	22.82	2.889	1.7494	1.47462
2689	490860.04	3859010.04	4.52084	1.36125	12.36775	5.0826	22.11	2.749	1.7243	1.36125
2690	490360.04	3859060.04	5.1178	2.82997	19.10025	6.92997	20.56	5.517	2.5487	2.82997
2691	490410.04	3859060.04	5.06123	2.58923	18.11116	6.59195	21.21	5.049	2.3534	2.58923
2692	490460.04	3859060.04	4.99485	2.40606	15.54511	6.42061	21.84	4.676	2.2141	2.40606
2693	490510.04	3859060.04	4.92516	2.25335	13.25947	6.3692	22.24	4.357	2.0969	2.25335
2694	490560.04	3859060.04	4.86992	2.07129	13.62818	6.12737	22.45	4.006	2.0073	2.07129
2695	490610.04	3859060.04	4.79639	1.96218	15.44173	5.9915	22.92	3.793	1.9563	1.96218
2696	490660.04	3859060.04	4.73638	1.86458	16.81479	5.6583	23.21	3.598	1.9097	1.86458
2697	490710.04	3859060.04	4.71302	1.6937	15.99055	5.53332	23.31	3.303	1.8545	1.6937
2698	490760.04	3859060.04	4.68464	1.54943	14.0372	5.3286	23.18	3.074	1.7998	1.54943
2699	490810.04	3859060.04	4.66004	1.40747	12.06512	5.04934	22.88	2.867	1.7624	1.40747
2700	490860.04	3859060.04	4.62939	1.28968	10.75563	4.82142	24.32	2.735	1.7566	1.28968
2701	490360.04	3859110.04	5.2776	2.95413	18.48564	6.95146	19.14	5.849	2.6301	2.95413
2702	490410.04	3859110.04	5.22078	2.68976	16.01339	6.47285	19.9	5.338	2.42	2.68976
2703	490460.04	3859110.04	5.14484	2.52181	17.28416	6.34653	20.39	4.987	2.2895	2.52181
2704	490510.04	3859110.04	5.11094	2.22859	19.4497	6.06851	21.05	4.4	2.1027	2.22859
2705	490560.04	3859110.04	5.04696	2.06113	20.01991	5.83856	21.52	4.076	2.0226	2.06113
2706	490610.04	3859110.04	4.99243	1.88317	18.23192	5.63506	21.79	3.773	1.9582	1.88317
2707	490660.04	3859110.04	4.94928	1.69094	15.30218	5.36905	21.99	3.451	1.8927	1.69094
2708	490710.04	3859110.04	4.8833	1.59053	14.01858	5.22832	22.34	3.259	1.846	1.59053
2709	490760.04	3859110.04	4.85033	1.4576	12.149	5.023	22.5	3.029	1.7989	1.4576
2710	490810.04	3859110.04	4.83126	1.30225	10.98663	4.73541	24.37	2.826	1.8006	1.30225
2711	490860.04	3859110.04	4.80998	1.17192	9.56727	4.653	24.55	2.675	1.7971	1.17192
2712	490360.04	3859160.04	5.42648	3.12395	20.9552	7.03067	17.64	6.261	2.738	3.12395
2713	490410.04	3859160.04	5.36641	2.84889	24.50424	6.59257	18.37	5.728	2.5413	2.84889
2714	490460.04	3859160.04	5.30314	2.61542	24.71157	6.20812	19.13	5.254	2.3523	2.61542
2715	490510.04	3859160.04	5.24573	2.38243	22.29064	5.93229	19.7	4.782	2.198	2.38243
2716	490560.04	3859160.04	5.20701	2.10885	19.77186	5.70225	20.17	4.255	2.0537	2.10885
2717	490610.04	3859160.04	5.1434	1.94499	17.2274	5.42466	20.7	3.97	1.9931	1.94499
2718	490660.04	3859160.04	5.14549	1.60634	14.22611	5.19202	21	3.441	1.8974	1.60634
2719	490710.04	3859160.04	5.07909	1.49128	12.86199	5.05474	21.12	3.231	1.8499	1.49128
2720	490760.04	3859160.04	5.0552	1.28035	11.09919	4.76877	22.98	2.941	1.851	1.28035
2721	490810.04	3859160.04	5.00815	1.19378	10.50959	4.59908	23.59	2.792	1.8424	1.19378
2722	490860.04	3859160.04	4.9723	1.1235	9.59811	4.56746	23.97	2.65	1.8294	1.1235
2723	490360.04	3859210.04	5.56519	3.32035	26.26683	7.32147	16.06	6.703	2.8576	3.32035
2724	490410.04	3859210.04	5.47781	3.13382	24.7796	6.89333	16.82	6.327	2.7529	3.13382
2725	490460.04	3859210.04	5.44718	2.73066	23.60466	6.17033	17.62	5.538	2.431	2.73066
2726	490510.04	3859210.04	5.3978	2.46531	22.21696	5.9133	18.37	5.01	2.2586	2.46531
2727	490560.04	3859210.04	5.32775	2.28369	20.52815	5.67281	18.95	4.64	2.1364	2.28369
2728	490610.04	3859210.04	5.282	2.03993	19.26586	5.45257	19.37	4.2	2.0365	2.03993
2729	490660.04	3859210.04	5.27141	1.68482	16.54295	5.17773	19.82	3.649	1.9363	1.68482
2730	490710.04	3859210.04	5.21454	1.48445	15.11207	4.97314	20.19	3.312	1.8779	1.48445
2731	490760.04	3859210.04	5.20618	1.31869	12.12589	4.66726	22.12	3.052	1.8822	1.31869
2732	490810.04	3859210.04	5.10968	1.28895	11.61151	4.58013	22.29	2.968	1.8519	1.28895

46.4231783	3.012742095	0.0009762	0.323962	10.83025	0.44666	12.67968	1.11E+01	6.26E+01
46.3151888	2.795580575	0.0010539	0.306743	10.4486	0.41727	12.33724	1.03E+01	6.23E+01
46.3357433	2.548498858	0.0011115	0.285969	10.14605	0.3917	12.10442	9.38E+00	6.24E+01
51.6347417	5.101282584	0.0014484	0.367186	10.27846	0.74671	17.69229	1.88E+01	6.70E+01
50.8788151	4.787231342	0.0017211	0.361154	10.54867	0.70074	16.61212	1.76E+01	6.63E+01
50.2681266	4.425695642	0.0017478	0.351442	10.73043	0.64675	15.56888	1.63E+01	6.57E+01
49.6736104	4.098420413	0.0016128	0.349304	10.94824	0.59663	14.63106	1.51E+01	6.52E+01
48.8879476	3.932769649	0.0013747	0.345034	11.12591	0.57077	14.20409	1.45E+01	6.46E+01
48.5367469	3.633974014	0.0011665	0.332796	11.24052	0.5295	13.77097	1.34E+01	6.47E+01
47.8522917	3.516657295	0.0011917	0.324764	11.22502	0.51188	13.5217	1.29E+01	6.40E+01
47.588839	3.221260003	0.0012906	0.310633	11.15095	0.47085	13.11181	1.19E+01	6.40E+01
47.3207954	2.969154649	0.0014009	0.299605	10.96739	0.43791	12.75443	1.09E+01	6.38E+01
47.269044	2.723513535	0.0013909	0.285475	10.70044	0.40643	12.39506	1.00E+01	6.38E+01
47.1694015	2.514127571	0.0012876	0.267721	10.36876	0.38678	12.21757	9.26E+00	6.37E+01
53.3979444	5.226744245	0.0019885	0.36503	9.641358	0.77611	18.05874	1.92E+01	6.82E+01
52.807706	4.782115358	0.0018855	0.347225	9.943788	0.71032	16.67469	1.76E+01	6.77E+01
52.1151124	4.443813983	0.0016183	0.3382	10.243	0.65776	15.68777	1.64E+01	6.71E+01
51.387983	4.161769964	0.0013804	0.335492	10.43042	0.61293	14.85708	1.53E+01	6.65E+01
50.8116216	3.825518676	0.0014188	0.322754	10.52793	0.56358	14.22244	1.41E+01	6.62E+01
50.0444266	3.624000616	0.0016076	0.315597	10.74833	0.53352	13.86102	1.33E+01	6.58E+01
49.4182961	3.44374067	0.0017505	0.298046	10.88236	0.50617	13.53098	1.27E+01	6.54E+01
49.1745632	3.128138011	0.0016647	0.291463	10.92916	0.46459	13.13945	1.15E+01	6.56E+01
48.8784529	2.861682044	0.0014614	0.280679	10.87182	0.43246	12.75188	1.05E+01	6.55E+01
48.6217821	2.599492476	0.0012561	0.265969	10.73095	0.40333	12.48689	9.57E+00	6.55E+01
48.3019871	2.381943101	0.0011197	0.253964	11.40346	0.38471	12.446	8.77E+00	6.64E+01
55.0652607	5.456058536	0.0019245	0.366162	8.974016	0.82284	18.63492	2.01E+01	6.92E+01
54.4724139	4.967786796	0.0016671	0.340951	9.333822	0.75088	17.14622	1.83E+01	6.87E+01
53.6800735	4.65759563	0.0017994	0.334298	9.560625	0.70154	16.22215	1.71E+01	6.80E+01
53.3263687	4.116040084	0.0020248	0.319653	9.87231	0.61893	14.89803	1.52E+01	6.80E+01
52.6588161	3.806753911	0.0020842	0.307541	10.09259	0.57342	14.33092	1.40E+01	6.78E+01
52.0898627	3.478075018	0.0018981	0.296822	10.21895	0.53083	13.87427	1.28E+01	6.77E+01
51.6396456	3.123040496	0.0015931	0.28281	10.31386	0.48542	13.41025	1.15E+01	6.78E+01
50.9512255	2.937590689	0.0014594	0.275397	10.47531	0.45849	13.07943	1.08E+01	6.74E+01
50.6072241	2.69207886	0.0012648	0.264582	10.54977	0.42613	12.74614	9.91E+00	6.74E+01
50.4082521	2.405158957	0.0011438	0.249433	11.42917	0.39761	12.75769	8.86E+00	6.88E+01
50.1862215	2.164449134	0.000996	0.245092	11.50999	0.37633	12.73296	7.97E+00	6.92E+01
56.6186403	5.769703454	0.0021816	0.370334	8.26976	0.88084	19.39986	2.12E+01	7.01E+01
55.9918837	5.261688078	0.002551	0.347258	8.614121	0.80583	18.00631	1.94E+01	6.97E+01
55.3317392	4.830486342	0.0025726	0.327007	8.971915	0.73908	16.66704	1.78E+01	6.91E+01
54.7327365	4.400171129	0.0023206	0.312478	9.238402	0.67275	15.57369	1.62E+01	6.87E+01
54.3287409	3.894889204	0.0020584	0.300361	9.456328	0.59862	14.55149	1.43E+01	6.88E+01
53.6650489	3.592251963	0.0017935	0.285739	9.705553	0.55848	14.12148	1.32E+01	6.87E+01
53.6868554	2.966790584	0.001481	0.273485	9.848625	0.48404	13.44398	1.09E+01	6.98E+01
52.9940531	2.754283317	0.001339	0.266254	9.901796	0.45446	13.10714	1.01E+01	6.93E+01
52.7447904	2.364711284	0.0011555	0.251191	10.77738	0.41368	13.11522	8.71E+00	7.10E+01
52.2538816	2.204822929	0.0010941	0.242252	11.06034	0.39271	13.05414	8.12E+00	7.11E+01
51.8798309	2.075020993	0.0009992	0.240587	11.23836	0.37278	12.96196	7.64E+00	7.11E+01
58.0659084	6.132439656	0.0027345	0.385652	7.528938	0.94294	20.24699	2.26E+01	7.07E+01
57.1542056	5.78793261	0.0025797	0.3631	7.888445	0.89005	19.50522	2.13E+01	7.03E+01
56.8346193	5.043326056	0.0024574	0.325016	8.263153	0.77909	17.22458	1.86E+01	6.99E+01
56.3193998	4.553244329	0.0023129	0.311478	8.616085	0.70475	16.00285	1.68E+01	6.97E+01
55.5885142	4.217805688	0.0021371	0.29881	8.888227	0.6527	15.13695	1.55E+01	6.93E+01
55.1111693	3.767599087	0.0020057	0.287209	9.085014	0.59078	14.42905	1.39E+01	6.94E+01
55.0006757	3.111737311	0.0017222	0.272732	9.291742	0.51326	13.71953	1.15E+01	7.05E+01
54.4073072	2.741668814	0.0015733	0.261956	9.467811	0.46598	13.30588	1.01E+01	7.06E+01
54.3200809	2.435522415	0.0012624	0.245844	10.37441	0.42929	13.33621	8.97E+00	7.22E+01
53.3132222	2.380594845	0.0012088	0.241254	10.45178	0.41757	13.1211	8.76E+00	7.12E+01

2733	490860.04	3859210.04	5.01921	1.25218	10.80983	4.5256	22.55	2.879	1.828	1.25218	52.369279	2.312683388	0.0011254	0.238382	10.57509	0.40506	12.95169	8.51E+00	7.03E+01
2734	490360.04	3859260.04	5.69938	3.50527	25.90767	7.77679	14.98	7.06	2.9547	3.50527	59.4660159	6.473973151	0.0026971	0.409635	7.025202	0.99316	20.93533	2.38E+01	7.15E+01
2735	490410.04	3859260.04	5.62213	3.25558	26.21131	7.2118	15.41	6.582	2.813	3.25558	58.6600072	6.01281428	0.0027288	0.379875	7.227564	0.92598	19.93098	2.21E+01	7.10E+01
2736	490460.04	3859260.04	5.53813	3.06276	25.22821	6.76928	16.08	6.199	2.6937	3.06276	57.7835706	5.656690072	0.0026264	0.356566	7.54196	0.87203	19.08612	2.08E+01	7.05E+01
2737	490510.04	3859260.04	5.45554	2.84891	24.55176	6.30327	16.75	5.77	2.5096	2.84891	56.9218456	5.261725017	0.002556	0.332019	7.85291	0.81164	17.78114	1.94E+01	6.96E+01
2738	490560.04	3859260.04	5.40748	2.59513	23.58526	5.89997	17.48	5.273	2.3148	2.59513	56.4203986	4.79301222	0.0024554	0.310775	8.196764	0.74179	16.40148	1.76E+01	6.92E+01
2739	490610.04	3859260.04	5.38954	2.21973	21.09028	5.59931	18.18	4.554	2.0994	2.21973	56.2332168	4.099676322	0.0021956	0.294938	8.524496	0.64063	14.87529	1.51E+01	6.96E+01
2740	490660.04	3859260.04	5.29607	2.14591	19.43327	5.43383	18.61	4.4	2.0592	2.14591	55.2579724	3.963336269	0.0020231	0.286222	8.726778	0.619	14.58982	1.46E+01	6.89E+01
2741	490710.04	3859260.04	5.22958	1.91637	18.33807	5.11129	18.94	4.004	1.9799	1.91637	54.5642311	3.539392951	0.0019091	0.269232	8.881714	0.56333	14.02838	1.30E+01	6.88E+01
2742	490760.04	3859260.04	5.22761	1.65596	14.38218	4.73861	19.39	3.584	1.9072	1.65596	54.5436766	3.058435036	0.0014973	0.249602	9.090477	0.50417	13.51327	1.13E+01	6.97E+01
2743	490810.04	3859260.04	5.14651	1.58144	13.34053	4.67718	19.69	3.434	1.8682	1.58144	53.6974979	2.920802135	0.0013888	0.246366	9.230749	0.48314	13.2368	1.08E+01	6.91E+01
2744	490860.04	3859260.04	5.06757	1.50838	12.41359	4.60303	19.82	3.288	1.8319	1.50838	52.8738561	2.785865746	0.0012923	0.24246	9.295929	0.46251	12.97981	1.03E+01	6.84E+01
2745	490360.04	3859310.04	5.78133	3.86841	26.88593	8.52318	13.79	7.605	3.254	3.86841	60.3210633	7.14466574	0.002799	0.448951	6.465444	1.0698	23.05576	2.63E+01	7.22E+01
2746	490410.04	3859310.04	5.70562	3.58758	25.46345	7.91829	14.36	7.114	3.0477	3.58758	59.5311226	6.625993603	0.0026509	0.417089	6.734828	1.0008	21.59405	2.44E+01	7.15E+01
2747	490460.04	3859310.04	5.62792	3.34995	23.33003	7.3576	14.81	6.678	2.8795	3.34995	58.7204187	6.187108656	0.0024288	0.387555	6.943033	0.93948	20.40208	2.28E+01	7.08E+01
2748	490510.04	3859310.04	5.54196	3.16992	22.00146	6.93072	15.25	6.346	2.7693	3.16992	57.8235319	5.854606627	0.0022905	0.365069	7.151487	0.89274	19.62163	2.16E+01	7.02E+01
2749	490560.04	3859310.04	5.4644	2.97689	21.26592	6.49661	15.93	5.982	2.6158	2.97689	57.0142888	5.498094564	0.0022139	0.342203	7.471313	0.84159	18.53417	2.02E+01	6.95E+01
2750	490610.04	3859310.04	5.38269	2.82091	20.9409	6.139	16.57	5.682	2.4706	2.82091	56.1617455	5.210011098	0.0021801	0.323366	7.76766	0.7993	17.50516	1.92E+01	6.86E+01
2751	490660.04	3859310.04	5.31863	2.61389	20.42812	5.80156	17.26	5.282	2.2888	2.61389	55.4933582	4.827660545	0.0021267	0.305592	8.093536	0.74309	16.21697	1.78E+01	6.79E+01
2752	490710.04	3859310.04	5.30589	2.23603	18.81603	5.33552	17.85	4.568	2.074	2.23603	55.360432	4.129781211	0.0019589	0.281044	8.372261	0.64256	14.69511	1.52E+01	6.83E+01
2753	490760.04	3859310.04	5.25406	2.03156	16.76564	5.02761	18.22	4.199	2.0057	2.03156	54.8196498	3.752140319	0.0017454	0.264825	8.544313	0.59063	14.2109	1.38E+01	6.84E+01
2754	490810.04	3859310.04	5.17849	1.92487	15.22025	4.85932	18.58	3.992	1.9613	1.92487	54.0311698	3.555091819	0.0015845	0.25596	8.714075	0.56152	13.89616	1.31E+01	6.79E+01
2755	490860.04	3859310.04	5.1258	1.75732	13.61907	4.67084	18.96	3.695	1.902	1.75732	53.4814145	3.245639422	0.0014178	0.246032	8.889362	0.51976	13.476	1.19E+01	6.79E+01
2756	490360.04	3859360.04	5.85144	4.36487	26.62314	9.41969	12.5	8.092	3.7705	4.36487	61.0525748	8.061590459	0.0027716	0.496173	5.859849	1.13832	26.71542	2.97E+01	7.36E+01
2757	490410.04	3859360.04	5.7599	4.04724	25.20507	8.79866	13.13	7.714	3.4475	4.04724	60.0974676	7.474951458	0.002624	0.463461	6.156346	1.08522	24.42643	2.75E+01	7.22E+01
2758	490460.04	3859360.04	5.66995	3.83118	23.88455	8.23435	13.67	7.375	3.3029	3.83118	59.1589501	7.075904697	0.0024865	0.433737	6.408254	1.03749	23.40203	2.61E+01	7.15E+01
2759	490510.04	3859360.04	5.58561	3.61904	22.91412	7.75907	14.11	7.034	3.1587	3.61904	58.278966	6.684097885	0.0023855	0.408702	6.617589	0.98949	22.38081	2.46E+01	7.08E+01
2760	490560.04	3859360.04	5.52051	3.35796	21.8781	7.19588	14.49	6.581	2.9271	3.35796	57.5997276	6.20190253	0.0022776	0.379036	6.795596	0.92584	20.7397	2.28E+01	6.98E+01
2761	490610.04	3859360.04	5.45632	3.11376	20.65764	6.6922	15.13	6.148	2.7054	3.11376	56.9299839	5.750883281	0.0021506	0.352505	7.09305	0.86494	19.16888	2.12E+01	6.90E+01
2762	490660.04	3859360.04	5.38605	2.91437	19.43538	6.27035	15.76	5.793	2.5191	2.91437	56.196803	5.382624771	0.0020233	0.330285	7.388849	0.81489	17.84838	1.98E+01	6.81E+01
2763	490710.04	3859360.04	5.33984	2.6397	18.12481	5.8433	16.49	5.287	2.2852	2.6397	55.7146585	4.875329697	0.0018869	0.30779	7.733467	0.74377	16.19154	1.79E+01	6.76E+01
2764	490760.04	3859360.04	5.30249	2.354	16.68828	5.45761	17.1	4.756	2.0963	2.354	55.3249572	4.347663032	0.0017374	0.287475	8.017693	0.66898	14.85297	1.60E+01	6.75E+01
2765	490810.04	3859360.04	5.2118	2.28781	15.95415	5.29446	17.49	4.628	2.0546	2.28781	54.3787187	4.225415022	0.0016609	0.278881	8.202508	0.65107	14.55751	1.56E+01	6.67E+01
2766	490860.04	3859360.04	5.15104	2.124	14.89889	5.04442	17.8	4.338	1.9953	2.124	53.7447628	3.922870128	0.0015511	0.26571	8.347024	0.61026	14.13749	1.44E+01	6.66E+01
2767	490360.04	3859410.04	5.95357	4.79553	26.22671	10.42499	11.64	8.507	4.2034	4.79553	62.1181757	8.856987469	0.0027304	0.549127	5.456859	1.19678	29.78282	3.26E+01	7.54E+01
2768	490410.04	3859410.04	5.84533	4.60619	24.86858	9.75464	11.85	8.034	4.0555	4.60619	60.9888245	8.507290562	0.002589	0.513817	5.558441	1.13018	28.73496	3.13E+01	7.41E+01
2769	490460.04	3859410.04	5.74671	4.27327	23.54278	9.1414	12.47	7.863	3.7193	4.27327	59.9598462	7.892412067	0.0024509	0.481515	5.848585	1.10607	26.35265	2.91E+01	7.26E+01
2770	490510.04	3859410.04	5.65693	4.0293	22.44834	8.55754	13.02	7.514	3.5264	4.0293	59.0231024	7.441817611	0.002337	0.450761	6.107452	1.05702	24.9856	2.74E+01	7.17E+01
2771	490560.04	3859410.04	5.5725	3.80532	21.3548	8.00616	13.49	7.18	3.3672	3.80532	58.1421792	7.028143199	0.0022232	0.421717	6.326315	1.01001	23.85769	2.59E+01	7.09E+01
2772	490610.04	3859410.04	5.49379	3.58683	20.2692	7.54248	13.87	6.844	3.1774	3.58683	57.3209373	6.624608409	0.0021101	0.397293	6.502788	0.96275	22.51288	2.44E+01	6.99E+01
2773	490660.04	3859410.04	5.43861	3.27797	19.66686	6.91699	14.33	6.31	2.8186	3.27797	56.7452019	6.054166946	0.0020474	0.364346	6.717924	0.88773	19.97044	2.23E+01	6.85E+01
2774	490710.04	3859410.04	5.37895	3.01154	19.15071	6.40798	14.99	5.861	2.5357	3.01154	56.1227232	5.562090539	0.0019937	0.337534	7.027392	0.82454	17.96635	2.05E+01	6.74E+01
2775	490760.04	3859410.04	5.34135	2.69546	18.23247	5.90412	15.71	5.302	2.3129	2.69546	55.7304135	4.978314273	0.0018981	0.310994	7.36853	0.74593	16.38738	1.83E+01	6.72E+01
2776	490810.04	3859410.04	5.26177	2.61543	17.32559	5.70792	16.31	5.18	2.2583	2.61543	54.9000941	4.830504811	0.0018037	0.300659	7.647387	0.72865	16.00108	1.78E+01	6.66E+01
2777	490860.04	3859410.04	5.16622	2.56415	16.65581	5.54712	16.75	5.096	2.2137	2.56415	53.9031475	4.735794462	0.001734	0.292189	7.853158	0.71683	15.68515	1.74E+01	6.58E+01
2778	490360.04	3859460.04	6.13503	5.21554	23.31905	12.84345	10.97	9.6	4.6702	5.21554	64.0114875	9.632714721	0.0024277	0.676517	5.142444	1.35055	33.0897	3.55E+01	7.84E+01
2779	490410.04	3859460.04	5.99875	5.0279	22.20709	11.31932	11.21	8.823	4.4309	5.0279	62.5895734	9.286157587	0.0023119	0.596235	5.25861	1.24113	31.39438	3.42E+01	7.62E+01
2780	490460.04	3859460.04	5.87411	4.80065	21.30373	10.49289	11.37	8.378	4.2912	4.80065	61.2891084	8.866443728	0.0022178	0.552703	5.330687	1.17854	30.40463	3.26E+01	7.50E+01
2781	490510.04	3859460.04	5.76459	4.48082	20.60213	9.73797	11.89	8.033	3.9792	4.48082	60.146402	8.275741491	0.0021448	0.512939	5.574099	1.13003	28.194	3.05E+01	7.34E+01
2782	490560.04	3859460.04	5.66337	4.20084	19.87784	9.05329	12.43	7.655	3.7514	4.20084	59.0902959	7.758639241	0.0020694	0.476874	5.827873	1.07687	26.58002	2.86E+01	7.22E+01
2783	490610.04	3859460.04	5.57826	3.9517	19.18111	8.37352	12.92	7.273	3.5373	3.9517	58.2022778	7.298496179	0.0019969	0.441067	6.057765	1.02312	25.06298	2.69E+01	7.12E+01
2784	490660.04	3859460.04	5.50398	3.6975	18.73112	7.77001	13.33	6.875	3.2895	3.6975	57.4272574	6.829007673	0.00195	0.409278	6.25216	0.96716	23.30701	2.51E+01	7.01E+01
2785	490710.04	3859460.04	5.42106	3.47835	18.19986	7.25707	13.62	6.531	3.0136	3.47835	56.5620892	6.424253912	0.0018947	0.382259	6.387711	0.9187	21.3523	2.37E+01	6.84E+01
2786	490760.04	3859460.04	5.35883	3.26132	17.48483	6.79445	14.21	6.19	2.7849	3.26132	55.9127958	6.023415633	0.0018203	0.357891	6.66443	0.87074	19.73223	2.22E+01	6.74E+01
2787	490810.04	3859460.04	5.29504	3.0421	16.9217	6.34288	14.88	5.834	2.5656	3.0421	55.2472256	5.618532588	0.0017617	0.334105	6.976486	0.82075	18.17827	2.07E+01	6.65E+01
2788	490860.04	3859460.04	5.20719	2.93725	16.30179	6.08762	15.5	5.683	2.4751	2.93725	54.330619	5.424882431	0.0016971	0.32066	7.266208	0.79947	17.53683	2.00E+01	6.57E+01
2789	490360.04	3859510.04	6.35637	6.28741	26.43178	16.96312	10.76	11.65	6.1649	6.28741	66.320898	11.61237894	0.0027517	0.893517	5.04384	1.63861	43.68026	4.28E+01	8.64E+01

2790	490410.04	3859510.04	6.16894	5.4878	24.30007	14.74593	10.64	10.59	5.2592	5.4878	64.3652966	10.1355587	0.0025298	0.776728	4.988728	1.48977	37.26333	3.73E+01	8.17E+01
2791	490460.04	3859510.04	6.01627	5.29275	22.12133	12.94164	10.8	9.589	4.792	5.29275	62.772373	9.775315852	0.002303	0.681689	5.062353	1.34895	33.95291	3.60E+01	7.76E+01
2792	490510.04	3859510.04	5.88294	5.05464	20.09712	11.62214	10.96	8.96	4.5494	5.05464	61.3812386	9.33554438	0.0020922	0.612185	5.138196	1.26044	32.23421	3.44E+01	7.56E+01
2793	490560.04	3859510.04	5.76624	4.71834	18.88947	10.6376	11.32	8.39	4.3026	4.71834	60.1636177	8.714423276	0.0019665	0.560326	5.307748	1.18024	30.48533	3.21E+01	7.43E+01
2794	490610.04	3859510.04	5.66619	4.35418	18.25601	9.75938	11.87	7.959	3.9895	4.35418	59.1197191	8.041846824	0.0019006	0.514066	5.568064	1.11964	28.26719	2.96E+01	7.30E+01
2795	490660.04	3859510.04	5.57596	4.10498	17.72189	8.95754	12.36	7.501	3.7647	4.10498	58.1782801	7.581592946	0.001845	0.47183	5.797454	1.05522	26.6739	2.79E+01	7.18E+01
2796	490710.04	3859510.04	5.49522	3.86274	17.13895	8.22432	12.78	7.063	3.4863	3.86274	57.3358576	7.134193671	0.0017843	0.433208	5.99395	0.99357	24.70162	2.63E+01	7.03E+01
2797	490760.04	3859510.04	5.41774	3.63993	16.50133	7.65858	13.11	6.692	3.2008	3.63993	56.5274491	6.722680162	0.0017179	0.403409	6.147756	0.9414	22.67889	2.48E+01	6.87E+01
2798	490810.04	3859510.04	5.33583	3.46211	15.93661	7.20027	13.47	6.429	2.9819	3.46211	55.6728191	6.394259839	0.0016591	0.379268	6.315994	0.90439	21.12784	2.35E+01	6.73E+01
2799	490860.04	3859510.04	5.26386	3.26943	15.34344	6.74445	14.09	6.132	2.7904	3.26943	54.9219007	6.038394201	0.0015973	0.355258	6.605923	0.86262	19.77085	2.22E+01	6.63E+01
2800	490360.04	3859560.04	6.67385	7.80552	25.49597	27.19785	10.49	14.78	7.7665	7.80552	69.633411	14.41621527	0.0026543	1.432622	4.917734	2.07874	55.02817	5.31E+01	9.44E+01
2801	490410.04	3859560.04	6.41299	7.02161	24.97479	21.63147	10.47	12.96	6.9883	7.02161	66.911658	12.96839177	0.0026	1.139418	4.910165	1.82338	49.51484	4.77E+01	8.95E+01
2802	490460.04	3859560.04	6.20589	6.088	23.93011	17.9235	10.34	11.57	6.0485	6.088	64.7508244	11.24408349	0.0024913	0.944104	4.847926	1.62713	42.85595	4.14E+01	8.49E+01
2803	490510.04	3859560.04	6.0418	5.55093	22.62623	15.21189	10.42	10.38	5.2193	5.55093	63.0387472	10.25215512	0.0023555	0.801272	4.884014	1.46081	36.98084	3.77E+01	7.97E+01
2804	490560.04	3859560.04	5.89474	5.36236	21.64167	13.25375	10.57	9.583	4.9659	5.36236	61.5043571	9.903880348	0.002253	0.698129	4.954821	1.34813	35.18526	3.65E+01	7.71E+01
2805	490610.04	3859560.04	5.7741	4.99251	20.60134	11.79446	10.79	8.863	4.5761	4.99251	60.2456271	9.220794888	0.0021447	0.621262	5.060323	1.24683	32.42325	3.39E+01	7.49E+01
2806	490660.04	3859560.04	5.66682	4.58013	19.42194	10.72559	11.33	8.303	4.2869	4.58013	59.1262924	8.459159679	0.0020219	0.564961	5.314224	1.16808	30.37402	3.11E+01	7.39E+01
2807	490710.04	3859560.04	5.57368	4.29208	18.2542	9.67459	11.83	7.761	4.0213	4.29208	58.1544911	7.927152739	0.0019004	0.5096	5.545415	1.09179	28.4925	2.92E+01	7.25E+01
2808	490760.04	3859560.04	5.49692	4.00165	16.98785	8.70186	12.27	7.205	3.6649	4.00165	57.353595	7.390750116	0.0017685	0.458362	5.753807	1.0135	25.967	2.72E+01	7.07E+01
2809	490810.04	3859560.04	5.41659	3.77286	15.67714	8.01302	12.61	6.807	3.3584	3.77286	56.5154503	6.968191992	0.0016321	0.422078	5.914717	0.9576	23.79562	2.57E+01	6.89E+01
2810	490860.04	3859560.04	5.34354	3.54743	14.58459	7.41518	12.88	6.44	3.0982	3.54743	55.7532634	6.551839538	0.0015183	0.390588	6.039215	0.90596	21.95172	2.41E+01	6.75E+01
2811	490187.25	3859422.08	6.5293	6.54829	33.12131	16.07235	11.3	11.03	6.3173	6.54829	68.1252097	12.09420491	0.0034481	0.846596	5.297615	1.55183	44.76	4.45E+01	8.82E+01
2812	490237.25	3859422.08	6.34027	5.8194	30.09954	14.11766	11.33	10.23	5.5953	5.8194	66.1529143	10.74799926	0.0031335	0.743635	5.311926	1.43923	39.64479	3.96E+01	8.45E+01
2813	490287.25	3859422.08	6.18102	5.25099	27.69032	12.65426	11.24	9.547	4.8146	5.25099	64.4913365	9.698188236	0.0028827	0.666551	5.271336	1.34297	34.11325	3.57E+01	7.99E+01
2814	490337.25	3859422.08	6.04836	4.95763	26.03434	11.25154	11.38	8.891	4.3329	4.95763	63.1071927	9.156374121	0.0027103	0.592664	5.338584	1.25076	30.70016	3.37E+01	7.64E+01
2815	490187.25	3859472.08	6.99084	7.69567	30.29572	24.03277	10.79	14.24	7.5637	7.69567	72.9408115	14.21333049	0.003154	1.265904	5.059957	2.00385	53.59126	5.23E+01	9.67E+01
2816	490237.25	3859472.08	6.69886	7.0934	27.84782	19.28299	10.98	12.55	6.9476	7.0934	69.8943596	13.10098256	0.0028991	1.015714	5.146698	1.76609	49.22604	4.82E+01	9.19E+01
2817	490287.25	3859472.08	6.46734	6.35815	25.66102	16.3398	11.04	11.3	6.2062	6.35815	67.4787333	11.74303046	0.0026715	0.860684	5.176896	1.58976	43.97331	4.32E+01	8.76E+01
2818	490337.25	3859472.08	6.26895	5.54149	23.89107	14.3023	10.93	10.38	5.3778	5.54149	65.4087778	10.23472014	0.0024872	0.75336	5.127627	1.46058	38.10344	3.77E+01	8.34E+01
2819	490297.07	3859500.42	6.60485	6.99987	28.24452	19.60799	10.86	12.77	6.885	6.99987	68.9134809	12.92823961	0.0029404	1.032833	5.091975	1.79577	48.78271	4.76E+01	9.09E+01
2820	490327.07	3859500.42	6.45308	6.56756	26.93935	17.63861	10.84	11.95	6.4365	6.56756	67.3299478	12.12979517	0.0028046	0.929097	5.081293	1.68098	45.60492	4.47E+01	8.81E+01
2821	490297.07	3859530.42	6.78781	7.79244	27.98915	26.90571	10.6	15.53	7.7251	7.79244	70.8224434	14.39205749	0.0029138	1.417233	4.970271	2.18452	54.73491	5.30E+01	9.55E+01
2822	490327.07	3859530.42	6.61192	7.39693	27.30509	23.21511	10.66	14.07	7.3195	7.39693	68.9872477	13.66157991	0.0028426	1.222834	4.997155	1.97919	51.8613	5.03E+01	9.24E+01
2823	490319.73	3859055.34	5.15095	3.02881	17.22395	7.05777	20.11	5.859	2.6952	3.02881	53.7438238	5.593986945	0.0017931	0.371762	9.429154	0.82415	19.09632	2.06E+01	6.85E+01
2824	490319.73	3859105.34	5.31759	3.12809	20.34755	7.17558	18.64	6.182	2.7541	3.12809	55.4825071	5.777349726	0.0021183	0.377967	8.741432	0.8697	19.51386	2.13E+01	6.95E+01
2825	490069.73	3859155.34	6.0095	4.17202	18.0096	9.68657	13.87	8.323	3.5052	4.17202	62.7017364	7.705410843	0.0018749	0.510231	6.505377	1.17082	24.83568	2.84E+01	7.51E+01
2826	490119.73	3859155.34	5.88629	4.0084	17.11979	9.09683	14.59	7.915	3.3593	4.0084	61.4161917	7.403216865	0.0017823	0.479167	6.842258	1.11343	23.80185	2.73E+01	7.38E+01
2827	490269.73	3859155.34	5.54829	3.52459	20.81043	7.73975	16.2	7.052	2.9649	3.52459	57.8895777	6.509655755	0.0021665	0.407684	7.598357	0.99202	21.00724	2.40E+01	7.04E+01
2828	490319.73	3859155.34	5.46764	3.31095	18.71642	7.36327	17.11	6.623	2.8545	3.31095	57.0480942	6.115078555	0.0019485	0.387853	8.022818	0.93164	20.22537	2.25E+01	7.02E+01
2829	490069.73	3859205.34	6.14029	4.47185	22.48843	10.4504	13.05	9.048	3.7146	4.47185	64.0663691	8.259174567	0.0023412	0.550465	6.121102	1.27281	26.31949	3.04E+01	7.62E+01
2830	490119.73	3859205.34	6.00632	4.35911	25.43354	9.82335	13.25	8.673	3.6525	4.35911	62.668557	8.050952167	0.0026478	0.517436	6.211946	1.22012	25.879	2.96E+01	7.49E+01
2831	490169.73	3859205.34	5.88942	4.20228	23.72048	9.20027	13.79	8.272	3.5307	4.20228	61.4488494	7.761298814	0.0024694	0.484616	6.467001	1.1637	25.01614	2.86E+01	7.38E+01
2832	490219.73	3859205.34	5.79131	3.92625	22.31928	8.6551	14.53	7.818	3.2855	3.92625	60.4251923	7.251491921	0.0023236	0.455899	6.814123	1.09981	23.27909	2.67E+01	7.26E+01
2833	490269.73	3859205.34	5.71097	3.68003	25.38808	8.13613	15.21	7.424	3.0405	3.68003	59.5869433	6.796741882	0.0026431	0.428563	7.134427	1.04439	21.5429	2.50E+01	7.15E+01
2834	490319.73	3859205.34	5.61564	3.49174	27.4627	7.65459	15.69	7.04	2.9504	3.49174	58.592292	6.448984247	0.002859	0.403198	7.355405	0.99035	20.90444	2.37E+01	7.10E+01
2835	490069.73	3859255.34	6.28508	4.78926	28.56933	11.665	12.42	9.652	4.1374	4.78926	65.5770745	8.845407245	0.0029742	0.614443	5.825983	1.35773	29.31526	3.26E+01	7.90E+01
2836	490119.73	3859255.34	6.14535	4.59143	27.78151	10.79009	12.53	9.22	3.8706	4.59143	64.119164	8.480029939	0.0028922	0.568358	5.877049	1.2971	27.42424	3.12E+01	7.65E+01
2837	490169.73	3859255.34	6.02179	4.48103	30.56276	9.98945	12.79	8.797	3.7913	4.48103	62.8299674	8.276129345	0.0031818	0.526185	5.997383	1.23746	26.86237	3.05E+01	7.53E+01
2838	490219.73	3859255.34	5.91927	4.28655	30.77663	9.40527	13.22	8.296	3.6318	4.28655	61.7602974	7.91693924	0.003204	0.495414	6.197025	1.16705	25.7324	2.91E+01	7.41E+01
2839	490269.73	3859255.34	5.82812	3.98906	27.9833	8.7986	13.96	7.958	3.3656	3.98906	60.8092593	7.367497322	0.0029132	0.463458	6.548353	1.11946	23.8467	2.71E+01	7.30E+01
2840	490319.73	3859255.34	5.73375	3.7666	26.15085	8.26682	14.58	7.548	3.1497	3.7666	59.8246245	6.956630237	0.0027225	0.435447	6.836134	1.06186	22.31662	2.56E+01	7.18E+01
2841	490069.73	3859305.34	6.43577	5.38997	38.83764	13.39566	12.13	10.27	5.0591	5.38997	67.1493392	9.954873966	0.0040432	0.705604	5.687821	1.44422	35.84562	3.67E+01	8.41E+01
2842	490119.73	3859305.34	6.27464	4.9817	35.84488	12.17716	12.03	9.768	4.5375	4.9817	65.468146	9.200829621	0.0037317	0.641421	5.642838	1.37412	32.14968	3.39E+01	8.06E+01
2843	490169.73	3859305.34	6.13849	4.72301	31.24058	11.16542	12.07	9.295	4.0613	4.72301	64.0475883	8.723048419	0.0032523	0.588128	5.658926	1.3076	28.77592	3.21E+01	7.70E+01
2844	490219.73	3859305.34	6.02411	4.59989	28.4179	10.18913	12.37	8.799	3.9435	4.59989	62.8541738	8.495654931	0.0029585	0.536703	5.801637	1.23777	27.94112	3.13E+01	7.56E+01
2845	490269.73	3859305.34	5.92107	4.41804	28.43073	9.59158	12.61	8.303	3.7943	4.41804	61.7790782	8.159791497	0.0029598	0.505228	5.915008	1.16799	26.88363	3.00E+01	7.44E+01
2846	490319.73	3859305.34	5.8349	4.10264	27.47447	8.99795	13.36	7.976	3.4857	4.10264	60.8800003	7.57727114	0.0028603	0.473959	6.263823	1.12205	24.6973	2.79E+01	7.31E+01

2847	490069.73	3859355.34	6.59864	6.46663	39.57863	16.23519	11.63	11.09	6.158	6.46663
2848	490119.73	3859355.34	6.40952	5.90029	35.20254	14.24729	11.73	10.39	5.6077	5.90029
2849	490169.73	3859355.34	6.25447	5.26155	31.93745	12.80496	11.71	9.837	4.9868	5.26155
2850	490219.73	3859355.34	6.12706	4.92175	30.3835	11.62813	11.68	9.303	4.296	4.92175
2851	490269.73	3859355.34	6.01071	4.71843	28.92827	10.51023	11.94	8.807	4.1058	4.71843
2852	490319.73	3859355.34	5.9128	4.56297	27.62236	9.82116	12.17	8.241	3.9627	4.56297
2853	490069.73	3859405.34	6.98141	7.52585	42.25766	21.99219	11.49	12.66	7.2923	7.52585
2854	490119.73	3859405.34	6.70597	6.984	38.239	17.9011	11.23	11.53	6.7375	6.984
2855	490169.73	3859405.34	6.48805	6.38415	34.27798	15.45209	11.4	10.73	6.1285	6.38415
2856	490219.73	3859405.34	6.30881	5.67985	31.50852	13.67177	11.42	10.02	5.4432	5.67985
2857	490269.73	3859405.34	6.16241	5.16579	29.3376	12.28705	11.36	9.388	4.6549	5.16579
2858	490319.73	3859405.34	6.03719	4.87178	27.43699	10.97334	11.53	8.817	4.2517	4.87178
2859	490161.89	3859541.83	7.95287	10.27439	29.43068	32.24018	10.88	18.26	10.125	10.27439
2860	490171.89	3859541.83	7.91543	10.06224	29.40112	34.59368	10.82	19.7	9.9581	10.06224
2861	490161.89	3859551.83	7.96465	10.79939	29.60622	28.3549	10.87	16.42	10.565	10.79939
2862	490171.89	3859551.83	7.93097	10.56654	28.90845	30.18396	10.82	17.34	10.385	10.56654
2863	489799.72	3859348.21	8.15655	9.47849	38.96325	27.65757	13.89	16.55	9.0731	9.47849
2864	489819.72	3859348.21	8.07324	9.08797	49.10263	31.379	13.64	22.14	8.7451	9.08797
2865	489799.72	3859368.21	8.17151	10.51874	60.5711	23.59869	13.97	14.18	9.9376	10.51874
2866	489819.72	3859368.21	8.0994	9.89577	69.81162	26.16044	13.71	15.72	9.4815	9.89577
2867	489775.41	3859329.72	8.17786	9.25018	52.11215	27.90177	14.13	16.88	8.8508	9.25018
2868	489795.41	3859329.72	8.14453	8.88305	35.55972	32.44871	13.88	24.17	8.5356	8.88305
2869	489775.41	3859349.72	8.20829	10.20951	55.94753	24.09203	14.32	14.09	9.6326	10.20951
2870	489795.41	3859349.72	8.17067	9.63464	41.60307	26.69006	13.95	15.75	9.2084	9.63464
2871	489595.05	3859219.43	8.19931	8.68784	16.70254	25.58363	17.44	13.94	8.3018	8.68784
2872	489615.05	3859219.43	8.16826	8.38384	16.07346	28.26367	16.82	17.44	7.9864	8.38384
2873	489595.05	3859239.43	8.21016	9.58766	18.36922	22.55172	17.77	12.26	9.0065	9.58766
2874	489615.05	3859239.43	8.1708	9.06365	19.25131	24.49097	17.19	13.36	8.6008	9.06365
2875	489372.4	3859092.58	7.8302	8.51897	18.07613	23.75377	22.87	11.75	7.9908	8.51897
2876	489422.4	3859092.58	7.86384	7.75768	15.34585	31.2763	20.74	17.1	7.26	7.75768
2877	489372.4	3859142.58	8.02278	11.06328	18.24548	18.11131	23.72	9.494	10.327	11.06328
2878	489422.4	3859142.58	7.88769	9.46568	19.4213	21.00927	21.81	10.81	8.8722	9.46568
2879	488870.84	3858666.64	9.26476	5.68095	12.62164	29.32955	37.09	13.7	6.2766	5.68095
2880	488900.84	3858666.64	9.18695	5.52141	12.46426	35.27614	35.18	18.07	5.9502	5.52141
2881	488870.84	3858696.64	9.27998	6.02461	13.0117	26.01524	37.22	11.56	6.7167	6.02461
2882	488900.84	3858696.64	9.15506	5.82769	13.02704	29.13988	36.36	13.5	6.3452	5.82769
2883	488889.67	3858683.97	9.21565	5.75433	12.81476	29.49475	36.6	13.73	6.2987	5.75433
2884	488919.67	3858683.97	9.08675	5.587	12.58645	35.29779	34.67	18.02	5.9709	5.587
2885	488889.67	3858713.97	9.18486	6.11529	13.17763	25.88015	36.75	11.59	6.7435	6.11529
2886	488919.67	3858713.97	9.03585	5.9091	13.26993	29.28238	35.87	13.53	6.3679	5.9091
2887	488906.61	3858703.33	9.11812	5.86943	13.12715	28.94649	36.24	13.37	6.3712	5.86943
2888	488936.61	3858703.33	8.97004	5.68727	12.85716	34.55189	34.44	17.11	6.0381	5.68727
2889	488906.61	3858733.33	9.07219	6.24359	13.29149	25.47234	36.34	11.47	6.8323	6.24359
2890	488936.61	3858733.33	8.91678	6.02761	13.50767	28.93103	35.53	13.23	6.4466	6.02761
2891	488637.63	3858467.85	9.37677	4.9905	12.64466	25.10348	43.21	12.15	6.1815	4.9905
2892	488662.63	3858467.85	9.35306	4.86275	12.46805	28.01761	42.48	14.18	5.9005	4.86275
2893	488637.63	3858492.85	9.31301	5.2114	12.63369	23.27586	43.2	10.97	6.5572	5.2114
2894	488662.63	3858492.85	9.2709	5.08807	12.6869	25.21695	42.58	12.04	6.2463	5.08807
2895	488687.63	3858492.85	9.22287	4.97463	12.61555	27.93504	41.89	13.99	5.9631	4.97463
2896	488637.63	3858517.85	9.26512	5.43666	12.56178	21.65351	42.74	10.04	6.9767	5.43666
2897	488662.63	3858517.85	9.22136	5.31288	12.52541	23.25751	42.31	10.89	6.6248	5.31288
2898	488687.63	3858517.85	9.15967	5.1867	12.55883	25.14855	41.97	11.94	6.3103	5.1867
2899	488194.42	3857168.98	5.03965	1.51088	10.3965	5.49775	101.7	4.668	2.6258	1.51088
2900	488244.42	3857168.98	5.08161	1.50775	8.31419	5.31567	97.1	5.14	2.5476	1.50775
2901	488294.42	3857168.98	5.06066	1.49454	6.7253	5.15839	91.87	5.304	2.4783	1.49454
2902	488244.42	3857218.98	4.9809	1.54728	7.01051	5.51471	102	5.416	2.6231	1.54728
2903	488294.42	3857218.98	5.03705	1.53738	7.19244	5.34057	97.2	5.327	2.5445	1.53738

68.8486872	11.94338496	0.0041204	0.855174	5.453052	1.55964	43.6313	4.40E+01	8.83E+01
66.8754528	10.89739707	0.0036648	0.750463	5.499147	1.46221	39.73251	4.01E+01	8.51E+01
65.2576969	9.717691771	0.0033249	0.674489	5.488769	1.3838	35.33292	3.58E+01	8.21E+01
63.9283303	9.090106427	0.0031631	0.612501	5.475307	1.30864	30.43878	3.35E+01	7.74E+01
62.7143613	8.7145895	0.0030116	0.553617	5.596691	1.2389	29.09086	3.21E+01	7.58E+01
61.6927909	8.427466435	0.0028757	0.517321	5.708275	1.15925	28.07744	3.10E+01	7.46E+01
72.8424211	13.89968557	0.0043993	1.158418	5.386695	1.78122	51.66829	5.12E+01	9.56E+01
69.9685437	12.89892889	0.0039809	0.942924	5.268044	1.62146	47.73748	4.75E+01	9.10E+01
67.6948167	11.79105053	0.0035685	0.813925	5.346856	1.50876	43.42249	4.34E+01	8.72E+01
65.8246679	10.49026078	0.0032802	0.720148	5.35546	1.40948	38.56711	3.86E+01	8.37E+01
64.2971641	9.540830168	0.0030542	0.647209	5.326969	1.32062	32.98158	3.51E+01	7.90E+01
62.9906475	8.997815552	0.0028564	0.578011	5.408894	1.24029	30.12469	3.31E+01	7.62E+01
82.9784106	18.97603466	0.0030639	1.698222	5.102366	2.56831	71.73623	6.99E+01	1.13E+02
82.5877703	18.58420938	0.0030608	1.82219	5.075675	2.77143	70.55701	6.84E+01	1.13E+02
83.1013204	19.94567064	0.0030822	1.493568	5.099098	2.30934	74.85556	7.34E+01	1.13E+02
82.749911	19.51561399	0.0030095	1.589912	5.07327	2.43935	73.57899	7.19E+01	1.13E+02
85.1035607	17.50606652	0.0040563	1.456837	6.515515	2.3276	64.2859	6.45E+01	1.13E+02
84.2343234	16.7848051	0.0051119	1.65286	6.395467	3.11416	61.9624	6.18E+01	1.12E+02
85.2596499	19.42733095	0.0063058	1.243039	6.550365	1.99443	70.41162	7.15E+01	1.13E+02
84.5072708	18.27675166	0.0072678	1.377977	6.427541	2.21181	67.18013	6.73E+01	1.13E+02
85.3259043	17.08439491	0.0054252	1.4697	6.624299	2.37449	62.71125	6.29E+01	1.13E+02
84.9781468	16.40633309	0.003702	1.709206	6.507262	3.39947	60.47781	6.04E+01	1.13E+02
85.6434039	18.85620612	0.0058245	1.269025	6.712663	1.98282	68.25066	6.94E+01	1.13E+02
85.2508855	17.79446396	0.0043311	1.405874	6.541713	2.21589	65.24491	6.55E+01	1.13E+02
85.5497087	16.04579473	0.0017388	1.347594	8.17645	1.96115	58.82118	5.91E+01	1.13E+02
85.2257402	15.48432933	0.0016733	1.488763	7.887277	2.45373	56.58674	5.70E+01	1.12E+02
85.6629151	17.70769539	0.0019123	1.187891	8.332202	1.72454	63.81437	6.52E+01	1.13E+02
85.2522419	16.73988787	0.0020042	1.290039	8.061729	1.87981	60.9397	6.16E+01	1.13E+02
81.6985001	15.73390439	0.0018818	1.251208	10.72404	1.65347	56.6177	5.79E+01	1.10E+02
82.0494921	14.32785835	0.0015976	1.64745	9.726115	2.40511	51.43993	5.28E+01	1.09E+02
83.7078354	20.43305585	0.0018995	0.953996	11.12142	1.33554	73.17336	7.52E+01	1.15E+02
82.2983375	17.4824074	0.0020219	1.106644	10.22822	1.52	62.86295	6.44E+01	1.11E+02
96.6663682	10.4922924	0.001314	1.544907	17.39324	1.92672	44.47169	3.86E+01	1.34E+02
95.8545166	10.19763388	0.0012976	1.858138	16.49582	2.5422	42.1596	3.75E+01	1.32E+02
96.8251701	11.12700687	0.0013546	1.370329	17.45402	1.62558	47.59053	4.10E+01	1.35E+02
95.5217837	10.76331027	0.0013562	1.534916	17.04904	1.89871	44.95831	3.96E+01	1.32E+02
96.1539658	10.6278198	0.0013341	1.553609	17.16297	1.93203	44.62835	3.91E+01	1.33E+02
94.8090529	10.31877373	0.0013103	1.859278	16.25788	2.53486	42.30605	3.80E+01	1.30E+02
95.83271	11.29448609	0.0013719	1.363213	17.23123	1.63016	47.77999	4.16E+01	1.34E+02
94.277974	10.91366849	0.0013815	1.542422	16.81973	1.90269	45.11859	4.02E+01	1.30E+02
95.1363602	10.84040095	0.0013666	1.52473	16.99188	1.88016	45.14218	3.99E+01	1.32E+02
93.5913277	10.50396497	0.0013385	1.819989	16.14946	2.40713	42.78183	3.87E+01	1.29E+02
94.6571372	11.53144666	0.0013837	1.341732	17.04249	1.6133	48.40931	4.25E+01	1.32E+02
93.0356251	11.13254765	0.0014062	1.523915	16.66001	1.8616	45.67656	4.10E+01	1.29E+02
97.8350547	9.217082567	0.0013164	1.322303	20.26289	1.70878	43.79787	3.39E+01	1.40E+02
97.58767	8.981137813	0.001298	1.475802	19.92176	1.99517	41.80689	3.31E+01	1.39E+02
97.1697975	9.625068448	0.0013152	1.226034	20.25555	1.54282	46.46041	3.54E+01	1.41E+02
96.7304315	9.397287105	0.0013208	1.32828	19.96504	1.6942	44.25693	3.46E+01	1.39E+02
96.2292976	9.187771857	0.0013134	1.471452	19.64146	1.96739	42.251	3.38E+01	1.37E+02
96.6701243	10.04110693	0.0013078	1.140579	20.0398	1.41294	49.43237	3.70E+01	1.42E+02
96.2135426	9.812494466	0.001304	1.225068	19.84126	1.53147	46.9391	3.61E+01	1.39E+02
95.5698833	9.579449384	0.0013075	1.324677	19.68001	1.68027	44.71096	3.53E+01	1.37E+02
52.5825453	2.79048306	0.0010823	0.289589	47.66671	0.6567	18.60453	1.03E+01	1.12E+02
53.0203462	2.784702182	0.0008656	0.279998	45.53344	0.72302	18.05059	1.03E+01	1.10E+02
52.8017588	2.760304294	0.0007001	0.271713	43.07977	0.74614	17.55986	1.02E+01	1.07E+02
51.9695613	2.857711154	0.0007298	0.290482	47.83503	0.76183	18.58547	1.05E+01	1.12E+02
52.5554175	2.83942659	0.0007488	0.28131	45.57829	0.74937	18.02835	1.05E+01	1.10E+02

2904	488294.42	3857268.98	4.99304	1.58402	8.22152	5.55181	100.7	5.203	2.614	1.58402
2905	488139.13	3857111.68	5.14733	1.4752	9.47994	5.48148	98.99	3.893	2.6251	1.4752
2906	488189.13	3857111.68	5.1136	1.47632	10.82869	5.30865	93.9	4.313	2.5447	1.47632
2907	488189.13	3857161.68	5.0579	1.50673	10.72179	5.48981	101.3	4.569	2.6227	1.50673
2908	487951.04	3856961.26	5.42307	1.43103	5.96814	5.68141	96.45	3.694	2.6869	1.43103
2909	488001.04	3856961.26	5.34919	1.4331	5.85109	5.48506	93.93	3.57	2.6064	1.4331
2910	488051.04	3856961.26	5.27651	1.4253	5.40297	5.26215	91.32	3.37	2.5342	1.4253
2911	488101.04	3856961.26	5.16158	1.4372	5.28305	5.05076	86.4	3.355	2.4544	1.4372
2912	487951.04	3857011.26	5.30242	1.45295	6.12313	5.81287	98.08	3.886	2.7681	1.45295
2913	488001.04	3857011.26	5.23478	1.443	5.77512	5.62346	98.26	3.732	2.6845	1.443
2914	488051.04	3857011.26	5.20831	1.43611	5.2437	5.43791	95.79	3.526	2.6088	1.43611
2915	488101.04	3857011.26	5.18688	1.44802	5.214	5.26946	90.75	3.499	2.5284	1.44802
2916	488001.04	3857061.26	5.23894	1.46553	5.56201	5.79681	100.9	3.9	2.7706	1.46553
2917	488051.04	3857061.26	5.19638	1.45879	5.02945	5.62096	98.18	3.722	2.6848	1.45879
2918	488101.04	3857061.26	5.16248	1.46118	5.73086	5.44662	95.32	3.663	2.6036	1.46118
2919	487638.98	3856673.79	5.47059	1.37913	6.18827	5.38398	68.32	3.492	2.7821	1.37913
2920	487688.98	3856673.79	5.36771	1.39648	6.02981	5.1532	69.96	3.36	2.6903	1.39648
2921	487638.98	3856723.79	5.55986	1.36255	6.17644	5.64838	74.25	3.654	2.8689	1.36255
2922	487688.98	3856723.79	5.45541	1.37805	6.1145	5.41867	74.67	3.51	2.7742	1.37805
2923	486324.61	3855740.57	6.42155	1.50026	7.22418	6.40697	22.38	3.539	3.2122	1.50026
2924	486374.61	3855740.57	6.4609	1.53236	6.50839	5.76006	21.52	3.267	2.9977	1.53236
2925	486424.61	3855740.57	6.40327	1.58002	6.12275	5.44501	20.6	3.158	2.8791	1.58002
2926	486324.61	3855790.57	6.53578	1.44868	6.56521	7.18045	22.85	3.812	3.4779	1.44868
2927	486374.61	3855790.57	6.54936	1.47526	5.90485	6.42261	22.64	3.428	3.2041	1.47526
2928	486424.61	3855790.57	6.44662	1.49922	5.64663	5.87268	22.34	3.25	3.02	1.49922
2929	486324.61	3855840.57	6.67195	1.39757	6.45111	7.94082	22.76	4.155	3.7621	1.39757
2930	486374.61	3855840.57	6.55711	1.42217	6.31808	7.30225	23.75	3.858	3.5138	1.42217
2931	486424.61	3855840.57	6.48737	1.44748	6.0514	6.66801	23.81	3.545	3.2987	1.44748
2932	486324.61	3855890.57	6.73611	1.37783	6.96083	8.92232	22.5	4.578	4.0852	1.37783
2933	486374.61	3855890.57	6.62433	1.37438	6.81314	8.15367	24.17	4.26	3.824	1.37438
2934	486424.61	3855890.57	6.54175	1.39622	6.59696	7.46463	24.9	3.938	3.5633	1.39622
2935	488735.69	3858285.64	8.28579	3.26481	12.9139	13.76056	38.64	10.55	3.8799	3.26481
2936	488765.69	3858285.64	8.13842	3.20279	12.55434	13.02369	35.83	10.19	3.7659	3.20279
2937	488735.69	3858315.64	8.52208	3.38325	13.54987	15.11746	40.03	11.06	4.0165	3.38325
2938	488765.69	3858315.64	8.31345	3.31116	13.21781	14.02705	37.08	10.54	3.8909	3.31116
2939	478676.63	3849871.93	2.51966	4.43307	0.72194	1.28401	2.009	1.598	4.4639	4.43307
2940	479326.63	3849871.93	2.62458	2.93171	0.51167	0.88705	2.129	1.209	2.724	2.93171
2941	479376.63	3849871.93	2.64753	2.85323	0.51127	0.86842	2.1	1.164	2.7022	2.85323
2942	479426.63	3849871.93	2.66913	2.80107	0.50897	0.85999	2.062	1.138	2.6945	2.80107
2943	478726.63	3849921.93	2.56409	4.731	0.72955	1.29535	2.006	1.627	4.7628	4.731
2944	478776.63	3849921.93	2.586	4.51134	0.70472	1.27452	2.06	1.689	4.542	4.51134
2945	478826.63	3849921.93	2.59011	4.32647	0.67966	1.26808	2.11	1.728	4.3305	4.32647
2946	478976.63	3849921.93	2.55889	3.93588	0.60603	1.22493	2.215	1.718	3.7663	3.93588
2947	479026.63	3849921.93	2.53188	3.82438	0.58416	1.19299	2.222	1.691	3.606	3.82438
2948	479076.63	3849921.93	2.53154	3.69892	0.56087	1.16117	2.225	1.642	3.4461	3.69892
2949	479126.63	3849921.93	2.54216	3.5605	0.54734	1.12526	2.22	1.58	3.2917	3.5605
2950	479176.63	3849921.93	2.54817	3.47969	0.53877	1.08484	2.199	1.523	3.1641	3.47969
2951	479226.63	3849921.93	2.57308	3.34899	0.52693	1.04188	2.175	1.433	3.0363	3.34899
2952	479276.63	3849921.93	2.61372	3.16656	0.5136	0.99232	2.174	1.325	2.9074	3.16656
2953	479326.63	3849921.93	2.60646	3.20899	0.51787	0.95145	2.158	1.327	2.919	3.20899
2954	479376.63	3849921.93	2.64981	3.00854	0.51764	0.90498	2.149	1.231	2.7976	3.00854
2955	479426.63	3849921.93	2.6621	3.02187	0.51802	0.89659	2.119	1.224	2.8184	3.02187
2956	478726.63	3849971.93	2.57636	5.22481	0.76273	1.33132	1.942	1.581	5.2541	5.22481
2957	478776.63	3849971.93	2.61459	4.99241	0.73676	1.30838	2.003	1.657	5.0218	4.99241
2958	478826.63	3849971.93	2.63237	4.76902	0.71108	1.2863	2.06	1.716	4.799	4.76902
2959	478976.63	3849971.93	2.59158	4.27436	0.63887	1.2508	2.183	1.777	4.198	4.27436
2960	479026.63	3849971.93	2.57747	4.14593	0.61394	1.23121	2.211	1.752	4.0278	4.14593

52.0962273	2.925567203	0.0008559	0.292436	47.20097	0.732	18.52085	1.08E+01	1.11E+02
53.7060536	2.724584752	0.0009869	0.288732	46.41887	0.54767	18.60006	1.00E+01	1.12E+02
53.3541225	2.726653308	0.0011273	0.279628	44.03361	0.60673	18.03026	1.00E+01	1.09E+02
52.7729616	2.782818318	0.0011162	0.289171	47.5014	0.64281	18.58249	1.02E+01	1.12E+02
56.5830611	2.643006045	0.0006213	0.299263	45.22536	0.51968	19.03773	9.73E+00	1.15E+02
55.8122142	2.646829181	0.0006091	0.28892	44.04527	0.50227	18.46721	9.74E+00	1.12E+02
55.0538879	2.632423161	0.0005625	0.277179	42.82072	0.47412	17.95579	9.69E+00	1.10E+02
53.8547348	2.654401576	0.00055	0.266044	40.51326	0.47201	17.39045	9.77E+00	1.05E+02
55.3242268	2.683490655	0.0006375	0.306188	45.99037	0.54668	19.61277	9.88E+00	1.15E+02
54.6184867	2.665113745	0.0006012	0.296211	46.07612	0.52498	19.02079	9.81E+00	1.13E+02
54.3423048	2.652388427	0.0005459	0.286437	44.91997	0.49602	18.48415	9.77E+00	1.11E+02
54.1187091	2.674385312	0.0005428	0.277564	42.55369	0.49218	17.91491	9.85E+00	1.08E+02
54.6618912	2.70672498	0.000579	0.305342	47.30154	0.54857	19.63077	9.97E+00	1.15E+02
54.2178299	2.694276701	0.0005236	0.296079	46.03881	0.52355	19.02242	9.92E+00	1.13E+02
53.8641252	2.698690854	0.0005966	0.286896	44.69742	0.51533	18.44709	9.94E+00	1.11E+02
57.0788738	2.547150602	0.0006442	0.283596	32.0385	0.4912	19.71247	9.38E+00	1.03E+02
56.0054476	2.579194763	0.0006277	0.27144	32.8041	0.47267	19.0616	9.50E+00	1.02E+02
58.0102964	2.516528575	0.000643	0.297523	34.81853	0.51404	20.32712	9.27E+00	1.07E+02
56.9204892	2.545155923	0.0006366	0.285423	35.01216	0.49371	19.65628	9.37E+00	1.06E+02
67.000971	2.770868709	0.0007521	0.337481	10.4929	0.49789	22.75953	1.02E+01	9.37E+01
67.4115399	2.830155023	0.0006776	0.303406	10.09148	0.45958	21.23943	1.04E+01	9.19E+01
66.8102417	2.918179501	0.0006374	0.286811	9.661789	0.4442	20.39967	1.07E+01	8.98E+01
68.1928205	2.675604283	0.0006835	0.378224	10.71303	0.53621	24.64196	9.85E+00	9.73E+01
68.3345111	2.724695567	0.0006147	0.338305	10.61554	0.48221	22.70185	1.00E+01	9.52E+01
67.2625456	2.768947906	0.0005878	0.309338	10.47733	0.45717	21.39786	1.02E+01	9.25E+01
69.6135869	2.581207912	0.0006716	0.418275	10.67125	0.58449	26.65562	9.50E+00	1.01E+02
68.4153728	2.626642283	0.0006578	0.384639	11.13908	0.54266	24.89654	9.67E+00	9.83E+01
67.6877217	2.673387972	0.00063	0.351231	11.16551	0.49864	23.37269	9.84E+00	9.59E+01
70.2830175	2.544749599	0.0007247	0.469975	10.54906	0.64399	28.9449	9.37E+00	1.04E+02
69.1167308	2.538377705	0.0007093	0.429487	11.33229	0.59925	27.09442	9.35E+00	1.02E+02
68.2551101	2.578714562	0.0006868	0.393192	11.67526	0.55392	25.24748	9.49E+00	9.92E+01
86.4520211	6.029861404	0.0013444	0.724825	18.12121	1.48345	27.49042	2.22E+01	1.18E+02
84.9143965	5.915315074	0.001307	0.686011	16.80169	1.43392	26.68255	2.18E+01	1.15E+02
88.9174164	6.248611281	0.0014106	0.796298	18.772	1.55651	28.45842	2.30E+01	1.22E+02
86.7406191	6.115466409	0.0013761	0.738862	17.38668	1.48233	27.56857	2.25E+01	1.18E+02
26.2895511	8.18755079	7.516E-05	0.067634	0.941923	0.22477	31.62855	3.01E+01	3.72E+01
27.3842621	5.414650463	5.327E-05	0.046725	0.99854	0.17009	19.30066	1.99E+01	3.34E+01
27.6237171	5.269703736	5.323E-05	0.045743	0.984697	0.16381	19.14578	1.94E+01	3.38E+01
27.8490866	5.173368093	5.299E-05	0.045299	0.966691	0.16005	19.09129	1.90E+01	3.42E+01
26.7531234	8.737805355	7.595E-05	0.068231	0.94046	0.22893	33.74601	3.22E+01	3.83E+01
26.9817273	8.332109662	7.337E-05	0.067134	0.966128	0.23754	32.1815	3.07E+01	3.81E+01
27.0246101	7.990668513	7.076E-05	0.066795	0.989363	0.24308	30.68337	2.94E+01	3.76E+01
26.6988678	7.269277815	6.309E-05	0.064522	1.038511	0.24171	26.68538	2.68E+01	3.52E+01
26.4170517	7.063345602	6.081E-05	0.06284	1.042009	0.23791	25.54995	2.60E+01	3.44E+01
26.4135043	6.831630308	5.839E-05	0.061164	1.043505	0.23097	24.41693	2.52E+01	3.38E+01
26.5243109	6.575978856	5.698E-05	0.059272	1.040963	0.2223	23.32253	2.42E+01	3.35E+01
26.5870178	6.426728792	5.609E-05	0.057143	1.031205	0.21426	22.41851	2.37E+01	3.31E+01
26.846923	6.185335607	5.486E-05	0.05488	1.02012	0.20165	21.51307	2.28E+01	3.30E+01
27.2709514	5.848400957	5.347E-05	0.05227	1.019327	0.18642	20.60012	2.15E+01	3.34E+01
27.1952022	5.926766013	5.391E-05	0.050117	1.01182	0.18674	20.68231	2.18E+01	3.32E+01
27.6475061	5.556549762	5.389E-05	0.047669	1.007848	0.1731	19.82186	2.05E+01	3.38E+01
27.7757372	5.581169281	5.393E-05	0.047227	0.993668	0.1722	19.96938	2.05E+01	3.40E+01
26.8811458	9.649835722	7.94E-05	0.070126	0.91043	0.22236	37.22719	3.55E+01	3.94E+01
27.2800288	9.220610195	7.67E-05	0.068918	0.93925	0.23316	35.58098	3.39E+01	3.94E+01
27.4655412	8.808025469	7.403E-05	0.067755	0.966025	0.24135	34.00258	3.24E+01	3.91E+01
27.0399478	7.894425216	6.651E-05	0.065885	1.023491	0.24998	29.74442	2.91E+01	3.70E+01
26.8927273	7.657224552	6.391E-05	0.064853	1.036973	0.24643	28.53849	2.82E+01	3.62E+01

2961	479076.63	3849971.93	2.5596	4.01797	0.58944	1.20454	2.23	1.71	3.8567	4.01797
2962	479126.63	3849971.93	2.5572	3.8914	0.56592	1.17311	2.236	1.66	3.6916	3.8914
2963	479176.63	3849971.93	2.56087	3.75685	0.55598	1.13627	2.229	1.598	3.5373	3.75685
2964	479226.63	3849971.93	2.61475	3.52198	0.53923	1.09951	2.236	1.47	3.3422	3.52198
2965	479276.63	3849971.93	2.59769	3.46037	0.5346	1.05621	2.194	1.454	3.2314	3.46037
2966	479326.63	3849971.93	2.59194	3.41185	0.5295	1.01194	2.163	1.424	3.131	3.41185
2967	479376.63	3849971.93	2.6404	3.24282	0.52339	0.96313	2.179	1.323	3.0186	3.24282
2968	479426.63	3849971.93	2.6584	3.18966	0.52479	0.93279	2.163	1.289	2.9893	3.18966
2969	478726.63	3850021.93	2.57956	5.70969	0.79745	1.35416	1.872	1.532	5.7337	5.70969
2970	478776.63	3850021.93	2.64234	5.4599	0.77012	1.34312	1.938	1.61	5.4855	5.4599
2971	478826.63	3850021.93	2.67798	5.22474	0.74397	1.32166	2	1.686	5.2504	5.22474
2972	478976.63	3850021.93	2.64302	4.58759	0.66963	1.27763	2.148	1.805	4.6148	4.58759
2973	478726.63	3850071.93	2.56528	6.19975	0.83442	1.36223	1.797	1.472	6.2188	6.19975
2974	478776.63	3850071.93	2.64343	5.9255	0.80601	1.36272	1.867	1.562	5.9461	5.9255
2975	478826.63	3850071.93	2.71077	5.6708	0.77844	1.35309	1.933	1.642	5.6931	5.6708
2976	478876.63	3850071.93	2.74133	5.43317	0.75202	1.33299	1.996	1.718	5.4564	5.43317
2977	478976.63	3850071.93	2.70716	4.99564	0.70167	1.29822	2.102	1.817	5.0248	4.99564
2978	478726.63	3850121.93	2.54517	6.77689	0.8738	1.35521	1.72	1.401	6.7736	6.77689
2979	478776.63	3850121.93	2.62404	6.42	0.84404	1.36722	1.791	1.501	6.4327	6.42
2980	478826.63	3850121.93	2.71567	6.13259	0.81486	1.37033	1.861	1.593	6.1477	6.13259
2981	478876.63	3850121.93	2.78856	5.87001	0.7866	1.36328	1.928	1.673	5.8874	5.87001
2982	478976.63	3850121.93	2.7873	5.39726	0.73472	1.31387	2.047	1.809	5.4219	5.39726
2983	479026.63	3850121.93	2.75689	5.18438	0.70912	1.30799	2.098	1.846	5.228	5.18438
2984	479076.63	3850121.93	2.72878	4.97869	0.68313	1.29825	2.146	1.859	5.0408	4.97869
2985	479126.63	3850121.93	2.6991	4.78671	0.65764	1.28621	2.187	1.85	4.8663	4.78671
2986	478776.63	3850171.93	2.59827	7.09397	0.88413	1.35791	1.713	1.429	7.0862	7.09397
2987	478826.63	3850171.93	2.69239	6.70135	0.85298	1.37369	1.786	1.53	6.6956	6.70135
2988	478876.63	3850171.93	2.80175	6.34064	0.82321	1.37852	1.856	1.624	6.3495	6.34064
2989	478976.63	3850171.93	2.87906	5.79878	0.7691	1.35234	1.983	1.782	5.8145	5.79878
2990	479026.63	3850171.93	2.84472	5.56359	0.7432	1.32455	2.039	1.841	5.6067	5.56359
2991	479076.63	3850171.93	2.81148	5.35355	0.71638	1.31775	2.094	1.875	5.419	5.35355
2992	479126.63	3850171.93	2.77651	5.153	0.69039	1.30553	2.142	1.886	5.234	5.153
2993	479176.63	3850171.93	2.73774	4.96095	0.66528	1.29301	2.18	1.879	5.0623	4.96095
2994	479226.63	3850171.93	2.68889	4.81269	0.6419	1.27169	2.199	1.86	4.9039	4.81269
2995	479276.63	3850171.93	2.63967	4.67754	0.61881	1.24535	2.206	1.828	4.7383	4.67754
2996	479326.63	3850171.93	2.63431	4.56795	0.60582	1.21589	2.228	1.773	4.574	4.56795
2997	479376.63	3850171.93	2.63304	4.41408	0.59477	1.18274	2.241	1.707	4.3829	4.41408
2998	478676.63	3850221.93	2.60435	9.26352	0.99624	1.24827	1.483	1.136	9.2308	9.26352
2999	478726.63	3850221.93	2.58388	8.48121	0.96138	1.29561	1.559	1.241	8.4578	8.48121
3000	478976.63	3850221.93	2.97266	6.22664	0.80553	1.38018	1.914	1.739	6.2361	6.22664
3001	479026.63	3850221.93	2.95396	5.95063	0.77843	1.36376	1.974	1.813	5.9617	5.95063
3002	479076.63	3850221.93	2.91209	5.71979	0.7508	1.33932	2.034	1.869	5.766	5.71979
3003	479126.63	3850221.93	2.86974	5.50286	0.7241	1.32987	2.087	1.903	5.5812	5.50286
3004	479176.63	3850221.93	2.82197	5.28686	0.69896	1.31725	2.129	1.916	5.3969	5.28686
3005	479226.63	3850221.93	2.77267	5.08273	0.67418	1.30334	2.161	1.91	5.2241	5.08273
3006	479276.63	3850221.93	2.72143	4.90466	0.64971	1.28432	2.184	1.888	5.0565	4.90466
3007	479326.63	3850221.93	2.68971	4.81332	0.62458	1.26104	2.216	1.841	4.9059	4.81332
3008	479376.63	3850221.93	2.67577	4.70027	0.61423	1.23141	2.236	1.787	4.7464	4.70027
3009	478676.63	3850271.93	2.77269	11.59227	1.04898	1.18638	1.401	1.054	11.519	11.59227
3010	478726.63	3850271.93	2.7111	10.12683	1.01085	1.24437	1.478	1.157	10.07	10.12683
3011	478976.63	3850271.93	3.0247	6.91332	0.8432	1.39424	1.842	1.688	6.9031	6.91332
3012	479026.63	3850271.93	3.08695	6.47059	0.81518	1.38981	1.906	1.772	6.4645	6.47059
3013	479076.63	3850271.93	3.03977	6.11533	0.78693	1.37623	1.967	1.844	6.1225	6.11533
3014	479126.63	3850271.93	2.9843	5.85842	0.75946	1.35264	2.024	1.9	5.9038	5.85842
3015	479176.63	3850271.93	2.92987	5.61591	0.73307	1.34046	2.074	1.934	5.705	5.61591
3016	479226.63	3850271.93	2.87444	5.38777	0.70738	1.32941	2.114	1.946	5.517	5.38777
3017	479276.63	3850271.93	2.82177	5.19466	0.6813	1.3156	2.152	1.936	5.355	5.19466

26.7062758	7.420891943	6.136E-05	0.063448	1.045896	0.24057	27.32625	2.73E+01	3.55E+01
26.6812348	7.187126561	5.892E-05	0.061792	1.048377	0.2335	26.15603	2.65E+01	3.49E+01
26.7195267	6.938622712	5.788E-05	0.059852	1.045244	0.22479	25.06319	2.55E+01	3.45E+01
27.2816982	6.504835279	5.614E-05	0.057916	1.048428	0.20677	23.68083	2.39E+01	3.48E+01
27.1036981	6.391046188	5.566E-05	0.055635	1.029006	0.20448	22.89535	2.35E+01	3.41E+01
27.0437039	6.301433355	5.512E-05	0.053303	1.014305	0.20031	22.18412	2.32E+01	3.36E+01
27.5493244	5.989247508	5.449E-05	0.050732	1.021794	0.18616	21.38815	2.21E+01	3.41E+01
27.7371322	5.89106494	5.463E-05	0.049134	1.014113	0.18137	21.18041	2.17E+01	3.44E+01
26.9145339	10.54537304	8.302E-05	0.071329	0.877676	0.21545	40.62547	3.88E+01	4.04E+01
27.5695659	10.08402948	8.017E-05	0.070748	0.90877	0.22646	38.86703	3.71E+01	4.06E+01
27.9414254	9.649706437	7.745E-05	0.069617	0.937965	0.23723	37.20126	3.55E+01	4.05E+01
27.5766608	8.472937745	6.971E-05	0.067298	1.007431	0.25398	32.69731	3.12E+01	3.89E+01
26.7655396	11.45047744	8.687E-05	0.071754	0.842788	0.20702	44.06273	4.22E+01	4.12E+01
27.5809387	10.94395807	8.391E-05	0.07178	0.875285	0.21977	42.13012	4.03E+01	4.15E+01
28.2835487	10.4735461	8.104E-05	0.071273	0.906454	0.23096	40.3376	3.86E+01	4.17E+01
28.6024047	10.03466115	7.829E-05	0.070214	0.935822	0.24166	38.66056	3.69E+01	4.16E+01
28.2458828	9.226575765	7.305E-05	0.068383	0.985724	0.25559	35.60259	3.40E+01	4.04E+01
26.5557165	12.51641212	9.097E-05	0.071384	0.806368	0.19713	47.99326	4.61E+01	4.21E+01
27.3786279	11.85726282	8.787E-05	0.072017	0.83997	0.21117	45.57828	4.37E+01	4.23E+01
28.3346742	11.32643791	8.483E-05	0.072181	0.872696	0.22411	43.55889	4.17E+01	4.27E+01
29.0951916	10.84147217	8.189E-05	0.07181	0.904189	0.23542	41.71435	3.99E+01	4.29E+01
29.0820451	9.968338054	7.649E-05	0.069207	0.959742	0.25447	38.41583	3.67E+01	4.20E+01
28.7647542	9.575164517	7.382E-05	0.068897	0.983877	0.25971	37.04234	3.53E+01	4.14E+01
28.4714609	9.195270375	7.112E-05	0.068384	1.006352	0.26152	35.71589	3.39E+01	4.09E+01
28.1617866	8.840697585	6.846E-05	0.06775	1.025418	0.26023	34.47963	3.25E+01	4.03E+01
27.1097497	13.10203531	9.204E-05	0.071527	0.803479	0.20106	50.208	4.82E+01	4.33E+01
28.091776	12.37689535	8.88E-05	0.072358	0.837265	0.21529	47.44081	4.56E+01	4.35E+01
29.232813	11.71069079	8.57E-05	0.072612	0.870225	0.22842	44.98864	4.31E+01	4.40E+01
30.0394477	10.70991565	8.007E-05	0.071233	0.930078	0.25064	41.19776	3.94E+01	4.38E+01
29.6811521	10.2755372	7.737E-05	0.069769	0.956267	0.25895	39.72549	3.78E+01	4.31E+01
29.3343336	9.887608933	7.458E-05	0.069411	0.982006	0.26373	38.39571	3.64E+01	4.25E+01
28.9694647	9.517207989	7.187E-05	0.068768	1.004355	0.26537	37.08442	3.50E+01	4.19E+01
28.5649475	9.162505914	6.926E-05	0.068108	1.022136	0.2643	35.86815	3.37E+01	4.12E+01
28.0552578	8.888680714	6.683E-05	0.066985	1.031195	0.26166	34.74576	3.27E+01	4.03E+01
27.5417077	8.639068709	6.442E-05	0.065598	1.034243	0.25721	33.57249	3.18E+01	3.93E+01
27.4857827	8.436664125	6.307E-05	0.064046	1.044888	0.24937	32.40851	3.11E+01	3.86E+01
27.4725318	8.152477671	6.192E-05	0.0623	1.051021	0.24017	31.05414	3.00E+01	3.80E+01
27.173187	17.1090329	0.0001037	0.065751	0.695257	0.15979	65.40327	6.30E+01	4.76E+01
26.9596077	15.66416448	0.0001001	0.068245	0.730979	0.17463	59.92678	5.77E+01	4.59E+01
31.0160486	11.50014127	8.386E-05	0.0727	0.897347	0.24468	44.18466	4.23E+01	4.56E+01
30.8209371	10.99037131	8.104E-05	0.071835	0.925782	0.25504	42.24087	4.05E+01	4.48E+01
30.3840751	10.56402699	7.816E-05	0.070547	0.953721	0.26293	40.85391	3.89E+01	4.42E+01
29.942205	10.1633734	7.538E-05	0.07005	0.978723	0.2677	39.54446	3.74E+01	4.35E+01
29.4437839	9.76443746	7.277E-05	0.069385	0.998109	0.2696	38.23884	3.59E+01	4.28E+01
28.929399	9.387424522	7.019E-05	0.068652	1.013255	0.26874	37.01478	3.46E+01	4.21E+01
28.3947727	9.058542468	6.764E-05	0.06765	1.023955	0.26558	35.82677	3.34E+01	4.13E+01
28.0638135	8.889844277	6.502E-05	0.066424	1.039312	0.25892	34.76021	3.27E+01	4.03E+01
27.9183668	8.681049329	6.395E-05	0.064863	1.048527	0.25132	33.62974	3.20E+01	3.96E+01
28.9296077	21.41006106	0.0001092	0.062491	0.657157	0.14834	81.61748	7.88E+01	5.40E+01
28.2869919	18.70350231	0.0001052	0.065546	0.692941	0.16271	71.35093	6.89E+01	5.04E+01
31.5590219	12.76838819	8.778E-05	0.07344	0.863618	0.23745	48.91117	4.70E+01	4.74E+01
32.208524	11.95069879	8.487E-05	0.073207	0.893605	0.24929	45.8031	4.40E+01	4.72E+01
31.7162588	11.29455997	8.192E-05	0.072492	0.922448	0.25937	43.3804	4.16E+01	4.61E+01
31.1374976	10.8200663	7.906E-05	0.071249	0.949285	0.26722	41.83084	3.98E+01	4.52E+01
30.5695876	10.37216835	7.632E-05	0.070607	0.972365	0.27201	40.42163	3.82E+01	4.45E+01
29.9912437	9.950810729	7.364E-05	0.070025	0.991426	0.27378	39.08994	3.66E+01	4.37E+01
29.4416971	9.594150913	7.093E-05	0.069298	1.009245	0.27235	37.94197	3.53E+01	4.30E+01

3018	479326.63	3850271.93	2.77383	5.04577	0.65451	1.29986	2.192	1.903	5.2111	5.04577
3019	479376.63	3850271.93	2.74287	4.95192	0.63242	1.2771	2.229	1.852	5.0634	4.95192
3020	479053.24	3850293.52	3.1355	6.54706	0.81674	1.3926	1.908	1.794	6.5408	6.54706
3021	479103.24	3850293.52	3.07212	6.14557	0.7885	1.37848	1.968	1.865	6.1596	6.14557
3022	479153.24	3850293.52	3.01318	5.89298	0.76048	1.35523	2.026	1.917	5.9429	5.89298
3023	479203.24	3850293.52	2.95332	5.63731	0.73422	1.3443	2.072	1.949	5.7312	5.63731
3024	479253.24	3850293.52	2.89636	5.41957	0.70783	1.33394	2.115	1.957	5.5547	5.41957
3025	479303.24	3850293.52	2.84412	5.24618	0.68075	1.32085	2.16	1.941	5.4079	5.24618
3026	479353.24	3850293.52	2.79419	5.10272	0.65355	1.30497	2.202	1.903	5.2636	5.10272
3027	479153.24	3850343.52	3.17586	6.42016	0.79756	1.38986	1.898	1.896	6.4268	6.42016
3028	479203.24	3850343.52	3.10081	6.04403	0.7697	1.36746	1.943	1.949	6.0963	6.04403
3029	479253.24	3850343.52	3.03504	5.795	0.74138	1.35715	1.984	1.976	5.8815	5.795
3030	479303.24	3850343.52	2.98199	5.59987	0.71324	1.3501	2.119	1.978	5.7236	5.59987
3031	479353.24	3850343.52	2.94801	5.42219	0.68551	1.33635	2.168	1.957	5.5751	5.42219
3032	479203.24	3850393.52	3.29987	6.76081	0.80627	1.40113	1.901	1.926	6.7626	6.76081
3033	479253.24	3850393.52	3.24347	6.34417	0.77671	1.38239	1.948	1.976	6.3715	6.34417
3034	479303.24	3850393.52	3.20095	6.06306	0.7475	1.37164	1.99	2	6.1282	6.06306
3035	479353.24	3850393.52	3.14823	5.82112	0.71879	1.36622	2.027	1.999	5.9269	5.82112
3036	479403.24	3850393.52	3.08396	5.61456	0.69079	1.35147	2.173	1.975	5.753	5.61456
3037	479453.24	3850393.52	3.01698	5.45709	0.66268	1.33745	2.223	1.929	5.5909	5.45709
3038	479503.24	3850393.52	2.97977	5.32492	0.65037	1.31538	2.269	1.867	5.4231	5.32492
3039	479303.24	3850443.52	3.43527	6.82974	0.7825	1.39949	1.951	2.001	6.8114	6.82974
3040	479353.24	3850443.52	3.36145	6.46665	0.75234	1.3883	1.995	2.021	6.4717	6.46665
3041	479403.24	3850443.52	3.27931	6.19512	0.72283	1.3849	2.135	2.014	6.2446	6.19512
3042	479453.24	3850443.52	3.19126	5.93579	0.69398	1.37139	2.193	1.983	6.0191	5.93579
3043	479503.24	3850443.52	3.10854	5.70653	0.66889	1.35606	2.246	1.932	5.7849	5.70653
3044	480327.18	3850987.04	3.69282	7.63336	0.70797	1.37483	2.332	1.796	7.7434	7.63336
3045	480377.18	3850987.04	3.73054	7.18354	0.68858	1.35557	2.333	1.744	7.2875	7.18354
3046	480427.18	3850987.04	3.76201	6.76516	0.71615	1.34419	2.323	1.697	6.8373	6.76516
3047	480477.18	3850987.04	3.79063	6.4347	0.76033	1.36184	2.303	1.66	6.3699	6.4347
3048	480327.18	3851037.04	3.72846	9.0511	0.73388	1.41622	2.339	1.868	9.1641	9.0511
3049	480377.18	3851037.04	3.76575	8.34232	0.71621	1.39797	2.349	1.81	8.4553	8.34232
3050	480427.18	3851037.04	3.79563	7.79794	0.70254	1.37977	2.353	1.757	7.9006	7.79794
3051	480477.18	3851037.04	3.81779	7.24536	0.74276	1.37178	2.344	1.712	7.3485	7.24536
3052	480622.06	3851087.39	3.92239	7.07035	0.90398	1.43465	2.327	1.759	7.09	7.07035
3053	480672.06	3851087.39	3.94716	7.03353	0.99924	1.45814	2.316	1.816	7.0826	7.03353
3054	480622.06	3851137.39	3.97711	7.93844	0.87135	1.44293	2.371	1.75	8.0051	7.93844
3055	480672.06	3851137.39	3.99182	7.57559	0.95692	1.46375	2.351	1.802	7.6018	7.57559
3056	480722.06	3851137.39	4.01099	7.56016	1.06175	1.48639	2.338	1.859	7.6289	7.56016
3057	480622.06	3851187.39	4.07772	9.72467	0.84197	1.45644	2.401	1.767	9.851	9.72467
3058	480672.06	3851187.39	4.07416	8.70113	0.91973	1.47402	2.39	1.795	8.8138	8.70113
3059	480722.06	3851187.39	4.07689	8.19977	1.0167	1.49614	2.369	1.851	8.2345	8.19977
3060	471363.09	3845877.25	0.82911	0.9735	0.2195	0.30239	0.533	0.376	0.9485	0.9735
3061	471863.09	3845877.25	0.95815	0.63173	0.25293	0.28223	0.5	0.416	0.6033	0.63173
3062	472363.09	3845877.25	1.06643	0.92544	0.42893	0.33181	0.583	0.449	0.8298	0.92544
3063	472863.09	3845877.25	1.03841	0.59746	0.48282	0.40253	0.701	0.408	0.5848	0.59746
3064	473363.09	3845877.25	0.98982	0.57786	0.49313	0.58265	0.838	0.474	0.7198	0.57786
3065	473863.09	3845877.25	0.84889	0.55835	0.41228	0.74073	1.195	0.5	0.7223	0.55835
3066	474363.09	3845877.25	0.73623	0.58718	0.38067	0.56274	1.348	0.388	0.6859	0.58718
3067	474863.09	3845877.25	0.852	0.66186	0.35225	0.49883	1.087	0.351	0.7399	0.66186
3068	475363.09	3845877.25	1.25013	0.78754	0.31268	0.36028	0.903	0.516	0.7816	0.78754
3069	475863.09	3845877.25	1.5623	0.90291	0.29697	0.32104	0.681	0.547	0.7721	0.90291
3070	476363.09	3845877.25	1.6115	0.83379	0.31842	0.43355	0.578	0.54	0.9083	0.83379
3071	476863.09	3845877.25	1.25466	0.61395	0.30042	0.58313	0.584	0.533	0.741	0.61395
3072	477363.09	3845877.25	0.97261	0.53931	0.26813	0.69796	0.957	0.48	0.6507	0.53931
3073	477863.09	3845877.25	0.78896	0.46529	0.25717	0.55672	1.791	0.33	0.479	0.46529
3074	478363.09	3845877.25	0.95166	0.4413	0.26064	0.37947	1.564	0.24	0.445	0.4413

28.9415022	9.319162149	6.814E-05	0.068469	1.027932	0.26769	36.92252	3.43E+01	4.22E+01
28.6184727	9.145828175	6.584E-05	0.06727	1.045366	0.26047	35.87595	3.37E+01	4.13E+01
32.7150835	12.09193319	8.503E-05	0.073354	0.894698	0.25238	46.34414	4.45E+01	4.79E+01
32.0537912	11.350411	8.209E-05	0.07261	0.922894	0.26231	43.64327	4.18E+01	4.65E+01
31.4388249	10.88389605	7.917E-05	0.071385	0.949866	0.26971	42.10724	4.01E+01	4.56E+01
30.8142595	10.41169256	7.644E-05	0.07081	0.971816	0.27418	40.60727	3.83E+01	4.48E+01
30.219952	10.00954297	7.369E-05	0.070264	0.991947	0.27534	39.35727	3.69E+01	4.41E+01
29.6748918	9.689304523	7.087E-05	0.069575	1.01264	0.27304	38.31699	3.57E+01	4.34E+01
29.1539337	9.424344566	6.804E-05	0.068738	1.032757	0.26773	37.29479	3.47E+01	4.25E+01
33.1361905	11.85755832	8.303E-05	0.07321	0.889784	0.26674	45.53641	4.37E+01	4.81E+01
32.3531361	11.16287417	8.013E-05	0.07203	0.911246	0.27413	43.1942	4.11E+01	4.69E+01
31.6669071	10.70293427	7.718E-05	0.071487	0.930317	0.27794	41.67255	3.94E+01	4.59E+01
31.1133956	10.34254366	7.425E-05	0.071115	0.993832	0.27824	40.55384	3.81E+01	4.53E+01
30.7588561	10.01438191	7.137E-05	0.070391	1.016743	0.27529	39.50131	3.69E+01	4.48E+01
34.4300822	12.48671355	8.394E-05	0.073803	0.891293	0.27098	47.91511	4.60E+01	5.01E+01
33.8416176	11.71721044	8.086E-05	0.072816	0.913253	0.27795	45.14402	4.31E+01	4.88E+01
33.3979737	11.19802117	7.782E-05	0.07225	0.933018	0.28134	43.42015	4.12E+01	4.81E+01
32.8479054	10.75117597	7.483E-05	0.071964	0.950387	0.28115	41.99451	3.96E+01	4.73E+01
32.1773271	10.369675	7.192E-05	0.071187	1.019093	0.27777	40.76229	3.82E+01	4.65E+01
31.4784732	10.07883962	6.899E-05	0.070449	1.042431	0.27132	39.61369	3.71E+01	4.54E+01
31.0902327	9.834731451	6.771E-05	0.069286	1.063842	0.26266	38.42427	3.62E+01	4.45E+01
35.8428146	12.61402214	8.146E-05	0.073717	0.914913	0.28152	48.26108	4.64E+01	5.15E+01
35.0725937	11.9434219	7.832E-05	0.073127	0.935292	0.2843	45.85419	4.40E+01	5.02E+01
34.2155639	11.44192617	7.525E-05	0.072948	1.001096	0.28328	44.24503	4.21E+01	4.91E+01
33.2968705	10.96296294	7.225E-05	0.072237	1.028176	0.27893	42.64742	4.04E+01	4.79E+01
32.4337891	10.53953676	6.964E-05	0.071429	1.053408	0.27184	40.98796	3.88E+01	4.66E+01
38.5300318	14.09824855	7.37E-05	0.072418	1.093632	0.25272	54.86471	5.19E+01	5.70E+01
38.9235936	13.26746444	7.169E-05	0.071403	1.094078	0.24532	51.63435	4.88E+01	5.64E+01
39.2519443	12.49474768	7.456E-05	0.070804	1.089327	0.23877	48.44502	4.60E+01	5.56E+01
39.5505588	11.88441262	7.915E-05	0.071734	1.07994	0.23358	45.13311	4.38E+01	5.42E+01
38.9018914	16.71670895	7.64E-05	0.074598	1.096638	0.26279	64.93103	6.15E+01	6.04E+01
39.2909666	15.40764497	7.456E-05	0.073637	1.101618	0.25459	59.90899	5.67E+01	5.93E+01
39.6027276	14.40221558	7.314E-05	0.072678	1.103217	0.24712	55.97853	5.30E+01	5.84E+01
39.83394	13.38164139	7.733E-05	0.072257	1.099273	0.24081	52.06642	4.93E+01	5.74E+01
40.9253122	13.05841093	9.411E-05	0.075569	1.09117	0.24747	50.23549	4.81E+01	5.76E+01
41.1837567	12.99040712	0.000104	0.076806	1.085923	0.25542	50.18306	4.78E+01	5.79E+01
41.4962481	14.66170863	9.071E-05	0.076005	1.111981	0.24621	56.71931	5.40E+01	6.03E+01
41.6497288	13.99155165	9.962E-05	0.077102	1.102223	0.25351	53.8615	5.15E+01	5.94E+01
41.8497442	13.96305359	0.0001105	0.078294	1.09653	0.26156	54.05372	5.14E+01	5.99E+01
42.5459896	17.96074268	8.765E-05	0.076717	1.125828	0.24852	69.79789	6.61E+01	6.56E+01
42.5088454	16.07034037	9.575E-05	0.077643	1.120604	0.25245	62.44881	5.92E+01	6.33E+01
42.5373296	15.14436572	0.0001058	0.078808	1.11101	0.26044	58.34405	5.58E+01	6.17E+01
8.65074244	1.797982142	2.285E-05	0.015928	0.249929	0.05288	6.720252	6.62E+00	1.09E+01
9.99711602	1.166758355	2.633E-05	0.014866	0.234657	0.05856	4.274244	4.30E+00	1.15E+01
11.1268846	1.709218894	4.465E-05	0.017478	0.273478	0.0631	5.879574	6.29E+00	1.28E+01
10.8345303	1.103464212	5.026E-05	0.021203	0.328933	0.05746	4.143732	4.06E+00	1.24E+01
10.3275535	1.067264469	5.134E-05	0.030691	0.392776	0.06664	5.100326	3.93E+00	1.31E+01
8.85712239	1.031230949	4.292E-05	0.039017	0.560213	0.07033	5.117473	3.80E+00	1.19E+01
7.68165395	1.084477816	3.963E-05	0.029642	0.632202	0.05462	4.859991	3.99E+00	1.03E+01
8.88957142	1.222406225	3.667E-05	0.026275	0.509626	0.04939	5.242671	4.50E+00	1.14E+01
13.043568	1.454527844	3.255E-05	0.018977	0.423209	0.07256	5.538201	5.36E+00	1.52E+01
16.3006777	1.667607659	3.092E-05	0.01691	0.319245	0.07688	5.47082	6.14E+00	1.77E+01
16.8140192	1.539948156	3.315E-05	0.022837	0.270923	0.07595	6.435917	5.67E+00	1.95E+01
13.0908329	1.133920016	3.128E-05	0.030716	0.273671	0.07503	5.250536	4.17E+00	1.57E+01
10.1479883	0.996065484	2.791E-05	0.036764	0.448521	0.06747	4.610515	3.67E+00	1.26E+01
8.2318266	0.859356046	2.677E-05	0.029325	0.840003	0.04645	3.39403	3.16E+00	1.02E+01
9.92940086	0.815048299	2.713E-05	0.019988	0.73346	0.03377	3.153269	3.00E+00	1.17E+01

3075	478863.09	3845877.25	1.03224	0.41338	0.25695	0.33855	0.703	0.26	0.4142	0.41338	10.770154	0.763482134	2.675E-05	0.017833	0.32957	0.03651	2.934615	2.81E+00	1.20E+01
3076	479363.09	3845877.25	1.18879	0.44637	0.27031	0.33475	0.489	0.313	0.4349	0.44637	12.4035606	0.824412212	2.814E-05	0.017633	0.229072	0.04396	3.08114	3.04E+00	1.36E+01
3077	479863.09	3845877.25	1.29317	0.41398	0.31104	0.33921	0.423	0.344	0.401	0.41398	13.4926374	0.76459029	3.238E-05	0.017868	0.198189	0.04839	2.840875	2.82E+00	1.45E+01
3078	480363.09	3845877.25	1.2481	0.37178	0.35298	0.32018	0.462	0.315	0.3595	0.37178	13.0223874	0.686650026	3.675E-05	0.016865	0.216542	0.04433	2.546833	2.53E+00	1.40E+01
3079	480863.09	3845877.25	1.04621	0.34911	0.40627	0.31255	0.64	0.311	0.3177	0.34911	10.9159137	0.644780221	4.23E-05	0.016463	0.300155	0.04372	2.250736	2.37E+00	1.18E+01
3080	481363.09	3845877.25	0.90515	0.29363	0.34408	0.30454	0.666	0.286	0.2965	0.29363	9.44412625	0.542312785	3.582E-05	0.016041	0.31216	0.04025	2.100597	2.00E+00	1.05E+01
3081	481863.09	3845877.25	0.67088	0.26784	0.2432	0.27513	0.66	0.29	0.2757	0.26784	6.99980713	0.494680572	2.532E-05	0.014492	0.30958	0.04077	1.953151	1.82E+00	7.99E+00
3082	482363.09	3845877.25	0.50971	0.25286	0.22984	0.2691	0.539	0.307	0.2618	0.25286	5.31819653	0.467013625	2.393E-05	0.014175	0.252574	0.04319	1.85516	1.72E+00	6.23E+00
3083	482863.09	3845877.25	0.4657	0.24739	0.24863	0.25679	0.624	0.321	0.2544	0.24739	4.85900635	0.456910942	2.588E-05	0.013526	0.292807	0.04516	1.802162	1.68E+00	5.79E+00
3084	483363.09	3845877.25	0.43923	0.26288	0.26975	0.26221	0.845	0.304	0.2569	0.26288	4.58282448	0.485519821	2.808E-05	0.013812	0.396119	0.04276	1.820158	1.79E+00	5.55E+00
3085	483863.09	3845877.25	0.50918	0.23417	0.34547	0.27191	1.087	0.294	0.2461	0.23417	5.31266664	0.432494585	3.597E-05	0.014323	0.509945	0.04136	1.743636	1.59E+00	6.46E+00
3086	484363.09	3845877.25	0.50375	0.22806	0.34638	0.27154	1.036	0.247	0.2376	0.22806	5.25601127	0.421209869	3.606E-05	0.014303	0.485749	0.0348	1.683269	1.55E+00	6.34E+00
3087	484863.09	3845877.25	0.45476	0.22554	0.3087	0.27259	0.883	0.207	0.2311	0.22554	4.74486091	0.416555616	3.214E-05	0.014358	0.414009	0.02918	1.637356	1.53E+00	5.72E+00
3088	485363.09	3845877.25	0.43819	0.22249	0.24632	0.28318	0.576	0.217	0.2254	0.22249	4.57197336	0.410922493	2.564E-05	0.014916	0.270004	0.03052	1.597324	1.51E+00	5.38E+00
3089	485863.09	3845877.25	0.42487	0.22321	0.25466	0.27832	0.469	0.231	0.2252	0.22321	4.43299555	0.412252279	2.651E-05	0.01466	0.219726	0.03249	1.595836	1.52E+00	5.19E+00
3090	486363.09	3845877.25	0.4367	0.22427	0.28243	0.24966	0.546	0.24	0.226	0.22427	4.55642704	0.414210021	2.94E-05	0.013151	0.255842	0.03374	1.601008	1.53E+00	5.35E+00
3091	486863.09	3845877.25	0.44992	0.21857	0.26665	0.23451	0.605	0.257	0.2202	0.21857	4.69436147	0.403682544	2.776E-05	0.012353	0.283476	0.03613	1.559842	1.49E+00	5.50E+00
3092	487363.09	3845877.25	0.47435	0.2171	0.28085	0.21206	0.773	0.285	0.2187	0.2171	4.94925845	0.400967563	2.924E-05	0.01117	0.362578	0.04014	1.549568	1.48E+00	5.84E+00
3093	487863.09	3845877.25	0.39207	0.21503	0.24272	0.20323	0.962	0.254	0.2166	0.21503	4.09076792	0.397144427	2.527E-05	0.010705	0.450908	0.03574	1.53476	1.46E+00	5.06E+00
3094	488363.09	3845877.25	0.374	0.21362	0.19821	0.18897	1.275	0.249	0.2152	0.21362	3.90222971	0.394540262	2.063E-05	0.009954	0.59782	0.035	1.524628	1.45E+00	5.01E+00
3095	488863.09	3845877.25	0.42054	0.2132	0.23553	0.26024	1.094	0.27	0.2147	0.2132	4.38781733	0.393764553	2.452E-05	0.013708	0.512974	0.03791	1.52151	1.45E+00	5.42E+00
3096	489363.09	3845877.25	0.3506	0.21331	0.24377	0.29353	0.654	0.235	0.2149	0.21331	3.65807951	0.393967715	2.538E-05	0.015461	0.306725	0.03299	1.522431	1.45E+00	4.48E+00
3097	489863.09	3845877.25	0.29177	0.21339	0.26845	0.29941	0.58	0.19	0.215	0.21339	3.04426086	0.394115469	2.795E-05	0.015771	0.271936	0.02667	1.523423	1.45E+00	3.83E+00
3098	490363.09	3845877.25	0.30691	0.21306	0.28722	0.25764	0.553	0.182	0.2148	0.21306	3.20222813	0.393505984	2.99E-05	0.013571	0.259331	0.02567	1.521581	1.45E+00	3.97E+00
3099	490863.09	3845877.25	0.29001	0.21192	0.23658	0.22682	0.604	0.179	0.2137	0.21192	3.02589743	0.391400488	2.463E-05	0.011948	0.283162	0.02523	1.513858	1.44E+00	3.81E+00
3100	491363.09	3845877.25	0.32241	0.20935	0.18313	0.22726	0.688	0.178	0.2111	0.20935	3.36395155	0.386653889	1.906E-05	0.011971	0.322654	0.02498	1.495578	1.42E+00	4.18E+00
3101	491863.09	3845877.25	0.32469	0.20569	0.21323	0.25547	0.543	0.175	0.2074	0.20569	3.38774054	0.379894142	2.22E-05	0.013457	0.254562	0.02463	1.469362	1.40E+00	4.13E+00
3102	492363.09	3845877.25	0.28481	0.20365	0.24348	0.26419	0.419	0.164	0.2053	0.20365	2.97164183	0.376126413	2.535E-05	0.013916	0.196261	0.02305	1.454483	1.38E+00	3.65E+00
3103	492863.09	3845877.25	0.31239	0.20201	0.2325	0.22958	0.439	0.148	0.2023	0.20201	3.25940518	0.373097455	2.42E-05	0.012093	0.205766	0.02082	1.433652	1.37E+00	3.93E+00
3104	493363.09	3845877.25	0.30834	0.20003	0.19737	0.22474	0.459	0.146	0.1998	0.20003	3.21714842	0.369440542	2.055E-05	0.011838	0.215426	0.0205	1.415301	1.36E+00	3.89E+00
3105	493863.09	3845877.25	0.30533	0.1971	0.20079	0.24874	0.564	0.158	0.1973	0.1971	3.18574277	0.36402905	2.09E-05	0.013102	0.264574	0.02228	1.398154	1.34E+00	3.91E+00
3106	494363.09	3845877.25	0.30587	0.19407	0.19552	0.25302	0.695	0.17	0.1954	0.19407	3.19137701	0.358432865	2.035E-05	0.013328	0.325866	0.02387	1.384621	1.32E+00	3.98E+00
3107	494863.09	3845877.25	0.30583	0.19174	0.17731	0.24821	0.746	0.177	0.1941	0.19174	3.19095966	0.354129528	1.846E-05	0.013074	0.349607	0.02486	1.375056	1.30E+00	4.00E+00
3108	495363.09	3845877.25	0.30961	0.19022	0.17603	0.22223	0.729	0.195	0.1931	0.19022	3.2303993	0.351322201	1.833E-05	0.011706	0.341762	0.02739	1.368325	1.29E+00	4.04E+00
3109	495863.09	3845877.25	0.32138	0.18917	0.17194	0.21111	0.849	0.202	0.1923	0.18917	3.35320477	0.349382929	1.79E-05	0.01112	0.397925	0.02839	1.362444	1.29E+00	4.22E+00
3110	496363.09	3845877.25	0.33308	0.193	0.19639	0.20931	1.025	0.197	0.1944	0.193	3.47527987	0.356456655	2.045E-05	0.011025	0.480731	0.02775	1.377182	1.31E+00	4.42E+00
3111	496863.09	3845877.25	0.34659	0.19379	0.21683	0.19338	1.05	0.204	0.1952	0.19379	3.61624009	0.357915726	2.257E-05	0.010186	0.492281	0.0287	1.382992	1.32E+00	4.57E+00
3112	497363.09	3845877.25	0.35286	0.19353	0.20259	0.20809	0.95	0.217	0.1948	0.19353	3.68165982	0.357435525	2.109E-05	0.010961	0.445684	0.03053	1.380512	1.32E+00	4.59E+00
3113	497863.09	3845877.25	0.3514	0.19283	0.20024	0.23452	0.8	0.205	0.194	0.19283	3.66642652	0.356142677	2.085E-05	0.012353	0.375149	0.02889	1.374631	1.31E+00	4.50E+00
3114	498363.09	3845877.25	0.34179	0.1919	0.18688	0.26178	0.738	0.18	0.1929	0.1919	3.566158	0.354425037	1.946E-05	0.013789	0.34595	0.02537	1.366412	1.30E+00	4.37E+00
3115	471363.09	3846377.25	0.92499	8.9187	0.3079	0.62893	1.246	0.583	8.9895	8.9187	9.65113223	16.47217599	3.205E-05	0.033128	0.584067	0.08196	63.6935	6.06E+01	2.99E+01
3116	471863.09	3846377.25	0.93499	4.47412	0.24317	0.49541	0.908	0.525	4.5052	4.47412	9.75546993	8.263367089	2.532E-05	0.026095	0.425675	0.07392	31.92068	3.04E+01	2.00E+01
3117	472363.09	3846377.25	0.96681	0.83585	0.24665	0.2897	0.495	0.424	0.8137	0.83585	10.0874725	1.543752823	2.568E-05	0.01526	0.232256	0.05963	5.765429	5.68E+00	1.20E+01
3118	472863.09	3846377.25	1.06489	0.85279	0.40394	0.32515	0.577	0.454	0.8194	0.85279	11.1108166	1.575039744	4.205E-05	0.017127	0.270637	0.06386	5.805815	5.80E+00	1.30E+01
3119	473363.09	3846377.25	1.10528	0.83255	0.54856	0.39986	0.689	0.428	0.7832	0.83255	11.5322365	1.537657968	5.711E-05	0.021062	0.323142	0.06023	5.549184	5.66E+00	1.34E+01
3120	473863.09	3846377.25	1.08028	0.88308	0.58541	0.57937	0.826	0.494	1.0127	0.88308	11.2713923	1.630983123	6.094E-05	0.030518	0.387215	0.06948	7.175416	6.00E+00	1.46E+01
3121	474363.09	3846377.25	0.9521	0.93834	0.48551	0.83777	1.238	0.562	1.1499	0.93834	9.93399172	1.733044235	5.054E-05	0.044129	0.580395	0.07902	8.147456	6.38E+00	1.41E+01
3122	474863.09	3846377.25	0.86156	0.95656	0.41751	0.65998	1.491	0.442	1.0829	0.95656	8.98931825	1.766695221	4.347E-05	0.034764	0.698966	0.06223	7.672383	6.50E+00	1.27E+01
3123	475363.09	3846377.25	0.979	0.89926	0.3725	0.55735	1.219	0.422	0.9971	0.89926	10.2146601	1.66086638	3.878E-05	0.029358	0.571702	0.05938	7.064459	6.11E+00	1.35E+01
3124	475863.09	3846377.25	1.38484	0.95506	0.32279	0.39733	1.001	0.615	0.896	0.95506	14.449101	1.763924833	3.36E-05	0.020929	0.469435	0.08647	6.348554	6.49E+00	1.66E+01
3125	476363.09	3846377.25	1.67091	0.93563	0.30792	0.33388	0.732	0.572	0.8617	0.93563	17.4338894	1.728039067	3.206E-05	0.017587	0.343324	0.0804	6.105739	6.36E+00	1.93E+01
3126	476863.09	3846377.25	1.65931	0.81763	0.33228	0.49806	0.597	0.575	0.9303	0.81763	17.3128577	1.510101837	3.459E-05	0.026235	0.280114	0.08089	6.591511	5.56E+00	2.02E+01
3127	477363.09	3846377.25	1.30161	0.68006	0.30088	0.6455	0.603	0.568	0.7752	0.68006	13.5806984	1.256020273	3.132E-05	0.034001	0.282786	0.07984	5.492288	4.62E+00	1.61E+01
3128	477863.09	3846377.25	1.03585	0.6158	0.27233	0.73085	1.111	0.482	0.6451	0.6158	10.8078199	1.137336829	2.835E-05	0.038497	0.521199	0.06777	4.570837	4.19E+00	1.30E+01
3129	478363.09	3846377.25	0.93632	0.56995	0.29523	0.56062	2.034	0.328	0.5755	0.56995	9.76934684	1.052655287	3.074E-05	0.02953	0.953557	0.04618	4.077696	3.88E+00	1.21E+01
3130	478863.09	3846377.25	1.13418	0.56261	0.28186	0.40527	1.583	0.278	0.5664	0.56261	11.8337724	1.039098852	2.934E-05	0.021347	0.742205	0.03911	4.012794	3.83E+00	1.39E+01
3131	479363.09	3846377.25	1.22927	0.55935	0.29071	0.38986	0.672	0.318	0.5582	0.55935	12.8259195	1.033077875	3.026E-05	0.020536	0.314973	0.04477	3.95519	3.80E+00	1.44E+01

3132	479863.09	3846377.25	1.33417	0.55601	0.30522	0.37111	0.488	0.367	0.5312	0.55601	13.9204219	1.026909143	3.178E-05	0.019548	0.229062	0.05167	3.763956	3.78E+00	1.52E+01
3133	480363.09	3846377.25	1.48855	0.49992	0.34577	0.38322	0.44	0.386	0.4871	0.49992	15.5311872	0.923315082	3.6E-05	0.020186	0.206278	0.05426	3.451492	3.40E+00	1.68E+01
3134	480863.09	3846377.25	1.25346	0.4628	0.39756	0.35753	0.537	0.336	0.4434	0.4628	13.0783124	0.854757201	4.139E-05	0.018833	0.251866	0.04724	3.141578	3.15E+00	1.42E+01
3135	481363.09	3846377.25	1.0433	0.36203	0.38276	0.34321	0.797	0.332	0.3793	0.36203	10.8855515	0.668642501	3.985E-05	0.018078	0.373832	0.04668	2.687194	2.46E+00	1.22E+01
3136	481863.09	3846377.25	0.8952	0.32081	0.30836	0.30929	0.717	0.292	0.3284	0.32081	9.34031025	0.592512225	3.21E-05	0.016292	0.336229	0.04106	2.32662	2.18E+00	1.05E+01
3137	482363.09	3846377.25	0.64777	0.31539	0.23107	0.27464	0.64	0.305	0.3228	0.31539	6.75868272	0.582501888	2.406E-05	0.014466	0.299977	0.04293	2.287296	2.14E+00	7.84E+00
3138	482863.09	3846377.25	0.51112	0.29545	0.25712	0.27093	0.599	0.327	0.3027	0.29545	5.33290815	0.54567419	2.677E-05	0.014271	0.280864	0.04594	2.145022	2.01E+00	6.36E+00
3139	483363.09	3846377.25	0.5157	0.2972	0.33405	0.2861	0.768	0.342	0.3011	0.2972	5.38069481	0.54890631	3.478E-05	0.01507	0.360121	0.04808	2.133402	2.02E+00	6.47E+00
3140	483863.09	3846377.25	0.52949	0.27311	0.35305	0.28183	1.062	0.311	0.2877	0.27311	5.52457649	0.50441387	3.675E-05	0.014845	0.497776	0.04371	2.038175	1.86E+00	6.77E+00
3141	484363.09	3846377.25	0.50689	0.26913	0.35509	0.27664	1.078	0.263	0.2805	0.26913	5.2887733	0.497063106	3.697E-05	0.014572	0.505575	0.03706	1.987373	1.83E+00	6.50E+00
3142	484863.09	3846377.25	0.49076	0.2681	0.36184	0.27762	0.987	0.221	0.2754	0.2681	5.12047661	0.495160773	3.767E-05	0.014623	0.462654	0.03114	1.951379	1.82E+00	6.25E+00
3143	485363.09	3846377.25	0.45441	0.26648	0.31233	0.28286	0.777	0.232	0.2709	0.26648	4.74120909	0.492168753	3.252E-05	0.014899	0.36428	0.0326	1.919141	1.81E+00	5.75E+00
3144	485863.09	3846377.25	0.45629	0.26529	0.31396	0.28774	0.474	0.234	0.2682	0.26529	4.76082458	0.489970912	3.269E-05	0.015156	0.22239	0.03294	1.900435	1.80E+00	5.62E+00
3145	486363.09	3846377.25	0.43095	0.23911	0.282	0.25472	0.558	0.237	0.2409	0.23911	4.49643287	0.441618397	2.936E-05	0.013417	0.261451	0.03328	1.707005	1.63E+00	5.33E+00
3146	486863.09	3846377.25	0.45205	0.23976	0.2699	0.23645	0.612	0.261	0.2415	0.23976	4.7165854	0.442818899	2.81E-05	0.012455	0.286875	0.03676	1.711327	1.63E+00	5.58E+00
3147	487363.09	3846377.25	0.47678	0.23846	0.29841	0.22228	0.794	0.29	0.2403	0.23846	4.97461251	0.440417896	3.107E-05	0.011708	0.372162	0.04075	1.702258	1.62E+00	5.92E+00
3148	487863.09	3846377.25	0.49249	0.24425	0.30773	0.22402	1.233	0.301	0.2462	0.24425	5.13852703	0.451111595	3.204E-05	0.0118	0.577948	0.04237	1.744558	1.66E+00	6.31E+00
3149	488363.09	3846377.25	0.47923	0.24092	0.25193	0.23352	1.638	0.299	0.2428	0.24092	5.00017525	0.444961333	2.623E-05	0.0123	0.768038	0.0421	1.720113	1.64E+00	6.35E+00
3150	488863.09	3846377.25	0.43893	0.23764	0.23803	0.26436	1.245	0.274	0.2395	0.23764	4.57969434	0.438903417	2.478E-05	0.013925	0.583593	0.0386	1.696802	1.62E+00	5.74E+00
3151	489363.09	3846377.25	0.35815	0.23328	0.25694	0.29957	0.799	0.235	0.2352	0.23328	3.73685446	0.430850821	2.675E-05	0.01578	0.37462	0.033	1.666264	1.59E+00	4.67E+00
3152	489863.09	3846377.25	0.30722	0.22897	0.30337	0.32407	0.603	0.192	0.2309	0.22897	3.20546259	0.422890571	3.158E-05	0.01707	0.282697	0.02696	1.635656	1.56E+00	4.03E+00
3153	490363.09	3846377.25	0.32161	0.22741	0.27055	0.25574	0.593	0.186	0.2293	0.22741	3.35560453	0.420009367	2.817E-05	0.013471	0.278224	0.02614	1.624744	1.55E+00	4.17E+00
3154	490863.09	3846377.25	0.32928	0.22471	0.20537	0.22789	0.674	0.181	0.2266	0.22471	3.43563154	0.415022668	2.138E-05	0.012004	0.315845	0.02551	1.605188	1.53E+00	4.28E+00
3155	491363.09	3846377.25	0.32671	0.22002	0.20156	0.23528	0.678	0.18	0.2218	0.22002	3.40881676	0.406360586	2.098E-05	0.012393	0.317838	0.02535	1.571179	1.50E+00	4.25E+00
3156	491863.09	3846377.25	0.32519	0.21371	0.25623	0.27705	0.481	0.176	0.2146	0.21371	3.39295743	0.394706485	2.668E-05	0.014593	0.225658	0.02469	1.520802	1.45E+00	4.12E+00
3157	492363.09	3846377.25	0.31466	0.21059	0.24622	0.2717	0.436	0.164	0.2105	0.21059	3.28308984	0.388944077	2.563E-05	0.014312	0.204257	0.02302	1.491327	1.43E+00	3.97E+00
3158	492863.09	3846377.25	0.30949	0.20765	0.19175	0.2323	0.469	0.146	0.2074	0.20765	3.22914725	0.383514116	1.996E-05	0.012236	0.219862	0.02059	1.469362	1.41E+00	3.92E+00
3159	493363.09	3846377.25	0.30539	0.20448	0.19497	0.23788	0.504	0.153	0.2051	0.20448	3.1863688	0.377659361	2.03E-05	0.01253	0.236401	0.02153	1.452995	1.39E+00	3.90E+00
3160	493863.09	3846377.25	0.30486	0.20172	0.21333	0.26145	0.669	0.166	0.2035	0.20172	3.1808389	0.372561847	2.221E-05	0.013772	0.313843	0.02339	1.442013	1.37E+00	3.97E+00
3161	494363.09	3846377.25	0.30508	0.19976	0.19676	0.26389	0.772	0.177	0.2024	0.19976	3.18313433	0.368941872	2.048E-05	0.0139	0.362221	0.02483	1.434219	1.36E+00	4.03E+00
3162	494863.09	3846377.25	0.31216	0.19845	0.1824	0.2589	0.745	0.182	0.2016	0.19845	3.25700541	0.3665224	1.899E-05	0.013637	0.349443	0.0256	1.428054	1.35E+00	4.09E+00
3163	495363.09	3846377.25	0.32345	0.19741	0.17654	0.21947	0.821	0.206	0.2006	0.19741	3.37480267	0.364601597	1.838E-05	0.01156	0.384908	0.02897	1.421536	1.34E+00	4.24E+00
3164	495863.09	3846377.25	0.33786	0.20018	0.19126	0.21889	1.022	0.207	0.2016	0.20018	3.52515328	0.369717581	1.991E-05	0.01153	0.479057	0.02909	1.428621	1.36E+00	4.48E+00
3165	496363.09	3846377.25	0.35223	0.2035	0.21426	0.21324	1.09	0.203	0.2049	0.2035	3.67508655	0.375849374	2.231E-05	0.011232	0.511159	0.02858	1.451932	1.38E+00	4.67E+00
3166	496863.09	3846377.25	0.35909	0.2034	0.20794	0.20531	1.007	0.209	0.2047	0.2034	3.74666221	0.375664682	2.165E-05	0.010815	0.472234	0.02938	1.450232	1.38E+00	4.70E+00
3167	497363.09	3846377.25	0.35679	0.20373	0.20243	0.22822	0.838	0.218	0.2048	0.20373	3.72266454	0.376274167	2.107E-05	0.012021	0.3928	0.03073	1.451011	1.39E+00	4.60E+00
3168	497863.09	3846377.25	0.34555	0.20307	0.18115	0.25773	0.767	0.202	0.204	0.20307	3.60538897	0.375055196	1.886E-05	0.013576	0.35968	0.02847	1.445272	1.38E+00	4.45E+00
3169	498363.09	3846377.25	0.32634	0.20197	0.18537	0.26825	0.757	0.181	0.2031	0.20197	3.40495626	0.373023578	1.93E-05	0.01413	0.354784	0.0254	1.438753	1.37E+00	4.24E+00
3170	471363.09	3846877.25	0.89671	2.30582	0.68193	0.69051	1.244	0.592	2.3425	2.30582	9.35606524	4.258678154	7.099E-05	0.036372	0.583359	0.08324	16.59717	1.57E+01	1.52E+01
3171	471863.09	3846877.25	0.9584	3.71053	0.42454	0.66666	1.348	0.619	3.8471	3.71053	9.99972447	6.853073115	4.42E-05	0.035116	0.632028	0.08704	27.25816	2.52E+01	1.96E+01
3172	472363.09	3846877.25	1.02038	22.59786	0.26633	0.63229	1.201	0.617	22.798	22.59786	10.6464095	41.73656777	2.773E-05	0.033305	0.563336	0.08681	161.5338	1.54E+02	6.09E+01
3173	472863.09	3846877.25	0.97078	1.13266	0.24755	0.33348	0.582	0.429	1.1181	1.13266	10.1288945	2.091938832	2.577E-05	0.017566	0.272902	0.06032	7.922213	7.70E+00	1.28E+01
3174	473363.09	3846877.25	1.10406	1.0717	0.42087	0.32532	0.576	0.483	1.0539	1.0717	11.5195073	1.979350243	4.382E-05	0.017136	0.270036	0.06796	7.466978	7.29E+00	1.40E+01
3175	473863.09	3846877.25	1.18502	1.35295	0.66673	0.39247	0.673	0.465	1.3669	1.35295	12.3642253	2.498798088	6.941E-05	0.020673	0.315437	0.06536	9.685121	9.20E+00	1.57E+01
3176	474363.09	3846877.25	1.15656	1.29121	0.67396	0.55221	0.804	0.503	1.3039	1.29121	12.0672802	2.384768897	7.016E-05	0.029087	0.376945	0.0707	9.238602	8.78E+00	1.54E+01
3177	474863.09	3846877.25	1.03243	1.23961	0.54334	0.8869	1.219	0.602	1.3115	1.23961	10.7721364	2.289467533	5.657E-05	0.046717	0.571584	0.08467	9.292663	8.43E+00	1.46E+01
3178	475363.09	3846877.25	0.95178	1.12412	0.44307	0.7461	1.554	0.488	1.1348	1.12412	9.93065291	2.076166087	4.613E-05	0.0393	0.72878	0.06861	8.040184	7.64E+00	1.32E+01
3179	475863.09	3846877.25	1.10616	1.12715	0.3911	0.61481	1.348	0.492	1.1841	1.12715	11.5414182	2.081762271	4.072E-05	0.032385	0.631976	0.06915	8.389917	7.66E+00	1.51E+01
3180	476363.09	3846877.25	1.50468	1.11607	0.33325	0.43107	1.099	0.678	1.0497	1.11607	15.6994839	2.061298335	3.469E-05	0.022706	0.515244	0.09539	7.437574	7.59E+00	1.82E+01
3181	476863.09	3846877.25	1.78167	1.10044	0.32944	0.3535	0.789	0.596	1.0336	1.10044	18.5895337	2.032430887	3.43E-05	0.01862	0.369963	0.08379	7.323075	7.48E+00	2.09E+01
3182	477363.09	3846877.25	1.70787	0.93421	0.3433	0.56608	0.619	0.616	1.0863	0.93421	17.8195215	1.725416432	3.574E-05	0.029818	0.290055	0.08665	7.696615	6.35E+00	2.13E+01
3183	477863.09	3846877.25	1.36615	0.78264	0.29855	0.70388	0.646	0.59	0.8878	0.78264	14.2540939	1.445477908	3.108E-05	0.037076	0.302772	0.083	6.290454	5.32E+00	1.71E+01
3184	478363.09	3846877.25	1.13535	0.70987	0.31247	0.78463	1.382	0.511	0.7367	0.70987	11.8459799	1.311077127	3.253E-05	0.04133	0.648042	0.07193	5.219644	4.83E+00	1.43E+01
3185	478863.09	3846877.25	1.20637	0.66732	0.35318	0.59825	2.431	0.357	0.6746	0.66732	12.5869862	1.23249044	3.677E-05	0.031512	1.139741	0.05017	4.779997	4.54E+00	1.53E+01
3186	479363.09	3846877.25	1.29895	0.60187	0.29041	0.46973	1.524	0.325	0.6081	0.60187	13.5529446	1.111609154	3.023E-05	0.024743	0.714698	0.04573	4.308466	4.09E+00	1.57E+01
3187	479863.09	3846877.25	1.22333	0.51223	0.29771	0.34022	0.604	0.313	0.4959	0.51223	12.763943	0.946050737	3.099E-05	0.017921	0.283199	0.04402	3.513914	3.48E+00	1.41E+01
3188	480363.09	3846877.25	1.22276	0.47423	0.34201	0.29244	0.488	0.314	0.452	0.47423	12.7579957	0.875867562	3.561E-05	0.015404	0.22894	0.0442	3.202866	3.22E+00	1.39E+01

3189	480863.09	3846877.25	1.20459	0.40193	0.37259	0.30551	0.477	0.312	0.3665	0.40193	12.5684141	0.742334835	3.879E-05	0.016092	0.223693	0.04386	2.596785	2.73E+00	1.35E+01
3190	481363.09	3846877.25	1.11398	0.3757	0.42419	0.34563	0.642	0.336	0.3747	0.3757	11.6230103	0.693889975	4.416E-05	0.018206	0.30122	0.04726	2.655168	2.55E+00	1.28E+01
3191	481863.09	3846877.25	0.9674	0.3395	0.31606	0.33574	0.765	0.322	0.3563	0.3395	10.0936284	0.627031266	3.29E-05	0.017685	0.358498	0.04529	2.524656	2.31E+00	1.14E+01
3192	482363.09	3846877.25	0.66408	0.31684	0.23979	0.2856	0.685	0.305	0.3224	0.31684	6.9288575	0.58517993	2.496E-05	0.015044	0.321196	0.04291	2.284179	2.15E+00	8.02E+00
3193	482863.09	3846877.25	0.64228	0.31311	0.26739	0.28052	0.614	0.331	0.3206	0.31311	6.70140133	0.578290897	2.784E-05	0.014776	0.287982	0.0465	2.271496	2.13E+00	7.77E+00
3194	483363.09	3846877.25	0.52894	0.31075	0.35186	0.29023	0.71	0.354	0.3177	0.31075	5.51883792	0.573932153	3.663E-05	0.015288	0.333017	0.04978	2.251303	2.11E+00	6.63E+00
3195	483863.09	3846877.25	0.5481	0.30862	0.36019	0.30496	0.989	0.34	0.3139	0.30862	5.71874894	0.569998201	3.75E-05	0.016063	0.463855	0.04776	2.223882	2.10E+00	6.94E+00
3196	484363.09	3846877.25	0.51496	0.30666	0.36806	0.30885	1.176	0.293	0.3093	0.30666	5.37297382	0.566378227	3.832E-05	0.016268	0.551407	0.04128	2.191219	2.09E+00	6.65E+00
3197	484863.09	3846877.25	0.50825	0.28962	0.36608	0.28427	1.08	0.231	0.297	0.28962	5.30296323	0.534906613	3.811E-05	0.014974	0.506198	0.03256	2.104636	1.97E+00	6.53E+00
3198	485363.09	3846877.25	0.51208	0.2846	0.35948	0.2881	0.903	0.236	0.2896	0.2846	5.34292457	0.525635046	3.742E-05	0.015175	0.423429	0.03314	2.05192	1.94E+00	6.46E+00
3199	485863.09	3846877.25	0.45998	0.28123	0.33458	0.29414	0.505	0.247	0.2847	0.28123	4.79932519	0.519410907	3.483E-05	0.015494	0.236621	0.03478	2.01699	1.91E+00	5.71E+00
3200	486363.09	3846877.25	0.53196	0.28127	0.30949	0.26526	0.602	0.27	0.284	0.28127	5.5503479	0.519484784	3.222E-05	0.013972	0.282289	0.03791	2.012313	1.91E+00	6.50E+00
3201	486863.09	3846877.25	0.46526	0.27462	0.29208	0.25376	0.63	0.278	0.2773	0.27462	4.85441549	0.507202728	3.041E-05	0.013367	0.295325	0.03912	1.964558	1.87E+00	5.81E+00
3202	487363.09	3846877.25	0.48532	0.27704	0.32919	0.23974	0.895	0.313	0.2796	0.27704	5.0637169	0.511672288	3.427E-05	0.012628	0.419809	0.04404	1.981209	1.88E+00	6.15E+00
3203	487863.09	3846877.25	0.49674	0.26742	0.30935	0.2347	1.293	0.311	0.2701	0.26742	5.18287055	0.493904863	3.221E-05	0.012363	0.60643	0.04375	1.913969	1.82E+00	6.43E+00
3204	488363.09	3846877.25	0.48073	0.25207	0.25088	0.2429	1.698	0.31	0.2542	0.25207	5.0158259	0.465554554	2.612E-05	0.012795	0.796225	0.04363	1.801311	1.71E+00	6.42E+00
3205	488863.09	3846877.25	0.44542	0.24808	0.23817	0.26901	1.313	0.28	0.2502	0.24808	4.64740951	0.458185321	2.479E-05	0.01417	0.61563	0.03935	1.772686	1.69E+00	5.86E+00
3206	489363.09	3846877.25	0.38062	0.2455	0.29482	0.30709	0.803	0.236	0.2476	0.2455	3.97130126	0.453420253	3.069E-05	0.016176	0.376762	0.03323	1.754264	1.67E+00	4.94E+00
3207	489863.09	3846877.25	0.31953	0.23951	0.29855	0.33294	0.679	0.194	0.2414	0.23951	3.33390229	0.442357168	3.108E-05	0.017537	0.318279	0.02731	1.710619	1.63E+00	4.22E+00
3208	490363.09	3846877.25	0.33212	0.22869	0.25271	0.29773	0.659	0.19	0.2305	0.22869	3.46526345	0.422373432	2.631E-05	0.015683	0.30899	0.02678	1.632963	1.56E+00	4.32E+00
3209	490863.09	3846877.25	0.33382	0.22395	0.21792	0.25613	0.726	0.184	0.2255	0.22395	3.48300086	0.413619004	2.269E-05	0.013491	0.340501	0.02589	1.597749	1.52E+00	4.35E+00
3210	491363.09	3846877.25	0.32756	0.2199	0.2591	0.26632	0.672	0.183	0.2204	0.2199	3.41768546	0.406138955	2.697E-05	0.014028	0.315057	0.02572	1.561259	1.50E+00	4.24E+00
3211	491863.09	3846877.25	0.31853	0.21473	0.2596	0.27129	0.48	0.176	0.2144	0.21473	3.32346852	0.39659035	2.703E-05	0.01429	0.225001	0.02472	1.518889	1.46E+00	4.04E+00
3212	492363.09	3846877.25	0.31282	0.21075	0.21214	0.28899	0.59	0.164	0.2106	0.21075	3.2638917	0.389239585	2.209E-05	0.015222	0.276644	0.02309	1.492035	1.43E+00	4.03E+00
3213	492863.09	3846877.25	0.3058	0.2085	0.17759	0.23775	0.542	0.151	0.2095	0.2085	3.19064664	0.385084003	1.849E-05	0.012523	0.253976	0.0212	1.484454	1.42E+00	3.93E+00
3214	493363.09	3846877.25	0.30381	0.20669	0.21579	0.26402	0.626	0.162	0.2089	0.20669	3.16988344	0.381741067	2.247E-05	0.013907	0.293421	0.02276	1.480132	1.41E+00	3.96E+00
3215	493863.09	3846877.25	0.30467	0.20555	0.22344	0.27844	0.774	0.174	0.2085	0.20555	3.17885648	0.379635572	2.326E-05	0.014667	0.362873	0.02446	1.477085	1.40E+00	4.04E+00
3216	494363.09	3846877.25	0.31444	0.20484	0.1866	0.27526	0.797	0.183	0.2081	0.20484	3.28079441	0.378324255	1.943E-05	0.014499	0.373546	0.02572	1.474464	1.39E+00	4.15E+00
3217	494863.09	3846877.25	0.32506	0.20421	0.18152	0.25279	0.817	0.193	0.2075	0.20421	3.39160104	0.377160692	1.89E-05	0.013315	0.383229	0.02714	1.47	1.39E+00	4.27E+00
3218	495363.09	3846877.25	0.34186	0.20353	0.18519	0.21969	1.006	0.213	0.2063	0.20353	3.56688836	0.375904782	1.928E-05	0.011572	0.471873	0.02998	1.461497	1.38E+00	4.53E+00
3219	495863.09	3846877.25	0.35687	0.20289	0.21537	0.22154	1.128	0.206	0.2048	0.20289	3.72349924	0.37472275	2.242E-05	0.011669	0.529152	0.02894	1.451011	1.38E+00	4.74E+00
3220	496363.09	3846877.25	0.36467	0.20516	0.21142	0.2066	1.06	0.202	0.2062	0.20516	3.80488264	0.378915271	2.201E-05	0.010882	0.497223	0.02839	1.460647	1.40E+00	4.79E+00
3221	496863.09	3846877.25	0.36267	0.20914	0.19198	0.21982	0.885	0.205	0.21	0.20914	3.7840151	0.386266035	1.999E-05	0.011579	0.415017	0.02885	1.487572	1.42E+00	4.69E+00
3222	497363.09	3846877.25	0.37589	0.21257	0.18727	0.24968	0.798	0.218	0.2137	0.21257	3.92194953	0.39260099	1.95E-05	0.013152	0.374235	0.03061	1.514071	1.45E+00	4.80E+00
3223	497863.09	3846877.25	0.37497	0.21767	0.1844	0.28281	0.789	0.209	0.2198	0.21767	3.91235046	0.402020311	1.92E-05	0.014897	0.369762	0.02936	1.557008	1.48E+00	4.81E+00
3224	498363.09	3846877.25	0.36054	0.21407	0.2191	0.28579	0.823	0.212	0.2176	0.21407	3.76179117	0.395371379	2.281E-05	0.015054	0.385813	0.02977	1.541775	1.46E+00	4.67E+00
3225	471363.09	3847377.25	0.93591	1.90568	1.01711	0.71088	0.939	0.62	1.9222	1.90568	9.765069	3.519649315	0.0001059	0.037445	0.440193	0.0872	13.61948	1.30E+01	1.45E+01
3226	471863.09	3847377.25	0.94659	2.36606	0.8705	0.73657	1.188	0.623	2.385	2.36606	9.87650165	4.369936956	9.062E-05	0.038798	0.556856	0.08762	16.89844	1.61E+01	1.57E+01
3227	472363.09	3847377.25	0.9741	3.08837	0.58318	0.71199	1.389	0.638	3.1181	3.08837	10.1635346	5.703989838	6.071E-05	0.037503	0.651207	0.08975	22.09301	2.10E+01	1.77E+01
3228	472863.09	3847377.25	1.10876	7.55058	0.32001	0.72181	1.417	0.679	7.6627	7.55058	11.568546	13.94536004	3.331E-05	0.038021	0.664323	0.09554	54.29328	5.13E+01	2.93E+01
3229	473363.09	3847377.25	1.07227	3.40292	0.26023	0.52731	0.914	0.565	3.4245	3.40292	11.1878178	6.284940309	2.709E-05	0.027776	0.428662	0.07943	24.26375	2.31E+01	1.91E+01
3230	473863.09	3847377.25	1.15044	2.0312	0.45014	0.3689	0.623	0.535	2.0459	2.0312	12.0034255	3.751475425	4.686E-05	0.019431	0.292043	0.07519	14.49594	1.38E+01	1.68E+01
3231	474363.09	3847377.25	1.24158	2.32768	0.75564	0.38808	0.671	0.503	2.3456	2.32768	12.9543592	4.299051949	7.867E-05	0.020442	0.314504	0.07072	16.61928	1.58E+01	1.85E+01
3232	474863.09	3847377.25	1.22418	1.69716	0.75424	0.51114	0.799	0.504	1.7116	1.69716	12.7728117	3.134528374	7.852E-05	0.026924	0.374859	0.07096	12.12759	1.15E+01	1.70E+01
3233	475363.09	3847377.25	1.09937	1.18422	0.58295	0.88766	1.157	0.621	1.3055	1.18422	11.4705729	2.18716632	6.069E-05	0.046757	0.54261	0.08731	9.249726	8.05E+00	1.55E+01
3234	475863.09	3847377.25	1.10638	1.25247	0.49768	0.87619	1.645	0.558	1.3618	1.25247	11.5437136	2.313218997	5.181E-05	0.046152	0.771588	0.07845	9.648986	8.52E+00	1.59E+01
3235	476363.09	3847377.25	1.29643	1.21696	0.41659	0.70124	1.535	0.656	1.2991	1.21696	13.5266515	2.247634666	4.337E-05	0.036937	0.719828	0.09225	9.204876	8.28E+00	1.76E+01
3236	476863.09	3847377.25	1.63496	1.27156	0.34406	0.47289	1.217	0.749	1.1455	1.27156	17.0587954	2.348476808	3.582E-05	0.024909	0.570647	0.10535	8.116423	8.65E+00	1.96E+01
3237	477363.09	3847377.25	1.90335	1.27762	0.35528	0.40666	0.859	0.654	1.2132	1.27762	19.8591147	2.359669177	3.699E-05	0.02142	0.402656	0.092	8.595676	8.69E+00	2.26E+01
3238	477863.09	3847377.25	1.7783	0.99101	0.35036	0.62878	0.642	0.653	1.1829	0.99101	18.5543719	1.83032181	3.647E-05	0.03312	0.300816	0.09193	8.381557	6.74E+00	2.25E+01
3239	478363.09	3847377.25	1.49133	0.90239	0.30053	0.79786	0.743	0.638	1.0358	0.90239	15.5601931	1.666647257	3.129E-05	0.042027	0.348609	0.08975	7.338875	6.14E+00	1.89E+01
3240	478863.09	3847377.25	1.27763	0.85444	0.3267	0.86266	1.777	0.564	0.8742	0.85444	13.3304966	1.578087171	3.401E-05	0.04544	0.833283	0.07937	6.193739	5.81E+00	1.63E+01
3241	479363.09	3847377.25	1.24532	0.71041	0.28624	0.52281	2.308	0.314	0.7171	0.71041	12.9933815	1.312074467	2.98E-05	0.027539	1.082064	0.04414	5.080771	4.83E+00	1.57E+01
3242	479863.09	3847377.25	1.01936	0.52124	0.29031	0.32276	0.942	0.255	0.5257	0.52124	10.635767	0.962691537	3.022E-05	0.017001	0.441516	0.03589	3.724774	3.54E+00	1.23E+01
3243	480363.09	3847377.25	0.78504	0.39739	0.34052	0.2622	0.582	0.273	0.3722	0.39739	8.19092623	0.733949793	3.545E-05	0.013811	0.272948	0.03834	2.637242	2.70E+00	9.19E+00
3244	480863.09	3847377.25	0.64027	0.37508	0.35909	0.2635	0.484	0.303	0.3532	0.37508	6.68042945	0.692744881	3.738E-05	0.01388	0.226976	0.04256	2.502408	2.55E+00	7.61E+00
3245	481363.09	3847377.25	0.83051	0.35584	0.36575	0.28745	0.522	0.302	0.3333	0.35584	8.66534971	0.657210031	3.808E-05	0.015141	0.244738	0.04244	2.361692	2.42E+00	9.57E+00

3246	481863.09	3847377.25	1.03252	0.36927	0.33582	0.35013	0.763	0.335	0.3918	0.36927	10.7730754	0.682014243	3.496E-05	0.018443	0.35764	0.04714	2.775974	2.51E+00	1.21E+01
3247	482363.09	3847377.25	0.92264	0.36291	0.32993	0.33996	0.799	0.325	0.3817	0.36291	9.62661288	0.670267796	3.435E-05	0.017907	0.374582	0.0457	2.704482	2.47E+00	1.10E+01
3248	482863.09	3847377.25	0.81755	0.34027	0.27903	0.28903	0.761	0.326	0.3474	0.34027	8.53012806	0.628453398	2.905E-05	0.015224	0.356646	0.04587	2.461313	2.31E+00	9.72E+00
3249	483363.09	3847377.25	0.66669	0.30757	0.37074	0.29091	0.677	0.355	0.3191	0.30757	6.95608963	0.568058929	3.86E-05	0.015323	0.317641	0.04994	2.260797	2.09E+00	8.08E+00
3250	483863.09	3847377.25	0.67626	0.30449	0.37602	0.30659	0.901	0.354	0.3148	0.30449	7.0559408	0.562370398	3.915E-05	0.016149	0.422609	0.04986	2.230542	2.07E+00	8.27E+00
3251	484363.09	3847377.25	0.64649	0.30228	0.37859	0.3162	1.217	0.313	0.3096	0.30228	6.74532749	0.558288692	3.941E-05	0.016656	0.570862	0.04405	2.193769	2.06E+00	8.07E+00
3252	484863.09	3847377.25	0.54577	0.29938	0.39442	0.31296	1.35	0.265	0.302	0.29938	5.69443825	0.552932608	4.106E-05	0.016485	0.632999	0.03724	2.139992	2.04E+00	7.04E+00
3253	485363.09	3847377.25	0.53609	0.29699	0.40372	0.29758	1.367	0.241	0.2994	0.29699	5.59343937	0.548518455	4.203E-05	0.015675	0.641149	0.0339	2.12157	2.02E+00	6.93E+00
3254	485863.09	3847377.25	0.52941	0.29515	0.38911	0.30508	0.723	0.257	0.2976	0.29515	5.52374179	0.545120112	4.051E-05	0.01607	0.33909	0.03616	2.108533	2.01E+00	6.56E+00
3255	486363.09	3847377.25	0.53542	0.29379	0.37954	0.29242	0.626	0.281	0.2963	0.29379	5.58644874	0.542608293	3.951E-05	0.015403	0.293318	0.03957	2.099251	2.00E+00	6.58E+00
3256	486863.09	3847377.25	0.54357	0.28456	0.30963	0.26299	0.656	0.328	0.2872	0.28456	5.67148396	0.525561169	3.223E-05	0.013853	0.307377	0.04608	2.035199	1.93E+00	6.66E+00
3257	487363.09	3847377.25	0.56339	0.28332	0.37829	0.24929	0.922	0.367	0.2861	0.28332	5.87828127	0.523270981	3.938E-05	0.013131	0.432442	0.05168	2.026909	1.93E+00	7.00E+00
3258	487863.09	3847377.25	0.52445	0.2792	0.33915	0.23984	1.359	0.36	0.2821	0.2792	5.47199029	0.515661648	3.531E-05	0.012633	0.637402	0.05071	1.998922	1.90E+00	6.79E+00
3259	488363.09	3847377.25	0.51721	0.27473	0.25593	0.255	1.759	0.333	0.2775	0.27473	5.3964498	0.50740589	2.664E-05	0.013432	0.824885	0.04679	1.966329	1.87E+00	6.89E+00
3260	488863.09	3847377.25	0.45364	0.27066	0.26248	0.29164	1.292	0.287	0.2733	0.27066	4.73317509	0.499888902	2.733E-05	0.015362	0.605792	0.0404	1.936358	1.84E+00	5.99E+00
3261	489363.09	3847377.25	0.41245	0.26671	0.3134	0.35309	0.82	0.244	0.2692	0.26671	4.30340813	0.492593546	3.263E-05	0.018599	0.384692	0.03431	1.907592	1.81E+00	5.33E+00
3262	489863.09	3847377.25	0.35618	0.24202	0.28516	0.34246	0.663	0.2	0.2439	0.24202	3.71629994	0.446992951	2.969E-05	0.018039	0.3111	0.02807	1.72819	1.65E+00	4.60E+00
3263	490363.09	3847377.25	0.33894	0.22529	0.25416	0.31677	0.776	0.205	0.2264	0.22529	3.53642176	0.416093885	2.646E-05	0.016686	0.363839	0.02882	1.603842	1.53E+00	4.43E+00
3264	490863.09	3847377.25	0.33404	0.22308	0.26314	0.30605	0.856	0.195	0.2232	0.22308	3.48529629	0.412012179	2.739E-05	0.016121	0.401268	0.02749	1.581453	1.52E+00	4.41E+00
3265	491363.09	3847377.25	0.32478	0.22088	0.27161	0.32031	0.706	0.191	0.2204	0.22088	3.38867958	0.407948942	2.828E-05	0.016872	0.330982	0.02691	1.561684	1.50E+00	4.23E+00
3266	491863.09	3847377.25	0.31704	0.2185	0.23079	0.33483	0.608	0.197	0.2187	0.2185	3.30792221	0.403553259	2.403E-05	0.017637	0.285112	0.02767	1.549214	1.49E+00	4.11E+00
3267	492363.09	3847377.25	0.30777	0.21726	0.18086	0.29756	0.615	0.173	0.2188	0.21726	3.21120117	0.401263072	1.883E-05	0.015674	0.288296	0.02434	1.550348	1.48E+00	4.01E+00
3268	492863.09	3847377.25	0.30282	0.21741	0.20313	0.25574	0.568	0.172	0.219	0.21741	3.15955401	0.40154011	2.115E-05	0.013471	0.266449	0.02418	1.551623	1.48E+00	3.94E+00
3269	493363.09	3847377.25	0.30827	0.21769	0.23953	0.29242	0.748	0.18	0.2193	0.21769	3.21641805	0.40205725	2.494E-05	0.015403	0.35062	0.02536	1.553607	1.48E+00	4.08E+00
3270	493863.09	3847377.25	0.31647	0.21781	0.21532	0.28376	0.836	0.181	0.2194	0.21781	3.30197496	0.402278881	2.242E-05	0.014947	0.392148	0.0255	1.554457	1.48E+00	4.21E+00
3271	494363.09	3847377.25	0.32678	0.21774	0.18267	0.26314	0.833	0.193	0.2193	0.21774	3.40954712	0.402149596	1.902E-05	0.013861	0.390488	0.0271	1.553536	1.48E+00	4.32E+00
3272	494863.09	3847377.25	0.3451	0.21761	0.18018	0.22686	0.972	0.202	0.2189	0.21761	3.60069377	0.401909496	1.876E-05	0.01195	0.455743	0.02835	1.551269	1.48E+00	4.57E+00
3273	495363.09	3847377.25	0.3606	0.21757	0.20637	0.21632	1.086	0.216	0.2186	0.21757	3.7624172	0.401835619	2.148E-05	0.011394	0.509129	0.03038	1.54886	1.48E+00	4.78E+00
3274	495863.09	3847377.25	0.36935	0.21764	0.21382	0.21504	0.997	0.21	0.2185	0.21764	3.85371268	0.401964903	2.226E-05	0.011327	0.467344	0.02949	1.547797	1.48E+00	4.83E+00
3275	496363.09	3847377.25	0.36751	0.21764	0.19885	0.21139	0.759	0.202	0.2187	0.21764	3.83451454	0.401964903	2.07E-05	0.011135	0.355811	0.02836	1.549498	1.48E+00	4.70E+00
3276	496863.09	3847377.25	0.3544	0.21737	0.18907	0.24347	0.83	0.204	0.2194	0.21737	3.69772783	0.401466233	1.968E-05	0.012825	0.389194	0.02867	1.55467	1.48E+00	4.61E+00
3277	497363.09	3847377.25	0.33053	0.21816	0.20573	0.27501	0.807	0.241	0.2219	0.21816	3.44867376	0.402925305	2.142E-05	0.014486	0.378638	0.0339	1.571958	1.48E+00	4.37E+00
3278	497863.09	3847377.25	0.38341	0.22904	0.28747	0.29178	0.875	0.236	0.2348	0.22904	4.00041147	0.423019856	2.993E-05	0.015369	0.410468	0.03321	1.663359	1.56E+00	4.99E+00
3279	498363.09	3847377.25	0.41058	0.23089	0.34433	0.3041	0.871	0.225	0.2381	0.23089	4.28389699	0.426436668	3.585E-05	0.016018	0.408658	0.03159	1.686954	1.57E+00	5.28E+00
3280	471363.09	3847877.25	1.01877	1.82697	0.98973	0.60532	1.208	0.672	1.841	1.82697	10.6296111	3.374277795	0.000103	0.031885	0.56659	0.09451	13.04422	1.24E+01	1.53E+01
3281	471863.09	3847877.25	1.00316	1.88949	1.13383	0.71924	1.02	0.664	1.8275	1.88949	10.46674	3.489747588	0.000118	0.037885	0.478462	0.09339	12.94864	1.28E+01	1.47E+01
3282	472363.09	3847877.25	1.0014	2.3262	1.07005	0.79988	1.121	0.676	2.3429	2.3262	10.4483765	4.296318499	0.0001114	0.042133	0.525794	0.09514	16.60029	1.58E+01	1.62E+01
3283	472863.09	3847877.25	1.05764	2.91784	0.8034	0.78574	1.379	0.671	2.9385	2.91784	11.0351717	5.389033604	8.364E-05	0.041388	0.646776	0.09442	20.82062	1.98E+01	1.82E+01
3284	473363.09	3847877.25	1.14393	4.0032	0.49002	0.74585	1.505	0.714	4.0394	4.0032	11.9355017	7.393612851	5.101E-05	0.039287	0.705564	0.10049	28.62082	2.72E+01	2.16E+01
3285	473863.09	3847877.25	1.33981	27.38794	0.29951	0.72909	1.382	0.751	28.799	27.38794	13.9792684	50.5834895	3.118E-05	0.038404	0.648065	0.10561	204.049	1.86E+02	8.32E+01
3286	474363.09	3847877.25	1.20296	2.73597	0.44546	0.47137	0.822	0.618	2.7686	2.73597	12.5514071	5.053133231	4.638E-05	0.024829	0.385508	0.087	19.61681	1.86E+01	1.91E+01
3287	474863.09	3847877.25	1.30061	2.67986	0.82164	0.41011	0.673	0.545	2.7173	2.67986	13.5702646	4.949502232	8.554E-05	0.021602	0.31563	0.07668	19.25284	1.82E+01	2.00E+01
3288	475363.09	3847877.25	1.28986	1.94196	0.83923	0.46736	0.788	0.508	1.9611	1.94196	13.4581016	3.586655778	8.737E-05	0.024618	0.369532	0.07141	13.89517	1.32E+01	1.82E+01
3289	475863.09	3847877.25	1.17653	1.63559	0.64195	0.86951	1.098	0.634	1.7807	1.63559	12.2756426	3.02081316	6.683E-05	0.045801	0.514643	0.08919	12.61711	1.11E+01	1.74E+01
3290	476363.09	3847877.25	1.30704	1.51399	0.5686	1.00697	1.704	0.634	1.6421	1.51399	13.6373538	2.796226999	5.919E-05	0.053041	0.799076	0.08919	11.63494	1.03E+01	1.87E+01
3291	476863.09	3847877.25	1.4774	1.32028	0.44752	0.78273	1.697	0.801	1.3528	1.32028	15.4148507	2.438459027	4.659E-05	0.04123	0.795728	0.11268	9.584864	8.98E+00	1.94E+01
3292	477363.09	3847877.25	1.77526	1.45699	0.36056	0.52887	1.367	0.857	1.2049	1.45699	18.5226532	2.690952235	3.754E-05	0.027858	0.640877	0.12057	8.537222	9.91E+00	2.06E+01
3293	477863.09	3847877.25	2.05709	1.43832	0.38036	0.46777	0.934	0.717	1.4042	1.43832	21.4632024	2.656470133	3.96E-05	0.024639	0.438008	0.10091	9.94898	9.78E+00	2.49E+01
3294	478363.09	3847877.25	1.8804	1.06133	0.3532	0.69453	0.667	0.702	1.2456	1.06133	19.6196597	1.960197624	3.677E-05	0.036584	0.312596	0.09876	8.825313	7.22E+00	2.36E+01
3295	478863.09	3847877.25	1.60981	0.92377	0.32358	0.8923	0.858	0.701	1.1056	0.92377	16.7963861	1.706134528	3.369E-05	0.047001	0.402309	0.09862	7.833221	6.28E+00	2.06E+01
3296	479363.09	3847877.25	1.13322	0.69321	0.30374	0.67956	1.563	0.402	0.6997	0.69321	11.823756	1.280307345	3.162E-05	0.035795	0.733104	0.05654	4.957414	4.71E+00	1.42E+01
3297	479863.09	3847877.25	0.65467	0.37741	0.29914	0.31768	1.029	0.254	0.3741	0.37741	6.83067573	0.697048218	3.114E-05	0.016734	0.482485	0.03569	2.650492	2.57E+00	8.15E+00
3298	480363.09	3847877.25	0.91177	0.4322	0.33319	0.28617	0.756	0.272	0.4117	0.4322	9.51319781	0.798241276	3.469E-05	0.015074	0.354719	0.03829	2.916689	2.94E+00	1.07E+01
3299	480863.09	3847877.25	0.85269	0.39467	0.37257	0.26934	0.565	0.302	0.3672	0.39467	8.89677072	0.728926155	3.879E-05	0.014187	0.265146	0.04248	2.602028	2.68E+00	9.87E+00
3300	481363.09	3847877.25	0.88524	0.39808	0.44728	0.29198	0.501	0.312	0.3547	0.39808	9.23638991	0.735224172	4.656E-05	0.01538	0.235083	0.0439	2.51339	2.71E+00	1.01E+01
3301	481863.09	3847877.25	1.23734	0.49099	0.36813	0.4131	0.657	0.366	0.4958	0.49099	12.9101201	0.906822036	3.832E-05	0.02176	0.308047	0.05151	3.512568	3.34E+00	1.44E+01
3302	482363.09	3847877.25	1.04088	0.43728	0.33944	0.37223	0.906	0.344	0.4413	0.43728	10.8603018	0.807623658	3.534E-05	0.019607	0.424991	0.04845	3.126486	2.97E+00	1.23E+01

3303	482863.09	3847877.25	0.87283	0.37013	0.3131	0.33395	0.846	0.333	0.3732	0.37013	9.10690683	0.683602599	3.26E-05	0.017591	0.396527	0.04684	2.644257	2.52E+00	1.04E+01
3304	483363.09	3847877.25	0.90565	0.33062	0.39062	0.2976	0.722	0.354	0.3375	0.33062	9.44934314	0.610630566	4.067E-05	0.015676	0.338447	0.04982	2.391451	2.25E+00	1.06E+01
3305	483863.09	3847877.25	0.93885	0.31593	0.39221	0.30808	0.829	0.366	0.3255	0.31593	9.79574428	0.583499228	4.083E-05	0.016228	0.388762	0.05155	2.306356	2.15E+00	1.10E+01
3306	484363.09	3847877.25	0.92501	0.31878	0.40798	0.32062	1.178	0.333	0.3239	0.31878	9.65134091	0.588762966	4.247E-05	0.016888	0.552241	0.04685	2.295232	2.17E+00	1.10E+01
3307	484863.09	3847877.25	0.80693	0.31048	0.39921	0.32611	1.389	0.29	0.3132	0.31048	8.41932144	0.573433483	4.156E-05	0.017178	0.651165	0.04086	2.219348	2.11E+00	9.81E+00
3308	485363.09	3847877.25	0.66089	0.31178	0.435	0.35347	1.504	0.27	0.3146	0.31178	6.89557377	0.575834486	4.529E-05	0.018619	0.705236	0.03804	2.228842	2.12E+00	8.34E+00
3309	485863.09	3847877.25	0.61575	0.31372	0.39515	0.33716	1.081	0.267	0.3166	0.31372	6.42459343	0.579417522	4.114E-05	0.01776	0.506695	0.0375	2.243367	2.13E+00	7.68E+00
3310	486363.09	3847877.25	0.53697	0.31373	0.40745	0.30671	0.67	0.286	0.3167	0.31373	5.60262108	0.579435991	4.242E-05	0.016156	0.314068	0.0403	2.243721	2.13E+00	6.66E+00
3311	486863.09	3847877.25	0.54829	0.3095	0.38203	0.28642	0.699	0.344	0.3124	0.3095	5.72073135	0.571623496	3.977E-05	0.015087	0.327864	0.04844	2.213325	2.10E+00	6.79E+00
3312	487363.09	3847877.25	0.57553	0.30462	0.3999	0.25988	0.949	0.372	0.3075	0.30462	6.00494723	0.562610498	4.163E-05	0.013689	0.445009	0.05238	2.178748	2.07E+00	7.19E+00
3313	487863.09	3847877.25	0.57611	0.29704	0.37355	0.24319	1.431	0.375	0.3001	0.29704	6.01099881	0.548610802	3.889E-05	0.01281	0.670892	0.0528	2.126246	2.02E+00	7.40E+00
3314	488363.09	3847877.25	0.598	0.29655	0.28335	0.25921	1.821	0.381	0.2996	0.29655	6.23939402	0.547705808	2.95E-05	0.013654	0.853846	0.05365	2.122632	2.02E+00	7.81E+00
3315	488863.09	3847877.25	0.60285	0.29405	0.3	0.30086	1.271	0.327	0.2969	0.29405	6.2899978	0.543088494	3.123E-05	0.015848	0.59616	0.04595	2.103573	2.00E+00	7.60E+00
3316	489363.09	3847877.25	0.47755	0.28906	0.30706	0.37999	0.842	0.266	0.2918	0.28906	4.98264651	0.533872335	3.197E-05	0.020016	0.394666	0.0374	2.067792	1.97E+00	6.07E+00
3317	489863.09	3847877.25	0.61087	0.29135	0.30622	0.43684	0.971	0.226	0.2942	0.29135	6.37367663	0.538101795	3.188E-05	0.02301	0.4551	0.03174	2.08423	1.98E+00	7.52E+00
3318	490363.09	3847877.25	0.46982	0.28538	0.31034	0.39323	1.088	0.22	0.2881	0.28538	4.90199348	0.527075648	3.231E-05	0.020713	0.510179	0.03097	2.041292	1.94E+00	6.09E+00
3319	490863.09	3847877.25	0.43162	0.27453	0.29983	0.37758	1.149	0.221	0.277	0.27453	4.50342349	0.507036505	3.121E-05	0.019889	0.538873	0.03106	1.962716	1.87E+00	5.70E+00
3320	491363.09	3847877.25	0.39365	0.24581	0.24759	0.34205	0.648	0.225	0.2477	0.24581	4.10725327	0.453992799	2.578E-05	0.018017	0.303681	0.03165	1.755115	1.67E+00	5.00E+00
3321	491863.09	3847877.25	0.3395	0.24214	0.20136	0.35013	0.676	0.211	0.244	0.24214	3.54226467	0.447214582	2.096E-05	0.018443	0.317172	0.02968	1.728615	1.65E+00	4.44E+00
3322	492363.09	3847877.25	0.3148	0.23992	0.2003	0.31921	0.652	0.194	0.2417	0.23992	3.28455057	0.443114407	2.085E-05	0.016814	0.305745	0.02736	1.712461	1.63E+00	4.16E+00
3323	492863.09	3847877.25	0.31189	0.23944	0.23392	0.28044	0.7	0.204	0.2412	0.23944	3.2541883	0.442227883	2.435E-05	0.014772	0.328112	0.02863	1.708989	1.63E+00	4.15E+00
3324	493363.09	3847877.25	0.31829	0.23863	0.2419	0.29295	0.85	0.184	0.2403	0.23863	3.32096442	0.440731873	2.518E-05	0.015431	0.398492	0.02586	1.702754	1.62E+00	4.28E+00
3325	493863.09	3847877.25	0.32988	0.23769	0.19284	0.26817	0.85	0.192	0.2392	0.23769	3.44189181	0.438995763	2.008E-05	0.014126	0.398408	0.02703	1.694606	1.62E+00	4.40E+00
3326	494363.09	3847877.25	0.34772	0.23682	0.1852	0.25143	0.949	0.203	0.238	0.23682	3.62803025	0.437388938	1.928E-05	0.013244	0.445014	0.0286	1.685962	1.61E+00	4.63E+00
3327	494863.09	3847877.25	0.36355	0.23605	0.202	0.21167	1.111	0.208	0.2369	0.23605	3.79319682	0.435966805	2.103E-05	0.01115	0.520838	0.0292	1.678522	1.61E+00	4.86E+00
3328	495363.09	3847877.25	0.37296	0.23516	0.21355	0.21916	1.062	0.221	0.2363	0.23516	3.89137859	0.434323041	2.223E-05	0.011544	0.498081	0.03103	1.673987	1.60E+00	4.94E+00
3329	495863.09	3847877.25	0.34688	0.23393	0.18223	0.20647	0.811	0.214	0.2362	0.23393	3.61926588	0.432051323	1.897E-05	0.010876	0.380256	0.03005	1.673279	1.59E+00	4.56E+00
3330	496363.09	3847877.25	0.35755	0.23237	0.19663	0.2344	0.715	0.22	0.2364	0.23237	3.7305942	0.429170118	2.047E-05	0.012347	0.335137	0.03089	1.67505	1.58E+00	4.63E+00
3331	496863.09	3847877.25	0.33335	0.2307	0.24242	0.26934	0.829	0.23	0.2366	0.2307	3.47809699	0.426085753	2.524E-05	0.014187	0.388847	0.03233	1.676042	1.57E+00	4.45E+00
3332	497363.09	3847877.25	0.32885	0.2294	0.3124	0.29863	0.847	0.25	0.2365	0.2294	3.43114502	0.423684749	3.252E-05	0.01573	0.397386	0.03519	1.675546	1.56E+00	4.42E+00
3333	497863.09	3847877.25	0.43684	0.24114	0.3611	0.31268	0.9	0.238	0.2493	0.24114	4.55788777	0.445367657	3.759E-05	0.01647	0.422009	0.03342	1.766451	1.64E+00	5.60E+00
3334	498363.09	3847877.25	0.46242	0.25686	0.35685	0.32803	0.795	0.225	0.2653	0.25686	4.82478358	0.474401328	3.715E-05	0.017279	0.37295	0.03165	1.879675	1.75E+00	5.85E+00
3335	471363.09	3848377.25	1.09417	1.95787	0.8712	0.52685	1.215	0.661	1.9699	1.95787	11.4163173	3.616040366	9.07E-05	0.027751	0.569718	0.09293	13.95774	1.33E+01	1.64E+01
3336	471863.09	3848377.25	1.14737	2.23184	0.96673	0.58248	1.32	0.714	2.246	2.23184	11.9713938	4.122042592	0.0001006	0.030682	0.618908	0.10044	15.91386	1.52E+01	1.76E+01
3337	472363.09	3848377.25	1.15514	2.59126	1.16106	0.68665	1.25	0.698	2.6064	2.59126	12.0524642	4.785864617	0.0001209	0.036169	0.586233	0.09814	18.46757	1.76E+01	1.84E+01
3338	472863.09	3848377.25	1.1453	2.82809	1.24073	0.82558	1.105	0.72	2.8493	2.82809	11.9497959	5.223272024	0.0001292	0.043487	0.518221	0.10132	20.18804	1.92E+01	1.88E+01
3339	473363.09	3848377.25	1.13594	3.04653	1.03455	0.87674	1.323	0.731	3.0706	3.04653	11.8521359	5.626714468	0.0001077	0.046181	0.620188	0.10282	21.75617	2.07E+01	1.93E+01
3340	473863.09	3848377.25	1.26309	3.87053	0.6846	0.81422	1.557	0.74	3.9005	3.87053	13.1787896	7.148581222	7.127E-05	0.042888	0.730131	0.1041	27.63617	2.63E+01	2.25E+01
3341	474363.09	3848377.25	1.74143	8.15537	0.36754	0.81066	1.616	0.817	8.4437	8.15537	18.1696788	15.06236222	3.826E-05	0.042701	0.757998	0.11489	59.82638	5.55E+01	3.85E+01
3342	474863.09	3848377.25	1.29996	5.46776	0.43393	0.67348	1.17	0.762	5.5319	5.46776	13.5634827	10.09854631	4.517E-05	0.035475	0.548757	0.10721	39.19529	3.72E+01	2.64E+01
3343	475363.09	3848377.25	1.42076	3.45978	0.92529	0.48553	0.822	0.633	3.5128	3.45978	14.823882	6.389956502	9.633E-05	0.025575	0.385442	0.089	24.88938	2.35E+01	2.31E+01
3344	475863.09	3848377.25	1.38003	2.47314	0.97552	0.46035	0.778	0.525	2.4979	2.47314	14.3989146	4.567705757	0.0001016	0.024249	0.364829	0.07391	17.69845	1.68E+01	2.03E+01
3345	476363.09	3848377.25	1.27102	1.8423	0.71726	0.82763	1.036	0.638	1.9759	1.8423	13.2615294	3.402591166	7.467E-05	0.043595	0.485758	0.0898	13.99989	1.25E+01	1.88E+01
3346	476863.09	3848377.25	1.50748	1.74785	0.64053	1.11531	1.712	0.718	1.9736	1.74785	15.7286985	3.228149036	6.668E-05	0.058748	0.80293	0.10104	13.98381	1.19E+01	2.20E+01
3347	477363.09	3848377.25	1.68459	1.59589	0.47981	0.8765	1.853	0.957	1.7538	1.59589	17.5766234	2.947490211	4.995E-05	0.046169	0.868696	0.13467	12.42616	1.09E+01	2.31E+01
3348	477863.09	3848377.25	1.92552	1.6898	0.377	0.58781	1.525	0.922	1.4838	1.6898	20.0904314	3.120935001	3.925E-05	0.030962	0.71521	0.12964	10.51354	1.15E+01	2.31E+01
3349	478363.09	3848377.25	2.21995	1.57713	0.40261	0.56792	1.013	0.766	1.6093	1.57713	23.1624461	2.912841885	4.191E-05	0.029915	0.4751	0.10773	11.40212	1.07E+01	2.74E+01
3350	478863.09	3848377.25	1.98448	1.07951	0.34984	0.73374	0.694	0.706	1.1955	1.07951	20.7056064	1.993774732	3.642E-05	0.038649	0.325252	0.09933	8.47062	7.34E+00	2.43E+01
3351	479363.09	3848377.25	1.47229	0.81977	0.31655	0.79275	0.811	0.555	0.9103	0.81977	15.3615342	1.514054258	3.295E-05	0.041757	0.380383	0.07804	6.449804	5.57E+00	1.83E+01
3352	479863.09	3848377.25	0.49592	0.33604	0.31689	0.31449	0.606	0.27	0.3313	0.33604	5.17431486	0.620640903	3.299E-05	0.016565	0.284268	0.03802	2.347167	2.29E+00	6.20E+00
3353	480363.09	3848377.25	0.7513	0.428	0.32392	0.3161	0.976	0.27	0.414	0.428	7.83889085	0.790484188	3.372E-05	0.01665	0.45767	0.038	2.932985	2.91E+00	9.16E+00
3354	480863.09	3848377.25	1.39018	0.62528	0.38113	0.34253	0.841	0.347	0.5943	0.62528	14.5048174	1.154845684	3.968E-05	0.018042	0.394169	0.04878	4.210476	4.25E+00	1.61E+01
3355	481363.09	3848377.25	1.58632	0.58286	0.43592	0.39382	0.575	0.382	0.5737	0.58286	16.5512969	1.076499097	4.538E-05	0.020744	0.269605	0.05378	4.06473	3.96E+00	1.81E+01
3356	481863.09	3848377.25	1.48903	0.57239	0.42266	0.46457	0.551	0.406	0.5783	0.57239	15.5361955	1.057161786	4.4E-05	0.024471	0.258192	0.05706	4.097252	3.89E+00	1.71E+01
3357	482363.09	3848377.25	1.27002	0.5603	0.34355	0.45143	0.984	0.389	0.5661	0.5603	13.2510956	1.034832454	3.577E-05	0.023779	0.461313	0.05475	4.010668	3.81E+00	1.50E+01
3358	482863.09	3848377.25	1.02467	0.43432	0.36033	0.37531	1.007	0.37	0.4388	0.43432	10.6911704	0.802156758	3.751E-05	0.019769	0.472098	0.0521	3.108702	2.95E+00	1.22E+01
3359	483363.09	3848377.25	1.009	0.40959	0.41147	0.37094	0.971	0.377	0.4157	0.40959	10.5276732	0.756482286	4.284E-05	0.019539	0.455508	0.05298	2.945455	2.79E+00	1.20E+01

3360	483863.09	3848377.25	0.98741	0.38027	0.4081	0.33323	0.777	0.375	0.3835	0.38027	10.3024081	0.702330425	4.249E-05	0.017553	0.364158	0.05278	2.716952	2.59E+00	1.16E+01
3361	484363.09	3848377.25	0.97926	0.38349	0.44401	0.33081	1.083	0.366	0.3869	0.38349	10.2173729	0.708277526	4.622E-05	0.017425	0.50776	0.05143	2.741043	2.61E+00	1.16E+01
3362	484863.09	3848377.25	0.92636	0.40544	0.54449	0.35936	1.501	0.387	0.4093	0.40544	9.6654265	0.748817545	5.668E-05	0.018929	0.703796	0.05442	2.899896	2.76E+00	1.13E+01
3363	485363.09	3848377.25	0.75729	0.3998	0.44294	0.38607	1.573	0.317	0.4035	0.3998	7.90138913	0.738400884	4.611E-05	0.020336	0.737708	0.04453	2.858589	2.72E+00	9.58E+00
3364	485863.09	3848377.25	0.6487	0.3966	0.42695	0.36427	1.415	0.272	0.4003	0.3966	6.76838612	0.732490722	4.445E-05	0.019188	0.663441	0.03832	2.836128	2.70E+00	8.36E+00
3365	486363.09	3848377.25	0.61573	0.38823	0.4531	0.36198	0.789	0.303	0.3917	0.38823	6.42438475	0.717031954	4.717E-05	0.019067	0.370099	0.04267	2.775407	2.64E+00	7.71E+00
3366	486863.09	3848377.25	0.6465	0.38522	0.42889	0.2921	0.746	0.354	0.3887	0.38522	6.74543183	0.711472707	4.465E-05	0.015386	0.349898	0.04982	2.753725	2.62E+00	8.01E+00
3367	487363.09	3848377.25	0.58428	0.34836	0.39256	0.28391	0.977	0.382	0.3514	0.34836	6.09624271	0.643395027	4.087E-05	0.014955	0.458317	0.05376	2.490008	2.37E+00	7.39E+00
3368	487863.09	3848377.25	0.6064	0.3372	0.36571	0.25562	1.508	0.387	0.3404	0.3372	6.32703768	0.622783337	3.807E-05	0.013465	0.707064	0.05446	2.411644	2.29E+00	7.84E+00
3369	488363.09	3848377.25	0.62678	0.33327	0.31656	0.28004	1.882	0.389	0.3363	0.33327	6.5396779	0.615524919	3.296E-05	0.014751	0.882642	0.05478	2.382594	2.27E+00	8.22E+00
3370	488863.09	3848377.25	0.63116	0.33018	0.2864	0.34075	1.298	0.328	0.3331	0.33018	6.58537781	0.609817918	2.982E-05	0.017949	0.608643	0.04613	2.359921	2.25E+00	7.98E+00
3371	489363.09	3848377.25	0.62643	0.32817	0.30769	0.43342	1.074	0.276	0.331	0.32817	6.53602608	0.606105598	3.203E-05	0.02283	0.50369	0.03879	2.345254	2.23E+00	7.82E+00
3372	489863.09	3848377.25	0.61965	0.3268	0.32198	0.48502	1.081	0.234	0.3297	0.3268	6.46528513	0.60357531	3.352E-05	0.025548	0.506681	0.03289	2.336185	2.22E+00	7.75E+00
3373	490363.09	3848377.25	0.60753	0.32495	0.34557	0.42302	1.198	0.235	0.3277	0.32495	6.33882784	0.600158497	3.598E-05	0.022282	0.561943	0.033	2.32166	2.21E+00	7.67E+00
3374	490863.09	3848377.25	0.54923	0.31244	0.29396	0.39329	1.175	0.241	0.3151	0.31244	5.73053909	0.577053457	3.06E-05	0.020716	0.5512	0.03387	2.23281	2.12E+00	7.02E+00
3375	491363.09	3848377.25	0.4599	0.29059	0.22921	0.38252	0.875	0.228	0.293	0.29059	4.79849049	0.536698131	2.386E-05	0.020149	0.410178	0.03204	2.07594	1.98E+00	5.90E+00
3376	491863.09	3848377.25	0.45948	0.26828	0.21382	0.36401	0.874	0.215	0.2703	0.26828	4.7941083	0.495493219	2.226E-05	0.019174	0.409718	0.03031	1.915031	1.82E+00	5.84E+00
3377	492363.09	3848377.25	0.31698	0.25555	0.21436	0.32566	0.645	0.199	0.2573	0.25555	3.30729618	0.471981856	2.232E-05	0.017154	0.302378	0.02793	1.822851	1.74E+00	4.21E+00
3378	492863.09	3848377.25	0.3199	0.25351	0.24681	0.28699	0.827	0.181	0.255	0.25351	3.33776279	0.468214127	2.569E-05	0.015117	0.387923	0.02548	1.806625	1.72E+00	4.32E+00
3379	493363.09	3848377.25	0.33262	0.25178	0.23906	0.27671	0.888	0.191	0.2528	0.25178	3.47048033	0.465018946	2.489E-05	0.014575	0.416353	0.02685	1.791321	1.71E+00	4.47E+00
3380	493863.09	3848377.25	0.34977	0.25032	0.18226	0.26219	0.946	0.204	0.251	0.25032	3.64941948	0.462322434	1.897E-05	0.013811	0.443513	0.02874	1.778638	1.70E+00	4.67E+00
3381	494363.09	3848377.25	0.34612	0.24885	0.18896	0.23614	1.122	0.211	0.2499	0.24885	3.61133622	0.459607454	1.967E-05	0.012438	0.525991	0.02966	1.770277	1.69E+00	4.72E+00
3382	494863.09	3848377.25	0.37572	0.24712	0.21053	0.21418	1.123	0.213	0.2494	0.24712	3.92017579	0.456412272	2.192E-05	0.011282	0.526563	0.02992	1.767231	1.68E+00	5.03E+00
3383	495363.09	3848377.25	0.34905	0.24515	0.20553	0.21527	0.887	0.244	0.2495	0.24515	3.64190716	0.452773829	2.14E-05	0.011339	0.415856	0.03427	1.767514	1.67E+00	4.66E+00
3384	495863.09	3848377.25	0.33592	0.24321	0.23055	0.23782	0.751	0.236	0.2494	0.24321	3.50491177	0.449190793	2.4E-05	0.012527	0.352065	0.03322	1.767089	1.65E+00	4.47E+00
3385	496363.09	3848377.25	0.32696	0.24156	0.28615	0.2698	0.761	0.231	0.249	0.24156	3.4114252	0.446143365	2.979E-05	0.014211	0.356819	0.03248	1.763971	1.64E+00	4.38E+00
3386	496863.09	3848377.25	0.33141	0.24027	0.31117	0.3014	0.749	0.235	0.2482	0.24027	3.45785547	0.443760831	3.239E-05	0.015876	0.351239	0.03311	1.758657	1.63E+00	4.43E+00
3387	497363.09	3848377.25	0.35097	0.23916	0.31413	0.32427	0.738	0.233	0.2473	0.23916	3.66194	0.441710744	3.27E-05	0.017081	0.346264	0.03276	1.751855	1.63E+00	4.63E+00
3388	497863.09	3848377.25	0.48773	0.26179	0.33942	0.33128	0.808	0.229	0.2702	0.26179	5.08886228	0.483506672	3.534E-05	0.01745	0.378676	0.0322	1.91411	1.78E+00	6.13E+00
3389	498363.09	3848377.25	0.49986	0.26298	0.33506	0.35669	0.79	0.229	0.2705	0.26298	5.21542391	0.485704513	3.488E-05	0.018788	0.370446	0.03222	1.916874	1.79E+00	6.25E+00
3390	471363.09	3848877.25	0.97534	1.69161	0.84048	0.60471	0.782	0.594	1.6329	1.69161	10.1764725	3.124277936	8.75E-05	0.031853	0.36692	0.08357	11.56947	1.15E+01	1.38E+01
3391	471863.09	3848877.25	1.0757	1.80956	0.92168	0.57219	1.085	0.65	1.7894	1.80956	11.2236056	3.342122819	9.595E-05	0.03014	0.508641	0.0915	12.6784	1.23E+01	1.56E+01
3392	472363.09	3848877.25	1.1572	1.96985	1.0205	0.56549	1.312	0.74	1.9841	1.96985	12.0739578	3.638166535	0.0001062	0.029787	0.615442	0.10413	14.05771	1.34E+01	1.71E+01
3393	472863.09	3848877.25	1.19819	2.25635	1.16382	0.63149	1.401	0.756	2.2725	2.25635	12.501638	4.167310741	0.0001212	0.033263	0.65705	0.10636	16.10141	1.53E+01	1.82E+01
3394	473363.09	3848877.25	1.24598	2.72253	1.3703	0.79292	1.283	0.752	2.7443	2.72253	13.0002678	5.02831055	0.0001427	0.041766	0.601806	0.10582	19.444	1.85E+01	1.97E+01
3395	473863.09	3848877.25	1.3072	3.5012	1.29498	0.94041	1.281	0.791	3.5259	3.5012	13.6390232	6.466456164	0.0001348	0.049535	0.600826	0.11124	24.98192	2.38E+01	2.20E+01
3396	474363.09	3848877.25	1.44586	5.14248	0.96732	0.93114	1.531	0.785	5.1798	5.14248	15.0857696	9.497778331	0.0001007	0.049047	0.717854	0.11039	36.70096	3.50E+01	2.72E+01
3397	474863.09	3848877.25	1.88037	9.49638	0.48333	0.88703	1.786	0.846	9.5742	9.49638	19.6193467	17.53910802	5.032E-05	0.046723	0.837326	0.11901	67.83673	6.46E+01	4.14E+01
3398	475363.09	3848877.25	1.76093	7.10353	0.44825	0.87118	1.598	0.932	7.1532	7.10353	18.3731373	13.11969192	4.667E-05	0.045889	0.749239	0.13107	50.68314	4.83E+01	3.48E+01
3399	475863.09	3848877.25	1.62617	5.24477	0.96632	0.62862	1.11	0.784	5.3938	5.24477	16.9670826	9.686700358	0.0001006	0.033112	0.52036	0.11034	38.2173	3.57E+01	2.99E+01
3400	476363.09	3848877.25	1.52755	3.04406	1.16767	0.49889	0.789	0.561	3.0082	3.04406	15.9381042	5.622152562	0.0001216	0.026279	0.37008	0.07889	21.31432	2.07E+01	2.27E+01
3401	476863.09	3848877.25	1.44701	2.12969	0.8689	0.796	1.003	0.656	2.2567	2.12969	15.0977685	3.933379135	9.046E-05	0.041929	0.470528	0.09222	15.9896	1.45E+01	2.11E+01
3402	477363.09	3848877.25	1.72134	2.4501	0.72575	1.18967	1.689	0.825	2.6493	2.4501	17.9600644	4.52515259	7.556E-05	0.062665	0.791779	0.11601	18.77089	1.67E+01	2.56E+01
3403	477863.09	3848877.25	1.95362	2.24279	0.52497	0.99791	1.999	1.195	2.3821	2.24279	20.3836203	4.142266428	5.465E-05	0.052564	0.937337	0.16814	16.87818	1.53E+01	2.73E+01
3404	478363.09	3848877.25	2.12565	2.21388	0.40967	0.66473	1.711	1.022	2.0733	2.21388	22.1785416	4.088871807	4.265E-05	0.035014	0.802279	0.14372	14.69008	1.51E+01	2.69E+01
3405	478863.09	3848877.25	2.4025	1.82803	0.41971	0.69326	1.129	0.815	1.9315	1.82803	25.0671307	3.376235537	4.369E-05	0.036517	0.52964	0.11459	13.68537	1.24E+01	3.04E+01
3406	479363.09	3848877.25	2.07954	1.16029	0.34169	0.76971	0.724	0.706	1.2545	1.16029	21.6974405	2.142969388	3.557E-05	0.040544	0.339324	0.09928	8.888231	7.89E+00	2.53E+01
3407	479863.09	3848877.25	1.57166	0.96987	0.33535	0.85778	0.933	0.57	1.0144	0.96987	16.3983378	1.791277802	3.491E-05	0.045183	0.437342	0.08018	7.187673	6.59E+00	1.93E+01
3408	480363.09	3848877.25	1.58037	0.92612	0.34517	0.77389	2.403	0.464	0.9355	0.92612	16.4892159	1.710474804	3.593E-05	0.040764	1.126606	0.06534	6.628497	6.30E+00	1.98E+01
3409	480863.09	3848877.25	1.75556	0.97702	0.50213	0.61616	2.472	0.519	0.9217	0.97702	18.317108	1.80448332	5.227E-05	0.032456	1.159192	0.07294	6.53086	6.64E+00	2.13E+01
3410	481363.09	3848877.25	2.06236	0.87517	0.70683	0.55158	0.885	0.547	0.8622	0.87517	21.5181884	1.616373941	7.359E-05	0.029054	0.415083	0.07697	6.108644	5.95E+00	2.38E+01
3411	481863.09	3848877.25	1.74598	0.73123	0.51595	0.51368	0.574	0.462	0.7381	0.73123	18.2171525	1.350527459	5.371E-05	0.027058	0.269342	0.06502	5.229776	4.97E+00	2.02E+01
3412	482363.09	3848877.25	1.26448	0.54629	0.35386	0.42261	0.623	0.374	0.5597	0.54629	13.1932926	1.008957025	3.684E-05	0.022261	0.292155	0.05268	3.96596	3.71E+00	1.48E+01
3413	482863.09	3848877.25	0.94541	0.48765	0.39609	0.36578	0.774	0.348	0.4918	0.48765	9.8641898	0.900653304	4.124E-05	0.019267	0.36285	0.04894	3.484651	3.32E+00	1.14E+01
3414	483363.09	3848877.25	0.88514	0.46082	0.43324	0.30952	0.764	0.352	0.4643	0.46082	9.23534653	0.851100288	4.51E-05	0.016304	0.358348	0.04949	3.290016	3.13E+00	1.07E+01
3415	483863.09	3848877.25	0.81392	0.44198	0.42254	0.30965	0.761	0.378	0.4456	0.44198	8.49225348	0.816304209	4.399E-05	0.016311	0.356983	0.05318	3.157024	3.01E+00	9.89E+00
3416	484363.09	3848877.25	1.05019	0.44214	0.47617	0.34747	0.98	0.421	0.4419	0.44214	10.9574401	0.816599717	4.957E-05	0.018303	0.459475	0.05919	3.131304	3.01E+00	1.24E+01

3417	484863.09	3848877.25	1.07011	0.49446	0.59712	0.39507	1.95	0.44	0.4992	0.49446	11.1652808	0.913230868	6.216E-05	0.02081	0.914392	0.06195	3.536729	3.36E+00	1.33E+01
3418	485363.09	3848877.25	0.87768	0.47072	0.5166	0.41001	1.869	0.382	0.4747	0.47072	9.15751061	0.869384852	5.378E-05	0.021597	0.87649	0.05371	3.36335	3.20E+00	1.11E+01
3419	485863.09	3848877.25	0.71502	0.449	0.44735	0.41499	1.776	0.32	0.4528	0.449	7.4603537	0.829269627	4.657E-05	0.021859	0.832679	0.04501	3.208039	3.05E+00	9.34E+00
3420	486363.09	3848877.25	0.6283	0.41779	0.49942	0.38119	0.874	0.312	0.4212	0.41779	6.55553723	0.771627077	5.199E-05	0.020079	0.409821	0.04392	2.984637	2.84E+00	7.94E+00
3421	486863.09	3848877.25	0.65594	0.40425	0.56441	0.31179	0.791	0.361	0.4074	0.40425	6.84392661	0.746619703	5.876E-05	0.016423	0.371093	0.05077	2.886859	2.75E+00	8.17E+00
3422	487363.09	3848877.25	0.69786	0.39617	0.44597	0.29611	1.053	0.399	0.3992	0.39617	7.28131022	0.731696544	4.643E-05	0.015597	0.493659	0.05612	2.828689	2.69E+00	8.71E+00
3423	487863.09	3848877.25	0.63773	0.36658	0.38738	0.27755	1.592	0.399	0.3693	0.36658	6.65392767	0.677046013	4.033E-05	0.01462	0.746351	0.05613	2.61634	2.49E+00	8.27E+00
3424	488363.09	3848877.25	0.65025	0.35475	0.31339	0.29485	1.943	0.4	0.3579	0.35475	6.78455847	0.655196882	3.263E-05	0.015531	0.911171	0.05621	2.536134	2.41E+00	8.55E+00
3425	488863.09	3848877.25	0.65153	0.35116	0.38012	0.35482	1.328	0.332	0.3543	0.35116	6.79791369	0.648566419	3.957E-05	0.01869	0.6228	0.04673	2.510272	2.39E+00	8.26E+00
3426	489363.09	3848877.25	0.63408	0.34812	0.37918	0.45718	1.101	0.282	0.3512	0.34812	6.61584442	0.642951765	3.947E-05	0.024082	0.516444	0.0397	2.488308	2.37E+00	7.96E+00
3427	489863.09	3848877.25	0.61854	0.34518	0.3474	0.50964	1.166	0.248	0.3482	0.34518	6.45370364	0.637521804	3.617E-05	0.026845	0.546727	0.03482	2.467193	2.35E+00	7.82E+00
3428	490363.09	3848877.25	0.59199	0.3414	0.3546	0.42787	1.328	0.248	0.3442	0.3414	6.17668707	0.630540425	3.692E-05	0.022538	0.622542	0.03488	2.438852	2.32E+00	7.60E+00
3429	490863.09	3848877.25	0.5688	0.32335	0.25579	0.41285	1.169	0.241	0.3257	0.32335	5.93472796	0.597203416	2.663E-05	0.021746	0.547941	0.03387	2.307631	2.20E+00	7.24E+00
3430	491363.09	3848877.25	0.46567	0.29459	0.23237	0.39154	0.938	0.223	0.2972	0.29459	4.85869333	0.544085834	2.419E-05	0.020624	0.439748	0.03141	2.105557	2.00E+00	6.00E+00
3431	491863.09	3848877.25	0.41468	0.26664	0.22627	0.35689	0.731	0.207	0.2683	0.26664	4.32667544	0.492464261	2.356E-05	0.018799	0.342836	0.02909	1.901073	1.81E+00	5.30E+00
3432	492363.09	3848877.25	0.32153	0.25756	0.23198	0.32802	0.789	0.195	0.2585	0.25756	3.35476983	0.475694176	2.415E-05	0.017278	0.369907	0.02745	1.831282	1.75E+00	4.33E+00
3433	492863.09	3848877.25	0.33486	0.25581	0.26583	0.28025	0.921	0.189	0.2563	0.25581	3.49385198	0.472462056	2.767E-05	0.014762	0.431842	0.02656	1.81612	1.74E+00	4.52E+00
3434	493363.09	3848877.25	0.33617	0.25404	0.20061	0.26966	0.969	0.204	0.2549	0.25404	3.50752021	0.469192998	2.088E-05	0.014204	0.454303	0.0287	1.806129	1.73E+00	4.55E+00
3435	493863.09	3848877.25	0.34589	0.25199	0.184	0.25688	1.047	0.219	0.2544	0.25199	3.60893645	0.4654068	1.916E-05	0.013531	0.490996	0.03087	1.802303	1.71E+00	4.70E+00
3436	494363.09	3848877.25	0.35247	0.24973	0.23811	0.22897	1.176	0.234	0.2543	0.24973	3.67759065	0.461232748	2.479E-05	0.012061	0.551393	0.03292	1.802091	1.70E+00	4.84E+00
3437	494863.09	3848877.25	0.3514	0.24756	0.28438	0.22686	0.979	0.245	0.2541	0.24756	3.66642652	0.457224919	2.961E-05	0.01195	0.45895	0.03441	1.800532	1.68E+00	4.75E+00
3438	495363.09	3848877.25	0.34318	0.24578	0.3009	0.24619	0.793	0.254	0.2534	0.24578	3.58066094	0.453937392	3.133E-05	0.012968	0.371848	0.03575	1.795643	1.67E+00	4.58E+00
3439	495863.09	3848877.25	0.35103	0.24441	0.31112	0.26359	0.793	0.237	0.2525	0.24441	3.66256603	0.451407104	3.239E-05	0.013884	0.371806	0.03331	1.788983	1.66E+00	4.66E+00
3440	496363.09	3848877.25	0.3662	0.24322	0.31364	0.28795	0.779	0.232	0.2514	0.24322	3.82084631	0.449209262	3.265E-05	0.015167	0.365419	0.03258	1.781331	1.65E+00	4.81E+00
3441	496863.09	3848877.25	0.38018	0.24197	0.29424	0.33324	0.761	0.235	0.2499	0.24197	3.9667104	0.446900605	3.063E-05	0.017553	0.356679	0.03308	1.77049	1.65E+00	4.95E+00
3442	497363.09	3848877.25	0.43199	0.24059	0.29693	0.33506	0.67	0.252	0.2475	0.24059	4.50728399	0.444351847	3.091E-05	0.017649	0.314059	0.03542	1.753627	1.64E+00	5.44E+00
3443	497863.09	3848877.25	0.51561	0.24682	0.33375	0.35894	0.85	0.231	0.2524	0.24682	5.37975577	0.455858194	3.475E-05	0.018907	0.398745	0.03246	1.788062	1.68E+00	6.40E+00
3444	498363.09	3848877.25	0.51638	0.25985	0.36392	0.38064	0.976	0.242	0.2641	0.25985	5.38778977	0.479923636	3.789E-05	0.02005	0.457815	0.03408	1.87096	1.77E+00	6.48E+00
3445	471363.09	3849377.25	0.86485	1.16369	0.78588	0.56183	0.708	0.599	1.0956	1.16369	9.02364535	2.149248936	8.181E-05	0.029594	0.331845	0.08432	7.762438	7.91E+00	1.15E+01
3446	471863.09	3849377.25	0.95379	1.37319	0.90646	0.64577	0.632	0.649	1.2868	1.37319	9.95162479	2.536179864	9.437E-05	0.034015	0.296263	0.0913	9.117726	9.34E+00	1.27E+01
3447	472363.09	3849377.25	1.05489	1.48854	0.938	0.66506	0.879	0.673	1.4267	1.48854	11.0064789	2.74922274	9.765E-05	0.035031	0.412382	0.0947	10.10883	1.01E+01	1.43E+01
3448	472863.09	3849377.25	1.15906	1.57474	1.06999	0.62369	1.195	0.745	1.5581	1.57474	12.0933646	2.908427733	0.0001114	0.032852	0.560321	0.10482	11.03963	1.07E+01	1.60E+01
3449	473363.09	3849377.25	1.22508	1.8101	1.21466	0.61211	1.423	0.812	1.829	1.8101	12.7822021	3.343120159	0.0001265	0.032242	0.667319	0.11425	12.95941	1.23E+01	1.76E+01
3450	473863.09	3849377.25	1.28199	2.17331	1.40493	0.71918	1.478	0.793	2.194	2.17331	13.3759879	4.013942033	0.0001463	0.037882	0.692955	0.1115	15.54557	1.48E+01	1.90E+01
3451	474363.09	3849377.25	1.33389	2.60461	1.52858	0.92397	1.396	0.823	2.6276	2.60461	13.9175005	4.810521075	0.0001591	0.048669	0.654569	0.11585	18.61756	1.77E+01	2.05E+01
3452	474863.09	3849377.25	1.34563	3.09689	1.2586	1.04422	1.51	0.864	3.1236	3.09689	14.0399929	5.719725645	0.000131	0.055003	0.707871	0.12154	22.13183	2.11E+01	2.17E+01
3453	475363.09	3849377.25	1.45083	3.98828	0.79095	0.964	1.753	0.863	4.0231	3.98828	15.1376255	7.36605672	8.234E-05	0.050778	0.822142	0.12134	28.5054	2.71E+01	2.49E+01
3454	475863.09	3849377.25	1.71753	7.18041	0.58247	0.89106	1.775	1.01	7.2315	7.18041	17.9203117	13.26168357	6.064E-05	0.046936	0.832102	0.14203	51.23743	4.88E+01	3.46E+01
3455	476363.09	3849377.25	1.82186	8.61939	1.0359	0.78877	1.502	0.983	8.7003	8.61939	19.0088669	15.91937267	0.0001078	0.041548	0.704331	0.13831	61.64498	5.86E+01	3.88E+01
3456	476863.09	3849377.25	1.77058	13.48392	1.44004	0.62074	1.053	0.676	13.717	13.48392	18.4738232	24.90379801	0.0001499	0.032697	0.493931	0.09514	97.19167	9.17E+01	4.95E+01
3457	477363.09	3849377.25	1.69517	5.90808	1.11874	0.7621	0.987	0.678	5.9689	5.90808	17.6870126	10.91178463	0.0001165	0.040143	0.463025	0.09541	42.29181	4.02E+01	3.13E+01
3458	477863.09	3849377.25	1.97464	3.83892	0.77777	1.2714	1.631	0.921	3.8746	3.83892	20.6029381	7.090199902	8.097E-05	0.06697	0.764727	0.1296	27.45273	2.61E+01	3.00E+01
3459	478363.09	3849377.25	2.24619	2.91896	0.57304	1.12296	2.116	1.438	2.892	2.91896	23.4362282	5.39110216	5.966E-05	0.059151	0.992341	0.2023	20.49051	1.98E+01	3.07E+01
3460	478863.09	3849377.25	2.36364	2.39969	0.45521	0.73719	1.894	1.006	2.2754	2.39969	24.6616744	4.432049066	4.739E-05	0.038831	0.887988	0.14147	16.12217	1.63E+01	3.00E+01
3461	479363.09	3849377.25	2.64454	2.20062	0.42881	0.83081	1.271	0.87	2.3669	2.20062	27.5925202	4.064381573	4.464E-05	0.043762	0.596053	0.12237	16.77041	1.50E+01	3.42E+01
3462	479863.09	3849377.25	2.1996	1.49495	0.36706	0.8348	0.758	0.76	1.5384	1.49495	22.9501189	2.761061534	3.821E-05	0.043972	0.355445	0.10688	10.90033	1.02E+01	2.70E+01
3463	480363.09	3849377.25	2.13721	1.44952	0.45195	1.14027	1.35	0.791	1.4758	1.44952	22.299156	2.6771557	4.705E-05	0.060063	0.632835	0.11134	10.45686	9.86E+00	2.64E+01
3464	480863.09	3849377.25	1.94474	1.24996	0.47024	1.06353	3.351	0.723	1.2633	1.24996	20.2909684	2.308583213	4.895E-05	0.05602	1.571311	0.10171	8.951078	8.50E+00	2.48E+01
3465	481363.09	3849377.25	2.11676	1.02882	0.67918	0.59983	2.292	0.582	1.0017	1.02882	22.0857854	1.90015407	7.071E-05	0.031595	1.074622	0.08185	7.097406	7.00E+00	2.53E+01
3466	481863.09	3849377.25	1.63126	0.6142	0.51442	0.42328	0.744	0.404	0.6198	0.6142	17.0201905	1.134381748	5.355E-05	0.022296	0.348777	0.0568	4.391577	4.18E+00	1.88E+01
3467	482363.09	3849377.25	1.26567	0.53732	0.35964	0.39984	0.595	0.365	0.5508	0.53732	13.2057087	0.992390102	3.744E-05	0.021061	0.278862	0.05139	3.902262	3.65E+00	1.48E+01
3468	482863.09	3849377.25	0.92007	0.482	0.40952	0.34037	0.659	0.326	0.4859	0.482	9.59979809	0.890218174	4.263E-05	0.017929	0.309032	0.04583	3.442423	3.28E+00	1.10E+01
3469	483363.09	3849377.25	0.67381	0.44764	0.45896	0.31721	0.719	0.349	0.4626	0.44764	7.03037807	0.826757808	4.778E-05	0.016709	0.337308	0.04914	3.277617	3.04E+00	8.49E+00
3470	483863.09	3849377.25	0.58385	0.38894	0.4352	0.3099	0.75	0.373	0.404	0.38894	6.09175619	0.718343271	4.531E-05	0.016324	0.351605	0.0524	2.862557	2.64E+00	7.45E+00
3471	484363.09	3849377.25	1.10304	0.48176	0.5074	0.38063	1.052	0.485	0.4865	0.48176	11.5088649	0.889774912	5.282E-05	0.020049	0.493162	0.06819	3.446745	3.28E+00	1.32E+01
3472	484863.09	3849377.25	1.21437	0.51759	0.64811	0.43787	2.078	0.472	0.5223	0.51759	12.6704564	0.955950259	6.747E-05	0.023064	0.974447	0.06634	3.700542	3.52E+00	1.49E+01
3473	485363.09	3849377.25	1.01543	0.4919	0.48435	0.44303	2.581	0.419	0.4963	0.4919	10.5947623	0.908502738	5.042E-05	0.023336	1.210285	0.05891	3.516252	3.34E+00	1.30E+01

3474	485863.09	3849377.25	0.66288	0.41026	0.48088	0.38359	1.7	0.3	0.4137	0.41026	6.91633697	0.757719726	5.006E-05	0.020205	0.797266	0.04219	2.931214	2.79E+00	8.68E+00
3475	486363.09	3849377.25	0.56931	0.37436	0.45948	0.33002	0.738	0.301	0.378	0.37436	5.94004918	0.691415095	4.783E-05	0.017383	0.346062	0.04235	2.678479	2.55E+00	7.17E+00
3476	486863.09	3849377.25	0.66162	0.38875	0.49874	0.36458	0.84	0.388	0.3919	0.38875	6.90319042	0.717992355	5.192E-05	0.019204	0.394033	0.05459	2.776469	2.64E+00	8.22E+00
3477	487363.09	3849377.25	0.73422	0.38448	0.53999	0.31769	1.131	0.413	0.3875	0.38448	7.66068207	0.710105982	5.622E-05	0.016734	0.530554	0.05811	2.745365	2.61E+00	9.11E+00
3478	487863.09	3849377.25	0.76862	0.37927	0.42536	0.2974	1.682	0.408	0.3823	0.37927	8.01960373	0.7004835	4.428E-05	0.015665	0.7889	0.05738	2.709017	2.58E+00	9.71E+00
3479	488363.09	3849377.25	0.77871	0.37188	0.40416	0.30679	2.003	0.407	0.3744	0.37188	8.12488047	0.686834719	4.208E-05	0.01616	0.939025	0.05729	2.652901	2.53E+00	9.95E+00
3480	488863.09	3849377.25	0.77833	0.36174	0.45275	0.36164	1.361	0.371	0.3648	0.36174	8.12091563	0.668106893	4.713E-05	0.019049	0.63803	0.05212	2.584669	2.46E+00	9.62E+00
3481	489363.09	3849377.25	0.71384	0.35344	0.42192	0.47095	1.217	0.302	0.3566	0.35344	7.44804185	0.65277741	4.392E-05	0.024807	0.570618	0.04247	2.526923	2.40E+00	8.86E+00
3482	489863.09	3849377.25	0.60641	0.34462	0.41626	0.52087	1.225	0.271	0.3476	0.34462	6.32714202	0.636487525	4.334E-05	0.027436	0.574637	0.03806	2.46273	2.34E+00	7.72E+00
3483	490363.09	3849377.25	0.57766	0.33958	0.32447	0.43311	1.458	0.25	0.3423	0.33958	6.02717116	0.62717902	3.378E-05	0.022814	0.683454	0.03515	2.42539	2.31E+00	7.51E+00
3484	490863.09	3849377.25	0.56092	0.3276	0.2706	0.42139	1.063	0.244	0.3296	0.3276	5.85250986	0.60505285	2.817E-05	0.022196	0.498269	0.0343	2.335477	2.23E+00	7.12E+00
3485	491363.09	3849377.25	0.54125	0.28918	0.25377	0.40118	0.987	0.224	0.2902	0.28918	5.64727762	0.534093966	2.642E-05	0.021132	0.462654	0.03152	2.056101	1.97E+00	6.79E+00
3486	491863.09	3849377.25	0.43814	0.26453	0.26777	0.38148	0.766	0.215	0.2655	0.26453	4.57145167	0.488567248	2.788E-05	0.020094	0.359281	0.03025	1.88088	1.80E+00	5.55E+00
3487	492363.09	3849377.25	0.33741	0.25275	0.2655	0.33942	0.956	0.206	0.2537	0.25275	3.52045809	0.466810464	2.764E-05	0.017879	0.448432	0.02902	1.797343	1.72E+00	4.56E+00
3488	492863.09	3849377.25	0.35256	0.25084	0.24083	0.28209	0.991	0.222	0.2534	0.25084	3.67852969	0.463282836	2.507E-05	0.014859	0.464493	0.03117	1.79536	1.71E+00	4.74E+00
3489	493363.09	3849377.25	0.34515	0.24878	0.19824	0.26762	1.11	0.244	0.2538	0.24878	3.60121546	0.459478169	2.064E-05	0.014097	0.520486	0.0343	1.798406	1.69E+00	4.74E+00
3490	493863.09	3849377.25	0.35332	0.24684	0.30045	0.25573	1.218	0.251	0.2539	0.24684	3.68645936	0.455895133	3.128E-05	0.01347	0.571144	0.03526	1.798761	1.68E+00	4.88E+00
3491	494363.09	3849377.25	0.3572	0.24534	0.36109	0.23313	1.075	0.249	0.2533	0.24534	3.72694238	0.453124744	3.759E-05	0.01228	0.503877	0.03509	1.794793	1.67E+00	4.86E+00
3492	494863.09	3849377.25	0.38232	0.24423	0.34864	0.26317	0.891	0.245	0.2525	0.24423	3.98903867	0.451074657	3.63E-05	0.013862	0.417826	0.03446	1.789054	1.66E+00	5.03E+00
3493	495363.09	3849377.25	0.38482	0.24322	0.37409	0.27048	0.937	0.251	0.2516	0.24322	4.01512309	0.449209262	3.895E-05	0.014247	0.439307	0.03533	1.782748	1.65E+00	5.08E+00
3494	495863.09	3849377.25	0.39983	0.24206	0.30249	0.28673	0.812	0.236	0.2502	0.24206	4.17173397	0.447066828	3.149E-05	0.015103	0.380805	0.03314	1.772545	1.65E+00	5.17E+00
3495	496363.09	3849377.25	0.41006	0.24071	0.25415	0.31715	0.743	0.233	0.2477	0.24071	4.27847143	0.444573479	2.646E-05	0.016706	0.348505	0.03281	1.754973	1.64E+00	5.24E+00
3496	496863.09	3849377.25	0.43222	0.23925	0.27168	0.34693	0.692	0.232	0.2444	0.23925	4.50968375	0.441876967	2.828E-05	0.018274	0.324319	0.0327	1.731946	1.63E+00	5.43E+00
3497	497363.09	3849377.25	0.45473	0.23778	0.35435	0.34722	0.806	0.258	0.2412	0.23778	4.7445479	0.439161986	3.689E-05	0.018289	0.378043	0.03623	1.708989	1.62E+00	5.71E+00
3498	497863.09	3849377.25	0.59439	0.28635	0.41464	0.41011	1.079	0.254	0.289	0.28635	6.20172811	0.528867166	4.317E-05	0.021602	0.506086	0.03579	2.04774	1.95E+00	7.39E+00
3499	498363.09	3849377.25	0.57091	0.25843	0.38319	0.37908	1.162	0.256	0.26	0.25843	5.95674321	0.477301001	3.989E-05	0.019968	0.545109	0.036	1.84184	1.76E+00	7.12E+00
3500	471363.09	3849877.25	0.80706	0.86231	0.54255	0.46927	1.182	0.457	0.8709	0.86231	8.42067783	1.592622476	5.648E-05	0.024718	0.554103	0.06432	6.170286	5.86E+00	1.10E+01
3501	471863.09	3849877.25	0.90216	1.14558	0.74158	0.48267	1.03	0.575	1.1569	1.14558	9.41292928	2.115801112	7.72E-05	0.025424	0.482982	0.08096	8.197337	7.79E+00	1.25E+01
3502	472363.09	3849877.25	1.0046	1.3767	0.92798	0.60318	0.822	0.671	1.2964	1.3767	10.4817646	2.542662573	9.661E-05	0.031772	0.385438	0.09444	9.185603	9.36E+00	1.34E+01
3503	472863.09	3849877.25	1.09662	1.53742	1.02378	0.7073	0.742	0.719	1.4478	1.53742	11.4418801	2.839500467	0.0001066	0.037256	0.347708	0.10108	10.2579	1.05E+01	1.46E+01
3504	473363.09	3849877.25	1.18113	1.59716	1.06874	0.73595	0.984	0.771	1.539	1.59716	12.3236379	2.949835807	0.0001113	0.038765	0.461262	0.1085	10.90402	1.09E+01	1.59E+01
3505	473863.09	3849877.25	1.26422	1.58805	1.2599	0.68044	1.316	0.856	1.5981	1.58805	13.1905798	2.933010314	0.0001312	0.035842	0.616896	0.12047	11.3229	1.08E+01	1.74E+01
3506	474363.09	3849877.25	1.29234	1.70528	1.47194	0.67623	1.525	0.867	1.7244	1.70528	13.4839774	3.14952541	0.0001532	0.03562	0.715228	0.12196	12.21778	1.16E+01	1.81E+01
3507	474863.09	3849877.25	1.34515	2.01759	1.67718	0.84021	1.551	0.844	1.9108	2.01759	14.0349847	3.726338767	0.0001746	0.044257	0.727115	0.11869	13.53857	1.37E+01	1.85E+01
3508	475363.09	3849877.25	1.37912	2.27467	1.60192	1.07953	1.589	0.919	2.2234	2.27467	14.3894199	4.201146419	0.0001668	0.056863	0.745267	0.12933	15.75352	1.55E+01	1.98E+01
3509	475863.09	3849877.25	1.47433	2.82083	1.14929	1.13386	1.759	0.936	2.8457	2.82083	15.382819	5.209863344	0.0001196	0.059725	0.824702	0.13172	20.16274	1.92E+01	2.26E+01
3510	476363.09	3849877.25	1.5772	3.13292	0.70758	0.99683	1.907	1.043	3.1575	3.13292	16.4561409	5.786270377	7.366E-05	0.052507	0.894313	0.14678	22.37217	2.13E+01	2.44E+01
3511	476863.09	3849877.25	1.58	4.52488	0.99791	0.93623	1.749	1.133	4.5673	4.52488	16.4853554	8.357117036	0.0001039	0.049315	0.820112	0.1594	32.36061	3.08E+01	2.75E+01
3512	477363.09	3849877.25	1.67623	6.47388	1.6229	0.78195	1.424	0.855	6.539	6.47388	17.4893971	11.95677517	0.000169	0.041188	0.667558	0.12028	46.33096	4.40E+01	3.26E+01
3513	477863.09	3849877.25	2.26219	12.52313	1.35486	0.79022	1.09	0.702	12.513	12.52313	23.6031685	23.12929029	0.000141	0.041624	0.510944	0.09882	88.6565	8.52E+01	5.09E+01
3514	478363.09	3849877.25	2.26349	6.12602	0.88537	1.29183	1.57	1.061	6.1586	6.12602	23.6167324	11.31430361	9.217E-05	0.068046	0.736217	0.14921	43.63597	4.17E+01	3.79E+01
3515	478863.09	3849877.25	2.54138	3.92536	0.6357	1.23768	2.168	1.731	3.7692	3.92536	26.5161725	7.249848157	6.618E-05	0.065194	1.016833	0.24348	26.70628	2.67E+01	3.51E+01
3516	479363.09	3849877.25	2.64226	2.88399	0.51219	0.87597	2.114	1.18	2.7144	2.88399	27.5687312	5.32651517	5.332E-05	0.046141	0.991347	0.16596	19.23229	1.96E+01	3.37E+01
3517	479863.09	3849877.25	2.86739	2.80908	0.50864	1.00689	1.495	1.074	2.9995	2.80908	29.9176857	5.188161967	5.295E-05	0.053037	0.700856	0.15107	21.2524	1.91E+01	3.82E+01
3518	480363.09	3849877.25	2.50936	1.81259	0.70575	1.01141	0.839	0.968	1.8989	1.81259	26.1820832	3.347719004	7.347E-05	0.053275	0.393583	0.13613	13.4546	1.23E+01	3.12E+01
3519	480863.09	3849877.25	2.28292	1.37473	0.49386	1.2096	1.548	0.809	1.3891	1.37473	23.8194605	2.539024129	5.141E-05	0.063715	0.726037	0.11378	9.842346	9.35E+00	2.78E+01
3520	481363.09	3849877.25	2.13139	1.20282	0.62086	0.93519	3.426	0.717	1.2142	1.20282	22.2384315	2.221519137	6.464E-05	0.04926	1.606325	0.10093	8.603187	8.18E+00	2.66E+01
3521	481863.09	3849877.25	1.66356	0.67659	0.62222	0.42866	1.32	0.397	0.6834	0.67659	17.3572012	1.249611441	6.478E-05	0.022579	0.619016	0.0559	4.842419	4.60E+00	1.95E+01
3522	482363.09	3849877.25	1.23187	0.53525	0.38298	0.38579	0.711	0.362	0.5484	0.53525	12.8530473	0.988566966	3.987E-05	0.020321	0.333195	0.05088	3.88547	3.64E+00	1.45E+01
3523	482863.09	3849877.25	0.94978	0.49665	0.3925	0.36226	0.649	0.335	0.5002	0.49665	9.90978537	0.917275635	4.086E-05	0.019082	0.304272	0.04713	3.54431	3.38E+00	1.14E+01
3524	483363.09	3849877.25	0.67924	0.43162	0.48738	0.32652	0.708	0.35	0.4421	0.43162	7.08703344	0.797170059	5.074E-05	0.017199	0.331924	0.04918	3.132084	2.93E+00	8.48E+00
3525	483863.09	3849877.25	0.70037	0.42404	0.4471	0.3233	0.762	0.376	0.4368	0.42404	7.30749898	0.783170362	4.655E-05	0.01703	0.357457	0.05291	3.095098	2.88E+00	8.73E+00
3526	484363.09	3849877.25	1.1372	0.52175	0.5957	0.3953	1.025	0.51	0.5306	0.52175	11.8652824	0.963633469	6.202E-05	0.020822	0.480469	0.07171	3.759422	3.55E+00	1.36E+01
3527	484863.09	3849877.25	1.38203	0.69226	0.68637	0.49065	1.887	0.514	0.6998	0.69226	14.4197821	1.278552766	7.146E-05	0.025845	0.884752	0.07228	4.958194	4.71E+00	1.69E+01
3528	485363.09	3849877.25	1.13692	0.60543	0.46446	0.47437	2.734	0.452	0.6111	0.60543	11.862361	1.11818421	4.835E-05	0.024987	1.282138	0.06358	4.329864	4.12E+00	1.46E+01
3529	485863.09	3849877.25	0.79493	0.51031	0.54403	0.42548	2.133	0.375	0.5147	0.51031	8.2941162	0.94250464	5.664E-05	0.022412	1.00005	0.05279	3.646764	3.47E+00	1.05E+01
3530	486363.09	3849877.25	0.66692	0.47385	0.65016	0.3909	1.299	0.342	0.4778	0.47385	6.9584894	0.87516573	6.769E-05	0.02059	0.60892	0.04816	3.385669	3.22E+00	8.67E+00

3531	486863.09	3849877.25	0.72972	0.4861	0.57405	0.44851	1.044	0.43	0.4903	0.4861	7.61373011	0.897790569	5.976E-05	0.023625	0.48943	0.06052	3.473669	3.31E+00	9.25E+00
3532	487363.09	3849877.25	0.78469	0.46551	0.66859	0.35554	1.233	0.433	0.4695	0.46551	8.18727441	0.85976237	6.96E-05	0.018728	0.578215	0.06096	3.326435	3.17E+00	9.87E+00
3533	487863.09	3849877.25	0.79077	0.43614	0.51725	0.30827	1.78	0.419	0.4399	0.43614	8.25071172	0.805518163	5.385E-05	0.016238	0.834868	0.05892	3.116992	2.97E+00	1.01E+01
3534	488363.09	3849877.25	0.79075	0.41632	0.56591	0.32154	2.059	0.417	0.4199	0.41632	8.25050305	0.768912096	5.891E-05	0.016937	0.965556	0.05866	2.975285	2.83E+00	1.02E+01
3535	488863.09	3849877.25	0.78393	0.39849	0.43115	0.38377	1.393	0.38	0.4019	0.39849	8.17934474	0.735981411	4.489E-05	0.020215	0.653036	0.0535	2.847819	2.71E+00	9.78E+00
3536	489363.09	3849877.25	0.69929	0.37897	0.40222	0.48529	1.411	0.324	0.382	0.37897	7.29623051	0.699929422	4.187E-05	0.025562	0.661664	0.04559	2.706537	2.58E+00	8.86E+00
3537	489863.09	3849877.25	0.61794	0.36039	0.40817	0.53199	1.846	0.278	0.3637	0.36039	6.44744338	0.665613543	4.249E-05	0.028022	0.865442	0.03907	2.576875	2.45E+00	8.17E+00
3538	490363.09	3849877.25	0.56942	0.35513	0.36739	0.44111	1.504	0.278	0.3587	0.35513	5.9411969	0.655898714	3.825E-05	0.023235	0.705409	0.03915	2.541236	2.41E+00	7.49E+00
3539	490863.09	3849877.25	0.54821	0.34556	0.33952	0.42563	1.136	0.267	0.3489	0.34556	5.71989665	0.638223635	3.535E-05	0.02242	0.532697	0.03751	2.472295	2.35E+00	7.07E+00
3540	491363.09	3849877.25	0.52679	0.3174	0.31588	0.40771	0.971	0.234	0.3195	0.3174	5.49640531	0.586214208	3.289E-05	0.021476	0.455166	0.03285	2.263489	2.16E+00	6.70E+00
3541	491863.09	3849877.25	0.43441	0.27334	0.25832	0.39941	0.954	0.246	0.276	0.27334	4.53253371	0.504838663	2.689E-05	0.021039	0.447335	0.03454	1.955843	1.86E+00	5.64E+00
3542	492363.09	3849877.25	0.40057	0.25929	0.25045	0.35114	1.077	0.248	0.2653	0.25929	4.17945496	0.478889358	2.607E-05	0.018496	0.504792	0.03489	1.879959	1.76E+00	5.33E+00
3543	492863.09	3849877.25	0.36824	0.25265	0.27325	0.31095	1.115	0.255	0.2604	0.25265	3.8421312	0.466625771	2.845E-05	0.016379	0.522868	0.0359	1.844886	1.72E+00	5.01E+00
3544	493363.09	3849877.25	0.38423	0.24915	0.3787	0.27138	1.286	0.257	0.2576	0.24915	4.00896717	0.460161531	3.942E-05	0.014295	0.603016	0.03617	1.825472	1.69E+00	5.25E+00
3545	493863.09	3849877.25	0.38215	0.24769	0.40563	0.25706	1.172	0.254	0.2563	0.24769	3.98726493	0.45746502	4.223E-05	0.01354	0.549672	0.03572	1.816191	1.68E+00	5.18E+00
3546	494363.09	3849877.25	0.40044	0.24632	0.35881	0.27943	0.942	0.245	0.255	0.24632	4.17809857	0.454934732	3.735E-05	0.014719	0.441839	0.03442	1.806838	1.67E+00	5.26E+00
3547	494863.09	3849877.25	0.45556	0.24857	0.36217	0.29827	0.98	0.241	0.2572	0.24857	4.75320793	0.459090314	3.77E-05	0.015711	0.459649	0.03393	1.822213	1.69E+00	5.85E+00
3548	495363.09	3849877.25	0.42842	0.24268	0.27744	0.29006	0.972	0.252	0.2498	0.24268	4.47003543	0.448211922	2.888E-05	0.015279	0.455836	0.0355	1.770065	1.65E+00	5.54E+00
3549	495863.09	3849877.25	0.46387	0.24406	0.29721	0.33497	0.876	0.238	0.2493	0.24406	4.83991255	0.45076068	3.094E-05	0.017644	0.410815	0.03343	1.766239	1.66E+00	5.86E+00
3550	496363.09	3849877.25	0.51654	0.24193	0.34139	0.35991	0.753	0.236	0.2454	0.24193	5.38945918	0.446826728	3.554E-05	0.018958	0.353176	0.03324	1.738464	1.65E+00	6.34E+00
3551	496863.09	3849877.25	0.53415	0.23986	0.39281	0.36356	1.028	0.26	0.2421	0.23986	5.57319785	0.443003592	4.089E-05	0.01915	0.482161	0.0366	1.715295	1.63E+00	6.64E+00
3552	497363.09	3849877.25	0.59661	0.2707	0.43069	0.40883	1.163	0.274	0.2721	0.2707	6.22489108	0.499962779	4.484E-05	0.021535	0.545531	0.03848	1.928139	1.84E+00	7.42E+00
3553	497863.09	3849877.25	0.60106	0.29286	0.38147	0.42206	1.22	0.283	0.2943	0.29286	6.27132136	0.540890652	3.971E-05	0.022232	0.572147	0.03987	2.085434	1.99E+00	7.54E+00
3554	498363.09	3849877.25	0.56353	0.26549	0.35402	0.36878	1.043	0.275	0.2664	0.26549	5.879742	0.490340297	3.686E-05	0.019425	0.488914	0.03875	1.88754	1.81E+00	7.00E+00
3555	471363.09	3850377.25	0.69408	0.47597	0.38868	0.49371	1.206	0.415	0.4877	0.47597	7.24187057	0.879081212	4.046E-05	0.026006	0.565531	0.05843	3.45553	3.24E+00	8.99E+00
3556	471863.09	3850377.25	0.81324	0.67908	0.53152	0.5371	1.467	0.428	0.686	0.67908	8.48515852	1.254210286	5.533E-05	0.028291	0.687876	0.06019	4.860699	4.62E+00	1.08E+01
3557	472363.09	3850377.25	0.88644	0.82606	0.65128	0.53399	1.327	0.514	0.834	0.82606	9.24891043	1.525671421	6.78E-05	0.028127	0.622092	0.07232	5.908837	5.62E+00	1.18E+01
3558	472863.09	3850377.25	0.98398	1.05828	0.89571	0.54858	1.154	0.666	1.0312	1.05828	10.2666203	1.9545645	9.325E-05	0.028896	0.541198	0.09368	7.30607	7.20E+00	1.30E+01
3559	473363.09	3850377.25	1.09905	1.25956	1.03429	0.65417	0.941	0.714	1.1665	1.25956	11.4672341	2.3263137	0.0001077	0.034458	0.441108	0.10046	8.265286	8.56E+00	1.41E+01
3560	473863.09	3850377.25	1.20099	1.39479	1.12324	0.77336	0.838	0.779	1.3018	1.39479	12.5308526	2.576073458	0.0001169	0.040736	0.392809	0.10955	9.223864	9.48E+00	1.54E+01
3561	474363.09	3850377.25	1.28119	1.41259	1.24729	0.81081	1.104	0.902	1.3579	1.41259	13.3676408	2.608948735	0.0001299	0.042709	0.517682	0.12685	9.621495	9.61E+00	1.67E+01
3562	474863.09	3850377.25	1.35441	1.47494	1.51814	0.74292	1.442	0.971	1.4975	1.47494	14.1316014	2.724104551	0.000158	0.039133	0.676083	0.13653	10.61047	1.00E+01	1.83E+01
3563	475363.09	3850377.25	1.39942	1.70045	1.7844	0.7793	1.623	0.911	1.6261	1.70045	14.6012254	3.140604759	0.0001858	0.041049	0.760995	0.12811	11.52172	1.16E+01	1.86E+01
3564	475863.09	3850377.25	1.45711	2.03731	1.91733	1.0006	1.723	0.936	1.851	2.03731	15.2031495	3.762760141	0.0001996	0.052706	0.80807	0.13171	13.11529	1.39E+01	1.92E+01
3565	476363.09	3850377.25	1.48386	2.16451	1.56864	1.23524	1.844	1.024	2.1435	2.16451	15.4822529	3.997689087	0.0001633	0.065065	0.864687	0.14407	15.18726	1.47E+01	2.10E+01
3566	476863.09	3850377.25	1.62634	2.44944	0.9673	1.19594	1.975	1.057	2.4793	2.44944	16.9688563	4.523933619	0.0001007	0.062995	0.926162	0.14867	17.56652	1.67E+01	2.35E+01
3567	477363.09	3850377.25	1.67603	3.04108	1.01791	1.08946	1.864	1.26	3.0759	3.04108	17.4873103	5.616648723	0.000106	0.057386	0.874094	0.17731	21.79393	2.07E+01	2.53E+01
3568	477863.09	3850377.25	1.68865	3.93301	1.74113	0.97651	1.685	1.051	3.9807	3.93301	17.6189845	7.263977138	0.0001813	0.051437	0.790091	0.14786	28.20491	2.67E+01	2.73E+01
3569	478363.09	3850377.25	2.07077	7.04597	1.55227	0.84526	1.294	0.751	7.1494	7.04597	21.6059364	13.01338288	0.0001616	0.044523	0.60673	0.10558	50.65629	4.79E+01	3.81E+01
3570	478863.09	3850377.25	2.92733	12.25871	1.01924	1.26898	1.516	1.273	12.083	12.25871	30.5430858	22.64092621	0.0001061	0.066842	0.710896	0.1791	85.61206	8.34E+01	5.64E+01
3571	479363.09	3850377.25	3.07087	5.63844	0.7023	1.35423	2.149	1.982	5.7695	5.63844	32.040749	10.41377959	7.311E-05	0.071333	1.007557	0.27886	40.8792	3.83E+01	4.64E+01
3572	479863.09	3850377.25	3.05771	4.06387	0.5679	1.0723	2.3	1.393	4.0856	4.06387	31.9034406	7.505665832	5.912E-05	0.056482	1.078683	0.19591	28.94788	2.76E+01	4.21E+01
3573	480363.09	3850377.25	3.22566	3.05273	0.82436	1.12146	1.713	1.287	3.1402	3.05273	33.6557922	5.638165407	8.582E-05	0.059072	0.803174	0.181	22.24924	2.08E+01	4.18E+01
3574	480863.09	3850377.25	2.74784	2.28844	0.99803	1.15804	0.988	1.163	2.3635	2.28844	28.6703285	4.226578585	0.0001039	0.060999	0.463489	0.16356	16.74625	1.56E+01	3.48E+01
3575	481363.09	3850377.25	2.3321	1.68357	0.6318	1.31255	1.862	0.914	1.697	1.68357	24.3325933	3.109428654	6.577E-05	0.069137	0.872945	0.12858	12.02379	1.14E+01	2.91E+01
3576	481863.09	3850377.25	2.5025	1.36975	0.84304	0.92657	3.796	0.745	1.3829	1.36975	26.1105076	2.52982644	8.777E-05	0.048806	1.78013	0.1048	9.798062	9.31E+00	3.11E+01
3577	482363.09	3850377.25	2.34911	1.1564	0.64604	0.7523	1.79	0.62	1.1674	1.1564	24.5100717	2.135784847	6.726E-05	0.039627	0.839534	0.08722	8.271734	7.86E+00	2.80E+01
3578	482863.09	3850377.25	1.52439	0.71565	0.38707	0.45041	0.706	0.395	0.7222	0.71565	15.9051335	1.321752357	4.03E-05	0.023725	0.331076	0.05551	5.11726	4.87E+00	1.79E+01
3579	483363.09	3850377.25	1.05699	0.59059	0.56558	0.38578	0.713	0.38	0.6064	0.59059	11.0283898	1.090775833	5.888E-05	0.020321	0.334447	0.0535	4.296279	4.02E+00	1.28E+01
3580	483863.09	3850377.25	1.15673	0.60733	0.49922	0.42469	0.998	0.464	0.6219	0.60733	12.0690539	1.121693369	5.197E-05	0.02237	0.468066	0.06526	4.406528	4.13E+00	1.40E+01
3581	484363.09	3850377.25	1.34197	0.66457	0.73453	0.44081	1.634	0.548	0.6834	0.66457	14.0018053	1.227411394	7.647E-05	0.023219	0.766439	0.07703	4.842206	4.52E+00	1.64E+01
3582	484863.09	3850377.25	1.51126	0.76066	0.70339	0.5219	1.688	0.549	0.768	0.76066	15.7681381	1.404882482	7.323E-05	0.027491	0.791306	0.07721	5.441557	5.17E+00	1.83E+01
3583	485363.09	3850377.25	1.33352	0.74638	0.50045	0.56727	2.784	0.513	0.7536	0.74638	13.91364	1.378508383	5.21E-05	0.02988	1.305687	0.0722	5.33974	5.08E+00	1.70E+01
3584	485863.09	3850377.25	1.0014	0.66938	0.73765	0.49374	2.909	0.417	0.6759	0.66938	10.4483765	1.236295106	7.679E-05	0.026007	1.364133	0.05864	4.788641	4.55E+00	1.34E+01
3585	486363.09	3850377.25	0.92598	0.65636	0.68992	0.52262	2.243	0.38	0.6629	0.65636	9.66146167	1.212248134	7.182E-05	0.027529	1.051795	0.05343	4.696531	4.46E+00	1.22E+01
3586	486863.09	3850377.25	0.90299	0.63664	0.63353	0.49422	1.352	0.44	0.6428	0.63664	9.42158931	1.17582676	6.595E-05	0.026033	0.633922	0.06194	4.554612	4.33E+00	1.15E+01
3587	487363.09	3850377.25	0.84821	0.58549	0.5623	0.41161	1.336	0.456	0.5911	0.58549	8.85002743	1.081356512	5.854E-05	0.021681	0.626335	0.06409	4.188157	3.98E+00	1.09E+01

3588	487863.09	3850377.25	0.81783	0.55489	0.65242	0.33145	2.356	0.443	0.5602	0.55489	8.53304952	1.024840586	6.792E-05	0.017459	1.104989	0.06226	3.969432	3.77E+00	1.09E+01
3589	488363.09	3850377.25	0.795	0.51444	0.49061	0.32616	2.112	0.435	0.5193	0.51444	8.29484657	0.950132443	5.108E-05	0.01718	0.990207	0.06122	3.679499	3.50E+00	1.05E+01
3590	488863.09	3850377.25	0.77702	0.48245	0.6124	0.40872	1.42	0.386	0.4868	0.48245	8.1072474	0.891049291	6.375E-05	0.021529	0.665748	0.05426	3.449437	3.28E+00	9.91E+00
3591	489363.09	3850377.25	0.70625	0.44936	0.42076	0.50101	1.652	0.329	0.4534	0.44936	7.36884955	0.82993452	4.38E-05	0.02639	0.774551	0.04627	3.21229	3.06E+00	9.20E+00
3592	489863.09	3850377.25	0.63172	0.41818	0.44818	0.54291	2.095	0.298	0.4219	0.41818	6.59122072	0.772347378	4.666E-05	0.028597	0.982465	0.04193	2.989385	2.84E+00	8.56E+00
3593	490363.09	3850377.25	0.55545	0.3925	0.55583	0.44511	1.667	0.295	0.3961	0.3925	5.79543714	0.724918326	5.787E-05	0.023446	0.781487	0.0415	2.80637	2.67E+00	7.50E+00
3594	490863.09	3850377.25	0.53109	0.37452	0.39663	0.47002	1.296	0.3	0.3782	0.37452	5.54127052	0.691710603	4.129E-05	0.024758	0.607518	0.04216	2.679683	2.55E+00	7.04E+00
3595	491363.09	3850377.25	0.52922	0.34594	0.30782	0.42136	1.274	0.282	0.3493	0.34594	5.52175937	0.638925467	3.205E-05	0.022195	0.597614	0.03963	2.474846	2.35E+00	6.94E+00
3596	491863.09	3850377.25	0.52522	0.29387	0.35819	0.41697	1.164	0.266	0.2964	0.29387	5.48002429	0.542756047	3.729E-05	0.021964	0.54592	0.03742	2.099959	2.00E+00	6.73E+00
3597	492363.09	3850377.25	0.41573	0.26857	0.39454	0.35914	1.155	0.261	0.2778	0.26857	4.3376309	0.496028828	4.107E-05	0.018917	0.541747	0.03679	1.967959	1.83E+00	5.57E+00
3598	492863.09	3850377.25	0.40313	0.26567	0.42191	0.32366	1.388	0.259	0.2748	0.26567	4.2061654	0.490672743	4.392E-05	0.017048	0.650991	0.0364	1.947057	1.81E+00	5.54E+00
3599	493363.09	3850377.25	0.41491	0.25362	0.41551	0.29222	1.269	0.256	0.2627	0.25362	4.32907521	0.468417289	4.326E-05	0.015392	0.595021	0.03599	1.861183	1.72E+00	5.58E+00
3600	493863.09	3850377.25	0.42368	0.25773	0.35216	0.29355	1.122	0.248	0.2666	0.25773	4.42057936	0.476008154	3.666E-05	0.015462	0.526104	0.03482	1.888674	1.75E+00	5.61E+00
3601	494363.09	3850377.25	0.44985	0.25726	0.30284	0.30145	1.027	0.239	0.2646	0.25726	4.6936311	0.475140098	3.153E-05	0.015879	0.481477	0.0336	1.874999	1.75E+00	5.83E+00
3602	494863.09	3850377.25	0.51643	0.25464	0.34079	0.29445	1.134	0.244	0.2598	0.25464	5.38831146	0.470301153	3.548E-05	0.01551	0.531764	0.03438	1.840918	1.73E+00	6.55E+00
3603	495363.09	3850377.25	0.61046	0.26369	0.35965	0.33854	1.078	0.259	0.2658	0.26369	6.36939879	0.487015831	3.744E-05	0.017832	0.505274	0.03639	1.88336	1.79E+00	7.51E+00
3604	495863.09	3850377.25	0.5538	0.24893	0.37745	0.37334	0.983	0.248	0.251	0.24893	5.77822142	0.459755208	3.929E-05	0.019665	0.461098	0.03493	1.778709	1.69E+00	6.84E+00
3605	496363.09	3850377.25	0.61441	0.26439	0.42337	0.38546	1.126	0.267	0.2662	0.26439	6.41061218	0.488308678	4.408E-05	0.020304	0.527872	0.0375	1.88584	1.80E+00	7.57E+00
3606	496863.09	3850377.25	0.62926	0.29033	0.43755	0.43636	1.266	0.285	0.2917	0.29033	6.56555365	0.53621793	4.555E-05	0.022985	0.593881	0.04008	2.066587	1.97E+00	7.85E+00
3607	497363.09	3850377.25	0.60932	0.30094	0.37826	0.4567	1.242	0.298	0.3027	0.30094	6.35750429	0.555813812	3.938E-05	0.024056	0.582393	0.04191	2.144455	2.05E+00	7.66E+00
3608	497863.09	3850377.25	0.58924	0.2846	0.32105	0.4036	1.141	0.304	0.2857	0.2846	6.1479942	0.525635046	3.342E-05	0.021259	0.534882	0.04275	2.024146	1.94E+00	7.36E+00
3609	498363.09	3850377.25	0.57236	0.27363	0.28626	0.42838	1.065	0.297	0.2745	0.27363	5.97187218	0.505374272	2.98E-05	0.022565	0.499216	0.04184	1.945073	1.86E+00	7.13E+00
3610	471363.09	3850877.25	0.77954	0.52476	0.48227	0.60894	1.166	0.523	0.5148	0.52476	8.13354049	0.969192716	5.021E-05	0.032075	0.546868	0.07362	3.647402	3.57E+00	9.83E+00
3611	471863.09	3850877.25	0.83165	0.59113	0.50939	0.60309	1.114	0.515	0.5968	0.59113	8.67724421	1.091773173	5.303E-05	0.031767	0.522409	0.07248	4.22826	4.02E+00	1.06E+01
3612	472363.09	3850877.25	0.87174	0.70901	0.55309	0.59712	1.375	0.501	0.7164	0.70901	9.09553402	1.309488771	5.758E-05	0.031453	0.644825	0.07048	5.076165	4.82E+00	1.14E+01
3613	472863.09	3850877.25	0.91031	0.8326	0.66287	0.58591	1.61	0.534	0.8406	0.8326	9.4979645	1.537750315	6.901E-05	0.030862	0.754993	0.07513	5.955883	5.66E+00	1.22E+01
3614	473363.09	3850877.25	0.97605	0.85241	0.74812	0.58755	1.536	0.577	0.8596	0.85241	10.1838805	1.574337912	7.788E-05	0.030949	0.72041	0.08123	6.090789	5.80E+00	1.29E+01
3615	473863.09	3850877.25	1.10778	0.97827	1.00415	0.62467	1.314	0.706	0.9679	0.97827	11.5583209	1.806791977	0.0001045	0.032904	0.616179	0.09925	6.85785	6.65E+00	1.43E+01
3616	474363.09	3850877.25	1.24085	1.15791	1.21322	0.70476	1.089	0.802	1.0456	1.15791	12.9467426	2.138573705	0.0001263	0.037123	0.510648	0.11276	7.408595	7.87E+00	1.53E+01
3617	474863.09	3850877.25	1.36158	1.24034	1.30343	0.83627	1.016	0.893	1.1386	1.24034	14.2064116	2.290815788	0.0001357	0.04405	0.476581	0.12566	8.067321	8.43E+00	1.68E+01
3618	475363.09	3850877.25	1.44681	1.28409	1.49382	0.88638	1.24	1.056	1.2256	1.28409	15.0956817	2.371618786	0.0001555	0.046689	0.581277	0.14858	8.684031	8.73E+00	1.82E+01
3619	475863.09	3850877.25	1.48731	1.39094	1.86697	0.8349	1.558	1.078	1.3925	1.39094	15.5182494	2.568962795	0.0001944	0.043978	0.730398	0.15167	9.866577	9.46E+00	1.94E+01
3620	476363.09	3850877.25	1.57994	1.84699	2.14002	0.93678	1.705	0.983	1.628	1.84699	16.4847294	3.411253247	0.0002228	0.049344	0.79932	0.13833	11.53483	1.26E+01	1.99E+01
3621	476863.09	3850877.25	1.62534	1.95571	2.07549	1.1917	1.964	1.062	1.7839	1.95571	16.9584225	3.612051006	0.0002161	0.062772	0.920882	0.1494	12.63943	1.33E+01	2.10E+01
3622	477363.09	3850877.25	1.74067	2.02568	1.43044	1.36293	2.09	1.122	2.0682	2.02568	18.1617492	3.741280396	0.0001489	0.071791	0.980135	0.15778	14.65359	1.38E+01	2.40E+01
3623	477863.09	3850877.25	1.79352	2.23395	1.13767	1.27294	2.061	1.342	2.2767	2.23395	18.7131739	4.125939606	0.0001184	0.067051	0.966241	0.18879	16.13138	1.52E+01	2.50E+01
3624	478363.09	3850877.25	1.75273	2.82796	1.83576	1.20214	1.999	1.276	2.8827	2.82796	18.2875804	5.223031924	0.0001911	0.063322	0.937388	0.17952	20.42504	1.92E+01	2.59E+01
3625	478863.09	3850877.25	1.84136	3.69281	1.87274	1.01873	1.741	0.898	3.7662	3.69281	19.2123254	6.820345592	0.000195	0.053661	0.816201	0.12638	26.68496	2.51E+01	2.86E+01
3626	479363.09	3850877.25	2.34908	6.53667	1.1654	1.22204	1.711	1.521	6.6983	6.53667	24.5097587	12.07274363	0.0001213	0.06437	0.802518	0.21399	47.45952	4.44E+01	4.07E+01
3627	479863.09	3850877.25	3.86557	14.43597	0.77046	1.5327	2.107	2.154	14.037	14.43597	40.3324655	26.6621636	8.021E-05	0.080734	0.988092	0.30306	99.45565	9.82E+01	6.97E+01
3628	480363.09	3850877.25	3.71569	5.80629	0.69785	1.29757	2.257	1.633	5.7129	5.80629	38.7686521	10.72378606	7.265E-05	0.068348	1.058224	0.22965	40.47796	3.95E+01	5.18E+01
3629	480863.09	3850877.25	3.41781	4.40565	1.56866	1.30138	1.992	1.7	4.0091	4.40565	35.6606409	8.136908088	0.0001633	0.068549	0.934078	0.23916	28.40557	3.00E+01	4.35E+01
3630	481363.09	3850877.25	3.05344	3.14385	1.17822	1.49302	1.238	1.453	3.2639	3.14385	31.8588884	5.806457275	0.0001227	0.078643	0.580381	0.20438	23.12605	2.14E+01	4.03E+01
3631	481863.09	3850877.25	2.85629	2.55391	1.28199	1.75956	2.955	1.348	2.568	2.55391	29.8018708	4.716881944	0.0001335	0.092683	1.385647	0.18966	18.19499	1.74E+01	3.70E+01
3632	482363.09	3850877.25	2.70864	1.8251	0.95662	1.1535	4.508	0.9	1.8376	1.8251	28.2613248	3.370824044	9.959E-05	0.06076	2.113742	0.12664	13.02027	1.24E+01	3.45E+01
3633	482863.09	3850877.25	2.38709	1.36389	0.63937	0.78908	1.535	0.666	1.3722	1.36389	24.9063463	2.519003455	6.656E-05	0.041564	0.719725	0.09366	9.722674	9.27E+00	2.87E+01
3634	483363.09	3850877.25	1.79981	1.04695	0.65426	0.55322	0.735	0.466	1.0545	1.04695	18.7788023	1.933638833	6.811E-05	0.02914	0.344726	0.06556	7.471796	7.12E+00	2.15E+01
3635	483863.09	3850877.25	1.53731	0.95307	0.57146	0.52118	1.314	0.509	0.9608	0.95307	16.0399378	1.76024945	5.949E-05	0.027453	0.616024	0.07165	6.807615	6.48E+00	1.88E+01
3636	484363.09	3850877.25	1.6455	1.01155	0.89123	0.54976	2.73	0.559	1.0194	1.01155	17.1687673	1.868257664	9.278E-05	0.028958	1.279999	0.07861	7.222959	6.88E+00	2.08E+01
3637	484863.09	3850877.25	1.60629	0.93563	0.75979	0.54275	1.97	0.609	0.9435	0.93563	16.7596592	1.728039067	7.91E-05	0.028589	0.923677	0.08564	6.684967	6.36E+00	1.98E+01
3638	485363.09	3850877.25	1.50674	0.84062	0.63385	0.60873	2.502	0.606	0.8478	0.84062	15.7209775	1.552562659	6.599E-05	0.032064	1.173255	0.08528	6.00704	5.72E+00	1.89E+01
3639	485863.09	3850877.25	1.15848	0.71164	0.76961	0.56034	3.329	0.461	0.7184	0.71164	12.087313	1.314346185	8.012E-05	0.029515	1.560844	0.06492	5.08984	4.84E+00	1.53E+01
3640	486363.09	3850877.25	1.11814	0.67561	0.75771	0.66225	3.119	0.411	0.6815	0.67561	11.6664148	1.247801453	7.888E-05	0.034883	1.46247	0.05776	4.828461	4.59E+00	1.47E+01
3641	486863.09	3850877.25	1.06271	0.62568	0.70143	0.60271	1.664	0.452	0.6308	0.62568	11.0880709	1.155584455	7.302E-05	0.031747	0.780389	0.06365	4.469375	4.25E+00	1.33E+01
3642	487363.09	3850877.25	0.93756	0.57944	0.65755	0.45374	1.45	0.461	0.5851	0.57944	9.78228471	1.070182612	6.845E-05	0.0239	0.680013	0.06481	4.145432	3.94E+00	1.18E+01
3643	487863.09	3850877.25	0.86655	0.56427	0.61281	0.38348	2.582	0.464	0.5695	0.56427	9.04138276	1.042164749	6.38E-05	0.020199	1.210754	0.06525	4.035255	3.84E+00	1.16E+01
3644	488363.09	3850877.25	0.80359	0.55083	0.57705	0.33478	2.907	0.456	0.556	0.55083	8.38447265	1.017342068	6.007E-05	0.017634	1.363364	0.0641	3.939248	3.75E+00	1.10E+01

3645	488863.09	3850877.25	0.79646	0.5278	0.5965	0.43247	1.566	0.391	0.5328	0.5278	8.31007987	0.97480737	6.21E-05	0.02278	0.734149	0.05503	3.774726	3.59E+00	1.03E+01
3646	489363.09	3850877.25	0.71104	0.50343	0.53074	0.53383	1.926	0.345	0.5081	0.50343	7.4188273	0.929797791	5.525E-05	0.028119	0.903171	0.04848	3.600072	3.42E+00	9.51E+00
3647	489863.09	3850877.25	0.63762	0.46679	0.61178	0.55396	2.379	0.329	0.471	0.46679	6.65277996	0.862126435	6.369E-05	0.029179	1.115742	0.04629	3.336922	3.17E+00	8.87E+00
3648	490363.09	3850877.25	0.61639	0.44287	0.52593	0.45187	1.372	0.324	0.4468	0.44287	6.43127104	0.817947972	5.475E-05	0.023802	0.643235	0.04563	3.165668	3.01E+00	8.12E+00
3649	490863.09	3850877.25	0.61799	0.42055	0.42846	0.49978	1.432	0.317	0.4242	0.42055	6.44796507	0.776724591	4.461E-05	0.026325	0.671258	0.04463	3.005539	2.86E+00	8.11E+00
3650	491363.09	3850877.25	0.54066	0.39066	0.52907	0.45875	1.835	0.301	0.3947	0.39066	5.64112169	0.721519983	5.508E-05	0.024164	0.860354	0.04235	2.79645	2.66E+00	7.43E+00
3651	491863.09	3850877.25	0.57271	0.32111	0.47985	0.46456	1.258	0.28	0.324	0.32111	5.975524	0.593066303	4.996E-05	0.02447	0.589722	0.0394	2.295869	2.18E+00	7.33E+00
3652	492363.09	3850877.25	0.59486	0.30497	0.4314	0.37615	1.454	0.264	0.3075	0.30497	6.20663199	0.563256922	4.491E-05	0.019813	0.681827	0.0372	2.178748	2.07E+00	7.61E+00
3653	492863.09	3850877.25	0.51266	0.27964	0.40525	0.3244	1.486	0.267	0.2837	0.27964	5.34897615	0.516474295	4.219E-05	0.017087	0.696931	0.03751	2.010188	1.90E+00	6.73E+00
3654	493363.09	3850877.25	0.48735	0.268	0.35083	0.34313	1.193	0.272	0.2721	0.268	5.08489745	0.49497608	3.652E-05	0.018074	0.559285	0.03829	1.927856	1.82E+00	6.30E+00
3655	493863.09	3850877.25	0.52142	0.27656	0.34347	0.34696	1.101	0.249	0.2789	0.27656	5.44037597	0.510785764	3.576E-05	0.018276	0.516078	0.03507	1.976178	1.88E+00	6.62E+00
3656	494363.09	3850877.25	0.58639	0.2718	0.34435	0.32621	1.192	0.246	0.274	0.2718	6.11825796	0.501994398	3.585E-05	0.017183	0.559116	0.0346	1.94146	1.85E+00	7.32E+00
3657	494863.09	3850877.25	0.64839	0.28087	0.40814	0.32983	1.523	0.258	0.2832	0.28087	6.76515166	0.518746014	4.249E-05	0.017373	0.713976	0.03634	2.006362	1.91E+00	8.15E+00
3658	495363.09	3850877.25	0.65735	0.30417	0.43605	0.44787	1.155	0.283	0.3067	0.30417	6.85863823	0.561779382	4.54E-05	0.023591	0.541606	0.03978	2.173151	2.07E+00	8.13E+00
3659	495863.09	3850877.25	0.64862	0.29489	0.41771	0.43087	1.243	0.285	0.2973	0.29489	6.76755142	0.544639911	4.349E-05	0.022696	0.582843	0.04009	2.106619	2.01E+00	8.06E+00
3660	496363.09	3850877.25	0.6364	0.30518	0.42123	0.45379	1.337	0.294	0.3078	0.30518	6.64005076	0.563644777	4.385E-05	0.023903	0.626922	0.0414	2.181016	2.08E+00	8.00E+00
3661	496863.09	3850877.25	0.62353	0.32411	0.36829	0.56219	1.301	0.316	0.3269	0.32411	6.50576815	0.59860708	3.834E-05	0.029613	0.610289	0.04447	2.316063	2.20E+00	7.90E+00
3662	497363.09	3850877.25	0.60109	0.31434	0.34914	0.48376	1.236	0.32	0.317	0.31434	6.27163437	0.580562616	3.635E-05	0.025482	0.579551	0.04504	2.245989	2.14E+00	7.61E+00
3663	497863.09	3850877.25	0.56389	0.29571	0.37264	0.48493	1.133	0.309	0.2983	0.29571	5.88349815	0.546154391	3.879E-05	0.025543	0.531403	0.0435	2.113209	2.01E+00	7.13E+00
3664	498363.09	3850877.25	0.53088	0.27259	0.37369	0.45076	1.09	0.293	0.2749	0.27259	5.53907943	0.503453469	3.89E-05	0.023743	0.510958	0.04117	1.947411	1.85E+00	6.71E+00
3665	471363.09	3851377.25	1.00874	0.52076	0.51944	1.03574	1.644	0.752	0.5478	0.52076	10.5249604	0.961805013	5.408E-05	0.054557	0.771063	0.10578	3.881361	3.54E+00	1.28E+01
3666	471863.09	3851377.25	0.99234	0.64743	0.57069	1.06875	1.582	0.822	0.6864	0.64743	10.3538466	1.195755088	5.941E-05	0.056295	0.741816	0.11561	4.863037	4.40E+00	1.29E+01
3667	472363.09	3851377.25	0.94852	0.65766	0.56978	0.91824	1.531	0.742	0.6747	0.65766	9.89663883	1.214649138	5.932E-05	0.048367	0.717746	0.10443	4.78028	4.47E+00	1.23E+01
3668	472863.09	3851377.25	0.93568	0.66582	0.59067	0.74867	1.359	0.653	0.6821	0.66582	9.76266923	1.229720051	6.149E-05	0.039435	0.637256	0.0919	4.833208	4.53E+00	1.21E+01
3669	473363.09	3851377.25	0.94066	0.58494	0.56002	0.65433	1.287	0.549	0.5908	0.58494	9.8146294	1.080340703	5.83E-05	0.034466	0.603466	0.07726	4.185819	3.98E+00	1.18E+01
3670	473863.09	3851377.25	0.98064	0.64508	0.57556	0.65301	1.683	0.544	0.6519	0.64508	10.2317715	1.191414813	5.992E-05	0.034397	0.789341	0.07656	4.619159	4.39E+00	1.26E+01
3671	474363.09	3851377.25	1.11244	0.81188	0.84079	0.65336	1.755	0.66	0.8197	0.81188	11.6069423	1.499482015	8.753E-05	0.034415	0.823117	0.09287	5.807799	5.52E+00	1.43E+01
3672	474863.09	3851377.25	1.28907	1.05304	1.18804	0.69718	1.472	0.787	0.971	1.05304	13.4498589	1.94488661	0.0001237	0.036723	0.690437	0.11076	6.880169	7.16E+00	1.60E+01
3673	475363.09	3851377.25	1.44662	1.22768	1.37167	0.81219	1.256	0.867	1.1031	1.22768	15.0936993	2.267433709	0.0001428	0.042781	0.588967	0.122	7.815932	8.35E+00	1.76E+01
3674	475863.09	3851377.25	1.578	1.26932	1.50806	0.90049	1.184	1.016	1.1705	1.26932	16.4644879	2.344339694	0.000157	0.047432	0.555046	0.14297	8.293273	8.63E+00	1.92E+01
3675	476363.09	3851377.25	1.64885	1.20614	1.78455	0.964	1.423	1.2	1.1757	1.20614	17.2037205	2.22765093	0.0001858	0.050778	0.667413	0.16876	8.330046	8.20E+00	2.04E+01
3676	476863.09	3851377.25	1.68618	1.53323	2.18882	0.98208	1.83	1.135	1.3314	1.53323	17.5932131	2.831761848	0.0002279	0.05173	0.858174	0.1597	9.433379	1.04E+01	2.05E+01
3677	477363.09	3851377.25	1.73129	1.76928	2.48742	1.15004	1.996	1.108	1.4742	1.76928	18.0638804	3.267728653	0.000259	0.060577	0.936117	0.15585	10.44496	1.20E+01	2.09E+01
3678	477863.09	3851377.25	1.78067	1.85033	2.05265	1.39265	2.272	1.201	1.7663	1.85033	18.5790999	3.417421979	0.0002137	0.073357	1.065441	0.16892	12.51494	1.26E+01	2.32E+01
3679	478363.09	3851377.25	1.8756	1.73945	1.38554	1.51152	2.35	1.374	1.9228	1.73945	19.5695776	3.212634861	0.0001442	0.079618	1.10212	0.1933	13.62338	1.18E+01	2.60E+01
3680	478863.09	3851377.25	1.80519	2.13019	1.93369	1.44539	2.323	1.494	2.3383	2.13019	18.8349359	3.934302598	0.0002013	0.076135	1.089379	0.21019	16.56791	1.45E+01	2.62E+01
3681	479363.09	3851377.25	1.83904	2.54421	2.19604	1.29527	2.054	1.101	2.6142	2.54421	19.188119	4.698966765	0.0002286	0.068227	0.963024	0.15494	18.52283	1.73E+01	2.63E+01
3682	479863.09	3851377.25	2.35353	3.47094	1.33438	1.28022	1.9	1.803	3.5241	3.47094	24.556189	6.410568193	0.0001389	0.067434	0.891054	0.25358	24.96931	2.36E+01	3.35E+01
3683	480363.09	3851377.25	2.82198	6.49759	0.89294	1.6776	2.12	2.352	6.6406	6.49759	29.4438882	12.00056578	9.296E-05	0.088366	0.99394	0.33091	47.05133	4.42E+01	4.57E+01
3684	480863.09	3851377.25	4.53586	14.96202	1.14398	1.602	2.461	1.976	15.301	14.96202	47.3261167	27.63373885	0.0001191	0.084384	1.154174	0.27797	108.4133	1.02E+02	8.32E+01
3685	481363.09	3851377.25	3.46159	6.24391	1.73906	1.45817	2.211	1.781	5.8494	6.24391	36.1174314	11.53203767	0.000181	0.076808	1.036677	0.25057	41.44532	4.25E+01	4.80E+01
3686	481863.09	3851377.25	3.1572	3.7581	1.66392	1.91383	1.515	1.69	3.7885	3.7581	32.9414963	6.940931369	0.0001732	0.100809	0.710234	0.23781	26.84289	2.56E+01	4.22E+01
3687	482363.09	3851377.25	2.95721	2.8437	1.3012	1.87606	3.767	1.448	2.8546	2.8437	30.8548468	5.252102534	0.0001355	0.09882	1.766442	0.20374	20.22552	1.93E+01	3.91E+01
3688	482863.09	3851377.25	2.84782	2.08754	0.80049	1.28643	4.932	1.064	2.0945	2.08754	29.7134968	3.855531218	8.334E-05	0.067762	2.312648	0.14966	14.84057	1.42E+01	3.67E+01
3689	483363.09	3851377.25	2.39643	1.4722	0.74275	0.76355	1.284	0.658	1.4793	1.4722	25.0037977	2.719043975	7.732E-05	0.040219	0.602059	0.09253	10.4813	1.00E+01	2.89E+01
3690	483863.09	3851377.25	1.95363	1.20114	0.64246	0.67956	0.967	0.578	1.2086	1.20114	20.3837247	2.218416302	6.688E-05	0.035795	0.45359	0.08136	8.563367	8.17E+00	2.36E+01
3691	484363.09	3851377.25	1.93213	1.3713	1.03943	0.75575	3.629	0.79	1.38	1.3713	20.1593986	2.532689174	0.0001082	0.039808	1.701839	0.11115	9.777585	9.32E+00	2.50E+01
3692	484863.09	3851377.25	1.57386	1.01783	0.66625	0.50817	2.364	0.602	1.0239	1.01783	16.4212921	1.879856357	6.936E-05	0.026767	1.108291	0.08467	7.254843	6.92E+00	1.99E+01
3693	485363.09	3851377.25	1.75691	1.1786	0.93844	0.70474	2.173	0.709	1.1867	1.1786	18.3311936	2.176786597	9.77E-05	0.037122	1.019069	0.09971	8.408056	8.01E+00	2.21E+01
3694	485863.09	3851377.25	1.4104	1.00876	0.84237	0.63905	3.566	0.526	1.0162	1.00876	14.7157882	1.863104741	8.77E-05	0.033661	1.671988	0.07393	7.19986	6.86E+00	1.87E+01
3695	486363.09	3851377.25	1.43065	0.96756	0.76289	0.74583	4.002	0.461	0.9755	0.96756	14.927072	1.787011403	7.942E-05	0.039286	1.876572	0.06487	6.911628	6.58E+00	1.90E+01
3696	486863.09	3851377.25	1.30915	0.86773	0.88882	0.64125	2.245	0.496	0.8751	0.86773	13.659369	1.602632814	9.253E-05	0.033777	1.052822	0.06971	6.20047	5.90E+00	1.67E+01
3697	487363.09	3851377.25	0.924	0.73789	0.69643	0.48828	1.479	0.464	0.7445	0.73789	9.6408028	1.362827984	7.25E-05	0.02572	0.693597	0.06534	5.275335	5.02E+00	1.20E+01
3698	487863.09	3851377.25	0.95538	0.68258	0.60429	0.43198	2.829	0.483	0.689	0.68258	9.96821448	1.260674525	6.291E-05	0.022754	1.326404	0.06791	4.881743	4.64E+00	1.29E+01
3699	488363.09	3851377.25	0.91248	0.60475	0.62219	0.38639	2.939	0.489	0.6105	0.60475	9.52060578	1.1169283	6.477E-05	0.020353	1.378327	0.06883	4.325684	4.11E+00	1.23E+01
3700	488863.09	3851377.25	0.8712	0.55257	0.68662	0.46684	1.612	0.44	0.5575	0.55257	9.08989979	1.020555719	7.148E-05	0.02459	0.755893	0.06186	3.949876	3.76E+00	1.11E+01
3701	489363.09	3851377.25	0.75902	0.51309	0.69185	0.55593	2.227	0.366	0.5174	0.51309	7.91943955	0.947639093	7.203E-05	0.029283	1.044396	0.05146	3.666107	3.49E+00	1.02E+01

3702	489863.09	3851377.25	0.67816	0.4772	0.64092	0.57481	2.441	0.362	0.4814	0.4772	7.07576497	0.881352931	6.672E-05	0.030278	1.144824	0.05094	3.410822	3.24E+00	9.35E+00
3703	490363.09	3851377.25	0.63502	0.4486	0.61258	0.46203	1.509	0.361	0.4524	0.4486	6.62565216	0.828530857	6.377E-05	0.024337	0.707393	0.05075	3.205559	3.05E+00	8.39E+00
3704	490863.09	3851377.25	0.66358	0.42686	0.58617	0.52551	1.741	0.318	0.4305	0.42686	6.92364061	0.788378692	6.102E-05	0.027681	0.816449	0.04475	3.050531	2.90E+00	8.75E+00
3705	491363.09	3851377.25	0.68429	0.40394	0.54823	0.4735	2.167	0.31	0.4075	0.40394	7.13972397	0.746047156	5.707E-05	0.024941	1.015913	0.04363	2.887355	2.75E+00	9.11E+00
3706	491863.09	3851377.25	0.63775	0.35897	0.47368	0.49874	1.608	0.288	0.3626	0.35897	6.65413635	0.662990909	4.931E-05	0.026271	0.753811	0.04058	2.569081	2.44E+00	8.27E+00
3707	492363.09	3851377.25	0.66531	0.33289	0.51079	0.40298	1.799	0.275	0.3356	0.33289	6.94169103	0.614823087	5.318E-05	0.021227	0.843764	0.03866	2.377776	2.26E+00	8.57E+00
3708	492863.09	3851377.25	0.67288	0.31363	0.40278	0.35824	1.863	0.278	0.3162	0.31363	7.02067466	0.579251299	4.193E-05	0.01887	0.873667	0.03904	2.240533	2.13E+00	8.64E+00
3709	493363.09	3851377.25	0.52418	0.27682	0.30999	0.35335	1.157	0.252	0.2796	0.27682	5.46917317	0.511265965	3.227E-05	0.018612	0.542413	0.03541	1.981209	1.88E+00	6.68E+00
3710	493863.09	3851377.25	0.55963	0.28081	0.39083	0.35057	1.255	0.26	0.2831	0.28081	5.8390503	0.518635198	4.069E-05	0.018466	0.588545	0.03652	2.005511	1.91E+00	7.10E+00
3711	494363.09	3851377.25	0.67359	0.30078	0.46348	0.34845	1.563	0.288	0.3034	0.30078	7.02808264	0.555518304	4.825E-05	0.018354	0.733108	0.04047	2.149557	2.05E+00	8.48E+00
3712	494863.09	3851377.25	0.67367	0.29765	0.4325	0.42517	1.236	0.292	0.3002	0.29765	7.02891734	0.549737426	4.503E-05	0.022395	0.579706	0.04102	2.127238	2.02E+00	8.33E+00
3713	495363.09	3851377.25	0.70184	0.35396	0.42358	0.50237	1.416	0.333	0.3569	0.35396	7.32283662	0.653737811	4.41E-05	0.026462	0.663933	0.04687	2.528836	2.41E+00	8.84E+00
3714	495863.09	3851377.25	0.69844	0.35443	0.39538	0.5241	1.487	0.34	0.3574	0.35443	7.28736181	0.654605866	4.116E-05	0.027606	0.697381	0.04784	2.532379	2.41E+00	8.84E+00
3715	496363.09	3851377.25	0.697	0.35251	0.41235	0.63021	1.454	0.333	0.3555	0.35251	7.27233718	0.651059769	4.293E-05	0.033196	0.681959	0.04681	2.518917	2.40E+00	8.81E+00
3716	496863.09	3851377.25	0.71765	0.34559	0.43218	0.55196	1.328	0.336	0.3486	0.34559	7.48779451	0.638279043	4.499E-05	0.029074	0.622711	0.0472	2.469815	2.35E+00	8.94E+00
3717	497363.09	3851377.25	0.66267	0.33306	0.45717	0.60106	1.336	0.322	0.3356	0.33306	6.91414588	0.615137064	4.759E-05	0.03166	0.62627	0.04535	2.377564	2.26E+00	8.35E+00
3718	497863.09	3851377.25	0.57859	0.31742	0.45368	0.51634	1.207	0.301	0.3201	0.31742	6.03687456	0.586251147	4.723E-05	0.027198	0.565887	0.04239	2.268095	2.16E+00	7.37E+00
3719	498363.09	3851377.25	0.51538	0.27049	0.39245	0.40302	1.578	0.298	0.2727	0.27049	5.37735601	0.499574925	4.086E-05	0.021229	0.739879	0.04186	1.931824	1.84E+00	6.77E+00
3720	471363.09	3851877.25	1.50083	0.52032	0.78915	1.10819	1.711	0.855	0.5649	0.52032	15.6593139	0.960992366	8.216E-05	0.058373	0.802536	0.12028	4.002379	3.54E+00	1.81E+01
3721	471863.09	3851877.25	1.35604	0.53566	0.70492	1.12623	1.768	0.84	0.5728	0.53566	14.1486085	0.989324206	7.339E-05	0.059323	0.829138	0.11819	4.058282	3.64E+00	1.66E+01
3722	472363.09	3851877.25	1.24598	0.588	0.69996	1.27693	1.829	0.939	0.6631	0.588	13.0002678	1.085992295	7.287E-05	0.067261	0.857775	0.13203	4.698444	4.00E+00	1.58E+01
3723	472863.09	3851877.25	1.21633	0.60213	0.6608	1.31856	1.836	0.966	0.7188	0.60213	12.6909066	1.112089355	6.879E-05	0.069454	0.860772	0.13593	5.092745	4.09E+00	1.59E+01
3724	473363.09	3851877.25	1.14829	0.55866	0.55673	1.20429	1.665	0.891	0.6703	0.55866	11.9809929	1.031803496	5.796E-05	0.063435	0.780976	0.12532	4.749176	3.80E+00	1.49E+01
3725	473863.09	3851877.25	1.09601	0.57267	0.5715	1.0849	1.548	0.834	0.6577	0.57267	11.4355155	1.057678925	5.95E-05	0.057146	0.726018	0.11726	4.659971	3.89E+00	1.42E+01
3726	474363.09	3851877.25	1.10002	0.65254	0.66413	0.9952	1.413	0.794	0.6837	0.65254	11.4773549	1.205192878	6.914E-05	0.052421	0.662409	0.11171	4.843978	4.44E+00	1.39E+01
3727	474863.09	3851877.25	1.15261	0.75565	0.73878	0.8929	1.775	0.844	0.7883	0.75565	12.0260668	1.395629384	7.691E-05	0.047033	0.832125	0.11877	5.585602	5.14E+00	1.49E+01
3728	475363.09	3851877.25	1.25739	0.85084	0.99736	0.79397	1.955	0.843	0.8644	0.85084	13.1193171	1.571438239	0.0001038	0.041822	0.916714	0.11853	6.124444	5.79E+00	1.61E+01
3729	475863.09	3851877.25	1.43792	1.05644	1.33831	0.81016	1.736	0.833	0.9579	1.05644	15.0029255	1.951166157	0.0001393	0.042674	0.814109	0.11723	6.786996	7.18E+00	1.75E+01
3730	476363.09	3851877.25	1.64818	1.07334	1.40856	0.92088	1.464	0.869	0.9534	1.07334	17.1967298	1.982379201	0.0001466	0.048507	0.68646	0.12228	6.75497	7.30E+00	1.95E+01
3731	476863.09	3851877.25	1.79231	1.15548	1.57101	1.02526	1.309	1.086	1.0754	1.15548	18.700549	2.134085676	0.0001636	0.054005	0.613689	0.15274	7.619243	7.86E+00	2.14E+01
3732	477363.09	3851877.25	1.83821	1.30977	1.97362	1.02855	1.645	1.231	1.1931	1.30977	19.179459	2.419047838	0.0002055	0.054178	0.771513	0.17321	8.453261	8.91E+00	2.21E+01
3733	477863.09	3851877.25	1.8945	1.62777	2.51394	1.18038	2.149	1.195	1.2879	1.62777	19.7667759	3.006370202	0.0002617	0.062175	1.007764	0.16813	9.125307	1.11E+01	2.21E+01
3734	478363.09	3851877.25	1.96479	1.75817	2.46785	1.4454	2.426	1.257	1.5596	1.75817	20.5001655	3.247209309	0.0002569	0.076135	1.137809	0.17677	11.05012	1.20E+01	2.42E+01
3735	478863.09	3851877.25	2.06153	1.60286	1.68486	1.6677	2.708	1.353	1.749	1.60286	21.5095284	2.960363283	0.0001754	0.087845	1.269828	0.19031	12.3923	1.09E+01	2.75E+01
3736	479363.09	3851877.25	2.01585	1.68623	2.07245	1.74807	2.633	1.653	1.9563	1.68623	21.0329138	3.114341476	0.0002158	0.092078	1.234636	0.2326	13.86123	1.15E+01	2.81E+01
3737	479863.09	3851877.25	1.99668	2.00541	2.61288	1.69794	2.509	1.398	2.2955	2.00541	20.8328984	3.703843212	0.000272	0.089437	1.176696	0.19667	16.26416	1.36E+01	2.86E+01
3738	480363.09	3851877.25	2.57259	2.41835	1.51076	1.47503	2.213	2.138	2.4808	2.41835	26.8418105	4.466512699	0.0001573	0.077696	1.037638	0.30077	17.57765	1.64E+01	3.39E+01
3739	480863.09	3851877.25	2.95335	3.58621	1.02149	1.87118	2.267	2.504	3.6036	3.58621	30.8145725	6.623463315	0.0001063	0.098563	1.063054	0.35232	25.53309	2.44E+01	4.01E+01
3740	481363.09	3851877.25	3.95026	7.72571	1.93945	2.03602	2.66	2.47	7.8817	7.72571	41.2161014	14.26881214	0.0002019	0.107245	1.247109	0.34751	55.8444	5.25E+01	6.05E+01
3741	481863.09	3851877.25	3.89603	8.00267	1.54713	1.6285	2.532	1.894	8.1443	8.00267	40.6502781	14.78033667	0.0001611	0.08578	1.187078	0.26637	57.70523	5.44E+01	6.03E+01
3742	482363.09	3851877.25	3.24203	4.0415	1.89078	2.21606	1.598	1.752	3.8961	4.0415	33.826593	7.464350104	0.0001968	0.116729	0.749206	0.24651	27.60513	2.75E+01	4.25E+01
3743	482863.09	3851877.25	2.94723	2.2016	0.80837	1.65061	3.886	1.144	2.2777	2.2016	30.7507178	4.06619156	8.416E-05	0.086944	1.822347	0.16087	16.13854	1.50E+01	3.81E+01
3744	483363.09	3851877.25	2.95184	1.95282	0.99498	1.25525	4.812	1.041	2.0186	1.95282	30.7988175	3.606713391	0.0001036	0.066119	2.256594	0.14648	14.30279	1.33E+01	3.79E+01
3745	483863.09	3851877.25	2.56594	1.58594	0.83647	1.07444	1.2	0.942	1.5973	1.58594	26.7724259	2.929113301	8.708E-05	0.056595	0.562501	0.13255	11.31759	1.08E+01	3.10E+01
3746	484363.09	3851877.25	2.21194	1.74059	1.09894	1.03891	2.834	1.015	1.7509	1.74059	23.0788716	3.214740356	0.0001144	0.054724	1.329062	0.14275	12.40576	1.18E+01	2.84E+01
3747	484863.09	3851877.25	2.04022	1.58998	0.87541	0.74946	4.838	0.855	1.5985	1.58998	21.2871847	2.93657488	9.114E-05	0.039477	2.268509	0.12025	11.32609	1.08E+01	2.72E+01
3748	485363.09	3851877.25	1.97174	1.50876	1.00816	0.85219	2.908	0.834	1.5178	1.50876	20.5726802	2.786567577	0.000105	0.044888	1.363579	0.11731	10.75416	1.03E+01	2.54E+01
3749	485863.09	3851877.25	1.89263	1.32762	1.01861	0.93792	3.783	0.732	1.3366	1.32762	19.7472647	2.452015461	0.000106	0.049404	1.774029	0.10301	9.469939	9.03E+00	2.46E+01
3750	486363.09	3851877.25	1.68576	1.11468	0.8693	0.7483	4.624	0.531	1.1218	1.11468	17.5888309	2.058731108	9.05E-05	0.039416	2.168062	0.07471	7.948358	7.58E+00	2.23E+01
3751	486863.09	3851877.25	1.50477	1.02338	0.71987	0.70304	3.116	0.5	1.0295	1.02338	15.700423	1.890106794	7.494E-05	0.037032	1.461166	0.07035	7.294166	6.96E+00	1.95E+01
3752	487363.09	3851877.25	1.25893	0.95865	0.80304	0.60145	1.952	0.496	0.9648	0.95865	13.1353851	1.770555296	8.36E-05	0.031681	0.915354	0.06978	6.836098	6.52E+00	1.62E+01
3753	487863.09	3851877.25	0.94264	0.82603	0.80337	0.44368	2.972	0.502	0.8317	0.82603	9.83528826	1.525616013	8.364E-05	0.02337	1.393745	0.07068	5.893036	5.62E+00	1.31E+01
3754	488363.09	3851877.25	0.91099	0.78045	0.75558	0.39675	2.942	0.491	0.7865	0.78045	9.50505947	1.441433141	7.866E-05	0.020898	1.379588	0.06904	5.572849	5.31E+00	1.27E+01
3755	488863.09	3851877.25	0.81915	0.68754	0.79058	0.45898	1.759	0.415	0.6931	0.68754	8.5468221	1.269835277	8.23E-05	0.024176	0.824918	0.05838	4.911005	4.68E+00	1.10E+01
3756	489363.09	3851877.25	0.68551	0.59729	0.8357	0.57502	2.411	0.356	0.602	0.59729	7.15245317	1.103150235	8.7E-05	0.030289	1.130438	0.05006	4.265175	4.06E+00	9.67E+00
3757	489863.09	3851877.25	0.66835	0.53248	0.64104	0.58517	1.948	0.338	0.5365	0.53248	6.97340969	0.983450982	6.674E-05	0.030823	0.913441	0.04749	3.801509	3.62E+00	9.13E+00
3758	490363.09	3851877.25	0.69627	0.49262	0.53644	0.48233	1.698	0.325	0.4969	0.49262	7.26472053	0.909832525	5.585E-05	0.025406	0.796455	0.04573	3.520574	3.35E+00	9.21E+00

3759	490863.09	3851877.25	0.71386	0.46427	0.61873	0.52509	2.195	0.324	0.468	0.46427	7.44825053	0.857472182	6.441E-05	0.027659	1.029343	0.04557	3.316232	3.16E+00	9.57E+00
3760	491363.09	3851877.25	0.71797	0.44242	0.70265	0.48943	2.471	0.32	0.446	0.44242	7.49113332	0.817116856	7.315E-05	0.02578	1.158624	0.04502	3.159858	3.01E+00	9.69E+00
3761	491863.09	3851877.25	0.72033	0.42215	0.50877	0.52739	2.75	0.309	0.4255	0.42215	7.51575702	0.779679673	5.297E-05	0.02778	1.289556	0.04351	3.014963	2.87E+00	9.80E+00
3762	492363.09	3851877.25	0.70922	0.4015	0.4861	0.4126	2.436	0.283	0.405	0.4015	7.39983784	0.741540657	5.061E-05	0.021733	1.142212	0.03983	2.8695	2.73E+00	9.48E+00
3763	492863.09	3851877.25	0.66731	0.31915	0.41741	0.36601	1.802	0.266	0.3215	0.31915	6.96255857	0.589446328	4.345E-05	0.019279	0.844763	0.0374	2.277873	2.17E+00	8.56E+00
3764	493363.09	3851877.25	0.6863	0.35411	0.51578	0.46313	2.059	0.301	0.3576	0.35411	7.16069585	0.65401485	5.37E-05	0.024395	0.965505	0.04239	2.533654	2.41E+00	8.97E+00
3765	493863.09	3851877.25	0.81072	0.39286	0.59216	0.4818	1.608	0.397	0.3961	0.39286	8.45886542	0.72558322	6.165E-05	0.025378	0.753956	0.05582	2.806299	2.67E+00	1.02E+01
3766	494363.09	3851877.25	0.72841	0.37296	0.47552	0.43834	1.366	0.345	0.3761	0.37296	7.60006187	0.688829399	4.95E-05	0.023089	0.640769	0.04848	2.665017	2.54E+00	9.13E+00
3767	494863.09	3851877.25	0.75629	0.37849	0.51057	0.62564	1.566	0.373	0.3816	0.37849	7.89095536	0.699042898	5.315E-05	0.032955	0.734299	0.05246	2.704057	2.57E+00	9.54E+00
3768	495363.09	3851877.25	0.77606	0.38353	0.54703	0.61062	1.691	0.381	0.3867	0.38353	8.09723098	0.708351403	5.695E-05	0.032164	0.792895	0.05363	2.73998	2.61E+00	9.82E+00
3769	495863.09	3851877.25	0.80562	0.38267	0.55177	0.70551	1.647	0.37	0.3859	0.38267	8.4056532	0.706763047	5.744E-05	0.037162	0.772235	0.05208	2.73417	2.60E+00	1.01E+01
3770	496363.09	3851877.25	0.80897	0.37104	0.50731	0.6083	1.679	0.355	0.3742	0.37104	8.44060632	0.685283301	5.281E-05	0.032042	0.787372	0.04991	2.651342	2.52E+00	1.01E+01
3771	496863.09	3851877.25	0.81157	0.35799	0.51706	0.68037	1.468	0.336	0.3612	0.35799	8.46773412	0.661180921	5.383E-05	0.035838	0.688167	0.04724	2.558878	2.43E+00	1.00E+01
3772	497363.09	3851877.25	0.81152	0.34075	0.54337	0.59713	1.794	0.325	0.3439	0.34075	8.46721244	0.629339923	5.657E-05	0.031453	0.841119	0.04571	2.436514	2.32E+00	1.01E+01
3773	497863.09	3851877.25	0.62623	0.29794	0.39651	0.41733	2.385	0.311	0.3008	0.29794	6.53393933	0.550273035	4.128E-05	0.021982	1.118147	0.04373	2.131347	2.03E+00	8.37E+00
3774	498363.09	3851877.25	0.55325	0.26663	0.35685	0.40189	2.579	0.305	0.2693	0.26663	5.77248285	0.492445792	3.715E-05	0.021169	1.209277	0.04292	1.908088	1.81E+00	7.63E+00
3775	471363.09	3852377.25	1.91496	0.48211	0.86515	0.93585	2.219	0.811	0.4675	0.48211	19.9802508	0.890421336	9.007E-05	0.049295	1.040311	0.11413	3.312264	3.28E+00	2.21E+01
3776	471863.09	3852377.25	1.85682	0.53601	0.86702	1.00605	2.219	0.825	0.5385	0.53601	19.3736315	0.98997063	9.026E-05	0.052993	1.040668	0.11599	3.815254	3.64E+00	2.17E+01
3777	472363.09	3852377.25	1.76944	0.53498	0.89412	1.05983	2	0.852	0.5553	0.53498	18.4619287	0.988068296	9.308E-05	0.055826	0.937674	0.11987	3.934643	3.64E+00	2.09E+01
3778	472863.09	3852377.25	1.66544	0.56551	0.90214	1.18264	1.923	0.938	0.5698	0.56551	17.3768167	1.044454937	9.392E-05	0.062294	0.901572	0.13199	4.037239	3.85E+00	1.97E+01
3779	473363.09	3852377.25	1.54248	0.58575	1.00636	1.2771	2.023	0.986	0.6276	0.58575	16.0938804	1.081836713	0.0001048	0.06727	0.948736	0.1387	4.446914	3.98E+00	1.88E+01
3780	473863.09	3852377.25	1.44389	0.59138	0.90976	1.33893	2	1.01	0.6891	0.59138	15.0652151	1.092234904	9.471E-05	0.070527	0.937609	0.14208	4.88238	4.02E+00	1.82E+01
3781	474363.09	3852377.25	1.41548	0.59481	0.78012	1.39279	1.933	1.024	0.7433	0.59481	14.7687917	1.098569859	8.122E-05	0.073364	0.906632	0.14406	5.26669	4.04E+00	1.82E+01
3782	474863.09	3852377.25	1.43493	0.67107	0.74562	1.45556	2.028	1.078	0.8623	0.67107	14.9717285	1.239416411	7.762E-05	0.07667	0.951029	0.1517	6.109494	4.56E+00	1.89E+01
3783	475363.09	3852377.25	1.39515	0.67249	0.75253	1.42607	1.822	1.073	0.8846	0.67249	14.5566732	1.242039045	7.834E-05	0.075117	0.854526	0.15093	6.267498	4.57E+00	1.86E+01
3784	475863.09	3852377.25	1.36653	0.71082	0.79571	1.32753	1.774	1.087	0.892	0.71082	14.2580587	1.312831706	8.284E-05	0.069926	0.831713	0.15292	6.319929	4.83E+00	1.81E+01
3785	476363.09	3852377.25	1.47711	0.70536	0.92899	1.12493	2.179	1.033	0.8069	0.70536	15.4118249	1.302747492	9.671E-05	0.059255	1.02155	0.14525	5.717107	4.80E+00	1.89E+01
3786	476863.09	3852377.25	1.70555	0.87402	1.23603	1.00522	2.066	0.962	0.8725	0.87402	17.7953152	1.614249976	0.0001287	0.052949	0.968942	0.13526	6.182261	5.94E+00	2.08E+01
3787	477363.09	3852377.25	1.91609	1.01199	1.35871	1.04738	1.705	0.873	0.9915	1.01199	19.992041	1.869070311	0.0001415	0.05517	0.799329	0.12283	7.025064	6.88E+00	2.30E+01
3788	477863.09	3852377.25	2.02133	1.10994	1.14678	1.02023	1.303	0.817	1.0869	1.10994	21.0900908	2.049976681	0.0001194	0.05374	0.611185	0.11494	7.700937	7.55E+00	2.41E+01
3789	478363.09	3852377.25	2.00094	0.8919	1.19824	0.95578	1.644	0.727	0.8413	0.8919	20.8773463	1.647273007	0.0001247	0.050345	0.770711	0.10223	5.961127	6.06E+00	2.33E+01
3790	478863.09	3852377.25	2.18313	1.35296	1.80844	1.2952	2.525	1.025	1.1883	1.35296	22.7782747	2.498816558	0.0001883	0.068223	1.183876	0.1442	8.419393	9.20E+00	2.59E+01
3791	479363.09	3852377.25	2.27661	1.41123	1.69925	1.70243	2.694	1.323	1.4443	1.41123	23.7536235	2.606436916	0.0001769	0.089674	1.263057	0.18612	10.23332	9.60E+00	2.85E+01
3792	479863.09	3852377.25	2.32451	1.34915	1.93105	1.98801	3.231	1.67	1.75	1.34915	24.253401	2.491779771	0.000201	0.104717	1.515265	0.23489	12.39917	9.17E+00	3.18E+01
3793	480363.09	3852377.25	2.27743	1.96882	3.15415	2.12226	3.003	1.696	2.1801	1.96882	23.7621791	3.636264202	0.0003284	0.111788	1.408061	0.23862	15.44708	1.34E+01	3.12E+01
3794	480863.09	3852377.25	2.80923	2.20439	1.7537	1.95895	2.647	2.489	2.4695	2.20439	29.3108576	4.071344483	0.0001826	0.103186	1.241135	0.35012	17.49702	1.50E+01	3.76E+01
3795	481363.09	3852377.25	3.4239	3.27956	1.17442	2.09977	2.546	2.669	3.3528	3.27956	35.7241826	6.057103558	0.0001223	0.110603	1.193957	0.37547	23.75551	2.23E+01	4.49E+01
3796	481863.09	3852377.25	4.44966	8.46716	2.36519	2.69922	2.865	2.777	8.5952	8.46716	46.4267258	15.63821518	0.0002462	0.142179	1.343402	0.39062	60.90009	5.76E+01	6.73E+01
3797	482363.09	3852377.25	3.94259	7.48025	3.23744	2.23488	2.919	2.165	7.2358	7.48025	41.1360744	13.81546576	0.000337	0.11772	1.368855	0.3045	51.26825	5.09E+01	5.71E+01
3798	482863.09	3852377.25	3.14029	3.27729	2.49938	2.33699	2.251	2.052	3.32	3.27729	32.7650613	6.052911036	0.0002602	0.123099	1.055748	0.28863	23.52311	2.23E+01	4.15E+01
3799	483363.09	3852377.25	3.28085	3.34693	1.33005	2.09689	5.521	1.508	3.4619	3.34693	34.2316319	6.18153094	0.0001385	0.110452	2.588786	0.21212	24.52874	2.28E+01	4.51E+01
3800	483863.09	3852377.25	2.94856	2.30517	1.19417	1.20734	4.473	1.055	2.3929	2.30517	30.7645947	4.257477652	0.0001243	0.063596	2.097415	0.14848	16.95442	1.57E+01	3.86E+01
3801	484363.09	3852377.25	2.65544	1.87524	0.99528	1.30565	1.466	1.193	1.9419	1.87524	27.7062483	3.463428898	0.0001036	0.068774	0.687262	0.16777	13.75935	1.28E+01	3.31E+01
3802	484863.09	3852377.25	2.43884	1.7355	1.28841	1.1333	5.74	1.107	1.749	1.7355	25.4462938	3.205339504	0.0001341	0.059696	2.691573	0.15569	12.39251	1.18E+01	3.22E+01
3803	485363.09	3852377.25	2.34767	1.66761	1.11254	1.05315	6.129	1.083	1.6886	1.66761	24.4950471	3.07995172	0.0001158	0.055474	2.873832	0.1524	11.96455	1.13E+01	3.13E+01
3804	485863.09	3852377.25	2.25786	1.51219	1.26055	1.0457	3.316	0.85	1.5261	1.51219	23.5579903	2.792902532	0.0001312	0.055081	1.554838	0.11951	10.81261	1.03E+01	2.86E+01
3805	486363.09	3852377.25	1.90869	1.27485	0.73629	0.76282	5.358	0.621	1.2836	1.27485	19.9148311	2.354553193	7.665E-05	0.040181	2.51261	0.08733	9.094415	8.67E+00	2.53E+01
3806	486863.09	3852377.25	1.59216	1.16476	0.90532	0.74407	3.855	0.516	1.1721	1.16476	16.6122301	2.151225146	9.425E-05	0.039193	1.807796	0.07253	8.30461	7.92E+00	2.11E+01
3807	487363.09	3852377.25	1.22553	0.96332	1.08199	0.62184	2.014	0.486	0.9704	0.96332	12.7868973	1.779180439	0.0001126	0.032755	0.944356	0.06841	6.875705	6.55E+00	1.59E+01
3808	487863.09	3852377.25	0.94159	0.80615	0.91722	0.46421	3.14	0.519	0.8122	0.80615	9.8243328	1.488899131	9.549E-05	0.024452	1.472477	0.07306	5.754588	5.48E+00	1.32E+01
3809	488363.09	3852377.25	0.85104	0.66503	0.95351	0.40599	2.989	0.46	0.6702	0.66503	8.879555	1.22826098	9.927E-05	0.021385	1.401496	0.06478	4.748325	4.52E+00	1.18E+01
3810	488863.09	3852377.25	0.78251	0.57088	0.70418	0.47073	2.085	0.411	0.5749	0.57088	8.16452879	1.054372928	7.331E-05	0.024795	0.977814	0.05785	4.073657	3.88E+00	1.05E+01
3811	489363.09	3852377.25	0.70152	0.51147	0.61914	0.60458	2.49	0.332	0.515	0.51147	7.31949782	0.944647074	6.446E-05	0.031846	1.167703	0.04668	3.649173	3.48E+00	9.68E+00
3812	489863.09	3852377.25	0.60686	0.44302	0.60348	0.59563	1.65	0.328	0.4463	0.44302	6.33183722	0.818225011	6.283E-05	0.031374	0.773768	0.04611	3.162055	3.01E+00	8.15E+00
3813	490363.09	3852377.25	0.65318	0.48252	0.59471	0.50803	2.057	0.331	0.4859	0.48252	6.81512941	0.891178575	6.191E-05	0.02676	0.964689	0.04659	3.442564	3.28E+00	8.91E+00
3814	490863.09	3852377.25	0.72775	0.49757	0.52972	0.51812	2.537	0.325	0.5012	0.49757	7.59317558	0.918974807	5.515E-05	0.027291	1.189507	0.04566	3.550829	3.38E+00	9.94E+00
3815	491363.09	3852377.25	0.78291	0.58371	0.61167	0.55298	2.807	0.383	0.5879	0.58371	8.1687023	1.078068984	6.368E-05	0.029128	1.316125	0.05381	4.1652	3.97E+00	1.08E+01

3816	491863.09	3852377.25	0.80645	0.55844	0.66588	0.56392	2.707	0.382	0.5621	0.55844	8.41431323	1.031397172	6.932E-05	0.029704	1.269533	0.05375	3.982894	3.80E+00	1.10E+01
3817	492363.09	3852377.25	0.82242	0.52921	0.63038	0.48639	2.392	0.393	0.5329	0.52921	8.58094052	0.977411535	6.563E-05	0.02562	1.121552	0.05528	3.776001	3.60E+00	1.09E+01
3818	492863.09	3852377.25	0.83774	0.51558	0.65942	0.56511	2.302	0.426	0.5192	0.51558	8.74078587	0.952237938	6.865E-05	0.029767	1.079541	0.05987	3.678578	3.51E+00	1.10E+01
3819	493363.09	3852377.25	0.93719	0.51477	0.67003	0.64625	1.696	0.444	0.5188	0.51477	9.77842422	0.950741928	6.975E-05	0.034041	0.795057	0.06252	3.675602	3.50E+00	1.18E+01
3820	493863.09	3852377.25	0.88305	0.47837	0.67047	0.64213	1.663	0.427	0.4821	0.47837	9.21353995	0.883513834	6.98E-05	0.033824	0.779677	0.06006	3.415923	3.25E+00	1.11E+01
3821	494363.09	3852377.25	0.84754	0.44795	0.6178	0.75907	1.817	0.401	0.4512	0.44795	8.8430368	0.827330355	6.432E-05	0.039983	0.852176	0.0564	3.196844	3.05E+00	1.08E+01
3822	494863.09	3852377.25	0.89228	0.44348	0.65124	0.75795	1.923	0.402	0.4469	0.44348	9.30984364	0.819074597	6.78E-05	0.039924	0.901947	0.0565	3.166519	3.02E+00	1.13E+01
3823	495363.09	3852377.25	0.9518	0.44523	0.67	0.81578	2.242	0.407	0.4489	0.44523	9.93086159	0.822306717	6.975E-05	0.04297	1.051214	0.05732	3.180618	3.03E+00	1.21E+01
3824	495863.09	3852377.25	0.92771	0.41632	0.55241	0.71789	1.952	0.377	0.4197	0.41632	9.67951209	0.768912096	5.751E-05	0.037814	0.915222	0.05298	2.973513	2.83E+00	1.16E+01
3825	496363.09	3852377.25	0.91876	0.38701	0.55726	0.74966	2.009	0.356	0.3915	0.38701	9.58612985	0.714778704	5.801E-05	0.039488	0.941843	0.05011	2.773706	2.63E+00	1.15E+01
3826	496863.09	3852377.25	0.91605	0.36893	0.5406	0.65658	2.739	0.359	0.3735	0.36893	9.55785434	0.681386288	5.628E-05	0.034585	1.284365	0.05044	2.646453	2.51E+00	1.17E+01
3827	497363.09	3852377.25	0.90048	0.34566	0.47143	0.46833	3.015	0.344	0.3506	0.34566	9.39540055	0.638408328	4.908E-05	0.024669	1.413576	0.04833	2.483915	2.35E+00	1.17E+01
3828	497863.09	3852377.25	0.59227	0.30004	0.40983	0.43914	2.776	0.342	0.3048	0.30004	6.17960852	0.554151579	4.267E-05	0.023131	1.30157	0.04816	2.159901	2.04E+00	8.23E+00
3829	498363.09	3852377.25	0.54912	0.26729	0.42199	0.47163	2.393	0.372	0.2721	0.26729	5.72939138	0.493664763	4.393E-05	0.024843	1.121894	0.05234	1.927998	1.82E+00	7.53E+00
3830	471363.09	3852877.25	2.2301	0.4821	0.84002	0.90509	4.176	0.845	0.4633	0.4821	23.2683488	0.890402867	8.745E-05	0.047675	1.95831	0.11889	3.282719	3.28E+00	2.63E+01
3831	471863.09	3852877.25	2.21393	0.53917	0.8822	0.97738	3.958	0.864	0.5171	0.53917	23.0996348	0.995806915	9.184E-05	0.051483	1.855813	0.12147	3.663982	3.67E+00	2.61E+01
3832	472363.09	3852877.25	2.17733	0.54791	0.91762	1.01461	3.568	0.876	0.5249	0.54791	22.7177588	1.011949045	9.553E-05	0.053444	1.673015	0.12326	3.719318	3.73E+00	2.56E+01
3833	472863.09	3852877.25	2.1171	0.54367	0.9423	1.07316	3.061	0.904	0.5297	0.54367	22.0893329	1.00411808	9.81E-05	0.056528	1.435404	0.12712	3.752761	3.70E+00	2.48E+01
3834	473363.09	3852877.25	2.04323	0.54542	1.06125	1.1628	2.615	0.938	0.5482	0.54542	21.3185904	1.0073502	0.0001105	0.061249	1.226214	0.13193	3.884407	3.71E+00	2.39E+01
3835	473863.09	3852877.25	1.961	0.5907	1.21138	1.30062	2.342	1.009	0.6081	0.5907	20.4606215	1.090978995	0.0001261	0.068509	1.098274	0.142	4.308254	4.02E+00	2.32E+01
3836	474363.09	3852877.25	1.86871	0.65965	1.26812	1.33845	2.23	1.05	0.6958	0.65965	19.497689	1.21832452	0.000132	0.070502	1.045488	0.14772	4.929781	4.49E+00	2.24E+01
3837	474863.09	3852877.25	1.7495	0.59966	1.20672	1.34513	2.283	1.035	0.6628	0.59966	18.2538793	1.107527449	0.0001256	0.070853	1.07058	0.14565	4.696035	4.08E+00	2.13E+01
3838	475363.09	3852877.25	1.72405	0.61016	1.20077	1.41465	2.258	1.109	0.7427	0.61016	17.9883399	1.126920168	0.000125	0.074515	1.058637	0.15595	5.262439	4.15E+00	2.15E+01
3839	475863.09	3852877.25	1.70805	0.65168	1.0568	1.47821	2.242	1.129	0.8339	0.65168	17.8213996	1.203604522	0.00011	0.077863	1.051228	0.15885	5.908553	4.43E+00	2.18E+01
3840	476363.09	3852877.25	1.65305	0.70163	0.82898	1.53732	2.07	1.112	0.9595	0.70163	17.2475423	1.295858459	8.63E-05	0.080977	0.970541	0.15641	6.798262	4.77E+00	2.18E+01
3841	476863.09	3852877.25	1.5478	0.76689	0.68612	1.45974	1.62	1.026	0.9846	0.76689	16.1493881	1.416388829	7.143E-05	0.07689	0.759691	0.14439	6.976317	5.21E+00	2.03E+01
3842	477363.09	3852877.25	1.5288	0.81768	0.69183	1.26738	2.008	0.919	1.0207	0.81768	15.9511465	1.510194184	7.202E-05	0.066758	0.941472	0.12933	7.231886	5.56E+00	2.03E+01
3843	477863.09	3852877.25	1.46842	0.65735	0.67982	0.95743	1.955	0.785	0.7863	0.65735	15.3211555	1.214076591	7.077E-05	0.050432	0.916634	0.11048	5.57129	4.47E+00	1.87E+01
3844	478363.09	3852877.25	1.03044	0.52608	0.69066	0.76077	1.476	0.672	0.5202	0.52608	10.7513732	0.971630658	7.19E-05	0.040073	0.69205	0.09455	3.685592	3.58E+00	1.27E+01
3845	478863.09	3852877.25	1.36861	0.6586	0.836	0.84625	1.134	0.65	0.5874	0.6586	14.279761	1.216385248	8.703E-05	0.044575	0.531768	0.09147	4.161728	4.48E+00	1.58E+01
3846	479363.09	3852877.25	2.07374	0.87877	1.18954	0.99794	1.723	0.776	0.8377	0.87877	21.6369247	1.623022873	0.0001238	0.052566	0.808065	0.10913	5.935052	5.98E+00	2.42E+01
3847	479863.09	3852877.25	2.57056	1.45301	2.40797	1.73771	2.954	1.354	1.4947	1.45301	26.8206299	2.683601471	0.0002507	0.091532	1.385248	0.19047	10.59035	9.88E+00	3.19E+01
3848	480363.09	3852877.25	2.48696	1.54205	2.76199	2.25468	3.449	2.141	1.7327	1.54205	25.9483668	2.848051733	0.0002875	0.118763	1.617284	0.30123	12.2768	1.05E+01	3.26E+01
3849	480863.09	3852877.25	2.70285	2.08453	3.92716	2.46707	3.546	2.071	2.1895	2.08453	28.2009133	3.849971972	0.0004088	0.129951	1.662909	0.29136	15.5134	1.42E+01	3.55E+01
3850	481363.09	3852877.25	3.11607	2.23248	2.09336	2.80682	3.268	2.977	2.7387	2.23248	32.5123554	4.123224625	0.0002179	0.147847	1.532376	0.41875	19.40496	1.52E+01	4.30E+01
3851	481863.09	3852877.25	4.06328	3.49492	2.0712	2.57349	2.975	3.059	3.5179	3.49492	42.395326	6.45485747	0.0002156	0.135556	1.39487	0.43028	24.92545	2.38E+01	5.20E+01
3852	482363.09	3852877.25	5.57435	9.68918	2.28176	3.62015	3.116	2.97	9.9124	9.68918	58.1614817	17.89519529	0.0002375	0.190688	1.46133	0.41782	70.23272	6.59E+01	8.25E+01
3853	482863.09	3852877.25	3.73416	6.10214	3.59704	2.71385	3.38	2.456	6.17	6.10214	38.9613638	11.27019902	0.0003745	0.14295	1.58497	0.34553	43.71689	4.15E+01	5.45E+01
3854	483363.09	3852877.25	3.38916	4.21563	1.34659	2.57174	2.866	2.252	4.4075	4.21563	35.3617135	7.785955272	0.0001402	0.135464	1.343904	0.31686	31.22901	2.87E+01	4.75E+01
3855	483863.09	3852877.25	3.52696	1.58006	1.56897	2.03999	6.659	1.482	1.648	1.58006	36.7994869	2.918253378	0.0001633	0.107455	3.122702	0.20844	11.67667	1.07E+01	4.41E+01
3856	484363.09	3852877.25	3.12673	2.66365	1.51897	1.72638	4.914	1.5	2.753	2.66365	32.6235794	4.919563567	0.0001581	0.090935	2.30417	0.21107	19.50564	1.81E+01	4.15E+01
3857	484863.09	3852877.25	2.77155	2.34628	1.15839	1.65318	3.467	1.484	2.414	2.34628	28.9177132	4.333404766	0.0001206	0.08708	1.625724	0.20881	17.10434	1.60E+01	3.63E+01
3858	485363.09	3852877.25	2.51955	1.64933	1.54888	1.00311	6.155	0.991	1.7067	1.64933	26.2884034	3.046189919	0.0001612	0.052838	2.886141	0.13947	12.09266	1.12E+01	3.33E+01
3859	485863.09	3852877.25	2.26774	1.37853	1.06673	0.81589	3.343	0.774	1.3857	1.37853	23.6610759	2.546042447	0.0001111	0.042976	1.567376	0.10889	9.818468	9.37E+00	2.84E+01
3860	486363.09	3852877.25	1.64558	1.14054	1.18179	0.65541	4.458	0.573	1.1449	1.14054	17.169602	2.106492606	0.000123	0.034523	2.090625	0.08067	8.112171	7.76E+00	2.18E+01
3861	486863.09	3852877.25	1.36934	0.91568	1.23793	0.72369	3.731	0.527	0.9219	0.91568	14.2873776	1.6911929	0.0001289	0.03812	1.749322	0.07409	6.531782	6.23E+00	1.81E+01
3862	487363.09	3852877.25	1.02063	0.69294	1.24433	0.63265	1.851	0.493	0.6994	0.69294	10.6490179	1.279808675	0.0001295	0.033324	0.867904	0.0693	4.955572	4.71E+00	1.31E+01
3863	487863.09	3852877.25	0.94886	0.59852	1.06807	0.48552	3.199	0.522	0.6039	0.59852	9.90018631	1.105421953	0.0001112	0.025574	1.500251	0.07345	4.278495	4.07E+00	1.28E+01
3864	488363.09	3852877.25	0.77299	0.41847	0.72196	0.40184	2.391	0.446	0.4235	0.41847	8.06519931	0.772882986	7.516E-05	0.021167	1.12105	0.06277	3.000367	2.85E+00	1.02E+01
3865	488863.09	3852877.25	0.81919	0.44498	0.66551	0.44179	2.328	0.412	0.4494	0.44498	8.54723945	0.821844986	6.928E-05	0.023271	1.091808	0.05792	3.184232	3.03E+00	1.07E+01
3866	489363.09	3852877.25	0.7531	0.44918	0.5827	0.61215	2.272	0.334	0.4535	0.44918	7.85767164	0.829602073	6.066E-05	0.032244	1.065155	0.04702	3.212928	3.05E+00	9.99E+00
3867	489863.09	3852877.25	0.67444	0.44064	0.62631	0.5877	1.956	0.336	0.4442	0.44064	7.03695134	0.813829328	6.52E-05	0.030957	0.917328	0.04731	3.147601	3.00E+00	9.00E+00
3868	490363.09	3852877.25	0.80635	0.57728	0.72593	0.57072	2.629	0.433	0.5816	0.57728	8.41326985	1.066193252	7.557E-05	0.030062	1.232765	0.06085	4.120846	3.93E+00	1.10E+01
3869	490863.09	3852877.25	0.8633	0.61917	0.80697	0.62949	2.986	0.464	0.6226	0.61917	9.00747301	1.143560968	8.401E-05	0.033158	1.400052	0.06528	4.411275	4.21E+00	1.19E+01
3870	491363.09	3852877.25	0.95716	0.67638	0.99298	0.66422	2.976	0.524	0.6809	0.67638	9.98678659	1.249223586	0.0001034	0.034987	1.395602	0.07366	4.82421	4.60E+00	1.30E+01
3871	491863.09	3852877.25	0.99184	0.68142	0.81063	0.66388	2.703	0.517	0.6859	0.68142	10.3486297	1.258532092	8.439E-05	0.034969	1.267465	0.0728	4.859991	4.63E+00	1.32E+01
3872	492363.09	3852877.25	1.19924	0.67971	0.7576	0.57378	2.546	0.483	0.6845	0.67971	12.5125935	1.255373849	7.887E-05	0.030223	1.193643	0.06791	4.849646	4.62E+00	1.53E+01

3873	492863.09	3852877.25	1.28072	0.68142	0.7166	0.69166	2.387	0.504	0.6865	0.68142	13.362737	1.258532092	7.46E-05	0.036433	1.119366	0.07091	4.864313	4.63E+00	1.61E+01
3874	493363.09	3852877.25	1.27388	0.66257	0.72607	0.64315	2.765	0.488	0.6675	0.66257	13.29137	1.223717543	7.559E-05	0.033877	1.296435	0.0686	4.729478	4.51E+00	1.61E+01
3875	493863.09	3852877.25	1.14745	0.62103	0.66991	0.86779	2.952	0.452	0.6258	0.62103	11.9722285	1.14699625	6.974E-05	0.04571	1.38432	0.06359	4.433735	4.22E+00	1.48E+01
3876	494363.09	3852877.25	1.08271	0.58841	0.66992	0.88184	2.871	0.432	0.5929	0.58841	11.2967463	1.086749535	6.974E-05	0.04645	1.346159	0.06074	4.20084	4.00E+00	1.40E+01
3877	494863.09	3852877.25	1.08366	0.56086	0.74556	0.88502	2.672	0.428	0.565	0.56086	11.3066584	1.035866733	7.762E-05	0.046618	1.252872	0.0602	4.002945	3.81E+00	1.39E+01
3878	495363.09	3852877.25	1.02407	0.52066	0.65367	0.80665	2.286	0.393	0.5245	0.52066	10.6849101	0.961620321	6.805E-05	0.04249	1.07178	0.05533	3.716272	3.54E+00	1.30E+01
3879	495863.09	3852877.25	1.00271	0.48084	0.58776	0.82295	3.031	0.373	0.4842	0.48084	10.4620448	0.88807574	6.119E-05	0.043348	1.4215	0.05242	3.430873	3.27E+00	1.30E+01
3880	496363.09	3852877.25	0.99758	0.4555	0.57618	0.71625	3.476	0.384	0.4586	0.4555	10.4085195	0.841274644	5.998E-05	0.037728	1.62978	0.05399	3.249559	3.10E+00	1.31E+01
3881	496863.09	3852877.25	0.98282	0.4234	0.55041	0.50709	3.545	0.393	0.4266	0.4234	10.2545171	0.78198833	5.73E-05	0.02671	1.662253	0.05532	3.022686	2.88E+00	1.29E+01
3882	497363.09	3852877.25	0.73625	0.36866	0.45274	0.49899	2.82	0.415	0.3743	0.36866	7.68186262	0.680887618	4.713E-05	0.026284	1.322446	0.05833	2.651767	2.51E+00	9.91E+00
3883	497863.09	3852877.25	0.54381	0.2677	0.39399	0.47418	1.889	0.415	0.2727	0.2677	5.67398807	0.494422002	4.102E-05	0.024977	0.885999	0.05834	1.932036	1.82E+00	7.25E+00
3884	498363.09	3852877.25	0.53907	0.25967	0.39394	0.41262	1.607	0.433	0.2653	0.25967	5.624532	0.479591189	4.101E-05	0.021734	0.75375	0.06093	1.88003	1.77E+00	7.05E+00
3885	471363.09	3853377.25	2.3115	0.43946	0.75458	0.88661	4.015	0.918	0.455	0.43946	24.1176577	0.811649956	7.856E-05	0.046701	1.882532	0.12919	3.223768	2.99E+00	2.72E+01
3886	471863.09	3853377.25	2.35887	0.47805	0.78043	0.96005	4.622	0.926	0.4933	0.47805	24.6119053	0.882922818	8.125E-05	0.05057	2.167194	0.13029	3.49535	3.25E+00	2.81E+01
3887	472363.09	3853377.25	2.38284	0.50339	0.81134	1.028	4.965	0.935	0.5115	0.50339	24.8620028	0.929723914	8.447E-05	0.054149	2.328067	0.13154	3.624162	3.42E+00	2.85E+01
3888	472863.09	3853377.25	2.38756	0.54607	0.85682	1.06801	4.943	0.944	0.5345	0.54607	24.9112502	1.008550702	8.92E-05	0.056256	2.318097	0.13277	3.786771	3.71E+00	2.85E+01
3889	473363.09	3853377.25	2.36591	0.55775	0.93616	1.09403	4.742	0.975	0.5481	0.55775	24.685359	1.030122794	9.746E-05	0.057627	2.223549	0.13713	3.883486	3.79E+00	2.82E+01
3890	473863.09	3853377.25	2.32884	0.57241	0.9889	1.13595	4.36	0.996	0.5735	0.57241	24.2985792	1.057198724	0.000103	0.059835	2.044263	0.14018	4.063454	3.89E+00	2.78E+01
3891	474363.09	3853377.25	2.27181	0.56497	1.05555	1.20175	3.782	0.988	0.5961	0.56497	23.7035414	1.043457597	0.0001099	0.063301	1.773321	0.13897	4.223442	3.84E+00	2.71E+01
3892	474863.09	3853377.25	2.17327	0.52615	1.08444	1.12577	3.103	0.932	0.5568	0.52615	22.6753977	0.971759942	0.0001129	0.059299	1.454953	0.13118	3.945271	3.58E+00	2.57E+01
3893	475363.09	3853377.25	2.06928	0.53396	0.99613	1.10819	2.637	0.905	0.5285	0.53396	21.5903901	0.986184432	0.0001037	0.058373	1.236305	0.12729	3.744542	3.63E+00	2.41E+01
3894	475863.09	3853377.25	1.98475	0.62348	0.97639	1.08143	2.447	0.884	0.602	0.62348	20.7084236	1.151521218	0.0001016	0.056963	1.147638	0.12441	4.265671	4.24E+00	2.32E+01
3895	476363.09	3853377.25	1.86257	0.67985	0.97585	1.05131	2.394	0.85	0.6689	0.67985	19.4336256	1.255632418	0.0001016	0.055377	1.122424	0.11963	4.739469	4.62E+00	2.21E+01
3896	476863.09	3853377.25	1.3878	0.61155	0.90548	1.0085	2.102	0.838	0.6289	0.61155	14.479985	1.129487395	9.427E-05	0.053122	0.985884	0.11788	4.455629	4.16E+00	1.71E+01
3897	477363.09	3853377.25	1.30406	0.62938	0.85601	0.99863	1.9	0.842	0.6845	0.62938	13.6062612	1.16241808	8.912E-05	0.052602	0.890956	0.11842	4.849717	4.28E+00	1.64E+01
3898	477863.09	3853377.25	1.26198	0.61361	0.75195	1.04385	1.609	0.838	0.7406	0.61361	13.1672081	1.133292062	7.828E-05	0.054984	0.754308	0.11792	5.247702	4.17E+00	1.63E+01
3899	478363.09	3853377.25	1.09703	0.4538	0.68945	0.8612	1.619	0.786	0.5289	0.4538	11.4461579	0.83813487	7.178E-05	0.045363	0.759185	0.11054	3.747447	3.09E+00	1.39E+01
3900	478863.09	3853377.25	0.85672	0.35926	0.621	0.79113	1.872	0.704	0.4644	0.35926	8.93881881	0.663526517	6.465E-05	0.041672	0.877657	0.09902	3.290158	2.44E+00	1.15E+01
3901	479363.09	3853377.25	1.53675	0.66019	0.85083	1.16062	1.919	0.847	0.7355	0.66019	16.0340949	1.21932186	8.858E-05	0.061135	0.899983	0.1192	5.210999	4.49E+00	1.91E+01
3902	479863.09	3853377.25	2.55821	0.86298	1.31638	1.43465	1.834	1.045	0.9534	0.86298	26.6917729	1.593859917	0.000137	0.075569	0.860148	0.147	6.75497	5.87E+00	3.03E+01
3903	480363.09	3853377.25	3.08671	1.56408	3.32533	1.93311	2.797	1.681	1.4109	1.56408	32.2060199	2.888739505	0.0003462	0.101825	1.311459	0.23642	9.996665	1.06E+01	3.61E+01
3904	480863.09	3853377.25	3.20505	1.40752	2.60478	2.27008	3.533	1.818	1.6987	1.40752	33.4407522	2.599584822	0.0002712	0.119574	1.656804	0.25577	12.0359	9.57E+00	4.05E+01
3905	481363.09	3853377.25	3.29961	1.99609	4.60619	2.90769	4.425	2.425	1.9509	1.99609	34.4273694	3.686629865	0.0004795	0.15316	2.075132	0.3411	13.82283	1.36E+01	4.09E+01
3906	481863.09	3853377.25	3.5673	2.75785	2.61273	3.50163	4.106	4.056	3.1149	2.75785	37.2203851	5.093543965	0.000272	0.184445	1.925377	0.57058	22.07019	1.88E+01	4.83E+01
3907	482363.09	3853377.25	5.1917	4.46807	3.12362	4.05124	3.637	4.013	4.3016	4.46807	54.1689999	8.252193188	0.0003252	0.213395	1.705393	0.56447	30.4786	3.04E+01	6.50E+01
3908	482863.09	3853377.25	5.05268	9.09292	4.48962	4.46772	3.603	3.682	9.1552	9.09292	52.7184973	16.79394738	0.0004674	0.235333	1.689286	0.51796	64.86754	6.18E+01	7.50E+01
3909	483363.09	3853377.25	3.91886	4.82516	1.52362	3.18977	3.962	3.367	4.9066	4.82516	40.888481	8.911711877	0.0001586	0.168018	1.857952	0.47372	34.76517	3.28E+01	5.43E+01
3910	483863.09	3853377.25	3.89726	4.15922	1.97529	3.45406	3.698	2.84	4.2819	4.15922	40.6631116	7.681770195	0.0002056	0.181939	1.733838	0.39949	30.33888	2.83E+01	5.27E+01
3911	484363.09	3853377.25	3.58531	2.8264	1.81561	2.95378	8.57	2.237	3.0394	2.8264	37.4082973	5.22015072	0.000189	0.155588	4.018773	0.31474	21.53496	1.92E+01	4.94E+01
3912	484863.09	3853377.25	3.29089	1.29652	2.40544	1.92043	4.179	1.564	1.4114	1.29652	34.3363869	2.394576073	0.0002504	0.101157	1.959646	0.22	10.00028	8.82E+00	4.02E+01
3913	485363.09	3853377.25	2.64849	1.42744	1.47609	0.81961	3.138	0.893	1.4441	1.42744	27.6337336	2.636375582	0.0001537	0.043172	1.471482	0.12562	10.23204	9.71E+00	3.24E+01
3914	485863.09	3853377.25	1.60607	1.40569	1.44246	0.59076	2.836	0.673	1.4169	1.40569	16.7573638	2.596204948	0.0001502	0.031118	1.329864	0.09469	10.03939	9.56E+00	2.13E+01
3915	486363.09	3853377.25	1.45998	1.32687	1.628	0.63608	3.636	0.603	1.3332	1.32687	15.2330945	2.450630267	0.0001695	0.033505	1.705065	0.08481	9.446061	9.02E+00	1.99E+01
3916	486863.09	3853377.25	1.17229	0.98703	1.29801	0.75576	3.742	0.569	1.0104	0.98703	12.2314034	1.822971046	0.0001351	0.039809	1.75456	0.08008	7.159332	6.71E+00	1.64E+01
3917	487363.09	3853377.25	1.22907	0.94702	1.40473	0.8261	2.149	0.544	0.9758	0.94702	12.8238328	1.74907555	0.0001462	0.043514	1.007707	0.07653	6.914108	6.44E+00	1.62E+01
3918	487863.09	3853377.25	1.29288	0.90918	1.21791	0.70066	3.618	0.576	0.9303	0.90918	13.4896116	1.679187883	0.0001268	0.036907	1.696503	0.08103	6.591157	6.18E+00	1.74E+01
3919	488363.09	3853377.25	1.40101	0.79081	1.16581	0.59346	3.189	0.522	0.8005	0.79081	14.6178151	1.460567291	0.0001214	0.03126	1.495149	0.07348	5.671477	5.38E+00	1.80E+01
3920	488863.09	3853377.25	1.36052	0.67523	1.21289	0.61508	3.046	0.509	0.6814	0.67523	14.1953518	1.247099622	0.0001263	0.032399	1.42815	0.07163	4.827965	4.59E+00	1.72E+01
3921	489363.09	3853377.25	1.31233	0.6544	0.95024	0.76083	2.743	0.518	0.6596	0.6544	13.6925484	1.20862816	9.893E-05	0.040076	1.286311	0.07282	4.673787	4.45E+00	1.65E+01
3922	489863.09	3853377.25	1.17809	0.65524	1.07426	0.6756	2.854	0.534	0.6601	0.65524	12.2919192	1.210179577	0.0001118	0.035587	1.338103	0.07505	4.676976	4.46E+00	1.52E+01
3923	490363.09	3853377.25	1.34979	0.73145	1.08906	0.65438	3.177	0.574	0.7356	0.73145	14.0833974	1.350933783	0.0001134	0.034469	1.489916	0.08077	5.212204	4.97E+00	1.73E+01
3924	490863.09	3853377.25	1.43961	0.73663	0.96139	0.71002	3.23	0.578	0.7434	0.73663	15.0205586	1.360500858	0.0001001	0.0374	1.514407	0.08134	5.267399	5.01E+00	1.83E+01
3925	491363.09	3853377.25	1.48091	0.74779	0.9137	0.75985	3.038	0.584	0.7546	0.74779	15.4514732	1.381112548	9.512E-05	0.040024	1.424614	0.08217	5.346755	5.08E+00	1.86E+01
3926	491863.09	3853377.25	1.45572	0.73543	0.94572	0.72506	2.989	0.538	0.7419	0.73543	15.1886466	1.358284547	9.846E-05	0.038192	1.401557	0.07562	5.256487	5.00E+00	1.83E+01
3927	492363.09	3853377.25	1.47526	0.73894	0.82232	0.69576	2.999	0.522	0.7449	0.73894	15.3925224	1.364767256	8.561E-05	0.036649	1.406242	0.07343	5.278169	5.02E+00	1.85E+01
3928	492863.09	3853377.25	1.49008	0.74603	0.87161	0.82475	3.384	0.523	0.7512	0.74603	15.5471509	1.377861959	9.074E-05	0.043443	1.586987	0.07357	5.322523	5.07E+00	1.89E+01
3929	493363.09	3853377.25	1.39568	0.73618	0.90326	0.85806	3.784	0.521	0.7408	0.73618	14.5622031	1.359669741	9.403E-05	0.045198	1.774395	0.07324	5.248906	5.01E+00	1.81E+01

3930	493863.09	3853377.25	1.33901	0.72795	0.74369	1.11613	3.676	0.528	0.7326	0.72795
3931	494363.09	3853377.25	1.25334	0.69949	0.77911	0.93461	3.302	0.47	0.7042	0.69949
3932	494863.09	3853377.25	1.17018	0.65808	0.72639	0.92277	4.105	0.446	0.6627	0.65808
3933	495363.09	3853377.25	1.1558	0.63054	0.68076	1.01749	3.884	0.439	0.6352	0.63054
3934	495863.09	3853377.25	1.12894	0.5906	0.67621	0.7996	3.944	0.472	0.5949	0.5906
3935	496363.09	3853377.25	1.03169	0.53598	0.58614	0.59092	3.28	0.496	0.5387	0.53598
3936	496863.09	3853377.25	0.99685	0.45074	0.53307	0.57604	2.62	0.521	0.4541	0.45074
3937	497363.09	3853377.25	0.64955	0.36057	0.50785	0.49051	1.797	0.505	0.3662	0.36057
3938	497863.09	3853377.25	0.57604	0.2564	0.43161	0.37526	1.369	0.479	0.2785	0.2564
3939	498363.09	3853377.25	0.58253	0.2521	0.38416	0.32476	1.138	0.458	0.274	0.2521
3940	471363.09	3853877.25	2.10395	0.45519	0.75851	0.81158	2.644	1.017	0.4327	0.45519
3941	471863.09	3853877.25	2.23282	0.46872	0.7749	0.94174	2.931	1.042	0.4581	0.46872
3942	472363.09	3853877.25	2.32433	0.47096	0.78459	1.0239	3.222	1.039	0.4615	0.47096
3943	472863.09	3853877.25	2.40432	0.51465	0.80181	1.07951	3.758	1.031	0.4888	0.51465
3944	473363.09	3853877.25	2.44379	0.53783	0.8108	1.09459	4.561	1.01	0.5059	0.53783
3945	473863.09	3853877.25	2.47382	0.56458	0.82895	1.10099	5.228	0.995	0.5323	0.56458
3946	474363.09	3853877.25	2.48659	0.58041	0.85858	1.11596	5.608	1.011	0.5552	0.58041
3947	474863.09	3853877.25	2.4729	0.56026	0.91456	1.12605	5.48	1.025	0.5433	0.56026
3948	475363.09	3853877.25	2.4066	0.51497	0.94563	1.05985	5.085	0.947	0.504	0.51497
3949	475863.09	3853877.25	2.2528	0.4849	0.93231	0.96251	4.36	0.883	0.4482	0.4849
3950	476363.09	3853877.25	1.66775	0.49527	0.91279	0.75996	3.126	0.785	0.4789	0.49527
3951	476863.09	3853877.25	1.26716	0.52325	0.89233	0.68641	1.992	0.745	0.4594	0.52325
3952	477363.09	3853877.25	1.45102	0.5433	0.8993	0.68891	1.833	0.753	0.4482	0.5433
3953	477863.09	3853877.25	1.41107	0.59089	0.94008	0.73541	1.971	0.754	0.5275	0.59089
3954	478363.09	3853877.25	1.37032	0.52158	0.99522	0.76066	2.117	0.773	0.4826	0.52158
3955	478863.09	3853877.25	0.99355	0.34472	0.90035	0.71646	1.464	0.76	0.3523	0.34472
3956	479363.09	3853877.25	1.27672	0.43278	0.94649	0.747	1.695	0.834	0.4174	0.43278
3957	479863.09	3853877.25	2.61333	0.67399	1.17525	1.42382	2.731	1.128	0.7507	0.67399
3958	480363.09	3853877.25	3.40656	0.9691	1.85132	2.23683	2.894	1.44	1.2581	0.9691
3959	480863.09	3853877.25	3.62994	1.53287	3.93326	2.73582	3.108	1.965	1.7439	1.53287
3960	481363.09	3853877.25	3.52507	2.03826	6.32426	2.92885	3.553	2.92	2.1321	2.03826
3961	481863.09	3853877.25	3.60914	2.74367	7.9263	3.07584	4.442	3.953	2.304	2.74367
3962	482363.09	3853877.25	4.75024	4.39288	3.45253	4.0537	5.029	6.529	3.0528	4.39288
3963	482863.09	3853877.25	6.69114	11.7527	4.49461	9.03087	4.651	11.04	8.5686	11.7527
3964	483363.09	3853877.25	6.04958	3.56901	3.36169	7.56215	4.555	8.292	4.1174	3.56901
3965	483863.09	3853877.25	4.77554	3.37802	4.06592	4.93292	4.668	4.111	3.9401	3.37802
3966	484363.09	3853877.25	4.62166	3.42036	4.46507	4.28237	4.674	2.755	3.662	3.42036
3967	484863.09	3853877.25	4.18567	2.90044	2.6944	2.00334	8.182	1.458	2.936	2.90044
3968	485363.09	3853877.25	2.43645	1.24497	2.12146	0.74163	1.748	0.864	1.3032	1.24497
3969	485863.09	3853877.25	2.32835	0.80048	2.15713	0.89229	3.714	0.891	0.8532	0.80048
3970	486363.09	3853877.25	2.02152	0.99699	1.86265	0.85519	3.879	0.807	1.0076	0.99699
3971	486863.09	3853877.25	1.61992	1.27658	1.651	0.83988	4.702	0.679	1.2885	1.27658
3972	487363.09	3853877.25	1.70803	1.41093	1.55797	0.91759	2.878	0.633	1.4196	1.41093
3973	487863.09	3853877.25	2.07354	1.17816	1.51453	0.94405	4.252	0.7	1.206	1.17816
3974	488363.09	3853877.25	2.17618	1.02821	1.52892	0.99259	3.36	0.676	1.0635	1.02821
3975	488863.09	3853877.25	2.39261	1.06013	1.51502	1.10687	4.251	0.747	1.0953	1.06013
3976	489363.09	3853877.25	2.1371	0.92813	1.2975	0.99861	3.787	0.65	0.9501	0.92813
3977	489863.09	3853877.25	2.11953	0.81402	1.17172	0.92923	4.362	0.679	0.8522	0.81402
3978	490363.09	3853877.25	1.9855	0.72379	1.1881	0.84805	3.557	0.688	0.7582	0.72379
3979	490863.09	3853877.25	1.9234	0.77607	0.98824	0.91106	3.979	0.691	0.8097	0.77607
3980	491363.09	3853877.25	1.79427	0.82996	1.07325	0.93539	4.037	0.664	0.8499	0.82996
3981	491863.09	3853877.25	1.69844	0.84408	1.06684	0.91367	3.723	0.625	0.85	0.84408
3982	492363.09	3853877.25	1.70237	0.86426	1.10885	0.93331	4.441	0.644	0.8711	0.86426
3983	492863.09	3853877.25	1.67497	0.83026	1.11074	1.06263	5.273	0.668	0.8374	0.83026
3984	493363.09	3853877.25	1.64816	0.79098	1.00652	1.41191	4.969	0.671	0.7983	0.79098
3985	493863.09	3853877.25	1.59941	0.7467	0.95591	1.12045	4.682	0.636	0.7535	0.7467
3986	494363.09	3853877.25	1.53836	0.70954	0.89861	1.13341	5.345	0.595	0.7157	0.70954

13.9709214	1.344469543	7.742E-05	0.058791	1.723555	0.07427	5.190664	4.95E+00	1.74E+01
13.0770604	1.291906038	8.111E-05	0.04923	1.548296	0.06612	4.989228	4.76E+00	1.63E+01
12.2093881	1.215424846	7.562E-05	0.048606	1.925143	0.06271	4.695681	4.47E+00	1.57E+01
12.0593505	1.164560513	7.087E-05	0.053595	1.821338	0.06172	4.50055	4.29E+00	1.54E+01
11.7790995	1.090794302	7.04E-05	0.042118	1.849286	0.06633	4.214939	4.02E+00	1.50E+01
10.7644154	0.989915222	6.102E-05	0.031126	1.538238	0.06974	3.817167	3.64E+00	1.36E+01
10.4009029	0.832483278	5.55E-05	0.030342	1.228517	0.07326	3.217179	3.06E+00	1.27E+01
6.77725483	0.66594599	5.287E-05	0.025837	0.842577	0.07101	2.59473	2.45E+00	8.53E+00
6.01026845	0.473551742	4.493E-05	0.019766	0.64211	0.06744	1.972919	1.74E+00	7.44E+00
6.07798361	0.465609962	3.999E-05	0.017106	0.533752	0.06442	1.941601	1.71E+00	7.39E+00
21.9521289	0.840702097	7.897E-05	0.042749	1.239785	0.14305	3.065836	3.10E+00	2.42E+01
23.2967287	0.865691001	8.067E-05	0.049605	1.374205	0.1466	3.245662	3.19E+00	2.58E+01
24.2515229	0.869828115	8.168E-05	0.053933	1.510834	0.14609	3.26954	3.20E+00	2.69E+01
25.0861201	0.950520297	8.347E-05	0.056862	1.762161	0.14503	3.46297	3.50E+00	2.80E+01
25.497941	0.993332034	8.441E-05	0.057657	2.138558	0.14203	3.584484	3.66E+00	2.88E+01
25.8112671	1.042737296	8.63E-05	0.057994	2.451697	0.13999	3.771608	3.84E+00	2.94E+01
25.9445063	1.071974129	8.938E-05	0.058782	2.629464	0.14225	3.933863	3.95E+00	2.98E+01
25.801668	1.034758577	9.521E-05	0.059314	2.569677	0.14419	3.849547	3.81E+00	2.96E+01
25.1099091	0.951111313	9.845E-05	0.055827	2.384553	0.13324	3.571022	3.50E+00	2.87E+01
23.5051954	0.895574258	9.706E-05	0.050699	2.044642	0.12416	3.1758	3.30E+00	2.65E+01
17.4009187	0.914726878	9.503E-05	0.04003	1.465809	0.11046	3.393108	3.37E+00	2.00E+01
13.2212551	0.966403858	9.29E-05	0.036156	0.934307	0.10475	3.255015	3.56E+00	1.50E+01
15.1396079	1.003434718	9.362E-05	0.036288	0.859632	0.10597	3.175375	3.69E+00	1.66E+01
14.7227788	1.09132991	9.787E-05	0.038737	0.924409	0.10606	3.73774	4.02E+00	1.66E+01
14.2976027	0.963319492	0.0001036	0.040067	0.992575	0.10869	3.419183	3.55E+00	1.63E+01
10.3664715	0.636672218	9.373E-05	0.037739	0.686451	0.10696	2.495889	2.34E+00	1.20E+01
13.3210019	0.799312492	9.854E-05	0.039348	0.79502	0.11726	2.957571	2.94E+00	1.51E+01
27.2668822	1.244809434	0.0001224	0.074998	1.280473	0.15866	5.31898	4.58E+00	3.08E+01
35.543261	1.789855669	0.0001927	0.117823	1.35716	0.20257	8.914376	6.59E+00	4.13E+01
37.8739564	2.831096955	0.0004095	0.144107	1.457195	0.27648	12.35588	1.04E+01	4.45E+01
36.779767	3.764514721	0.0006584	0.154274	1.665896	0.41076	15.10649	1.39E+01	4.40E+01
37.656934	5.067354559	0.0008252	0.162017	2.083056	0.55606	16.32467	1.87E+01	4.32E+01
49.5629081	8.113322847	0.0003594	0.213525	2.358068	0.9185	21.62984	2.99E+01	5.29E+01
69.8138109	21.70636335	0.0004679	0.475693	2.181042	1.55267	60.71169	7.99E+01	7.65E+01
63.1199219	6.591696194	0.00035	0.398329	2.135899	1.16642	29.17319	2.43E+01	7.83E+01
49.8268825	6.238951859	0.0004233	0.259837	2.189074	0.57834	27.91696	2.30E+01	6.40E+01
48.2213341	6.317150692	0.0004648	0.22557	2.191799	0.3875	25.94666	2.33E+01	6.00E+01
43.672315	5.356897097	0.0002805	0.105524	3.836903	0.20517	20.80283	1.97E+01	5.43E+01
25.4213571	2.299367054	0.0002209	0.039065	0.819507	0.12153	9.233784	8.47E+00	2.95E+01
24.2934667	1.478427062	0.0002246	0.047001	1.741514	0.12534	6.045301	5.44E+00	2.83E+01
21.0920732	1.841366426	0.0001939	0.045046	1.819144	0.11349	7.139139	6.78E+00	2.53E+01
16.9018715	2.357748375	0.0001719	0.04424	2.204933	0.09546	9.129417	8.68E+00	2.21E+01
17.8211909	2.605882839	0.0001622	0.048333	1.349681	0.089	10.05824	9.59E+00	2.24E+01
21.6348379	2.17597395	0.0001577	0.049727	1.993657	0.09846	8.544945	8.01E+00	2.65E+01
22.70576	1.899027445	0.0001592	0.052284	1.575658	0.0951	7.535352	6.99E+00	2.69E+01
24.9639407	1.957981313	0.0001577	0.058303	1.993465	0.10511	7.760312	7.21E+00	2.96E+01
22.2980083	1.714187124	0.0001351	0.052601	1.775614	0.09137	6.731801	6.31E+00	2.64E+01
22.114687	1.503434436	0.000122	0.048946	2.045322	0.09553	6.038003	5.54E+00	2.63E+01
20.7162489	1.336786332	0.0001237	0.04467	1.667983	0.09682	5.371908	4.92E+00	2.43E+01
20.0683118	1.433343606	0.0001029	0.047989	1.865609	0.09727	5.737158	5.28E+00	2.40E+01
18.7209992	1.532874431	0.0001117	0.049271	1.893069	0.09338	6.021848	5.64E+00	2.27E+01
17.7211311	1.558953021	0.0001111	0.048127	1.745613	0.08793	6.022202	5.74E+00	2.14E+01
17.7621358	1.596223981	0.0001154	0.049161	2.082592	0.09064	6.171845	5.88E+00	2.19E+01
17.4762505	1.533428509	0.0001156	0.055973	2.47263	0.09396	5.933494	5.65E+00	2.19E+01
17.1965212	1.460881268	0.0001048	0.074371	2.330045	0.09438	5.656527	5.38E+00	2.14E+01
16.6878749	1.379099399	9.952E-05	0.059019	2.19532	0.08952	5.338607	5.08E+00	2.07E+01
16.0508933	1.310467641	9.355E-05	0.059701	2.506589	0.08366	5.070851	4.82E+00	2.03E+01

3987	494863.09	3853877.25	1.47689	0.67501	0.84897	1.46673	5.248	0.61	0.6801	0.67501	15.4095295	1.246693298	8.838E-05	0.077259	2.460935	0.08581	4.818754	4.59E+00	1.95E+01
3988	495363.09	3853877.25	1.33013	0.6196	0.82392	0.84235	3.63	0.572	0.6237	0.6196	13.8782695	1.144355147	8.578E-05	0.04437	1.702092	0.08048	4.419423	4.21E+00	1.71E+01
3989	495863.09	3853877.25	1.04959	0.54021	0.70118	0.67416	2.877	0.586	0.5419	0.54021	10.9511799	0.997727717	7.3E-05	0.035511	1.348874	0.08243	3.839699	3.67E+00	1.36E+01
3990	496363.09	3853877.25	1.05909	0.47519	0.6695	0.62861	2.689	0.595	0.4782	0.47519	11.0503007	0.87764061	6.97E-05	0.033111	1.260703	0.08365	3.388361	3.23E+00	1.35E+01
3991	496863.09	3853877.25	0.88333	0.38824	0.59106	0.57531	2.389	0.554	0.3913	0.38824	9.21646141	0.717050423	6.153E-05	0.030304	1.120459	0.07797	2.772502	2.64E+00	1.13E+01
3992	497363.09	3853877.25	0.73515	0.29564	0.53494	0.49211	1.644	0.499	0.322	0.29564	7.67038548	0.546025106	5.569E-05	0.025921	0.770927	0.07024	2.281699	2.01E+00	9.35E+00
3993	497863.09	3853877.25	0.71847	0.27055	0.46359	0.53008	1.454	0.464	0.2947	0.27055	7.49635021	0.499685741	4.826E-05	0.027921	0.681705	0.06521	2.087702	1.84E+00	9.02E+00
3994	498363.09	3853877.25	0.67102	0.26915	0.44784	0.65732	1.484	0.442	0.2924	0.26915	7.00126785	0.497100045	4.662E-05	0.034624	0.695853	0.06222	2.071618	1.83E+00	8.53E+00
3995	471363.09	3854377.25	1.87847	0.50602	0.7793	0.80285	1.638	1.088	0.4593	0.50602	19.5995226	0.934581329	8.113E-05	0.042289	0.768141	0.153	3.254448	3.44E+00	2.13E+01
3996	471863.09	3854377.25	1.97568	0.52792	0.79	0.8341	1.897	1.155	0.4905	0.52792	20.6137893	0.975029001	8.224E-05	0.043935	0.889352	0.16254	3.475653	3.59E+00	2.26E+01
3997	472363.09	3854377.25	2.07276	0.53876	0.79239	0.8726	2.28	1.174	0.5038	0.53876	21.6266996	0.995049675	8.249E-05	0.045963	1.068929	0.16516	3.569251	3.66E+00	2.38E+01
3998	472863.09	3854377.25	2.1759	0.53279	0.78681	0.93004	2.64	1.16	0.5014	0.53279	22.7028385	0.984023529	8.191E-05	0.048989	1.23812	0.16325	3.552812	3.62E+00	2.51E+01
3999	473363.09	3854377.25	2.29862	0.5381	0.77601	1.01226	3.013	1.156	0.5086	0.5381	23.9832707	0.993830704	8.079E-05	0.05332	1.412671	0.16257	3.60326	3.66E+00	2.66E+01
4000	473863.09	3854377.25	2.4252	0.56221	0.78272	1.10146	3.371	1.185	0.5193	0.56221	25.3039772	1.038360082	8.149E-05	0.058018	1.580497	0.16663	3.679215	3.82E+00	2.80E+01
4001	474363.09	3854377.25	2.53541	0.58339	0.84741	1.15791	3.768	1.18	0.5308	0.58339	26.4538829	1.077477968	8.822E-05	0.060992	1.766836	0.16605	3.760768	3.97E+00	2.93E+01
4002	474863.09	3854377.25	2.5551	0.5397	0.79172	1.12221	4.079	1.041	0.5047	0.5397	26.6593239	0.996785785	8.242E-05	0.059111	1.912534	0.1465	3.57584	3.67E+00	2.97E+01
4003	475363.09	3854377.25	2.45595	0.46511	0.77645	0.9509	4.425	0.94	0.4516	0.46511	25.6248156	0.859023599	8.083E-05	0.050088	2.075028	0.13223	3.199749	3.16E+00	2.88E+01
4004	475863.09	3854377.25	1.78785	0.3942	0.79135	0.77042	3.307	0.841	0.3398	0.3942	18.6540144	0.7280581	8.238E-05	0.040581	1.550847	0.11836	2.407747	2.68E+00	2.08E+01
4005	476363.09	3854377.25	1.43728	0.39947	0.84923	0.75121	3.455	0.813	0.3374	0.39947	14.9962479	0.737791398	8.841E-05	0.039569	1.620214	0.11438	2.390317	2.72E+00	1.72E+01
4006	476863.09	3854377.25	1.41674	0.41703	0.90396	0.73213	3.509	0.774	0.361	0.41703	14.7819383	0.770223413	9.411E-05	0.038564	1.645287	0.10895	2.557532	2.84E+00	1.71E+01
4007	477363.09	3854377.25	1.18184	0.42639	0.93857	0.71512	3.389	0.761	0.3825	0.42639	12.3310459	0.787510637	9.771E-05	0.037668	1.588998	0.10699	2.709938	2.90E+00	1.47E+01
4008	477863.09	3854377.25	1.14844	0.45746	0.93579	0.70695	3.034	0.754	0.3997	0.45746	11.982558	0.844894618	9.742E-05	0.037238	1.422715	0.10611	2.832231	3.11E+00	1.41E+01
4009	478363.09	3854377.25	1.31027	0.52834	0.90952	0.6952	2.503	0.782	0.4523	0.52834	13.6710549	0.97580471	9.469E-05	0.036619	1.173747	0.11007	3.204992	3.59E+00	1.56E+01
4010	478863.09	3854377.25	1.27876	0.52794	0.87782	0.6956	2.093	0.776	0.434	0.52794	13.3422868	0.975065939	9.139E-05	0.03664	0.981317	0.10911	3.074763	3.59E+00	1.49E+01
4011	479363.09	3854377.25	1.71385	0.66185	0.94022	0.95124	2.801	0.831	0.6213	0.66185	17.8819155	1.222387756	9.788E-05	0.050106	1.313546	0.11685	4.401922	4.50E+00	2.05E+01
4012	479863.09	3854377.25	2.40758	0.65014	1.0681	1.055	2.707	0.903	0.6474	0.65014	25.1201342	1.200760257	0.0001112	0.055571	1.269491	0.12709	4.586779	4.42E+00	2.79E+01
4013	480363.09	3854377.25	3.31719	0.76016	1.79027	1.59319	3.084	1.206	0.9252	0.76016	34.6107951	1.403959019	0.0001864	0.08392	1.446001	0.16958	6.555234	5.17E+00	3.91E+01
4014	480863.09	3854377.25	4.22441	1.09989	2.92435	2.34422	3.811	1.683	1.3915	1.09989	44.0765192	2.031415078	0.0003044	0.12348	1.787173	0.23676	9.858925	7.48E+00	5.06E+01
4015	481363.09	3854377.25	4.34753	1.42785	5.02983	2.66553	3.934	2.375	1.5542	1.42785	45.3611249	2.637132821	0.0005236	0.140404	1.844512	0.33416	11.01235	9.71E+00	5.16E+01
4016	481863.09	3854377.25	3.97385	2.87188	9.16246	2.62569	4.037	3.561	1.8691	2.87188	41.462234	5.3041489	0.0009539	0.138306	1.893069	0.50096	13.24325	1.95E+01	4.30E+01
4017	482363.09	3854377.25	4.72964	3.62427	10.93156	3.13746	4.566	5.833	2.3529	3.62427	49.3479725	6.693757306	0.001138	0.165263	2.140991	0.82062	16.67093	2.46E+01	5.12E+01
4018	482863.09	3854377.25	6.32578	16.19842	5.00581	4.21772	5.978	6.377	3.1606	16.19842	66.001729	29.91727775	0.0005211	0.222164	2.803297	0.89711	22.3942	1.10E+02	1.21E+01
4019	483363.09	3854377.25	7.21015	4.59833	6.06288	6.88118	6.385	4.316	10.675	4.59833	75.2290415	8.492773726	0.0006312	0.36246	2.993946	0.60715	75.63552	3.13E+01	1.32E+02
4020	483863.09	3854377.25	7.17977	2.01817	7.46117	12.61687	5.517	6.443	5.2994	2.01817	74.9120636	3.727409984	0.0007768	0.664582	2.586868	0.90632	37.5483	1.37E+01	1.07E+02
4021	484363.09	3854377.25	6.91264	1.93563	4.93311	5.77052	5.692	3.089	3.3399	1.93563	72.1248908	3.574964739	0.0005136	0.303957	2.668961	0.43461	23.66411	1.32E+01	8.96E+01
4022	484863.09	3854377.25	4.22413	1.95929	3.89975	1.75667	3.303	1.189	1.9825	1.95929	44.0735978	3.618663	0.000406	0.092531	1.548878	0.16722	14.04644	1.33E+01	5.02E+01
4023	485363.09	3854377.25	4.69334	2.46605	3.47617	2.25397	7.575	1.434	2.4956	2.46605	48.9692267	4.554611054	0.0003619	0.118726	3.552269	0.20167	17.68237	1.68E+01	5.83E+01
4024	485863.09	3854377.25	2.91824	2.07897	2.36372	1.22858	2.35	0.994	2.1334	2.07897	30.4482428	3.839703065	0.0002461	0.064714	1.102101	0.13985	15.11577	1.41E+01	3.66E+01
4025	486363.09	3854377.25	3.1334	1.24476	1.97193	1.52281	5.698	1.027	1.291	1.24476	32.6931726	2.2989792	0.0002053	0.080213	2.671714	0.14449	9.147059	8.46E+00	3.86E+01
4026	486863.09	3854377.25	2.66814	0.7226	1.83581	1.37273	5.928	0.897	0.8676	0.7226	27.8387571	1.334588491	0.0001911	0.072307	2.779898	0.12623	6.147542	4.91E+00	3.34E+01
4027	487363.09	3854377.25	2.7511	0.88599	1.92689	1.4645	5.065	0.834	0.9699	0.88599	28.7043426	1.636357676	0.0002006	0.077141	2.374996	0.11727	6.87195	6.02E+00	3.38E+01
4028	487863.09	3854377.25	2.91213	1.34569	2.02511	1.3976	5.055	0.954	1.3601	1.34569	30.3844925	2.485389408	0.0002108	0.073617	2.370241	0.13419	9.636516	9.15E+00	3.59E+01
4029	488363.09	3854377.25	2.9495	1.52226	1.87802	1.33968	3.793	0.911	1.5495	1.52226	30.7744025	2.811501074	0.0001955	0.070566	1.77847	0.12821	10.97862	1.04E+01	3.62E+01
4030	488863.09	3854377.25	2.93333	1.27276	1.78553	1.2979	5.818	0.928	1.3338	1.27276	30.6056884	2.350693119	0.0001859	0.068366	2.728355	0.13051	9.4501	8.65E+00	3.67E+01
4031	489363.09	3854377.25	2.79126	1.05424	1.67813	1.20326	7.075	0.862	1.1065	1.05424	29.1233628	1.947102921	0.0001747	0.063381	3.317542	0.12127	7.840093	7.17E+00	3.52E+01
4032	489863.09	3854377.25	2.54674	1.03845	1.64178	1.08791	4.543	0.865	1.0796	1.03845	26.5720975	1.917939964	0.0001709	0.057305	2.130079	0.12168	7.649356	7.06E+00	3.14E+01
4033	490363.09	3854377.25	2.39169	0.98006	1.54602	1.01049	6.303	0.795	1.0071	0.98006	24.9543416	1.810097974	0.000161	0.053227	2.955602	0.11181	7.135525	6.66E+00	3.04E+01
4034	490863.09	3854377.25	1.92689	0.82234	1.35838	0.98566	3.93	0.751	0.8412	0.82234	20.1047257	1.518800857	0.0001414	0.051919	1.842852	0.10561	5.960064	5.59E+00	2.40E+01
4035	491363.09	3854377.25	2.01021	0.7602	1.38408	1.05573	4.695	0.724	0.8082	0.7602	20.9740673	1.404032896	0.0001441	0.05561	2.201744	0.10179	5.726601	5.17E+00	2.53E+01
4036	491863.09	3854377.25	2.08788	0.76589	1.37329	1.09715	6.472	0.787	0.8456	0.76589	21.7844582	1.414541903	0.000143	0.057791	3.034667	0.11066	5.991381	5.21E+00	2.72E+01
4037	492363.09	3854377.25	2.08199	0.84415	1.34998	1.10109	7.559	0.845	0.8969	0.84415	21.7230033	1.559082306	0.0001405	0.057999	3.544743	0.11885	6.354577	5.74E+00	2.76E+01
4038	492863.09	3854377.25	2.04777	0.85463	1.29533	1.28431	7.317	0.835	0.8948	0.85463	21.3659597	1.578438087	0.0001349	0.06765	3.431049	0.11748	6.339627	5.81E+00	2.71E+01
4039	493363.09	3854377.25	1.98339	0.83267	1.17454	1.69959	8.257	0.76	0.8566	0.83267	20.6942336	1.5378796	0.0001223	0.089524	3.871927	0.1069	6.069249	5.66E+00	2.67E+01
4040	493863.09	3854377.25	1.88368	0.79598	1.02204	1.29778	8.232	0.718	0.8072	0.79598	19.6538825	1.470115897	0.0001064	0.068359	3.86019	0.10104	5.719445	5.41E+00	2.55E+01
4041	494363.09	3854377.25	1.83741	0.74647	1.032	2.05291	5.368	0.727	0.7523	0.74647	19.171112	1.378674607	0.0001074	0.108135	2.517177	0.10227	5.330104	5.08E+00	2.35E+01
4042	494863.09	3854377.25	1.55109	0.59604	0.94357	0.94817	3.371	0.678	0.6016	0.59604	16.1837152	1.100841578	9.823E-05	0.049944	1.580609	0.09534	4.262624	4.05E+00	1.92E+01
4043	495363.09	3854377.25	1.14945	0.40702	0.84873	0.708	2.802	0.623	0.4211	0.40702	11.9930961	0.751735687	8.836E-05	0.037293	1.314052	0.08769	2.983858	2.77E+00	1.44E+01

4044	495863.09	3854377.25	1.00654	0.34025	0.68116	0.64575	2.37	0.589	0.3602	0.34025	10.5020061	0.62841646	7.091E-05	0.034014	1.111202	0.08285	2.552005	2.31E+00	1.26E+01
4045	496363.09	3854377.25	0.90227	0.31926	0.61998	0.5731	1.956	0.54	0.3428	0.31926	9.414077	0.58964949	6.454E-05	0.030188	0.917187	0.07592	2.429074	2.17E+00	1.13E+01
4046	496863.09	3854377.25	0.87457	0.29602	0.55982	0.62005	1.804	0.503	0.311	0.29602	9.12506159	0.546726937	5.828E-05	0.032661	0.846062	0.07069	2.203476	2.01E+00	1.08E+01
4047	497363.09	3854377.25	0.82202	0.27599	0.51666	0.71227	1.796	0.452	0.2891	0.27599	8.57676701	0.509733016	5.379E-05	0.037518	0.842001	0.06353	2.048307	1.88E+00	1.02E+01
4048	497863.09	3854377.25	0.81069	0.27419	0.5205	0.83648	1.823	0.445	0.2879	0.27419	8.45855241	0.50640855	5.419E-05	0.044061	0.855065	0.06257	2.039663	1.86E+00	1.01E+01
4049	498363.09	3854377.25	0.71796	0.27354	0.52885	0.82066	1.811	0.435	0.2873	0.27354	7.49102898	0.505208048	5.506E-05	0.043228	0.84926	0.06126	2.03527	1.86E+00	9.13E+00
4050	471363.09	3854877.25	1.79227	0.54431	0.7282	0.76712	2.57	0.961	0.5119	0.54431	18.7001316	1.005300113	7.581E-05	0.040407	1.205324	0.13523	3.626996	3.70E+00	2.10E+01
4051	471863.09	3854877.25	1.85867	0.56659	0.75078	0.81423	2.551	1.058	0.5222	0.56659	19.3929339	1.046449617	7.816E-05	0.042889	1.196053	0.14882	3.699621	3.85E+00	2.17E+01
4052	472363.09	3854877.25	1.9099	0.57658	0.7819	0.84297	2.429	1.131	0.5163	0.57658	19.9274559	1.064900404	8.14E-05	0.044403	1.139042	0.15908	3.658172	3.92E+00	2.21E+01
4053	472863.09	3854877.25	1.93639	0.56798	0.80606	0.84979	2.183	1.175	0.5105	0.56798	20.2038465	1.049016843	8.392E-05	0.044762	1.023444	0.1653	3.61736	3.86E+00	2.22E+01
4054	473363.09	3854877.25	2.01725	0.58566	0.84037	0.88761	2.142	1.268	0.5292	0.58566	21.0475211	1.081670489	8.749E-05	0.046754	1.004608	0.17837	3.74929	3.98E+00	2.31E+01
4055	473863.09	3854877.25	2.1095	0.59608	0.85796	0.92341	2.307	1.351	0.5427	0.59608	22.0100363	1.100915455	8.932E-05	0.04864	1.081787	0.19003	3.844942	4.05E+00	2.42E+01
4056	474363.09	3854877.25	2.235	0.62301	0.93454	1.04941	2.554	1.445	0.5578	0.62301	23.3194743	1.150653163	9.729E-05	0.055277	1.197835	0.20323	3.95186	4.24E+00	2.56E+01
4057	474863.09	3854877.25	2.2295	0.48963	0.81637	0.89067	2.413	1.14	0.4428	0.48963	23.2620886	0.904310217	8.499E-05	0.046915	1.131404	0.16036	3.137327	3.33E+00	2.53E+01
4058	475363.09	3854877.25	1.68236	0.44519	0.74602	0.8088	2.008	1.017	0.3408	0.44519	17.5533561	0.82223284	7.767E-05	0.042603	0.941819	0.14305	2.414691	3.03E+00	1.89E+01
4059	475863.09	3854877.25	1.63592	0.42302	0.71034	0.81217	1.961	0.941	0.3333	0.42302	17.0688118	0.781286498	7.395E-05	0.04278	0.919729	0.13231	2.361551	2.88E+00	1.84E+01
4060	476363.09	3854877.25	1.21201	0.39602	0.64009	0.79734	2.061	0.848	0.3203	0.39602	12.6458327	0.731419505	6.664E-05	0.041999	0.966616	0.1193	2.269441	2.69E+00	1.41E+01
4061	476863.09	3854877.25	1.24257	0.38462	0.61575	0.79633	2.474	0.8	0.3166	0.38462	12.9646887	0.710364552	6.41E-05	0.041946	1.160148	0.11249	2.243154	2.62E+00	1.46E+01
4062	477363.09	3854877.25	1.25996	0.39681	0.66148	0.79099	3.136	0.778	0.3337	0.39681	13.1461319	0.732878576	6.886E-05	0.041665	1.470615	0.10941	2.364456	2.70E+00	1.52E+01
4063	477863.09	3854877.25	1.25907	0.40539	0.71079	0.78639	3.588	0.778	0.3404	0.40539	13.1368459	0.748725198	7.4E-05	0.041422	1.682276	0.1094	2.411503	2.76E+00	1.54E+01
4064	478363.09	3854877.25	1.77586	0.46743	0.82458	0.76488	3.905	0.828	0.4199	0.46743	18.5289135	0.863308467	8.584E-05	0.040289	1.8312	0.11652	2.975072	3.18E+00	2.12E+01
4065	478863.09	3854877.25	1.87308	0.69073	0.89366	0.80221	4.863	0.879	0.6501	0.69073	19.5432845	1.27572697	9.304E-05	0.042256	2.28027	0.12366	4.605981	4.70E+00	2.32E+01
4066	479363.09	3854877.25	2.63679	0.82567	1.03991	1.05108	5.903	0.962	0.7629	0.82567	27.5116585	1.52495112	0.0001083	0.055365	2.767894	0.13532	5.405067	5.61E+00	3.18E+01
4067	479863.09	3854877.25	3.28615	0.92211	1.33705	1.35796	6.307	1.134	0.8911	0.92211	34.2869309	1.703068632	0.0001392	0.071529	2.957328	0.15959	6.313623	6.27E+00	3.92E+01
4068	480363.09	3854877.25	3.84271	0.90267	1.29465	1.51912	4.587	1.223	0.9043	0.90267	40.0939495	1.667164397	0.0001348	0.080018	2.150853	0.17202	6.407292	6.14E+00	4.44E+01
4069	480863.09	3854877.25	4.36814	0.89045	1.53393	1.80935	4.573	1.549	1.1659	0.89045	45.5761649	1.644594965	0.0001597	0.095306	2.144485	0.21787	8.260539	6.05E+00	5.19E+01
4070	481363.09	3854877.25	4.7134	1.23665	2.54098	2.01516	4.781	1.75	1.3181	1.23665	49.1785281	2.284000633	0.0002645	0.106147	2.241898	0.24622	9.33886	8.41E+00	5.50E+01
4071	481863.09	3854877.25	5.69495	1.27982	2.63961	2.40851	4.69	1.902	1.5077	1.27982	59.4197943	2.363732414	0.0002748	0.126866	2.199236	0.26753	10.68239	8.70E+00	6.64E+01
4072	482363.09	3854877.25	5.4993	3.21326	6.73263	2.30829	4.874	4.921	1.5888	3.21326	57.3784273	5.934652386	0.0007009	0.121587	2.285418	0.69229	11.25708	2.18E+01	5.58E+01
4073	482863.09	3854877.25	6.51734	5.43416	11.79581	2.79885	5.424	7.49	2.1187	5.43416	68.0004218	10.03648961	0.001228	0.147427	2.543197	1.05361	15.01161	3.70E+01	5.98E+01
4074	483363.09	3854877.25	6.76125	6.85605	74.04438	3.75421	6.498	7.288	2.8757	6.85605	70.5453225	12.66261476	0.0077085	0.19775	3.047004	1.02519	20.37523	4.66E+01	6.12E+01
4075	483863.09	3854877.25	7.75124	3.2221	28.41675	5.93345	8.369	3.923	6.3753	3.2221	80.8746497	5.950979209	0.0029584	0.312539	3.924305	0.55185	45.17158	2.19E+01	1.15E+02
4076	484363.09	3854877.25	8.80117	1.57318	10.48924	13.27192	7.454	10.93	14.21	1.57318	91.8293771	2.905546529	0.001092	0.699086	3.495549	1.53756	100.6859	1.07E+01	1.90E+02
4077	484863.09	3854877.25	8.14328	1.76672	6.74234	13.90457	7.065	5.848	6.0351	1.76672	84.9651046	3.263000524	0.0007019	0.73241	3.312905	0.82264	42.76079	1.20E+01	1.24E+02
4078	485363.09	3854877.25	6.71227	2.0144	5.10484	6.07142	8.323	3.128	3.1961	2.0144	70.0342764	3.720447074	0.0005314	0.319806	3.902674	0.44006	22.64581	1.37E+01	8.74E+01
4079	485863.09	3854877.25	5.41573	2.28986	3.9765	3.78919	8.974	2.082	2.5457	2.28986	56.5064772	4.22920122	0.000414	0.199592	4.207926	0.29287	18.03713	1.56E+01	6.79E+01
4080	486363.09	3854877.25	4.46637	2.2691	3.28473	2.68801	7.895	1.601	2.4215	2.2691	46.601074	4.190859043	0.000342	0.141588	3.702248	0.2252	17.15706	1.54E+01	5.66E+01
4081	486863.09	3854877.25	3.93931	1.96464	3.17557	2.11762	7.689	1.326	2.1516	1.96464	41.1018516	3.628544053	0.0003306	0.111544	3.60567	0.18656	15.24451	1.34E+01	5.05E+01
4082	487363.09	3854877.25	3.82248	1.16241	2.57638	1.93831	8.891	1.267	1.4651	1.16241	39.8828743	2.146884871	0.0002682	0.102099	4.168968	0.17818	10.38041	7.90E+00	4.90E+01
4083	487863.09	3854877.25	3.55855	0.72527	2.82696	1.77792	6.267	1.318	1.0834	0.72527	37.1290896	1.339519782	0.0002943	0.09365	2.938782	0.18535	7.676138	4.93E+00	4.44E+01
4084	488363.09	3854877.25	3.41929	0.87352	2.72117	1.66373	5.637	1.194	1.1656	0.87352	35.6760829	1.613326513	0.0002833	0.087635	2.643199	0.16795	8.258413	5.94E+00	4.25E+01
4085	488863.09	3854877.25	3.20497	1.20524	2.66285	1.6467	11.6	1.191	1.4237	1.20524	33.4399175	2.225988697	0.0002772	0.086738	5.439008	0.16757	10.08764	8.20E+00	4.33E+01
4086	489363.09	3854877.25	2.96755	1.34236	2.46395	1.48687	9.316	1.13	1.5109	1.34236	30.962732	2.479239145	0.0002565	0.07832	4.36862	0.15902	10.70541	9.13E+00	3.96E+01
4087	489863.09	3854877.25	2.78429	1.22463	2.1066	1.3184	9.447	1.004	1.3523	1.22463	29.0506394	2.261800586	0.0002193	0.069446	4.430053	0.14129	9.581463	8.33E+00	3.72E+01
4088	490363.09	3854877.25	2.41336	0.99579	1.22846	1.02062	4.645	0.769	1.0298	0.99579	25.1804414	1.839150115	0.0001279	0.05376	2.177919	0.10823	7.296505	6.77E+00	2.99E+01
4089	490863.09	3854877.25	1.60934	0.65924	1.00428	0.72581	3.522	0.605	0.6849	0.65924	16.7914822	1.21756728	0.0001046	0.038231	1.651454	0.08507	4.853047	4.48E+00	2.02E+01
4090	491363.09	3854877.25	1.72203	0.70741	0.99336	0.84682	4.058	0.628	0.7283	0.70741	17.9672637	1.30653369	0.0001034	0.044605	1.902879	0.08828	5.160197	4.81E+00	2.17E+01
4091	491863.09	3854877.25	2.49202	0.87838	1.647	1.15928	9.724	0.948	0.9861	0.87838	26.0011617	1.622302572	0.0001715	0.061064	4.559962	0.13337	6.987016	5.97E+00	3.34E+01
4092	492363.09	3854877.25	2.46504	0.77749	1.71384	1.47431	12.47	0.954	0.9018	0.77749	25.7196586	1.435966241	0.0001784	0.077658	5.845926	0.13426	6.389791	5.29E+00	3.43E+01
4093	492863.09	3854877.25	2.39037	0.71263	1.45201	2.74322	11.38	0.897	0.8244	0.71263	24.940569	1.316174642	0.0001512	0.144497	5.334955	0.12622	5.841242	4.85E+00	3.29E+01
4094	493363.09	3854877.25	2.28735	0.69551	1.22502	1.34616	8.653	0.867	0.7963	0.69551	23.8656821	1.284555274	0.0001275	0.070908	4.057623	0.12191	5.642215	4.73E+00	3.03E+01
4095	493863.09	3854877.25	2.23744	0.72103	1.27898	2.72728	6.657	0.842	0.793	0.72103	23.3449327	1.331688817	0.0001331	0.143657	3.1216	0.11838	5.618975	4.90E+00	2.88E+01
4096	494363.09	3854877.25	1.80529	0.5787	1.02802	1.00288	3.632	0.703	0.6047	0.5787	18.8359793	1.068815887	0.000107	0.052826	1.703157	0.09892	4.284447	3.94E+00	2.21E+01
4097	494863.09	3854877.25	1.21084	0.37233	0.82736	0.70318	2.625	0.614	0.3939	0.37233	12.6336252	0.687665836	8.613E-05	0.037039	1.230814	0.08632	2.79064	2.53E+00	1.49E+01
4098	495363.09	3854877.25	1.04863	0.32141	0.67881	0.64339	2.398	0.549	0.3285	0.32141	10.9411635	0.59362038	7.067E-05	0.03389	1.124496	0.0772	2.32747	2.19E+00	1.29E+01
4099	495863.09	3854877.25	1.01421	0.28974	0.59934	0.60733	2.204	0.495	0.292	0.28974	10.5820331	0.535128244	6.239E-05	0.031991	1.033596	0.06961	2.068642	1.97E+00	1.24E+01
4100	496363.09	3854877.25	0.89731	0.2677	0.57964	0.74177	2.067	0.453	0.2693	0.2677	9.3623255	0.494422002	6.034E-05	0.039072	0.969439	0.06374	1.908371	1.82E+00	1.10E+01

4101	496863.09	3854877.25	0.79693	0.26283	0.58877	0.79337	2.057	0.448	0.264	0.26283
4102	497363.09	3854877.25	0.77949	0.26216	0.6014	0.82256	2.037	0.445	0.264	0.26216
4103	497863.09	3854877.25	0.76784	0.26373	0.61612	0.75356	1.959	0.441	0.2664	0.26373
4104	498363.09	3854877.25	0.76245	0.26614	0.6183	0.61107	1.848	0.46	0.2695	0.26614
4105	471363.09	3855377.25	1.59584	0.54345	0.6288	0.68637	2.864	0.792	0.5306	0.54345
4106	471863.09	3855377.25	1.6926	0.55724	0.66369	0.71602	3.034	0.849	0.5424	0.55724
4107	472363.09	3855377.25	1.8027	0.56698	0.7043	0.76333	3.311	0.922	0.5536	0.56698
4108	472863.09	3855377.25	1.8853	0.57998	0.74055	0.79529	3.427	0.973	0.5586	0.57998
4109	473363.09	3855377.25	1.98577	0.60666	0.78977	0.90853	3.72	1.112	0.5752	0.60666
4110	473863.09	3855377.25	2.06709	0.65743	0.95816	1.01932	3.887	1.278	0.6079	0.65743
4111	474363.09	3855377.25	2.1394	0.69439	0.98763	1.06733	3.923	1.4	0.6297	0.69439
4112	474863.09	3855377.25	2.05085	0.56569	0.90334	0.86404	3.025	1.213	0.5013	0.56569
4113	475363.09	3855377.25	1.0929	0.50508	0.87118	0.75566	0.951	1.124	0.4088	0.50508
4114	475863.09	3855377.25	0.98749	0.48828	0.86257	0.74035	0.954	1.092	0.3764	0.48828
4115	476363.09	3855377.25	1.02771	0.48377	0.87734	0.75669	1.024	1.077	0.3598	0.48377
4116	476863.09	3855377.25	1.07803	0.46539	0.85416	0.77323	1.216	1.028	0.335	0.46539
4117	477363.09	3855377.25	1.13932	0.45348	0.82804	0.8031	1.519	0.974	0.3589	0.45348
4118	477863.09	3855377.25	1.3755	0.49612	0.79042	0.8395	1.904	0.924	0.4325	0.49612
4119	478363.09	3855377.25	1.7879	0.53779	0.87867	0.85214	2.523	0.911	0.4876	0.53779
4120	478863.09	3855377.25	1.96778	0.68152	0.91094	0.8588	3.232	0.94	0.6133	0.68152
4121	479363.09	3855377.25	2.73907	0.7514	1.00396	1.06163	5.118	1.03	0.6811	0.7514
4122	479863.09	3855377.25	3.16196	0.78751	1.16027	1.25421	6.822	1.078	0.7724	0.78751
4123	480363.09	3855377.25	3.99364	0.95705	2.03561	1.68115	11.1	1.321	1.001	0.95705
4124	480863.09	3855377.25	4.47764	1.08968	4.23167	1.79034	11.85	1.565	1.0495	1.08968
4125	481363.09	3855377.25	4.48154	1.21918	6.60536	1.93805	10.03	2.128	1.0741	1.21918
4126	481863.09	3855377.25	4.78342	1.64182	10.19572	1.94883	7.662	2.639	1.1226	1.64182
4127	482363.09	3855377.25	5.9768	2.28417	9.00572	1.99309	6.146	3.47	1.3389	2.28417
4128	482863.09	3855377.25	7.20744	3.16343	14.16094	2.31167	5.597	4.684	1.4947	3.16343
4129	483363.09	3855377.25	7.23501	5.22215	11.18336	2.56788	6.523	11.41	1.8318	5.22215
4130	483863.09	3855377.25	7.69642	9.01343	13.46089	3.24142	7.547	4.689	3.0658	9.01343
4131	484363.09	3855377.25	7.95436	2.68718	16.26143	4.54274	10.03	2.89	4.5815	2.68718
4132	484863.09	3855377.25	8.60527	1.58727	9.93289	7.29141	11.47	4.427	5.1134	1.58727
4133	485363.09	3855377.25	7.95771	1.62395	7.66776	22.20457	10.91	9.237	8.2308	1.62395
4134	485863.09	3855377.25	6.36557	1.67076	7.33189	7.12874	15.06	3.972	3.7096	1.67076
4135	486363.09	3855377.25	5.75115	2.0695	4.70772	4.77285	14.39	2.821	2.8134	2.0695
4136	486863.09	3855377.25	5.11442	2.05765	3.56489	3.67756	14.48	2.087	2.4302	2.05765
4137	487363.09	3855377.25	4.49514	2.10726	3.49964	2.77652	14.74	1.799	2.4037	2.10726
4138	487863.09	3855377.25	3.89584	1.70248	3.57671	2.21647	9.47	1.68	2.0454	1.70248
4139	488363.09	3855377.25	3.61399	1.08094	3.32025	1.94759	12.76	1.537	1.3979	1.08094
4140	488863.09	3855377.25	3.40336	0.73323	3.1317	1.84151	16.13	1.469	1.0675	0.73323
4141	489363.09	3855377.25	3.22138	0.84829	3.08897	1.64348	15.73	1.4	1.1181	0.84829
4142	489863.09	3855377.25	3.235	1.02925	2.74246	1.52702	13.57	1.278	1.2425	1.02925
4143	490363.09	3855377.25	3.13484	1.13718	2.52784	1.44836	15.35	1.255	1.3004	1.13718
4144	490863.09	3855377.25	2.47727	1.12676	1.25733	1.19506	6.078	0.78	1.1923	1.12676
4145	491363.09	3855377.25	2.0002	0.93045	1.11097	0.96349	6.224	0.628	0.9767	0.93045
4146	491863.09	3855377.25	2.78948	0.84767	1.87436	1.32821	14.26	1.113	0.9893	0.84767
4147	492363.09	3855377.25	2.68078	0.84255	2.02905	2.16504	12.14	1.099	0.9917	0.84255
4148	492863.09	3855377.25	2.57174	0.8343	1.83356	2.11871	9.649	1.09	0.9942	0.8343
4149	493363.09	3855377.25	2.4827	0.79837	1.31623	3.15466	6.797	0.951	0.9403	0.79837
4150	493863.09	3855377.25	2.02415	0.65783	1.11962	1.19567	4.639	0.698	0.7141	0.65783
4151	494363.09	3855377.25	1.23984	0.44504	0.857	0.8705	3.563	0.583	0.4486	0.44504
4152	494863.09	3855377.25	1.16094	0.31209	0.7009	0.65135	2.859	0.543	0.3125	0.31209
4153	495363.09	3855377.25	0.94521	0.27102	0.66156	0.80169	2.452	0.482	0.2662	0.27102
4154	495863.09	3855377.25	0.84085	0.25742	0.65238	0.81676	2.231	0.463	0.252	0.25742
4155	496363.09	3855377.25	0.82472	0.25892	0.64687	0.8627	2.038	0.46	0.2538	0.25892
4156	496863.09	3855377.25	0.81522	0.25944	0.63086	0.74869	1.927	0.454	0.2553	0.25944
4157	497363.09	3855377.25	0.8115	0.25926	0.61677	0.61221	1.839	0.452	0.256	0.25926

8.31498374	0.485427474	6.129E-05	0.04179	0.96451	0.06301	1.870606	1.79E+00	9.95E+00
8.13301881	0.484190034	6.261E-05	0.043328	0.955066	0.06265	1.870252	1.78E+00	9.77E+00
8.01146539	0.487089708	6.414E-05	0.039693	0.918678	0.06198	1.88754	1.79E+00	9.61E+00
7.95522738	0.491540798	6.437E-05	0.032188	0.866492	0.0647	1.909363	1.81E+00	9.51E+00
16.6506263	1.003711757	6.546E-05	0.036154	1.343017	0.1114	3.759492	3.70E+00	1.92E+01
17.6601979	1.029180862	6.909E-05	0.037716	1.422771	0.11938	3.8431	3.79E+00	2.03E+01
18.8089559	1.047169918	7.332E-05	0.040208	1.552587	0.12973	3.922314	3.86E+00	2.16E+01
19.6707852	1.071179951	7.71E-05	0.041891	1.606827	0.13693	3.957528	3.94E+00	2.25E+01
20.719066	1.120455928	8.222E-05	0.047856	1.744417	0.15648	4.075358	4.13E+00	2.37E+01
21.5675401	1.214224345	9.975E-05	0.053692	1.822647	0.17979	4.306837	4.47E+00	2.47E+01
22.322006	1.282486718	0.0001028	0.056221	1.839734	0.19693	4.461439	4.72E+00	2.54E+01
21.3980957	1.044787384	9.404E-05	0.045513	1.418443	0.17067	3.551962	3.85E+00	2.38E+01
11.4030664	0.932845219	9.07E-05	0.039804	0.445806	0.15805	2.896779	3.43E+00	1.24E+01
10.3032428	0.901816867	8.98E-05	0.038997	0.447452	0.15362	2.666576	3.32E+00	1.12E+01
10.722889	0.893487232	9.134E-05	0.039858	0.480361	0.15153	2.549171	3.29E+00	1.15E+01
11.2479163	0.859540739	8.892E-05	0.040729	0.570309	0.14457	2.373242	3.16E+00	1.21E+01
11.887402	0.837543854	8.62E-05	0.042303	0.712387	0.13705	2.543149	3.08E+00	1.31E+01
14.3516496	0.916296765	8.229E-05	0.04422	0.892921	0.12992	3.064702	3.37E+00	1.60E+01
18.6545361	0.993258157	9.147E-05	0.044886	1.18298	0.12822	3.454609	3.66E+00	2.08E+01
20.5313625	1.258716784	9.483E-05	0.045236	1.515495	0.13227	4.34531	4.63E+00	2.32E+01
28.5788244	1.38777995	0.0001045	0.05592	2.399867	0.14493	4.825698	5.11E+00	3.23E+01
32.9911611	1.454472436	0.0001208	0.066064	3.19877	0.15158	5.472733	5.35E+00	3.80E+01
41.6687183	1.767600215	0.0002119	0.088553	5.204243	0.18585	7.092234	6.51E+00	4.95E+01
46.7186626	2.012557967	0.0004405	0.094305	5.555281	0.22017	7.436086	7.41E+00	5.46E+01
46.7593543	2.251734841	0.0006877	0.102085	4.702186	0.29939	7.610457	8.29E+00	5.34E+01
49.9091006	3.032319507	0.0010614	0.102653	3.59276	0.37121	7.953955	1.12E+01	5.38E+01
62.3605522	4.218692213	0.0009376	0.104984	2.881771	0.48814	9.486873	1.55E+01	6.40E+01
75.200766	5.842620079	0.0014742	0.121765	2.624681	0.65895	10.59035	2.15E+01	7.35E+01
75.488425	9.644922899	0.0011643	0.135261	3.058961	1.60537	12.97882	3.55E+01	6.74E+01
80.3026705	16.64713526	0.0014014	0.170739	3.538783	0.65956	21.72194	6.13E+01	6.18E+01
82.9939569	4.963021728	0.0016929	0.239285	4.702701	0.40658	32.46151	1.83E+01	1.07E+02
89.7854017	2.931569712	0.0010341	0.384068	5.376318	0.62271	36.23014	1.08E+01	1.25E+02
83.02891	2.999314945	0.0007983	1.169605	5.117048	1.29939	58.31783	1.10E+01	1.41E+02
66.4168886	3.085769536	0.0007633	0.3755	7.06	0.55876	26.28371	1.14E+01	9.24E+01
60.0061721	3.822212679	0.0004901	0.251405	6.748493	0.3969	19.93367	1.41E+01	7.71E+01
53.3626782	3.80032661	0.0003711	0.193712	6.791868	0.29357	17.21884	1.40E+01	6.77E+01
46.9012536	3.891952592	0.0003643	0.146251	6.912333	0.25306	17.03115	1.43E+01	6.08E+01
40.6482957	3.144354018	0.0003724	0.116751	4.440683	0.23632	14.49268	1.16E+01	5.15E+01
37.7075378	1.996415836	0.0003457	0.102588	5.982663	0.21618	9.904342	7.35E+00	4.86E+01
35.509873	1.354221311	0.000326	0.097	7.564056	0.20663	7.563906	4.99E+00	4.73E+01
33.6111356	1.566728579	0.0003216	0.086569	7.376361	0.19694	7.922142	5.77E+00	4.50E+01
33.7532436	1.900948248	0.0002855	0.080434	6.362455	0.17976	8.803773	7.00E+00	4.41E+01
32.7081973	2.100286936	0.0002632	0.076291	7.200062	0.17661	9.21352	7.73E+00	4.37E+01
25.8472636	2.08104197	0.0001309	0.062949	2.850227	0.10977	8.447876	7.66E+00	3.17E+01
20.8696253	1.718471992	0.0001157	0.050751	2.918361	0.08831	6.92013	6.33E+00	2.62E+01
29.1047907	1.565583485	0.0001951	0.069962	6.685484	0.15657	7.009547	5.76E+00	3.88E+01
27.97064	1.556127225	0.0002112	0.114041	5.693359	0.15466	7.026411	5.73E+00	3.68E+01
26.8329418	1.540890088	0.0001909	0.111601	4.524582	0.15334	7.044337	5.67E+00	3.45E+01
25.903919	1.474530049	0.000137	0.166169	3.187277	0.13385	6.662577	5.43E+00	3.21E+01
21.1195141	1.214963115	0.0001166	0.062981	2.175204	0.09823	5.059727	4.47E+00	2.53E+01
12.9362045	0.821955801	8.922E-05	0.045853	1.670548	0.08195	3.178564	3.03E+00	1.57E+01
12.1129801	0.576407033	7.297E-05	0.034309	1.340856	0.07639	2.213892	2.12E+00	1.42E+01
9.86210305	0.500553796	6.887E-05	0.042228	1.15001	0.06775	1.886194	1.84E+00	1.17E+01
8.77323489	0.475435607	6.792E-05	0.043022	1.046149	0.06518	1.78544	1.75E+00	1.04E+01
8.60493819	0.478205995	6.734E-05	0.045442	0.955549	0.06471	1.798406	1.76E+00	1.02E+01
8.50581738	0.479166396	6.568E-05	0.039437	0.903579	0.06381	1.808609	1.76E+00	1.00E+01
8.46700376	0.47883395	6.421E-05	0.032248	0.862399	0.06354	1.813782	1.76E+00	9.95E+00

4158	497863.09	3855377.25	0.81035	0.25875	0.62718	0.55	1.728	0.479	0.2562	0.25875
4159	498363.09	3855377.25	0.89014	0.25848	0.64373	0.54307	1.599	0.493	0.2565	0.25848
4160	471363.09	3855877.25	1.2757	0.53305	0.58152	0.6711	2.377	0.666	0.536	0.53305
4161	471863.09	3855877.25	1.34466	0.5488	0.61974	0.6896	2.522	0.688	0.5538	0.5488
4162	472363.09	3855877.25	1.43841	0.56144	0.67583	0.74024	2.763	0.743	0.5717	0.56144
4163	472863.09	3855877.25	1.52149	0.56313	0.70659	0.7417	2.87	0.777	0.561	0.56313
4164	473363.09	3855877.25	1.65694	0.61352	0.80185	0.81172	3.164	0.893	0.6186	0.61352
4165	473863.09	3855877.25	1.77967	0.65652	0.87504	0.87463	3.508	0.99	0.6608	0.65652
4166	474363.09	3855877.25	1.89365	0.68244	0.91377	0.94245	3.82	1.067	0.6823	0.68244
4167	474863.09	3855877.25	1.85235	0.57551	0.78311	0.77892	3.082	0.956	0.5508	0.57551
4168	475363.09	3855877.25	1.24826	0.5441	0.79403	0.71434	1.73	0.987	0.5008	0.5441
4169	475863.09	3855877.25	0.91342	0.49868	0.64595	0.64481	0.958	0.978	0.454	0.49868
4170	476363.09	3855877.25	0.9313	0.49398	0.67739	0.68541	0.991	1.051	0.4345	0.49398
4171	476863.09	3855877.25	0.9495	0.5247	0.80318	0.75118	1.196	1.139	0.4399	0.5247
4172	477363.09	3855877.25	1.10317	0.52151	0.83167	0.78749	1.231	1.177	0.4214	0.52151
4173	477863.09	3855877.25	1.37419	0.58088	0.88298	0.79543	1.265	1.206	0.4636	0.58088
4174	478363.09	3855877.25	1.4408	0.62388	0.95701	0.80591	1.48	1.179	0.5054	0.62388
4175	478863.09	3855877.25	2.13343	0.68255	1.00906	0.83026	2.13	1.13	0.6068	0.68255
4176	479363.09	3855877.25	2.72841	0.79656	1.08053	1.09077	3.069	1.168	0.7219	0.79656
4177	479863.09	3855877.25	3.37733	0.8541	1.2594	1.32818	4.23	1.276	0.7549	0.8541
4178	480363.09	3855877.25	4.07796	0.8498	2.49263	1.64118	6.624	1.365	0.8283	0.8498
4179	480863.09	3855877.25	4.5912	0.85587	4.00846	2.08465	9.251	1.581	0.9936	0.85587
4180	481363.09	3855877.25	5.08286	0.99452	2.88288	2.07528	11.27	1.61	1.1178	0.99452
4181	481863.09	3855877.25	4.63076	1.56094	6.27871	2.03977	12.92	2.308	1.1157	1.56094
4182	482363.09	3855877.25	5.32717	1.71505	8.01034	1.92713	12.98	2.818	1.1123	1.71505
4183	482863.09	3855877.25	6.94769	2.03957	10.57163	2.004	13.02	3.533	1.1493	2.03957
4184	483363.09	3855877.25	7.77459	3.29824	9.96323	2.23784	10.94	5.277	1.5477	3.29824
4185	483863.09	3855877.25	7.89524	4.87005	12.29249	2.59073	9.008	13.69	1.7008	4.87005
4186	484363.09	3855877.25	8.25114	11.92333	15.41162	3.14868	9.293	4.546	2.7544	11.92333
4187	484863.09	3855877.25	8.20561	3.38998	23.62072	4.40298	11.69	3.399	3.6367	3.38998
4188	485363.09	3855877.25	8.62818	1.86308	21.17329	6.37117	16.57	4.023	4.8981	1.86308
4189	485863.09	3855877.25	8.35662	1.47845	12.64926	42.63594	16.81	11.16	8.5026	1.47845
4190	486363.09	3855877.25	6.63059	1.38129	6.58674	8.07614	23.85	4.221	3.8045	1.38129
4191	486863.09	3855877.25	5.82264	1.73619	5.04817	4.42636	24.02	2.706	2.4515	1.73619
4192	487363.09	3855877.25	4.98934	1.90702	4.86427	3.51704	22.82	2.403	2.1647	1.90702
4193	487863.09	3855877.25	4.43682	1.88222	4.65677	3.02971	17.79	2.093	2.1034	1.88222
4194	488363.09	3855877.25	4.09998	1.7598	4.07552	2.68565	27.92	1.831	2.0161	1.7598
4195	488863.09	3855877.25	3.81416	1.34929	3.46506	2.23058	25.95	1.662	1.6335	1.34929
4196	489363.09	3855877.25	3.58228	0.98071	4.09946	1.83578	22.39	1.45	1.1886	0.98071
4197	489863.09	3855877.25	3.46504	0.78478	3.02287	1.61733	24.9	1.534	1.0293	0.78478
4198	490363.09	3855877.25	3.19174	0.83932	2.74233	1.57252	25.32	1.412	1.0296	0.83932
4199	490863.09	3855877.25	3.07229	0.91371	2.49261	1.7595	21.15	1.408	1.1072	0.91371
4200	491363.09	3855877.25	3.02559	1.00336	1.94183	1.55558	12.75	1.14	1.169	1.00336
4201	491863.09	3855877.25	2.85731	1.01722	2.18958	1.66239	13.97	1.331	1.1271	1.01722
4202	492363.09	3855877.25	2.83996	0.94635	1.76648	5.45865	11.7	1.321	1.0493	0.94635
4203	492863.09	3855877.25	2.77428	0.78669	1.92348	4.58302	10.87	1.132	0.8804	0.78669
4204	493363.09	3855877.25	2.41894	0.72133	1.06113	1.90582	6.523	0.843	0.7472	0.72133
4205	493863.09	3855877.25	1.68351	0.52108	0.85278	1.1501	5.034	0.617	0.524	0.52108
4206	494363.09	3855877.25	1.21297	0.38521	0.65106	0.97809	2.904	0.532	0.3792	0.38521
4207	494863.09	3855877.25	0.99982	0.2934	0.60514	0.89493	2.314	0.492	0.2858	0.2934
4208	495363.09	3855877.25	0.85619	0.25353	0.56449	0.94489	2.017	0.488	0.2526	0.25353
4209	495863.09	3855877.25	0.84396	0.25202	0.54047	0.80403	1.802	0.484	0.2507	0.25202
4210	496363.09	3855877.25	0.83733	0.24876	0.51077	0.65306	1.615	0.483	0.2475	0.24876
4211	496863.09	3855877.25	0.83646	0.24861	0.53514	0.5791	1.505	0.483	0.2473	0.24861
4212	497363.09	3855877.25	0.83422	0.25204	0.55733	0.56376	1.563	0.503	0.2488	0.25204
4213	497863.09	3855877.25	0.90462	0.25524	0.51675	0.56628	1.695	0.519	0.254	0.25524
4214	498363.09	3855877.25	1.0625	0.2695	0.48876	0.60285	2.148	0.555	0.2742	0.2695

8.45500493	0.477892018	6.529E-05	0.028971	0.810063	0.06738	1.815057	1.76E+00	9.89E+00
9.28751538	0.477393348	6.702E-05	0.028606	0.749961	0.06934	1.817253	1.76E+00	1.07E+01
13.3103595	0.98450373	6.054E-05	0.03535	1.114752	0.09365	3.797612	3.62E+00	1.57E+01
14.0298722	1.013592809	6.452E-05	0.036324	1.182755	0.09682	3.924015	3.73E+00	1.66E+01
15.0080381	1.036937949	7.036E-05	0.038991	1.295718	0.10458	4.050913	3.82E+00	1.77E+01
15.8748756	1.040059254	7.356E-05	0.039068	1.345967	0.10934	3.974887	3.83E+00	1.86E+01
17.2881297	1.133125838	8.348E-05	0.042757	1.483529	0.12563	4.382862	4.17E+00	2.03E+01
18.5686662	1.212543642	9.11E-05	0.04607	1.644917	0.13921	4.68229	4.46E+00	2.18E+01
19.7579072	1.260415956	9.513E-05	0.049643	1.791206	0.15009	4.834413	4.64E+00	2.32E+01
19.3269925	1.062924194	8.153E-05	0.041029	1.445303	0.1345	3.902829	3.91E+00	2.20E+01
13.0240568	1.004912258	8.266E-05	0.037627	0.811183	0.13887	3.548207	3.70E+00	1.49E+01
9.53041352	0.921024894	6.725E-05	0.033965	0.449407	0.13754	3.216683	3.39E+00	1.09E+01
9.71696932	0.912344344	7.052E-05	0.036103	0.464549	0.14784	3.078306	3.36E+00	1.10E+01
9.90686392	0.9690819	8.362E-05	0.039568	0.560621	0.16022	3.116496	3.57E+00	1.12E+01
11.5102212	0.963190207	8.658E-05	0.04148	0.577179	0.16557	2.9857	3.55E+00	1.27E+01
14.3379814	1.072842184	9.192E-05	0.041899	0.593281	0.1697	3.284419	3.95E+00	1.56E+01
15.0329748	1.152259988	9.963E-05	0.042451	0.694132	0.16585	3.581012	4.24E+00	1.64E+01
22.2597164	1.260619118	0.000105	0.043733	0.998878	0.1589	4.29968	4.64E+00	2.44E+01
28.4676004	1.471187113	0.0001125	0.057455	1.438982	0.16431	5.114709	5.42E+00	3.13E+01
35.238282	1.577459217	0.0001311	0.069961	1.983674	0.17951	5.34881	5.81E+00	3.86E+01
42.5484937	1.569517436	0.0002595	0.086448	3.106121	0.192	5.868663	5.78E+00	4.76E+01
47.9035215	1.580728275	0.0004173	0.109807	4.338051	0.22248	7.039944	5.82E+00	5.54E+01
53.0333885	1.83680452	0.0003001	0.109313	5.28659	0.22646	7.920087	6.76E+00	6.17E+01
48.3162814	2.882940159	0.0006537	0.107443	6.057198	0.3247	7.904995	1.06E+01	5.50E+01
55.5824626	3.167569874	0.0008339	0.10151	6.088859	0.39638	7.880763	1.17E+01	6.16E+01
72.4905944	3.766934193	0.0011006	0.105559	6.104456	0.497	8.142922	1.39E+01	7.72E+01
81.1182782	6.091604129	0.0010372	0.117876	5.132138	0.74234	10.9658	2.24E+01	8.17E+01
82.3771125	8.99462037	0.0012797	0.136464	4.223987	1.92552	12.05099	3.31E+01	7.66E+01
86.090491	22.02150428	0.0016044	0.165854	4.357689	0.63948	19.51599	8.11E+01	5.17E+01
85.6154414	6.26104109	0.0024591	0.231923	5.482322	0.47815	25.76747	2.31E+01	1.01E+02
90.0244393	3.440970281	0.0022043	0.335595	7.768837	0.5659	34.70452	1.27E+01	1.24E+02
87.1910449	2.73058726	0.0013169	2.245809	7.881884	1.57053	60.24385	1.01E+01	1.52E+02
69.1820462	2.551139962	0.0006857	0.425403	11.18308	0.59378	26.95654	9.39E+00	1.02E+02
60.7520823	3.206613883	0.0005255	0.233154	11.26499	0.38071	17.36997	1.18E+01	8.14E+01
52.0576224	3.522124195	0.0005064	0.185257	10.6993	0.33802	15.33782	1.30E+01	6.92E+01
46.2927562	3.476320439	0.0004848	0.159587	8.339812	0.29447	14.90363	1.28E+01	6.07E+01
42.7782453	3.250219798	0.0004243	0.141464	13.09094	0.25756	14.28501	1.20E+01	6.18E+01
39.7960654	2.49203834	0.0003607	0.117494	12.16738	0.2338	11.57422	9.17E+00	5.72E+01
37.376683	1.811298476	0.0004268	0.096698	10.49796	0.20404	8.421872	6.67E+00	5.17E+01
36.1534279	1.449430329	0.0003147	0.085191	11.67763	0.21576	7.292608	5.34E+00	5.15E+01
33.3018787	1.550161655	0.0002855	0.082831	11.87413	0.1987	7.294733	5.71E+00	4.86E+01
32.055565	1.687554456	0.0002595	0.09268	9.918349	0.1981	7.844628	6.21E+00	4.56E+01
31.568308	1.853131343	0.0002022	0.081939	5.980802	0.16038	8.28307	6.82E+00	4.11E+01
29.8125133	1.878729732	0.0002279	0.087565	6.54931	0.18722	7.986194	6.92E+00	3.96E+01
29.6314874	1.74783811	0.0001839	0.287529	5.488643	0.18581	7.434669	6.44E+00	3.83E+01
28.9461974	1.452957957	0.0002002	0.241406	5.096256	0.15925	6.237739	5.35E+00	3.68E+01
25.2386618	1.332242895	0.0001105	0.100387	3.058947	0.11862	5.294182	4.90E+00	3.02E+01
17.5653549	0.962396029	8.878E-05	0.06058	2.360323	0.08673	3.712375	3.54E+00	2.12E+01
12.6558491	0.711454238	6.778E-05	0.05152	1.361962	0.07478	2.686485	2.62E+00	1.49E+01
10.4318912	0.541887992	6.3E-05	0.04714	1.084877	0.06916	2.024925	2.00E+00	1.22E+01
8.93328891	0.468251066	5.877E-05	0.049771	0.945782	0.06871	1.789479	1.72E+00	1.05E+01
8.80568391	0.465462208	5.627E-05	0.042352	0.844927	0.06803	1.776513	1.71E+00	1.03E+01
8.73650802	0.45944123	5.317E-05	0.034399	0.757422	0.06794	1.753273	1.69E+00	1.01E+01
8.72743064	0.459164191	5.571E-05	0.030504	0.705948	0.06788	1.751997	1.69E+00	1.01E+01
8.704059	0.465499146	5.802E-05	0.029696	0.732813	0.07079	1.762554	1.71E+00	1.01E+01
9.43859635	0.471409309	5.38E-05	0.029828	0.79464	0.07298	1.799611	1.74E+00	1.09E+01
11.0858798	0.497746469	5.088E-05	0.031755	1.007252	0.07814	1.942452	1.83E+00	1.28E+01

4215	471363.09	3856377.25	1.08006	0.41872	0.60825	0.63645	2.243	0.681	0.4297	0.41872	11.2690968	0.773344717	6.332E-05	0.033524	1.051697	0.09576	3.04458	2.85E+00	1.34E+01
4216	471863.09	3856377.25	1.12604	0.45789	0.6144	0.65339	2.312	0.676	0.4769	0.45789	11.7488415	0.845688796	6.396E-05	0.034417	1.084244	0.09504	3.378654	3.11E+00	1.41E+01
4217	472363.09	3856377.25	1.21324	0.4992	0.65065	0.70087	2.433	0.705	0.5274	0.4992	12.6586662	0.921985296	6.774E-05	0.036918	1.14103	0.09923	3.737103	3.39E+00	1.52E+01
4218	472863.09	3856377.25	1.3097	0.5623	0.70113	0.76151	2.58	0.748	0.5831	0.5623	13.6651076	1.038526306	7.299E-05	0.040112	1.209957	0.10527	4.131686	3.82E+00	1.64E+01
4219	473363.09	3856377.25	1.40423	0.61417	0.78108	0.80948	2.71	0.779	0.6322	0.61417	14.6514118	1.13432634	8.132E-05	0.042639	1.270879	0.10965	4.479578	4.18E+00	1.75E+01
4220	473863.09	3856377.25	1.52608	0.65852	0.90012	0.8956	2.912	0.86	0.6753	0.65852	15.9227666	1.216237494	9.371E-05	0.047175	1.365591	0.12099	4.784602	4.48E+00	1.90E+01
4221	474363.09	3856377.25	1.59393	0.62865	0.89486	0.87437	2.927	0.82	0.6674	0.62865	16.6306978	1.161069824	9.316E-05	0.046057	1.372569	0.11532	4.728912	4.27E+00	1.98E+01
4222	474863.09	3856377.25	1.64073	0.588	0.80351	0.81755	2.846	0.782	0.6306	0.588	17.1189983	1.085992295	8.365E-05	0.043064	1.334689	0.10998	4.468029	4.00E+00	2.02E+01
4223	475363.09	3856377.25	1.54642	0.5743	0.72814	0.66638	2.433	0.763	0.5821	0.5743	16.1349895	1.060689414	7.58E-05	0.035101	1.140815	0.10731	4.124318	3.91E+00	1.87E+01
4224	475863.09	3856377.25	1.09537	0.56038	0.67116	0.58937	1.838	0.802	0.5427	0.56038	11.4288378	1.034980208	6.987E-05	0.031045	0.861822	0.11285	3.845438	3.81E+00	1.35E+01
4225	476363.09	3856377.25	1.13046	0.56203	0.75237	0.65025	1.807	0.869	0.5374	0.56203	11.7949588	1.038027636	7.833E-05	0.034251	0.847187	0.1222	3.807531	3.82E+00	1.38E+01
4226	476863.09	3856377.25	1.18396	0.56189	0.81309	0.71003	1.832	0.949	0.5296	0.56189	12.3531655	1.037769066	8.465E-05	0.0374	0.858971	0.13344	3.75262	3.82E+00	1.44E+01
4227	477363.09	3856377.25	1.23074	0.57477	0.87789	0.75895	1.882	1.035	0.537	0.57477	12.8412572	1.061557469	9.139E-05	0.039977	0.882529	0.14558	3.804484	3.91E+00	1.49E+01
4228	477863.09	3856377.25	0.9458	0.5634	0.79008	0.7754	1.705	1.071	0.5188	0.5634	9.86825897	1.040557924	8.225E-05	0.040843	0.799296	0.15073	3.675531	3.83E+00	1.17E+01
4229	478363.09	3856377.25	0.95105	0.55171	0.83417	0.78105	1.411	1.157	0.4881	0.55171	9.92303626	1.018967363	8.684E-05	0.041141	0.66172	0.1627	3.458081	3.75E+00	1.15E+01
4230	478863.09	3856377.25	1.33466	0.66674	1.09878	0.88651	2.23	1.298	0.588	0.66674	13.9255345	1.231419223	0.0001144	0.046696	1.04569	0.18266	4.16598	4.53E+00	1.61E+01
4231	479363.09	3856377.25	1.94765	0.71554	1.48021	0.88025	2.893	1.352	0.6285	0.71554	20.3213307	1.321549196	0.0001541	0.046366	1.356353	0.19021	4.453149	4.87E+00	2.28E+01
4232	479863.09	3856377.25	3.20765	0.85494	1.66552	1.2177	5.579	1.69	0.7621	0.85494	33.46788	1.579010634	0.0001734	0.064141	2.616011	0.23778	5.399895	5.81E+00	3.76E+01
4233	480363.09	3856377.25	3.92783	0.83902	2.2809	1.47193	8.602	1.936	0.7718	0.83902	40.9820719	1.549607578	0.0002375	0.077533	4.033784	0.27229	5.468694	5.71E+00	4.67E+01
4234	480863.09	3856377.25	4.34016	0.89135	3.07605	1.9078	10.33	1.977	0.8735	0.89135	45.284228	1.646257198	0.0003202	0.100492	4.844859	0.27815	6.188779	6.06E+00	5.23E+01
4235	481363.09	3856377.25	4.56267	1.09881	4.70149	2.14605	11.02	2.025	0.956	1.09881	47.605846	2.029420398	0.0004895	0.113041	5.165346	0.2849	6.773888	7.47E+00	5.45E+01
4236	481863.09	3856377.25	4.60439	1.3718	6.70075	2.2853	10.52	2.466	1.062	1.3718	48.0411429	2.533612637	0.0006976	0.120376	4.931135	0.34697	7.524511	9.33E+00	5.42E+01
4237	482363.09	3856377.25	4.94238	1.58672	8.05772	2.26602	10.7	2.606	1.1772	1.58672	51.5676526	2.930553903	0.0008389	0.119361	5.018683	0.3666	8.340958	1.08E+01	5.76E+01
4238	482863.09	3856377.25	5.94037	1.80568	10.76407	2.26296	12.11	2.801	1.1654	1.80568	61.9804499	3.334956748	0.0011206	0.119199	5.679305	0.39404	8.256996	1.23E+01	6.75E+01
4239	483363.09	3856377.25	8.1158	2.18954	11.47902	2.24921	14.52	3.548	1.2263	2.18954	84.6783846	4.043917636	0.001195	0.118475	6.809152	0.49906	8.688565	1.49E+01	9.00E+01
4240	483863.09	3856377.25	8.46711	2.60638	18.09419	2.27724	16.84	5.163	1.3109	2.60638	88.3438721	4.813790134	0.0018837	0.119952	7.894705	0.72636	9.288412	1.77E+01	9.35E+01
4241	484363.09	3856377.25	8.37225	4.34253	18.99558	2.5767	17.75	15.9	1.704	4.34253	87.3541247	8.02033014	0.0019776	0.135725	8.32121	2.23701	12.07331	2.95E+01	8.86E+01
4242	484863.09	3856377.25	8.53927	15.732	27.79688	3.0058	18.09	5.311	2.4614	15.732	89.0967729	29.05583468	0.0028938	0.158328	8.484549	0.74714	17.44012	1.07E+02	3.80E+01
4243	485363.09	3856377.25	8.53632	4.30189	18.31237	4.10428	18.57	4.283	3.2091	4.30189	89.0659933	7.94527108	0.0019064	0.216189	8.708988	0.60245	22.73791	2.93E+01	1.00E+02
4244	485863.09	3856377.25	8.73198	2.32163	14.24959	5.8268	22.18	3.705	4.7004	2.32163	91.1074646	4.287878048	0.0014835	0.306921	10.3996	0.52119	33.30396	1.58E+01	1.24E+02
4245	486363.09	3856377.25	9.45887	1.35813	8.2173	21.35313	30.27	15.55	8.5573	1.35813	98.6916671	2.508365163	0.0008555	1.124756	14.1923	2.18758	60.63184	9.24E+00	1.70E+02
4246	486863.09	3856377.25	6.77605	1.25645	5.59906	8.94663	40.57	4.698	3.9925	1.25645	70.6997422	2.320569761	0.0005829	0.471255	19.02506	0.66087	28.28809	8.54E+00	1.13E+02
4247	487363.09	3856377.25	5.62298	1.44111	5.11695	4.91115	42.62	3.014	2.7875	1.44111	58.6688759	2.661623056	0.0005327	0.25869	19.98587	0.42395	19.75073	9.80E+00	9.20E+01
4248	487863.09	3856377.25	4.79415	1.64385	5.21457	3.56123	40.76	2.573	2.1179	1.64385	50.0210549	3.036068766	0.0005429	0.187584	19.11105	0.36197	15.00616	1.12E+01	7.65E+01
4249	488363.09	3856377.25	4.28825	1.60206	4.92108	3.1014	46.19	2.241	1.8643	1.60206	44.7426111	2.958885742	0.0005123	0.163363	21.65891	0.3152	13.20888	1.09E+01	7.22E+01
4250	488863.09	3856377.25	3.93374	1.62556	5.2569	2.93482	43.25	2.077	1.8002	1.62556	41.0437355	3.002288496	0.0005473	0.154589	20.27849	0.29223	12.75528	1.11E+01	6.65E+01
4251	489363.09	3856377.25	3.6549	1.45226	4.34672	2.33656	38.34	2.191	1.5737	1.45226	38.1343833	2.682216277	0.0004525	0.123076	17.97631	0.30827	11.15016	9.88E+00	6.05E+01
4252	489863.09	3856377.25	3.4348	1.14167	3.68931	2.12519	31.71	2.008	1.2985	1.14167	35.8379107	2.108579632	0.0003841	0.111942	14.86808	0.28243	9.199987	7.76E+00	5.46E+01
4253	490363.09	3856377.25	3.33508	0.90533	3.51855	2.45859	24.88	1.867	1.051	0.90533	34.7974552	1.672077219	0.0003663	0.129504	11.66596	0.26265	7.446502	6.16E+00	4.98E+01
4254	490863.09	3856377.25	3.2626	0.77974	3.20258	1.91623	21.58	1.815	0.9817	0.77974	34.0412156	1.440121824	0.0003334	0.100936	10.11866	0.25535	6.955982	5.30E+00	4.76E+01
4255	491363.09	3856377.25	3.22682	0.78886	2.81282	2.43073	19.07	1.774	0.9639	0.78886	33.6678953	1.456965786	0.0002928	0.128036	8.940254	0.24954	6.82965	5.36E+00	4.59E+01
4256	491863.09	3856377.25	3.24001	0.82033	2.61852	3.42544	17.89	1.514	0.9967	0.82033	33.8055168	1.515088537	0.0002726	0.180432	8.391037	0.21292	7.062263	5.58E+00	4.56E+01
4257	492363.09	3856377.25	3.24457	0.88746	2.05033	5.77105	15.85	1.182	1.0726	0.88746	33.8530948	1.639072657	0.0002135	0.303985	7.433902	0.16634	7.599758	6.03E+00	4.50E+01
4258	492863.09	3856377.25	2.99803	0.9707	1.33171	5.65743	9.521	1.001	1.0838	0.9707	31.2807533	1.79281075	0.0001386	0.298	4.464744	0.14086	7.678831	6.60E+00	3.91E+01
4259	493363.09	3856377.25	1.86971	0.76946	0.71108	1.35226	4.826	0.665	0.7749	0.76946	19.5081227	1.421135428	7.403E-05	0.071229	2.262906	0.09357	5.490304	5.23E+00	2.36E+01
4260	493863.09	3856377.25	1.26001	0.56483	0.66056	1.2083	4.144	0.589	0.571	0.56483	13.1466536	1.043199027	6.877E-05	0.063646	1.943028	0.08286	4.045812	3.84E+00	1.65E+01
4261	494363.09	3856377.25	1.08612	0.38023	0.55226	1.04028	3.139	0.569	0.3732	0.38023	11.3323255	0.702256548	5.749E-05	0.054796	1.471712	0.08	2.643902	2.59E+00	1.37E+01
4262	494863.09	3856377.25	0.84432	0.28612	0.44381	0.8863	2.702	0.521	0.3024	0.28612	8.80944007	0.528442373	4.62E-05	0.046685	1.267099	0.07333	2.142471	1.95E+00	1.09E+01
4263	495363.09	3856377.25	0.81972	0.25869	0.38384	0.71674	2.775	0.512	0.272	0.25869	8.55276934	0.477781202	3.996E-05	0.037754	1.301213	0.07203	1.927218	1.76E+00	1.06E+01
4264	495863.09	3856377.25	0.81367	0.25252	0.43604	0.66384	2.843	0.503	0.2631	0.25252	8.48964504	0.466385671	4.539E-05	0.034967	1.333095	0.07082	1.863804	1.72E+00	1.05E+01
4265	496363.09	3856377.25	0.80638	0.25165	0.44857	0.66525	2.881	0.5	0.2596	0.25165	8.41358286	0.464778845	4.67E-05	0.035041	1.351177	0.07041	1.839643	1.71E+00	1.05E+01
4266	496863.09	3856377.25	0.79829	0.25253	0.40761	0.694	2.895	0.498	0.2585	0.25253	8.32917367	0.46640414	4.243E-05	0.036556	1.357535	0.07008	1.831495	1.72E+00	1.04E+01
4267	497363.09	3856377.25	0.87176	0.25356	0.36955	0.7106	2.905	0.527	0.2562	0.25356	9.0957427	0.468306473	3.847E-05	0.03743	1.362187	0.07411	1.815482	1.72E+00	1.11E+01
4268	497863.09	3856377.25	0.89661	0.26721	0.40845	0.71641	3.019	0.55	0.2748	0.26721	9.35502186	0.493517009	4.252E-05	0.037736	1.415817	0.07736	1.946915	1.82E+00	1.15E+01
4269	498363.09	3856377.25	1.00988	0.28632	0.43417	0.73935	3.224	1.674	0.293	0.28632	10.5368549	0.528811758	4.52E-05	0.038945	1.511589	0.23545	2.07594	1.95E+00	1.30E+01
4270	471363.09	3856877.25	1.17427	0.41401	0.68948	0.67287	1.843	0.789	0.436	0.41401	12.2520622	0.764645698	7.178E-05	0.035443	0.864026	0.11093	3.089146	2.82E+00	1.43E+01
4271	471863.09	3856877.25	1.22159	0.41182	0.69698	0.67961	1.903	0.769	0.4392	0.41182	12.7457882	0.76060093	7.256E-05	0.035798	0.892494	0.10821	3.111749	2.80E+00	1.49E+01

4272	472363.09	3856877.25	1.28349	0.42028	0.75775	0.71273	2.003	0.79	0.4494	0.42028
4273	472863.09	3856877.25	1.34606	0.4379	0.81565	0.74282	2.105	0.808	0.4747	0.4379
4274	473363.09	3856877.25	1.42138	0.4739	0.94536	0.80974	2.252	0.887	0.5076	0.4739
4275	473863.09	3856877.25	1.48591	0.51901	0.93522	0.83699	2.364	0.905	0.5562	0.51901
4276	474363.09	3856877.25	1.52829	0.54475	0.81141	0.78656	2.399	0.807	0.5965	0.54475
4277	474863.09	3856877.25	1.54425	0.55224	0.64236	0.71445	2.354	0.692	0.6052	0.55224
4278	475363.09	3856877.25	1.45023	0.5751	0.56484	0.61593	2.147	0.627	0.5894	0.5751
4279	475863.09	3856877.25	1.46888	0.58192	0.54658	0.5978	2.163	0.648	0.6006	0.58192
4280	476363.09	3856877.25	1.33345	0.58051	0.55415	0.59063	1.972	0.688	0.5939	0.58051
4281	476863.09	3856877.25	1.10406	0.58606	0.64228	0.61909	1.929	0.744	0.5846	0.58606
4282	477363.09	3856877.25	1.13697	0.58849	0.77094	0.5771	1.801	0.767	0.5827	0.58849
4283	477863.09	3856877.25	0.87978	0.56796	0.6628	0.60512	1.404	0.798	0.5586	0.56796
4284	478363.09	3856877.25	0.90375	0.56763	0.67836	0.66808	1.39	0.868	0.5509	0.56763
4285	478863.09	3856877.25	0.98107	0.61315	0.85665	0.73207	1.519	0.952	0.597	0.61315
4286	479363.09	3856877.25	1.30089	0.66161	0.96117	0.80244	1.919	1.091	0.6294	0.66161
4287	479863.09	3856877.25	2.57075	0.79901	1.60103	1.04859	3.94	1.379	0.7885	0.79901
4288	480363.09	3856877.25	3.3265	0.85733	2.52589	1.51798	5.592	2.015	0.805	0.85733
4289	480863.09	3856877.25	3.53038	1.12498	4.14834	2.05207	6.606	2.661	0.9715	1.12498
4290	481363.09	3856877.25	3.64765	1.24342	4.90771	2.08537	7.197	3.276	0.9157	1.24342
4291	481863.09	3856877.25	3.94788	1.33541	5.35837	2.1177	8.217	3.26	0.9657	1.33541
4292	482363.09	3856877.25	4.31334	1.57172	6.82077	2.14021	8.9	3.088	1.0936	1.57172
4293	482863.09	3856877.25	5.30648	1.63003	7.0934	2.25102	10.34	2.818	1.0961	1.63003
4294	483363.09	3856877.25	7.18857	1.76837	7.32468	2.41555	12.19	3.143	1.2199	1.76837
4295	483863.09	3856877.25	9.04963	2.11952	8.89664	2.59602	14.38	3.525	1.3489	2.11952
4296	484363.09	3856877.25	9.02063	2.81027	12.34597	2.74647	17	4.765	1.3877	2.81027
4297	484863.09	3856877.25	8.89165	3.97277	7.77851	2.86506	20.49	10.76	1.5395	3.97277
4298	485363.09	3856877.25	8.99755	9.34241	14.78124	3.32936	26.48	6.511	2.3204	9.34241
4299	485863.09	3856877.25	8.9856	5.80842	12.40415	4.03793	35.22	4.215	3.138	5.80842
4300	486363.09	3856877.25	9.15442	2.007	8.53343	6.14849	55.49	3.742	5.1201	2.007
4301	486863.09	3856877.25	9.67414	1.47741	6.50462	15.39664	81.46	15.28	8.3188	1.47741
4302	487363.09	3856877.25	6.81603	1.44618	5.83997	9.03931	89.61	5.019	3.9051	1.44618
4303	487863.09	3856877.25	5.42397	1.40284	5.50275	5.6249	93.75	3.563	2.7083	1.40284
4304	488363.09	3856877.25	4.59583	1.50561	8.04615	3.84934	68.52	3.89	2.0635	1.50561
4305	488863.09	3856877.25	4.03867	1.40206	6.25826	3.79151	51.36	3.272	1.7644	1.40206
4306	489363.09	3856877.25	3.664	1.42957	6.82719	2.71084	39.97	2.894	1.6001	1.42957
4307	489863.09	3856877.25	3.52999	1.41188	3.77639	2.50266	34.23	3.122	1.4931	1.41188
4308	490363.09	3856877.25	3.50862	1.25782	5.02512	2.71272	29.1	2.761	1.3445	1.25782
4309	490863.09	3856877.25	3.5191	1.01905	3.90828	3.09924	24.28	2.11	1.1162	1.01905
4310	491363.09	3856877.25	3.51907	0.81261	3.17008	4.8175	20.44	1.647	0.9259	0.81261
4311	491863.09	3856877.25	3.40591	0.73327	2.81186	26.52344	17.44	1.493	0.8805	0.73327
4312	492363.09	3856877.25	3.21237	0.55873	1.6919	10.19789	12.65	1.188	0.8591	0.55873
4313	492863.09	3856877.25	2.64325	0.54041	1.41156	2.73594	9.408	0.97	0.6917	0.54041
4314	493363.09	3856877.25	1.84256	0.54437	0.90019	1.62129	6.499	0.691	0.5999	0.54437
4315	493863.09	3856877.25	1.09211	0.39108	0.70519	1.22403	5.371	0.611	0.398	0.39108
4316	494363.09	3856877.25	0.88397	0.27579	0.51429	0.93845	4.183	0.534	0.2852	0.27579
4317	494863.09	3856877.25	0.81085	0.27068	0.53839	0.9051	3.862	0.534	0.2887	0.27068
4318	495363.09	3856877.25	0.75269	0.27438	0.53851	0.88031	4.522	0.537	0.2972	0.27438
4319	495863.09	3856877.25	0.74624	0.28283	0.45222	0.86062	3.547	0.524	0.3045	0.28283
4320	496363.09	3856877.25	0.7844	0.28294	0.40746	0.81168	3.392	0.509	0.3021	0.28294
4321	496863.09	3856877.25	0.77505	0.28035	0.44248	0.75902	3.241	0.557	0.2959	0.28035
4322	497363.09	3856877.25	0.82687	0.2822	0.48132	0.74299	3.173	0.574	0.2923	0.2822
4323	497863.09	3856877.25	0.97029	0.31387	0.53746	0.74796	3.196	2.032	0.3057	0.31387
4324	498363.09	3856877.25	1.00687	0.33978	0.56588	0.80333	3.871	1.561	0.3421	0.33978
4325	471363.09	3857377.25	1.21143	0.40819	0.75561	0.64439	1.303	0.78	0.4426	0.40819
4326	471863.09	3857377.25	1.26098	0.4048	0.68829	0.64357	1.343	0.778	0.44	0.4048
4327	472363.09	3857377.25	1.32057	0.41417	0.66378	0.65632	1.386	0.804	0.4476	0.41417
4328	472863.09	3857377.25	1.38504	0.43628	0.67347	0.67242	1.433	0.843	0.4666	0.43628

13.3916385	0.776225922	7.889E-05	0.037542	0.939053	0.11119	3.18409	2.86E+00	1.56E+01		
14.0444795	0.808768752	8.491E-05	0.039127	0.98685	0.11373	3.363067	2.98E+00	1.64E+01		
14.830351	0.875258076	9.842E-05	0.042652	1.056198	0.12475	3.596671	3.22E+00	1.73E+01		
15.5036421	0.958572893	9.736E-05	0.044088	1.108478	0.12728	3.941019	3.53E+00	1.82E+01		
15.9458252	1.00611276	8.447E-05	0.041431	1.124867	0.11346	4.226347	3.70E+00	1.88E+01		
16.1123482	1.019946233	6.687E-05	0.037633	1.103742	0.09739	4.288131	3.76E+00	1.89E+01		
15.1313652	1.062166954	5.88E-05	0.032444	1.006676	0.08814	4.176041	3.91E+00	1.76E+01		
15.325955	1.074762987	5.69E-05	0.031489	1.014169	0.0912	4.255751	3.96E+00	1.78E+01		
13.9129096	1.072158822	5.769E-05	0.031111	0.92491	0.09681	4.208208	3.95E+00	1.63E+01		
11.5195073	1.082409259	6.687E-05	0.03261	0.904658	0.10468	4.142314	3.99E+00	1.38E+01		
11.8628826	1.086897289	8.026E-05	0.030398	0.844378	0.10793	4.128711	4.00E+00	1.41E+01		
9.17942153	1.048979905	6.9E-05	0.031874	0.658372	0.11225	3.957812	3.86E+00	1.11E+01		
9.42951898	1.048370419	7.062E-05	0.03519	0.651596	0.12216	3.903609	3.86E+00	1.13E+01		
10.236258	1.132442476	8.918E-05	0.038561	0.71234	0.13395	4.230102	4.17E+00	1.23E+01		
13.5731861	1.221944494	0.0001001	0.042268	0.89964	0.15344	4.459597	4.50E+00	1.59E+01		
26.8226123	1.475712081	0.0001667	0.055234	1.847481	0.19405	5.58709	5.43E+00	3.05E+01		
34.7079335	1.583424787	0.000263	0.079958	2.622121	0.28342	5.703715	5.83E+00	3.92E+01		
36.8351703	2.077754443	0.0004319	0.108091	3.097502	0.3743	6.883357	7.65E+00	4.17E+01		
38.0587385	2.296504319	0.0005109	0.109845	3.37475	0.46092	6.487923	8.46E+00	4.23E+01		
41.191269	2.466403012	0.0005578	0.111548	3.853254	0.45861	6.842191	9.08E+00	4.58E+01		
45.0043943	2.902850018	0.0007101	0.112734	4.173601	0.43439	7.748551	1.07E+01	4.97E+01		
55.3665879	3.010544254	0.0007385	0.11857	4.847007	0.39644	7.766406	1.11E+01	6.04E+01		
75.0038807	3.266047951	0.0007625	0.127237	5.71499	0.44208	8.643432	1.20E+01	8.12E+01		
94.4217514	3.914595901	0.0009262	0.136743	6.742758	0.49593	9.557301	1.44E+01	1.01E+02		
94.1191721	5.190359809	0.0012853	0.144668	7.972086	0.67029	9.832497	1.91E+01	9.88E+01		
92.7734245	7.337410903	0.0008098	0.150914	9.606958	1.51329	10.90763	2.70E+01	9.53E+01		
93.8783607	17.25473687	0.0015388	0.175371	12.41832	0.91589	16.44066	6.35E+01	7.76E+01		
93.7536771	10.72772001	0.0012913	0.212694	16.51739	0.59297	22.23407	3.95E+01	1.05E+02		
95.5151061	3.706779824	0.0008884	0.323866	26.01957	0.52641	36.27754	1.36E+01	1.49E+02		
100.937745	2.728666457	0.0006772	0.811004	38.19637	2.14971	58.94184	1.00E+01	1.94E+02		
71.1168843	2.670986969	0.000608	0.476137	42.01942	0.70598	27.66869	9.83E+00	1.35E+02		
56.5924515	2.59094121	0.0005729	0.296286	43.95931	0.50118	19.18914	9.54E+00	1.14E+02		
47.9518298	2.780749761	0.0008377	0.20276	32.1318	0.54719	14.62036	1.02E+01	8.80E+01		
42.1385509	2.589500608	0.0006515	0.199714	24.08233	0.4603	12.50134	9.53E+00	7.24E+01		
38.2293306	2.640309533	0.0007108	0.142791	18.74421	0.40718	11.33721	9.72E+00	6.18E+01		
36.8311012	2.607637418	0.0003931	0.131825	16.04944	0.43926	10.57908	9.60E+00	5.70E+01		
36.6081315	2.323100049	0.0005231	0.14289	13.6464	0.38837	9.526551	8.55E+00	5.41E+01		
36.7174774	1.882109606	0.0004069	0.16325	11.38432	0.29684	7.90868	6.93E+00	5.14E+01		
36.7171644	1.500830271	0.00033	0.253757	9.586059	0.23164	6.560123	5.53E+00	4.93E+01		
35.5364791	1.354295188	0.0002927	1.397098	8.177754	0.21008	6.238306	4.99E+00	4.79E+01		
33.5171274	1.031932781	0.0001761	0.537164	5.933666	0.16709	6.087104	3.80E+00	4.35E+01		
27.5790606	0.998097103	0.000147	0.144113	4.411442	0.13646	4.90059	3.67E+00	3.45E+01		
19.2248459	1.005410928	9.372E-05	0.0854	3.04736	0.09722	4.250154	3.70E+00	2.40E+01		
11.3948238	0.722295692	7.341E-05	0.064475	2.518612	0.08594	2.820257	2.66E+00	1.49E+01		
9.22313902	0.509363631	5.354E-05	0.049432	1.961489	0.07509	2.020391	1.88E+00	1.20E+01		
8.46022181	0.499925841	5.605E-05	0.047675	1.810825	0.07518	2.045473	1.84E+00	1.11E+01		
7.85339379	0.506759466	5.606E-05	0.04637	2.120499	0.07556	2.106053	1.87E+00	1.08E+01		
7.78609598	0.522365988	4.708E-05	0.045332	1.663041	0.07365	2.157563	1.92E+00	1.03E+01		
8.18424861	0.52256915	4.242E-05	0.042754	1.590494	0.07158	2.140558	1.92E+00	1.06E+01		
8.08669287	0.517785612	4.606E-05	0.039981	1.519964	0.07842	2.096275	1.91E+00	1.04E+01		
8.62737079	0.521202425	5.011E-05	0.039136	1.488101	0.08071	2.070909	1.92E+00	1.09E+01		
10.123782	0.579694561	5.595E-05	0.039398	1.498539	0.28587	2.166207	2.13E+00	1.26E+01		
10.5054493	0.627548405	5.891E-05	0.042315	1.814961	0.21954	2.423831	2.31E+00	1.33E+01		
12.6397811	0.75389659	7.866E-05	0.033943	0.611006	0.10973	3.135981	2.78E+00	1.45E+01		
13.1567744	0.747635512	7.166E-05	0.033899	0.62966	0.10939	3.117275	2.75E+00	1.50E+01		
13.7785227	0.764941206	6.91E-05	0.034571	0.649795	0.11317	3.171407	2.82E+00	1.57E+01		
14.4511878	0.805776732	7.011E-05	0.035419	0.672097	0.11858	3.306242	2.97E+00	1.64E+01		

4329	473363.09	3857377.25	1.45308	0.46606	0.77005	0.7121	1.488	0.9	0.4922	0.46606
4330	473863.09	3857377.25	1.52011	0.48758	0.97387	0.7701	1.545	0.973	0.5081	0.48758
4331	474363.09	3857377.25	1.56262	0.44574	0.8442	0.70769	1.615	0.829	0.4741	0.44574
4332	474863.09	3857377.25	1.39318	0.39602	0.61392	0.62176	1.67	0.64	0.4356	0.39602
4333	475363.09	3857377.25	0.93812	0.39955	0.54867	0.51129	1.684	0.523	0.4084	0.39955
4334	475863.09	3857377.25	0.81776	0.43286	0.58377	0.49659	1.742	0.527	0.4351	0.43286
4335	476363.09	3857377.25	1.11951	0.5071	0.78827	0.56445	1.854	0.623	0.5311	0.5071
4336	476863.09	3857377.25	1.17378	0.55641	0.92165	0.54464	1.938	0.626	0.5657	0.55641
4337	477363.09	3857377.25	1.11747	0.55722	0.75769	0.50961	1.986	0.577	0.5709	0.55722
4338	477863.09	3857377.25	0.87926	0.58149	0.63215	0.45807	2.016	0.594	0.5837	0.58149
4339	478363.09	3857377.25	0.80587	0.585	0.54763	0.45212	1.818	0.648	0.5772	0.585
4340	478863.09	3857377.25	0.80858	0.57708	0.52998	0.45167	1.688	0.629	0.5721	0.57708
4341	479363.09	3857377.25	0.95922	0.65002	0.68661	0.54563	2.265	0.778	0.6435	0.65002
4342	479863.09	3857377.25	2.24826	0.7815	0.95593	0.73302	2.7	0.915	0.7862	0.7815
4343	480363.09	3857377.25	1.87275	0.7473	1.02454	0.72955	2.744	0.957	0.7435	0.7473
4344	480863.09	3857377.25	3.34814	1.1568	4.34437	1.98717	4.477	2.202	1.1242	1.1568
4345	481363.09	3857377.25	3.67131	1.21612	3.80517	2.22248	5.056	2.484	1.1309	1.21612
4346	481863.09	3857377.25	3.73359	1.32434	5.21429	2.55643	5.866	3.062	1.1746	1.32434
4347	482363.09	3857377.25	3.65122	1.54775	5.27633	2.43732	6.451	3.981	1.1769	1.54775
4348	482863.09	3857377.25	3.99945	1.57219	7.22831	2.43717	7.478	4.283	1.1347	1.57219
4349	483363.09	3857377.25	4.47663	1.65661	6.48773	2.45404	8.98	4.441	1.1692	1.65661
4350	483863.09	3857377.25	5.23527	1.90882	10.20903	2.51302	11	4.432	1.2549	1.90882
4351	484363.09	3857377.25	6.56721	2.10079	7.54859	2.6121	13.51	4.576	1.3263	2.10079
4352	484863.09	3857377.25	7.08629	2.74072	6.2863	2.87096	16.68	5.367	1.5801	2.74072
4353	485363.09	3857377.25	8.86582	3.75981	6.74533	3.26656	20.71	9.546	1.6462	3.75981
4354	485863.09	3857377.25	8.86279	6.06594	8.99618	3.67831	26.07	9.482	2.1494	6.06594
4355	486363.09	3857377.25	8.9965	8.10753	10.89342	4.97585	37.3	4.493	3.0344	8.10753
4356	486863.09	3857377.25	9.2284	2.99543	10.42726	6.42708	62.94	3.69	5.0694	2.99543
4357	487363.09	3857377.25	9.48559	2.0492	6.73656	13.69975	89.51	9.009	8.7281	2.0492
4358	487863.09	3857377.25	6.85691	1.85772	8.88949	9.57444	90.96	6.038	3.6704	1.85772
4359	488363.09	3857377.25	5.23853	1.68519	9.31424	5.78342	95.9	4.719	2.644	1.68519
4360	488863.09	3857377.25	4.7042	1.58964	7.50714	5.28496	62.96	5.126	2.1321	1.58964
4361	489363.09	3857377.25	4.20411	1.35788	9.00305	3.53885	43.95	4.867	1.7031	1.35788
4362	489863.09	3857377.25	3.99448	1.28136	6.88891	4.67942	36.46	3.49	1.5316	1.28136
4363	490363.09	3857377.25	3.98179	1.32006	6.14304	4.06451	30.9	2.871	1.4567	1.32006
4364	490863.09	3857377.25	3.74491	1.29307	5.05014	4.82548	26.13	2.457	1.3401	1.29307
4365	491363.09	3857377.25	3.35559	1.12348	4.23177	9.56729	22.19	2.298	1.1895	1.12348
4366	491863.09	3857377.25	3.25755	0.89266	3.31663	9.90119	19.61	1.778	1.0467	0.89266
4367	492363.09	3857377.25	3.24433	0.61385	1.67409	2.96748	11.85	1.207	0.7568	0.61385
4368	492863.09	3857377.25	2.29405	0.49372	1.20524	1.45467	5.091	0.843	0.5163	0.49372
4369	493363.09	3857377.25	1.33372	0.4413	0.86605	1.07935	4.08	0.735	0.4262	0.4413
4370	493863.09	3857377.25	1.10239	0.40713	0.89102	1.06061	3.478	0.803	0.3922	0.40713
4371	494363.09	3857377.25	0.97196	0.34109	0.86182	0.95485	2.753	0.818	0.3256	0.34109
4372	494863.09	3857377.25	0.89341	0.301	0.77656	0.82803	2.602	0.777	0.2958	0.301
4373	495363.09	3857377.25	0.87856	0.27813	0.73679	0.75464	2.466	0.638	0.2768	0.27813
4374	495863.09	3857377.25	0.86388	0.29761	0.75431	0.73624	2.343	0.67	0.2887	0.29761
4375	496363.09	3857377.25	0.84907	0.33334	0.76446	0.73546	2.231	0.705	0.3199	0.33334
4376	496863.09	3857377.25	0.90055	0.34784	0.74982	0.7423	2.129	0.66	0.3391	0.34784
4377	497363.09	3857377.25	0.99487	0.34949	0.72104	0.75403	2.036	1.921	0.3449	0.34949
4378	497863.09	3857377.25	1.07874	0.36828	0.68673	0.80157	2.44	3.384	0.3518	0.36828
4379	498363.09	3857377.25	1.18544	0.41626	0.75934	0.94936	2.656	2.968	0.4301	0.41626
4380	471363.09	3857877.25	1.21079	0.39029	0.69332	0.63437	1.404	0.734	0.441	0.39029
4381	471863.09	3857877.25	1.25597	0.38716	0.7396	0.64592	1.473	0.73	0.438	0.38716
4382	472363.09	3857877.25	1.30511	0.39065	0.78264	0.66443	1.559	0.754	0.4425	0.39065
4383	472863.09	3857877.25	1.35962	0.40796	0.817	0.69169	1.675	0.804	0.4571	0.40796
4384	473363.09	3857877.25	1.41097	0.42501	0.78941	0.70978	1.786	0.828	0.4702	0.42501
4385	473863.09	3857877.25	1.46301	0.44154	0.86749	0.73418	1.926	0.873	0.4759	0.44154

15.1611014	0.860778179	8.017E-05	0.037509	0.697799	0.12656	3.487202	3.17E+00	1.72E+01
15.860477	0.900524019	0.0001014	0.040564	0.724504	0.13693	3.600355	3.32E+00	1.79E+01
16.3040165	0.823248649	8.789E-05	0.037277	0.757197	0.11656	3.358886	3.03E+00	1.84E+01
14.5361187	0.731419505	6.391E-05	0.032751	0.783048	0.08998	3.086029	2.69E+00	1.66E+01
9.78812763	0.737939152	5.712E-05	0.026932	0.789636	0.07359	2.89352	2.72E+00	1.16E+01
8.53231916	0.799460246	6.077E-05	0.026157	0.816881	0.07407	3.082557	2.94E+00	1.04E+01
11.680709	0.936576008	8.206E-05	0.029732	0.8694	0.08767	3.763177	3.45E+00	1.39E+01
12.2469497	1.027647913	9.595E-05	0.028688	0.908747	0.08799	4.007905	3.78E+00	1.45E+01
11.6594241	1.029143923	7.888E-05	0.026843	0.931091	0.08121	4.04482	3.79E+00	1.40E+01
9.17399597	1.073968809	6.581E-05	0.024128	0.945154	0.08356	4.135371	3.95E+00	1.15E+01
8.40826164	1.080451518	5.701E-05	0.023815	0.852575	0.09121	4.089954	3.98E+00	1.06E+01
8.43653715	1.065823867	5.517E-05	0.023791	0.791606	0.08851	4.053747	3.92E+00	1.05E+01
10.0082802	1.200538625	7.148E-05	0.028741	1.062205	0.10941	4.559501	4.42E+00	1.25E+01
23.4578261	1.443372413	9.952E-05	0.038611	1.266124	0.12865	5.57044	5.31E+00	2.66E+01
19.5398414	1.380207555	0.0001067	0.038428	1.286775	0.13464	5.267753	5.08E+00	2.26E+01
34.9337202	2.136523618	0.0004523	0.104672	2.099567	0.30979	7.965575	7.87E+00	3.97E+01
38.3056014	2.246083249	0.0003961	0.117067	2.370757	0.34946	8.012551	8.27E+00	4.31E+01
38.9554166	2.445957545	0.0005428	0.134658	2.750769	0.43079	8.322536	9.01E+00	4.40E+01
38.095987	2.858579209	0.0005493	0.128384	3.025021	0.55999	8.338903	1.05E+01	4.25E+01
41.7293385	2.903718073	0.0007525	0.128376	3.506751	0.60251	8.039405	1.07E+01	4.62E+01
46.7081245	3.059635538	0.0006754	0.129264	4.210838	0.62477	8.284346	1.13E+01	5.18E+01
54.6235992	3.525448662	0.0010628	0.132371	5.157975	0.6234	8.891207	1.30E+01	6.00E+01
68.5207539	3.880002983	0.0007859	0.13759	6.337293	0.64379	9.397527	1.43E+01	7.46E+01
73.9367148	5.061906128	0.0006544	0.151225	7.82356	0.75497	11.1953	1.86E+01	8.03E+01
92.5039202	6.944089612	0.0007022	0.172063	9.713262	1.34296	11.66378	2.56E+01	9.68E+01
92.4723059	11.20334031	0.0009366	0.193752	12.22574	1.33394	15.22927	4.12E+01	9.14E+01
93.8674052	14.9740053	0.0011341	0.262098	17.48913	0.63212	21.49961	5.51E+01	9.36E+01
96.2869963	5.532336566	0.0010855	0.33854	29.51325	0.51914	35.91832	2.04E+01	1.48E+02
98.9704574	3.784720088	0.0007013	0.721622	41.97244	1.26738	61.84145	1.39E+01	1.95E+02
71.5434168	3.43107076	0.0009255	0.504325	42.65466	0.84944	26.00625	1.26E+01	1.32E+02
54.6576133	3.112420674	0.0009697	0.304636	44.97112	0.66387	18.73341	1.15E+01	1.11E+02
49.0825374	2.935946926	0.0007815	0.27838	29.52136	0.72112	15.1067	1.08E+01	8.68E+01
43.8647137	2.507903432	0.0009373	0.186406	20.60979	0.68471	12.06715	9.23E+00	7.07E+01
41.6774827	2.366576679	0.0007172	0.246484	17.09789	0.49089	10.85201	8.71E+00	6.40E+01
41.5450781	2.438052703	0.0006395	0.214094	14.48851	0.40391	10.32096	8.98E+00	6.04E+01
39.0735269	2.388204179	0.0005258	0.254178	12.25132	0.34568	9.494738	8.79E+00	5.50E+01
35.0114518	2.074984054	0.0004406	0.503948	10.40573	0.32324	8.428108	7.64E+00	4.91E+01
33.9885251	1.648676671	0.0003453	0.521536	9.196846	0.25012	7.416035	6.07E+00	4.70E+01
33.8505906	1.133735324	0.0001743	0.156309	5.556078	0.16976	5.362201	4.17E+00	4.21E+01
23.9355884	0.911864143	0.0001255	0.076623	2.387483	0.11862	3.65803	3.36E+00	2.77E+01
13.9157267	0.815048299	9.016E-05	0.056854	1.913387	0.10344	3.019781	3.00E+00	1.68E+01
11.5020829	0.751938849	9.276E-05	0.055867	1.630924	0.1129	2.77902	2.77E+00	1.41E+01
10.1412064	0.629967878	8.972E-05	0.050296	1.290714	0.11514	2.307206	2.32E+00	1.22E+01
9.3216338	0.555924627	8.084E-05	0.043616	1.220025	0.10932	2.096062	2.05E+00	1.13E+01
9.16669233	0.513685437	7.67E-05	0.03975	1.15627	0.08976	1.961228	1.89E+00	1.10E+01
9.01352459	0.549663549	7.853E-05	0.038781	1.098771	0.09421	2.045331	2.02E+00	1.08E+01
8.85900047	0.615654204	7.958E-05	0.03874	1.046187	0.09924	2.266749	2.27E+00	1.07E+01
9.39613091	0.642434626	7.806E-05	0.0391	0.99847	0.09279	2.402575	2.37E+00	1.12E+01
10.380244	0.645482053	7.506E-05	0.039718	0.954574	0.27023	2.443528	2.38E+00	1.24E+01
11.2553243	0.680185787	7.149E-05	0.042222	1.144116	0.47603	2.492559	2.50E+00	1.36E+01
12.3686074	0.76880128	7.905E-05	0.050007	1.245524	0.41757	3.04713	2.83E+00	1.51E+01
12.6331035	0.720836621	7.218E-05	0.033415	0.658391	0.10325	3.124432	2.65E+00	1.46E+01
13.1045012	0.715055743	7.7E-05	0.034023	0.69068	0.10276	3.103317	2.63E+00	1.51E+01
13.6172166	0.721501514	8.148E-05	0.034998	0.731209	0.10605	3.135272	2.66E+00	1.57E+01
14.1859614	0.753471797	8.505E-05	0.036434	0.785496	0.11304	3.238648	2.77E+00	1.63E+01
14.7217354	0.78496188	8.218E-05	0.037387	0.837532	0.11648	3.331608	2.89E+00	1.69E+01
15.2647088	0.815491561	9.031E-05	0.038672	0.903185	0.12278	3.371994	3.00E+00	1.75E+01

4386	474363.09	3857877.25	1.49374	0.40229	0.89027	0.69592	1.963	0.773	0.4355	0.40229	15.5853385	0.742999729	9.268E-05	0.036657	0.920643	0.10878	3.08532	2.74E+00	1.77E+01
4387	474863.09	3857877.25	1.27677	0.358	0.78808	0.56478	1.831	0.634	0.3843	0.358	13.3215236	0.661199391	8.204E-05	0.029749	0.85846	0.08919	2.722692	2.43E+00	1.52E+01
4388	475363.09	3857877.25	0.81809	0.25336	0.556	0.44565	1.63	0.468	0.2546	0.25336	8.5357623	0.467937088	5.788E-05	0.023474	0.764343	0.06578	1.804216	1.72E+00	9.94E+00
4389	475863.09	3857877.25	0.63183	0.23092	0.31869	0.3255	1.113	0.36	0.2323	0.23092	6.59236844	0.426492076	3.318E-05	0.017145	0.52187	0.05071	1.645646	1.57E+00	7.68E+00
4390	476363.09	3857877.25	0.86128	0.2872	0.55836	0.46692	1.719	0.485	0.2982	0.2872	8.98639679	0.530437053	5.813E-05	0.024595	0.806081	0.06829	2.112996	1.95E+00	1.06E+01
4391	476863.09	3857877.25	1.09336	0.34448	0.62912	0.51711	1.901	0.528	0.3586	0.34448	11.407866	0.636228956	6.55E-05	0.027238	0.891232	0.07422	2.540669	2.34E+00	1.32E+01
4392	477363.09	3857877.25	1.08214	0.39301	0.73289	0.52136	1.907	0.545	0.4072	0.39301	11.2907991	0.725860258	7.63E-05	0.027462	0.894074	0.07666	2.885159	2.67E+00	1.32E+01
4393	477863.09	3857877.25	0.92224	0.44221	0.74552	0.49141	1.9	0.542	0.4518	0.44221	9.62243937	0.816729002	7.761E-05	0.025885	0.89097	0.07632	3.201166	3.01E+00	1.16E+01
4394	478363.09	3857877.25	0.70842	0.47783	0.51032	0.43465	1.445	0.509	0.4745	0.47783	7.39149082	0.882516494	5.313E-05	0.022895	0.677354	0.07159	3.362216	3.25E+00	9.16E+00
4395	478863.09	3857877.25	0.72411	0.51439	0.40274	0.35743	1.301	0.45	0.5135	0.51439	7.55519666	0.950040097	4.193E-05	0.018827	0.610111	0.06325	3.638474	3.50E+00	9.34E+00
4396	479363.09	3857877.25	2.08827	0.71712	1.24689	0.69077	3.402	0.709	0.7488	0.71712	21.7885273	1.324467338	0.0001298	0.036386	1.595183	0.09975	5.305447	4.88E+00	2.53E+01
4397	479863.09	3857877.25	2.77666	0.82255	2.3018	1.13458	5.9	1.025	0.8345	0.82255	28.9710298	1.519188712	0.0002396	0.059763	2.766468	0.14423	5.912663	5.59E+00	3.38E+01
4398	480363.09	3857877.25	2.83742	0.97275	3.10298	1.2992	6.707	1.344	0.9791	0.97275	29.6049856	1.796596948	0.000323	0.068434	3.145018	0.1891	6.937277	6.61E+00	3.51E+01
4399	480863.09	3857877.25	2.93775	1.02776	2.39531	1.36765	7.599	1.501	1.0253	1.02776	30.6518057	1.898196329	0.0002494	0.07204	3.563204	0.21116	7.264408	6.99E+00	3.67E+01
4400	481363.09	3857877.25	3.1126	1.07501	3.81849	1.45385	8.664	1.735	1.0845	1.07501	32.4761502	1.985463567	0.0003975	0.07658	4.062936	0.24414	7.684074	7.31E+00	3.92E+01
4401	481863.09	3857877.25	3.31113	1.19026	4.12845	1.63104	10.3	2.131	1.18	1.19026	34.5475664	2.198321751	0.0004298	0.085914	4.829924	0.29981	8.360938	8.09E+00	4.22E+01
4402	482363.09	3857877.25	3.33464	1.39506	5.83443	1.98282	11.4	2.953	1.3343	1.39506	34.7928644	2.576572128	0.0006074	0.104443	5.347911	0.41542	9.454068	9.49E+00	4.32E+01
4403	482863.09	3857877.25	3.24637	1.4257	6.13887	2.17499	11.86	3.567	1.3447	1.4257	33.8718755	2.633161931	0.0006391	0.114566	5.55997	0.50176	9.527543	9.69E+00	4.25E+01
4404	483363.09	3857877.25	3.29587	1.50013	6.08921	2.43998	12.93	4.046	1.3436	1.50013	34.3883471	2.770628609	0.0006339	0.128524	6.06471	0.56919	9.519537	1.02E+01	4.32E+01
4405	483863.09	3857877.25	3.35555	1.68925	5.60139	2.63686	14.2	4.657	1.3282	1.68925	35.0110345	3.119919192	0.0005831	0.138894	6.659487	0.65516	9.410422	1.15E+01	4.35E+01
4406	484363.09	3857877.25	4.19765	1.78518	6.7464	2.75012	16.38	5.539	1.366	1.78518	43.7973116	3.297094772	0.0007023	0.14486	7.680273	0.77917	9.678319	1.21E+01	5.32E+01
4407	484863.09	3857877.25	5.10609	2.1824	4.80724	2.8698	18.49	6.794	1.4515	2.1824	53.2757649	4.030730587	0.0005005	0.151164	8.668482	0.95575	10.28447	1.48E+01	6.25E+01
4408	485363.09	3857877.25	6.21654	2.58397	5.95021	3.18046	20.5	8.64	1.6011	2.58397	64.861944	4.772400529	0.0006195	0.167528	9.613097	1.2154	11.34444	1.76E+01	7.44E+01
4409	485863.09	3857877.25	8.19583	3.45087	8.00027	3.65538	22.69	13.9	1.8066	3.45087	85.5133992	6.373500395	0.0008329	0.192544	10.63987	1.95482	12.80034	2.35E+01	9.40E+01
4410	486363.09	3857877.25	8.93842	4.84909	9.49572	4.23085	27.19	14.29	2.1009	4.84909	93.2614119	8.955908808	0.0009886	0.222856	12.74967	2.01051	14.88528	3.30E+01	9.91E+01
4411	486863.09	3857877.25	8.9657	14.24033	20.59736	5.10287	36.51	8.157	2.7828	14.24033	93.5460451	26.30083106	0.0021443	0.268789	17.12248	1.14742	19.71728	9.68E+01	6.13E+01
4412	487363.09	3857877.25	8.95421	5.50184	19.86584	7.44792	42.39	5.783	5.2355	5.50184	93.4261611	10.16148954	0.0020682	0.392312	19.87929	0.81353	37.09548	3.74E+01	1.24E+02
4413	487863.09	3857877.25	9.01344	3.20868	28.9035	13.44524	54.24	11.07	9.3212	3.20868	94.0441533	5.926193466	0.003009	0.708216	25.43352	1.55723	66.04385	2.18E+01	1.72E+02
4414	488363.09	3857877.25	7.10615	2.39526	17.56801	10.86942	71.95	10.01	3.5289	2.39526	74.1439295	4.423867186	0.0018289	0.572537	33.74089	1.40876	25.00367	1.63E+01	1.23E+02
4415	488863.09	3857877.25	5.54433	1.97718	12.37386	7.18814	54.45	6.889	2.6439	1.97718	57.84826	3.651704501	0.0012882	0.378629	25.53146	0.96906	18.73284	1.34E+01	9.37E+01
4416	489363.09	3857877.25	5.38042	1.83616	9.51928	5.56753	36.34	5.172	2.2167	1.83616	56.1380608	3.391251042	0.000991	0.293264	17.03943	0.72753	15.70633	1.25E+01	8.08E+01
4417	489863.09	3857877.25	4.57149	1.4061	6.96643	6.32646	37.79	4.111	1.7587	1.4061	47.6978719	2.596962188	0.0007252	0.33324	17.72042	0.57827	12.46131	9.56E+00	7.18E+01
4418	490363.09	3857877.25	4.29719	1.27096	5.37187	8.43325	34.22	3.573	1.4912	1.27096	44.835889	2.347368652	0.0005592	0.444214	16.04441	0.50269	10.56597	8.64E+00	6.61E+01
4419	490863.09	3857877.25	3.73294	1.23294	4.49768	9.03346	26.6	3.093	1.4157	1.23294	38.9486346	2.277148538	0.0004682	0.475829	12.47352	0.43508	10.03089	8.38E+00	5.63E+01
4420	491363.09	3857877.25	3.60758	1.2474	4.62207	19.99745	21.3	2.256	1.4122	1.2474	37.6406573	2.303855084	0.0004812	1.053347	9.988293	0.3174	10.00595	8.48E+00	5.28E+01
4421	491863.09	3857877.25	3.55149	1.26784	3.25115	5.49883	18.05	1.782	1.3889	1.26784	37.0554272	2.341606244	0.0003385	0.289646	8.461726	0.25065	9.840999	8.62E+00	4.96E+01
4422	492363.09	3857877.25	3.04068	1.0678	1.89111	2.36025	8.352	1.222	1.1228	1.0678	31.7257535	1.972147233	0.0001969	0.124324	3.916572	0.17197	7.95516	7.26E+00	3.86E+01
4423	492863.09	3857877.25	2.00915	0.56032	1.3035	1.5046	4.643	0.993	0.6408	0.56032	20.9630075	1.034869393	0.0001357	0.079253	2.176967	0.13968	4.540299	3.81E+00	2.51E+01
4424	493363.09	3857877.25	1.40207	0.48596	1.14956	1.27702	3.879	0.984	0.4538	0.48596	14.6288749	0.897532	0.0001197	0.067266	1.819017	0.13845	3.215053	3.30E+00	1.75E+01
4425	493863.09	3857877.25	1.37083	0.46053	1.03352	1.21922	3.767	0.945	0.4365	0.46053	14.3029239	0.85056468	0.0001076	0.064221	1.766592	0.1329	3.092973	3.13E+00	1.71E+01
4426	494363.09	3857877.25	1.34207	0.43529	0.91428	1.15735	3.084	0.983	0.4112	0.43529	14.0028487	0.803948276	9.518E-05	0.060962	1.446001	0.13822	2.913288	2.96E+00	1.64E+01
4427	494863.09	3857877.25	1.11071	0.39119	0.90065	1.09941	2.637	1.031	0.367	0.39119	11.5888919	0.722498854	9.376E-05	0.05791	1.236488	0.14505	2.600611	2.66E+00	1.37E+01
4428	495363.09	3857877.25	1.07975	0.36605	0.88854	1.08864	2.119	1.143	0.3436	0.36605	11.2658624	0.676067142	9.25E-05	0.057343	0.99348	0.16078	2.434247	2.49E+00	1.31E+01
4429	495863.09	3857877.25	1.03034	0.34196	0.82427	1.06548	1.999	1.366	0.3193	0.34196	10.7503298	0.631574703	8.581E-05	0.056123	0.937538	0.1922	2.262072	2.33E+00	1.25E+01
4430	496363.09	3857877.25	1.10866	0.34008	0.78733	1.03702	2.149	2.72	0.3189	0.34008	11.5675026	0.628102483	8.197E-05	0.054624	1.007487	0.38259	2.259451	2.31E+00	1.36E+01
4431	496863.09	3857877.25	1.1077	0.38625	0.75109	1.00319	2.021	9.858	0.3655	0.38625	11.5574862	0.713375041	7.819E-05	0.052842	0.94784	1.38684	2.589416	2.63E+00	1.46E+01
4432	497363.09	3857877.25	1.10586	0.41522	0.69676	0.98618	1.901	12.14	0.4078	0.41522	11.5382881	0.766880478	7.254E-05	0.051946	0.891547	1.70731	2.889481	2.82E+00	1.50E+01
4433	497863.09	3857877.25	1.20307	0.49101	0.73208	1.08364	2.729	2.85	0.4995	0.49101	12.5525548	0.906858974	7.621E-05	0.05708	1.279845	0.40096	3.539138	3.34E+00	1.54E+01
4434	498363.09	3857877.25	1.77242	0.47342	0.78961	1.156	2.956	2.212	0.5313	0.47342	18.4930213	0.874371552	8.22E-05	0.060891	1.38635	0.3112	3.764169	3.22E+00	2.17E+01
4435	471363.09	3858377.25	1.18127	0.42275	0.64369	0.59156	2.38	0.7	0.4616	0.42275	12.3250986	0.780787828	6.701E-05	0.03116	1.116136	0.09848	3.270673	2.87E+00	1.47E+01
4436	471863.09	3858377.25	1.22445	0.41441	0.67425	0.60057	2.539	0.707	0.4557	0.41441	12.7756288	0.765384468	7.019E-05	0.031634	1.190675	0.09947	3.22887	2.82E+00	1.53E+01
4437	472363.09	3858377.25	1.27042	0.4077	0.74658	0.6083	2.695	0.713	0.4491	0.4077	13.2552692	0.752991597	7.772E-05	0.032042	1.263906	0.1003	3.182177	2.77E+00	1.58E+01
4438	472863.09	3858377.25	1.33625	0.41899	0.89222	0.61761	2.881	0.738	0.458	0.41899	13.9421242	0.773843387	9.289E-05	0.032532	1.350947	0.10386	3.245166	2.85E+00	1.66E+01
4439	473363.09	3858377.25	1.41778	0.4562	1.06268	0.62876	3.174	0.805	0.4848	0.4562	14.7927894	0.842567492	0.0001106	0.033119	1.48819	0.11327	3.434841	3.10E+00	1.76E+01
4440	473863.09	3858377.25	1.47579	0.42441	0.96031	0.63593	3.357	0.784	0.4586	0.42441	15.3980523	0.783853725	9.997E-05	0.033497	1.574279	0.11034	3.249063	2.89E+00	1.83E+01
4441	474363.09	3858377.25	1.49265	0.3565	0.77289	0.62185	3.216	0.682	0.4096	0.3565	15.5739657	0.658429002	8.046E-05	0.032755	1.507974	0.09592	2.90188	2.42E+00	1.83E+01
4442	474863.09	3858377.25	1.37056	0.33679	0.62323	0.57969	2.606	0.615	0.3718	0.33679	14.3001068	0.622026097	6.488E-05	0.030535	1.221881	0.08653	2.634125	2.29E+00	1.66E+01

4443	475363.09	3858377.25	1.08863	0.26579	0.57766	0.51023	1.747	0.516	0.2786	0.26579	11.3585142	0.490894374	6.014E-05	0.026876	0.819169	0.07258	1.973627	1.81E+00	1.29E+01
4444	475863.09	3858377.25	0.86419	0.2395	0.54176	0.46168	1.463	0.475	0.2436	0.2395	9.01675906	0.442338699	5.64E-05	0.024319	0.685921	0.06681	1.725994	1.63E+00	1.03E+01
4445	476363.09	3858377.25	0.88496	0.24298	0.54028	0.47465	1.518	0.483	0.2488	0.24298	9.23346845	0.448766	5.625E-05	0.025002	0.711927	0.068	1.762625	1.65E+00	1.06E+01
4446	476863.09	3858377.25	0.90012	0.24567	0.52186	0.48188	1.585	0.494	0.2523	0.24567	9.39164439	0.45373423	5.433E-05	0.025383	0.743288	0.06947	1.787849	1.67E+00	1.08E+01
4447	477363.09	3858377.25	0.91393	0.25558	0.53759	0.48462	1.653	0.499	0.2582	0.25558	9.53573475	0.472037263	5.597E-05	0.025527	0.77518	0.07025	1.82944	1.74E+00	1.10E+01
4448	477863.09	3858377.25	1.12711	0.26943	0.71697	0.53921	1.726	0.55	0.2751	0.26943	11.7600057	0.497617184	7.464E-05	0.028402	0.809378	0.07744	1.949395	1.83E+00	1.33E+01
4449	478363.09	3858377.25	1.13655	0.30254	0.77521	0.5486	1.83	0.569	0.3011	0.30254	11.8585005	0.558768893	8.07E-05	0.028897	0.85823	0.08005	2.133048	2.06E+00	1.35E+01
4450	478863.09	3858377.25	0.9279	0.33858	0.62995	0.50214	1.434	0.552	0.337	0.33858	9.6814945	0.625332094	6.558E-05	0.02645	0.672594	0.07769	2.387554	2.30E+00	1.12E+01
4451	479363.09	3858377.25	1.93917	0.50193	1.05042	0.69705	3.551	0.709	0.5325	0.50193	20.2328524	0.927027403	0.0001094	0.036716	1.665338	0.09967	3.773238	3.41E+00	2.33E+01
4452	479863.09	3858377.25	2.39611	0.6651	2.3361	1.08397	7.69	1.262	0.7163	0.6651	25.0004589	1.228390265	0.0002432	0.057097	3.605895	0.1775	5.075527	4.52E+00	3.06E+01
4453	480363.09	3858377.25	2.46484	0.91703	2.11508	1.27225	8.922	1.545	0.9133	0.91703	25.7175718	1.693686249	0.0002202	0.067015	4.183758	0.21732	6.470706	6.24E+00	3.21E+01
4454	480863.09	3858377.25	2.67788	1.07698	2.94686	1.35689	9.97	1.616	1.05	1.07698	27.940382	1.98910201	0.0003068	0.071473	4.675045	0.22727	7.439345	7.32E+00	3.50E+01
4455	481363.09	3858377.25	2.85704	1.20999	3.97892	1.45362	10.72	1.653	1.1798	1.20999	29.8096961	2.234761594	0.0004142	0.076568	5.027231	0.23257	8.359096	8.23E+00	3.75E+01
4456	481863.09	3858377.25	3.07848	1.17131	3.90947	1.51907	11.42	1.635	1.178	1.17131	32.12015	2.163322509	0.000407	0.080016	5.356079	0.22999	8.346342	7.96E+00	4.03E+01
4457	482363.09	3858377.25	3.19777	1.35535	4.36448	1.63206	11.81	1.869	1.2898	1.35535	33.3647944	2.50323071	0.0004544	0.085967	5.53892	0.26294	9.138769	9.22E+00	4.17E+01
4458	482863.09	3858377.25	2.94933	1.42438	4.87755	1.77765	12.44	2.399	1.3519	1.42438	30.7726287	2.630723989	0.0005078	0.093636	5.832656	0.33743	9.578841	9.69E+00	3.96E+01
4459	483363.09	3858377.25	2.86142	1.50321	5.97261	1.77596	12.36	2.934	1.4568	1.50321	29.8553961	2.77631714	0.0006218	0.093547	5.795363	0.41276	10.3221	1.02E+01	3.90E+01
4460	483863.09	3858377.25	3.07239	1.49678	5.46574	1.99407	12.75	3.328	1.4025	1.49678	32.0566084	2.764441408	0.000569	0.105036	5.979756	0.46821	9.93736	1.02E+01	4.11E+01
4461	484363.09	3858377.25	3.20872	1.56482	6.08512	2.30836	14.5	3.968	1.4055	1.56482	33.4790441	2.89010623	0.0006335	0.121591	6.797889	0.55821	9.958333	1.06E+01	4.32E+01
4462	484863.09	3858377.25	4.25135	1.75645	6.31413	2.66766	15.95	4.836	1.5015	1.75645	44.357605	3.244032597	0.0006573	0.140517	7.477029	0.68036	10.63881	1.19E+01	5.46E+01
4463	485363.09	3858377.25	5.12258	2.12731	8.74399	3.01029	17.33	6.158	1.6569	2.12731	53.4478178	3.928983452	0.0009103	0.158564	8.127003	0.86621	11.73959	1.45E+01	6.38E+01
4464	485863.09	3858377.25	6.12329	2.34032	10.73591	3.30507	19.48	8.619	1.8222	2.34032	63.888995	4.322397089	0.0011177	0.174092	9.134569	1.21255	12.91059	1.59E+01	7.57E+01
4465	486363.09	3858377.25	8.59409	2.9627	15.48916	3.49759	25.15	17.31	1.8759	2.9627	89.6687521	5.471886689	0.0016125	0.184232	11.79169	2.43572	13.29157	2.01E+01	1.03E+02
4466	486863.09	3858377.25	8.8711	3.74081	11.48568	3.79471	25.89	17.95	2.229	3.74081	92.5590105	6.908998024	0.0011957	0.199883	12.14074	2.52559	15.79313	2.54E+01	1.05E+02
4467	487363.09	3858377.25	8.83775	5.2244	11.51788	4.68258	22.58	15.17	2.8028	5.2244	92.2110443	9.649078482	0.0011991	0.246651	10.58886	2.13458	19.85885	3.55E+01	9.92E+01
4468	487863.09	3858377.25	9.14675	21.8524	19.19557	6.65579	26.48	11.56	4.724	21.8524	95.435079	40.35975856	0.0019984	0.350588	12.41918	1.62662	33.47096	1.49E+02	3.51E+01
4469	488363.09	3858377.25	9.08845	5.47882	14.5799	13.70722	44.74	8.169	11.529	5.47882	94.8267903	10.11897331	0.0015179	0.722015	20.9787	1.14919	81.68542	3.73E+01	1.72E+02
4470	488863.09	3858377.25	7.99431	3.38426	12.4751	13.57082	31.12	10	3.7764	3.38426	83.410786	6.250476676	0.0012987	0.71483	14.59342	1.40723	26.7573	2.30E+01	1.10E+02
4471	489363.09	3858377.25	5.83958	2.50441	10.35595	42.49108	33.67	6.657	2.698	2.50441	60.9288303	4.625459123	0.0010781	2.238178	15.79063	0.93645	19.11645	1.70E+01	8.66E+01
4472	489863.09	3858377.25	4.83456	2.20084	5.99354	28.04134	31.86	5.185	2.2987	2.20084	50.4426835	4.064787897	0.000624	1.477052	14.93761	0.72937	16.28719	1.50E+01	7.30E+01
4473	490363.09	3858377.25	4.47829	1.65874	6.16587	25.92067	22.31	4.238	1.8186	1.65874	46.7254446	3.06356949	0.0006419	1.365347	10.46379	0.59624	12.88565	1.13E+01	6.38E+01
4474	490863.09	3858377.25	4.27252	1.39772	6.42294	23.80148	19.97	3.6	1.5648	1.39772	44.5784879	2.581484951	0.0006687	1.253721	9.364058	0.50644	11.08682	9.50E+00	5.99E+01
4475	491363.09	3858377.25	4.19624	1.12358	5.73796	12.25863	20.69	2.585	1.3877	1.12358	43.7826	2.075168747	0.0005974	0.645712	9.701249	0.36367	9.832072	7.64E+00	5.88E+01
4476	491863.09	3858377.25	4.07854	1.12207	2.7826	3.90396	17.91	1.376	1.2252	1.12207	42.5545453	2.072379889	0.0002897	0.205637	8.396242	0.19356	8.68063	7.63E+00	5.45E+01
4477	492363.09	3858377.25	2.7293	1.21639	1.88531	1.7238	6.426	1.232	1.248	1.21639	28.4768865	2.246581918	0.0001963	0.0908	3.013472	0.17332	8.842601	8.27E+00	3.46E+01
4478	492863.09	3858377.25	2.93947	1.21566	1.71795	1.69348	8.007	1.057	1.253	1.21566	30.6697517	2.245233663	0.0001788	0.089202	3.754758	0.14867	8.877886	8.27E+00	3.75E+01
4479	493363.09	3858377.25	2.45412	0.85126	1.28424	1.39136	6.756	1.001	0.9	0.85126	25.6057218	1.572213948	0.0001337	0.073289	3.167938	0.14083	6.376966	5.79E+00	3.11E+01
4480	493863.09	3858377.25	2.20186	0.55478	1.17108	1.27904	5.989	1.089	0.6302	0.55478	22.9736992	1.024637424	0.0001219	0.067372	2.808512	0.15326	4.465478	3.77E+00	2.77E+01
4481	494363.09	3858377.25	1.91456	0.47819	1.10179	1.17047	5.082	1.036	0.5079	0.47819	19.9760773	0.883181387	0.0001147	0.061653	2.383066	0.14572	3.5983	3.25E+00	2.38E+01
4482	494863.09	3858377.25	1.39484	0.46997	0.81763	1.08623	3.582	1.222	0.4473	0.46997	14.5534387	0.867999658	8.512E-05	0.057216	1.679645	0.17194	3.168928	3.20E+00	1.73E+01
4483	495363.09	3858377.25	1.36335	0.43545	0.72172	0.97864	3.2	1.718	0.4082	0.43545	14.2248793	0.804243784	7.514E-05	0.051549	1.500757	0.24169	2.892457	2.96E+00	1.68E+01
4484	495863.09	3858377.25	1.34185	0.41429	0.73272	0.94633	3.02	2.593	0.3882	0.41429	14.0005533	0.765162837	7.628E-05	0.049847	1.415967	0.36478	2.750183	2.82E+00	1.65E+01
4485	496363.09	3858377.25	1.3191	0.39344	0.72151	0.91331	2.888	8.124	0.3737	0.39344	13.763185	0.726654436	7.511E-05	0.048108	1.354023	1.14288	2.647799	2.68E+00	1.70E+01
4486	496863.09	3858377.25	1.32984	0.42687	0.77558	0.91663	2.857	3.805	0.4031	0.42687	13.8752437	0.788397162	8.074E-05	0.048283	1.33988	0.53529	2.856251	2.90E+00	1.65E+01
4487	497363.09	3858377.25	1.34138	0.46967	0.78612	0.91377	2.771	2.113	0.4651	0.46967	13.9956494	0.86744558	8.184E-05	0.048132	1.299483	0.29723	3.295047	3.19E+00	1.66E+01
4488	497863.09	3858377.25	1.87237	0.58869	0.81548	1.00534	3.215	2.147	0.6	0.58869	19.5358766	1.087266674	8.49E-05	0.052955	1.507392	0.30203	4.2515	4.00E+00	2.27E+01
4489	498363.09	3858377.25	2.14865	0.67613	1.04878	1.16641	4.57	2.133	0.7004	0.67613	22.4185183	1.248761855	0.0001092	0.06144	2.142909	0.3001	4.962516	4.60E+00	2.65E+01
4490	471363.09	3858877.25	1.25954	0.41461	0.73465	0.59023	3.015	0.61	0.4347	0.41461	13.1417497	0.765753853	7.648E-05	0.03109	1.413885	0.08575	3.080006	2.82E+00	1.57E+01
4491	471863.09	3858877.25	1.31881	0.41294	0.72818	0.59826	3.03	0.617	0.4365	0.41294	13.7601592	0.762669487	7.581E-05	0.031513	1.420666	0.08678	3.092831	2.81E+00	1.63E+01
4492	472363.09	3858877.25	1.36937	0.44352	0.75081	0.6156	3.061	0.649	0.4643	0.44352	14.2876906	0.819148474	7.816E-05	0.032426	1.435577	0.09135	3.289662	3.02E+00	1.69E+01
4493	472863.09	3858877.25	1.42258	0.46718	0.86322	0.63119	3.07	0.672	0.487	0.46718	14.8428715	0.862846736	8.987E-05	0.033247	1.439502	0.09452	3.450571	3.18E+00	1.75E+01
4494	473363.09	3858877.25	1.45602	0.51249	0.97287	0.64777	3.148	0.716	0.5239	0.51249	15.1917767	0.946530938	0.0001013	0.034121	1.476294	0.10078	3.711808	3.48E+00	1.80E+01
4495	473863.09	3858877.25	1.51782	0.47987	0.94499	0.66817	3.176	0.701	0.5015	0.47987	15.8365837	0.886284222	9.838E-05	0.035195	1.489512	0.09858	3.553308	3.26E+00	1.86E+01
4496	474363.09	3858877.25	1.5332	0.38709	0.77378	0.655	2.954	0.621	0.4254	0.38709	15.997055	0.714926458	8.056E-05	0.034502	1.385365	0.08735	3.014112	2.63E+00	1.86E+01
4497	474863.09	3858877.25	1.0993	0.24427	0.57027	0.54382	1.475	0.495	0.2522	0.24427	11.4698426	0.451148534	5.937E-05	0.028645	0.69175	0.06959	1.786999	1.66E+00	1.28E+01
4498	475363.09	3858877.25	0.86444	0.2276	0.52416	0.45317	1.405	0.455	0.2317	0.2276	9.01936751	0.420360283	5.457E-05	0.02387	0.658724	0.06403	1.641536	1.55E+00	1.03E+01
4499	475863.09	3858877.25	0.87754	0.23625	0.54671	0.48743	1.515	0.465	0.2453	0.23625	9.15604988	0.43633619	5.692E-05	0.025675	0.71045	0.06544	1.737826	1.61E+00	1.05E+01

4500	476363.09	3858877.25	0.71429	0.21572	0.48737	0.40922	1.175	0.435	0.21	0.21572
4501	476863.09	3858877.25	0.7818	0.22684	0.49662	0.44025	1.313	0.48	0.2275	0.22684
4502	477363.09	3858877.25	0.88154	0.23567	0.49646	0.44326	1.38	0.489	0.2373	0.23567
4503	477863.09	3858877.25	0.89657	0.24481	0.57219	0.46498	1.716	0.5	0.2441	0.24481
4504	478363.09	3858877.25	1.37478	0.29901	0.66643	0.6145	3.528	0.654	0.3308	0.29901
4505	478863.09	3858877.25	1.09872	0.31329	0.81211	0.59755	2.886	0.651	0.3092	0.31329
4506	479363.09	3858877.25	1.06032	0.31842	0.82227	0.58976	2.764	0.561	0.318	0.31842
4507	479863.09	3858877.25	2.13136	0.58347	1.74058	1.05283	8.199	1.149	0.6025	0.58347
4508	480363.09	3858877.25	2.23411	0.71341	2.18887	1.14683	8.376	1.407	0.7035	0.71341
4509	480863.09	3858877.25	2.42032	0.78528	2.98694	1.2579	8.279	1.685	0.7665	0.78528
4510	481363.09	3858877.25	2.6078	0.84012	4.06034	1.40646	9.29	1.917	0.8039	0.84012
4511	481863.09	3858877.25	2.70057	0.95022	4.28107	1.59049	10.25	2.153	0.929	0.95022
4512	482363.09	3858877.25	2.70388	1.23066	3.1768	1.78676	10.67	2.373	1.1319	1.23066
4513	482863.09	3858877.25	2.73794	1.35596	5.33282	2.0453	12.13	2.673	1.3271	1.35596
4514	483363.09	3858877.25	2.64872	1.9769	4.68888	2.06902	11.41	3.225	1.9576	1.9769
4515	483863.09	3858877.25	2.87334	1.96566	4.31613	2.28491	12.2	3.427	1.9378	1.96566
4516	484363.09	3858877.25	3.00434	1.80537	5.70967	2.55978	12.56	3.839	1.7707	1.80537
4517	484863.09	3858877.25	3.6049	1.68724	5.37731	2.86909	13.88	4.406	1.6387	1.68724
4518	485363.09	3858877.25	4.78017	1.7705	7.13215	3.2278	15.91	4.964	1.5282	1.7705
4519	485863.09	3858877.25	5.81647	1.94316	5.94583	3.67741	20.01	5.796	1.61	1.94316
4520	486363.09	3858877.25	7.40212	2.13593	8.45101	4.13424	19.16	8.386	1.7808	2.13593
4521	486863.09	3858877.25	9.50974	2.62802	16.10153	4.84512	17.24	7.923	2.0714	2.62802
4522	487363.09	3858877.25	8.97166	3.19886	12.10257	6.12038	19.03	9.173	2.4547	3.19886
4523	487863.09	3858877.25	8.69406	3.7364	10.8248	7.32142	16.72	21.13	2.9506	3.7364
4524	488363.09	3858877.25	9.21936	6.05332	12.01838	9.65268	21.46	9.457	4.6893	6.05332
4525	488863.09	3858877.25	9.25305	12.13534	13.66493	15.63561	34.3	7.871	24.579	12.13534
4526	489363.09	3858877.25	7.17779	5.11282	8.09232	21.36977	18.73	11.24	4.8039	5.11282
4527	489863.09	3858877.25	5.62399	3.50146	8.25198	9.32708	19.32	6.766	2.9405	3.50146
4528	490363.09	3858877.25	4.5941	2.43013	11.03153	6.94124	25.3	4.895	2.2714	2.43013
4529	490863.09	3858877.25	4.34442	1.40185	8.26513	6.11756	20.94	2.906	1.679	1.40185
4530	491363.09	3858877.25	4.55451	1.08014	5.19992	3.54952	14.07	1.766	1.5944	1.08014
4531	491863.09	3858877.25	3.97839	1.04294	2.74721	1.82764	9.018	1.334	1.3483	1.04294
4532	492363.09	3858877.25	4.00476	0.95005	2.43357	2.04784	10.83	1.44	1.1768	0.95005
4533	492863.09	3858877.25	3.74793	1.06392	2.93411	3.02892	12.02	1.604	1.16	1.06392
4534	493363.09	3858877.25	3.48558	1.14572	2.1818	2.41082	12.03	1.684	1.1983	1.14572
4535	493863.09	3858877.25	3.03628	1.11626	1.52468	1.70422	7.909	2.198	1.1636	1.11626
4536	494363.09	3858877.25	2.77739	0.82181	1.33645	1.48136	6.323	2.445	0.87	0.82181
4537	494863.09	3858877.25	2.50204	0.55612	1.33137	1.195	6.251	2.275	0.6216	0.55612
4538	495363.09	3858877.25	2.22176	0.49263	1.26715	1.08904	5.869	2.468	0.5303	0.49263
4539	495863.09	3858877.25	2.0847	0.48506	1.24068	1.04549	5.443	7.677	0.5086	0.48506
4540	496363.09	3858877.25	2.05073	0.46807	1.22695	1.04708	5.135	5.208	0.4922	0.46807
4541	496863.09	3858877.25	2.01869	0.45349	1.1977	1.03968	4.851	4.138	0.4788	0.45349
4542	497363.09	3858877.25	1.9746	0.43361	1.15793	1.03848	4.498	2.988	0.4603	0.43361
4543	497863.09	3858877.25	2.15168	0.56919	1.23208	1.16295	4.886	2.223	0.5582	0.56919
4544	498363.09	3858877.25	2.24384	0.64669	1.28504	1.58453	5.321	1.971	0.6686	0.64669
4545	471363.09	3859377.25	1.30876	0.39217	0.77069	0.60786	2.429	0.695	0.408	0.39217
4546	471863.09	3859377.25	1.34461	0.396	0.84003	0.63088	2.561	0.715	0.4126	0.396
4547	472363.09	3859377.25	1.38672	0.41314	0.88985	0.65892	2.822	0.75	0.427	0.41314
4548	472863.09	3859377.25	1.42427	0.43507	0.94302	0.68454	3.115	0.776	0.4474	0.43507
4549	473363.09	3859377.25	1.45103	0.46039	0.96582	0.71406	3.433	0.809	0.4692	0.46039
4550	473863.09	3859377.25	1.49575	0.46257	0.86874	0.73836	3.824	0.812	0.4753	0.46257
4551	474363.09	3859377.25	1.50901	0.38341	0.89131	0.69477	4.185	0.718	0.4125	0.38341
4552	474863.09	3859377.25	1.3714	0.32146	0.78824	0.61597	3.448	0.612	0.3611	0.32146
4553	475363.09	3859377.25	1.05797	0.25321	0.65211	0.55382	2.148	0.507	0.2499	0.25321
4554	475863.09	3859377.25	0.84968	0.22257	0.4814	0.43083	1.493	0.427	0.2244	0.22257
4555	476363.09	3859377.25	0.70173	0.21998	0.40962	0.41152	1.528	0.427	0.2206	0.21998
4556	476863.09	3859377.25	0.63921	0.20728	0.35432	0.36381	1.375	0.384	0.203	0.20728

7.45273705	0.398418806	5.074E-05	0.021555	0.550999	0.06124	1.487926	1.47E+00	8.51E+00
8.15712081	0.418956619	5.17E-05	0.02319	0.615799	0.06757	1.612061	1.54E+00	9.35E+00
9.19778496	0.435264973	5.168E-05	0.023348	0.647165	0.06879	1.681285	1.60E+00	1.05E+01
9.35460451	0.452145874	5.957E-05	0.024492	0.804445	0.07039	1.72982	1.66E+00	1.08E+01
14.3441373	0.552249245	6.938E-05	0.032368	1.654511	0.09195	2.343483	2.03E+00	1.70E+01
11.463791	0.578623344	8.455E-05	0.031475	1.353432	0.09161	2.190723	2.13E+00	1.36E+01
11.0631342	0.588098073	8.56E-05	0.031065	1.296004	0.07899	2.253357	2.17E+00	1.31E+01
22.2381185	1.077625722	0.0001812	0.055457	3.844509	0.16165	4.269213	3.97E+00	2.77E+01
23.3101883	1.317615244	0.0002279	0.060408	3.927737	0.19795	4.984622	4.85E+00	2.89E+01
25.2530604	1.450353792	0.000311	0.066259	3.882219	0.23702	5.430929	5.34E+00	3.10E+01
27.2091835	1.551639196	0.0004227	0.074084	4.356367	0.26973	5.695567	5.71E+00	3.34E+01
28.1771243	1.754985712	0.0004457	0.083778	4.808396	0.30294	6.582513	6.46E+00	3.52E+01
28.21166	2.272937548	0.0003307	0.094116	5.004732	0.33384	8.020062	8.37E+00	3.56E+01
28.5670342	2.504357335	0.0005552	0.107734	5.686391	0.37608	9.403124	9.22E+00	3.74E+01
27.6361333	3.651187361	0.0004881	0.108984	5.348811	0.45365	13.87037	1.34E+01	3.76E+01
29.9797666	3.630427917	0.0004493	0.120356	5.719257	0.48204	13.7298	1.34E+01	4.03E+01
31.3465904	3.334384201	0.0005944	0.134834	5.888856	0.54012	12.54626	1.23E+01	4.15E+01
37.6126948	3.116206871	0.0005598	0.151127	6.509752	0.61975	11.61064	1.15E+01	4.81E+01
49.8751908	3.269981903	0.0007425	0.170021	7.459421	0.69838	10.82756	1.20E+01	6.03E+01
60.6877059	3.588872089	0.000619	0.193704	9.381858	0.81533	11.40771	1.32E+01	7.29E+01
77.2320122	3.944903951	0.0008798	0.217767	8.983723	1.17976	12.61782	1.45E+01	8.97E+01
99.222433	4.853757605	0.0016763	0.255212	8.085245	1.11451	14.67662	1.79E+01	1.10E+02
93.6082304	5.908056656	0.00126	0.322385	8.925253	1.29046	17.39258	2.18E+01	1.06E+02
90.711816	6.900853082	0.0011269	0.385649	7.839668	2.97205	20.90621	2.54E+01	1.04E+02
96.192675	11.18003211	0.0012512	0.508446	10.0616	1.3304	33.22517	4.12E+01	1.11E+02
96.5441887	22.41307099	0.0014226	0.823591	16.0851	1.10722	174.1542	8.25E+01	2.29E+02
74.8914047	9.442998516	0.0008425	1.125633	8.78137	1.58077	34.03758	3.48E+01	9.51E+01
58.679414	6.466936364	0.0008591	0.491295	9.061493	0.9518	20.83465	2.38E+01	7.27E+01
47.9337794	4.488269484	0.0011484	0.365623	11.86578	0.68859	16.09376	1.65E+01	6.49E+01
45.3286759	2.589112754	0.0008605	0.322237	9.818436	0.40877	11.89597	9.53E+00	6.08E+01
47.5207065	1.994938296	0.0005413	0.186968	6.595545	0.24846	11.29704	7.34E+00	6.05E+01
41.5096033	1.926232661	0.000286	0.096269	4.228526	0.18771	9.553405	7.09E+00	5.04E+01
41.7847418	1.754671735	0.0002533	0.107868	5.07816	0.20259	8.338123	6.46E+00	5.08E+01
39.1050369	1.964981161	0.0003055	0.159546	5.63631	0.22564	8.219231	7.23E+00	4.81E+01
36.3677375	2.116059681	0.0002271	0.126988	5.642964	0.23696	8.490034	7.79E+00	4.52E+01
31.679845	2.061649251	0.0001587	0.089768	3.708776	0.30927	8.244809	7.59E+00	3.85E+01
28.9786464	1.517821987	0.0001391	0.078029	2.965159	0.3439	6.16398	5.59E+00	3.45E+01
26.1057081	1.027112305	0.0001386	0.062946	2.931317	0.32002	4.40426	3.78E+00	3.11E+01
23.1813312	0.909850994	0.0001319	0.057364	2.752115	0.34721	3.757296	3.35E+00	2.77E+01
21.7512788	0.895869767	0.0001292	0.05507	2.552299	1.07997	3.603473	3.30E+00	2.66E+01
21.3968436	0.864490499	0.0001277	0.055154	2.40813	0.73261	3.487273	3.18E+00	2.58E+01
21.0625457	0.837562323	0.0001247	0.054764	2.274802	0.58212	3.392116	3.08E+00	2.51E+01
20.6025208	0.800845441	0.0001205	0.054701	2.10902	0.4204	3.261108	2.95E+00	2.43E+01
22.4501327	1.051251623	0.0001283	0.061257	2.291031	0.3127	3.954978	3.87E+00	2.63E+01
23.4117088	1.194388363	0.0001338	0.083464	2.495208	0.27729	4.737485	4.40E+00	2.78E+01
13.6552999	0.724308841	8.023E-05	0.032018	1.138827	0.09772	2.890898	2.67E+00	1.59E+01
14.0293505	0.731382566	8.745E-05	0.033231	1.200827	0.10064	2.923207	2.69E+00	1.63E+01
14.4687165	0.763038872	9.264E-05	0.034708	1.323421	0.10558	3.025591	2.81E+00	1.69E+01
14.8605046	0.803541952	9.817E-05	0.036058	1.460838	0.10915	3.169778	2.96E+00	1.75E+01
15.1397122	0.85030611	0.0001005	0.037612	1.609593	0.11379	3.324593	3.13E+00	1.79E+01
15.6063104	0.854332408	9.044E-05	0.038892	1.79317	0.1142	3.36753	3.15E+00	1.86E+01
15.7446622	0.708129772	9.279E-05	0.036596	1.962314	0.10101	2.922924	2.61E+00	1.89E+01
14.3088712	0.593712727	8.206E-05	0.032446	1.616763	0.08611	2.558311	2.19E+00	1.70E+01
11.0386149	0.467660049	6.789E-05	0.029172	1.007074	0.07138	1.770915	1.72E+00	1.27E+01
8.86536507	0.411070247	5.012E-05	0.022694	0.70026	0.06004	1.589884	1.51E+00	1.01E+01
7.32168891	0.406286709	4.264E-05	0.021676	0.71671	0.06012	1.563031	1.50E+00	8.59E+00
6.66936965	0.382830753	3.689E-05	0.019163	0.644665	0.05397	1.438328	1.41E+00	7.80E+00

4557	477363.09	3859377.25	0.64004	0.21097	0.3522	0.39569	1.539	0.392	0.21	0.21097
4558	477863.09	3859377.25	0.8709	0.23882	0.64943	0.50455	2.104	0.47	0.2578	0.23882
4559	478363.09	3859377.25	1.14235	0.27606	0.84261	0.63204	2.909	0.632	0.2782	0.27606
4560	478863.09	3859377.25	1.70507	0.34136	1.01485	0.86794	4.741	0.716	0.4001	0.34136
4561	479363.09	3859377.25	2.00147	0.41898	1.28365	1.15897	7.063	0.801	0.4742	0.41898
4562	479863.09	3859377.25	2.19548	0.50114	1.86891	1.34988	8.329	1.024	0.5213	0.50114
4563	480363.09	3859377.25	2.30842	0.64071	2.72516	1.4448	8.61	1.363	0.6224	0.64071
4564	480863.09	3859377.25	2.39828	0.7091	3.09385	1.51527	8.17	1.573	0.6841	0.7091
4565	481363.09	3859377.25	2.43092	0.78856	3.38604	1.61003	8.954	1.753	0.7582	0.78856
4566	481863.09	3859377.25	2.38729	0.93234	3.44456	1.71009	9.172	1.869	0.8664	0.93234
4567	482363.09	3859377.25	2.39537	1.08064	3.38927	1.82725	10.04	1.949	0.9158	1.08064
4568	482863.09	3859377.25	2.51123	0.98069	4.30812	1.96924	11.48	2.122	0.8868	0.98069
4569	483363.09	3859377.25	2.56409	1.15528	3.6664	2.0907	10.7	2.563	1.0961	1.15528
4570	483863.09	3859377.25	2.55471	1.39616	3.98451	2.23392	9.96	2.684	1.3781	1.39616
4571	484363.09	3859377.25	2.66812	1.70281	5.15085	2.53799	11.9	3.133	1.686	1.70281
4572	484863.09	3859377.25	2.89197	2.11619	2.9349	2.83277	13.77	3.555	2.0938	2.11619
4573	485363.09	3859377.25	3.72816	2.3697	4.46299	3.06597	16.12	4.1	2.3173	2.3697
4574	485863.09	3859377.25	4.74642	2.45649	6.41786	3.25284	14.86	5.239	2.2913	2.45649
4575	486363.09	3859377.25	5.89438	2.21632	7.76835	3.77257	13.19	7.595	2.0299	2.21632
4576	486863.09	3859377.25	8.79687	2.06094	8.79409	4.25737	13.31	15.7	1.7844	2.06094
4577	487363.09	3859377.25	9.73853	2.39232	7.15864	5.12782	16.17	8.155	1.8956	2.39232
4578	487863.09	3859377.25	8.99558	2.83447	5.97729	6.08441	12.45	7.046	2.3631	2.83447
4579	488363.09	3859377.25	8.89861	3.11935	6.31123	7.59328	10.77	14.32	2.8589	3.11935
4580	488863.09	3859377.25	8.90386	4.13117	6.92122	10.27341	21.62	10.73	4.1839	4.13117
4581	489363.09	3859377.25	6.68384	7.81667	11.57916	11.75819	24.26	7.042	7.8113	7.81667
4582	489863.09	3859377.25	7.90854	9.34881	76.98858	31.52863	13.18	22.61	9.0449	9.34881
4583	490363.09	3859377.25	5.87381	4.52438	26.16407	9.6722	12.08	8.213	3.9444	4.52438
4584	490863.09	3859377.25	5.14653	2.28292	14.96076	5.22476	17.46	4.604	2.0362	2.28292
4585	491363.09	3859377.25	4.88758	0.92623	5.57377	3.50985	19.94	2.02	1.7746	0.92623
4586	491863.09	3859377.25	3.99391	1.18063	6.5396	3.80956	14.3	2.489	1.4671	1.18063
4587	492363.09	3859377.25	3.81537	1.11484	5.65741	3.51436	10.42	2.33	1.3458	1.11484
4588	492863.09	3859377.25	3.62403	1.08654	5.10703	3.02677	12.1	2.291	1.2315	1.08654
4589	493363.09	3859377.25	3.5645	1.01299	3.64985	2.48566	10.26	2.352	1.1276	1.01299
4590	493863.09	3859377.25	3.39301	1.05145	3.04895	2.60998	9.86	2.967	1.0968	1.05145
4591	494363.09	3859377.25	3.23737	1.08237	2.61549	2.40593	8.859	5.26	1.0904	1.08237
4592	494863.09	3859377.25	3.04217	0.98818	1.59753	1.81634	7.983	11.07	1.0276	0.98818
4593	495363.09	3859377.25	2.84312	0.74879	1.42662	1.80453	8.39	6.537	0.8124	0.74879
4594	495863.09	3859377.25	2.66927	0.61358	1.22444	1.55522	7.019	3.664	0.6033	0.61358
4595	496363.09	3859377.25	2.57202	0.56307	1.18214	1.50825	6.641	3.905	0.5502	0.56307
4596	496863.09	3859377.25	2.36521	0.54592	0.99789	1.31393	6.16	2.851	0.531	0.54592
4597	497363.09	3859377.25	2.35795	0.52551	1.05211	1.37373	7.349	2.509	0.5125	0.52551
4598	497863.09	3859377.25	2.35393	0.52673	1.37481	1.57009	8.052	2.425	0.5266	0.52673
4599	498363.09	3859377.25	2.28647	0.73825	1.70358	1.94768	7.568	2.658	0.6846	0.73825
4600	471363.09	3859877.25	1.32226	0.40241	0.85489	0.75943	3.479	0.758	0.4093	0.40241
4601	471863.09	3859877.25	1.35417	0.40837	0.90648	0.7899	3.914	0.773	0.4135	0.40837
4602	472363.09	3859877.25	1.38901	0.4154	0.86506	0.81623	4.35	0.775	0.4204	0.4154
4603	472863.09	3859877.25	1.40073	0.42922	0.81973	0.84638	4.637	0.799	0.4292	0.42922
4604	473363.09	3859877.25	1.41079	0.44031	0.89014	0.87169	4.792	0.834	0.4364	0.44031
4605	473863.09	3859877.25	1.42973	0.44251	0.94954	0.89898	4.867	0.855	0.4382	0.44251
4606	474363.09	3859877.25	1.48499	0.40951	0.78413	0.8764	4.969	0.733	0.4206	0.40951
4607	474863.09	3859877.25	1.42635	0.34108	0.81569	0.76659	4.224	0.643	0.3843	0.34108
4608	475363.09	3859877.25	1.10121	0.26047	0.67187	0.57356	2.67	0.601	0.2569	0.26047
4609	475863.09	3859877.25	0.80238	0.22436	0.48188	0.39697	1.876	0.436	0.2257	0.22436
4610	476363.09	3859877.25	0.60557	0.19995	0.29559	0.34626	1.69	0.393	0.1979	0.19995
4611	476863.09	3859877.25	0.5971	0.2058	0.37168	0.36965	1.908	0.404	0.2035	0.2058
4612	477363.09	3859877.25	0.5952	0.20872	0.54727	0.3851	2.184	0.414	0.2088	0.20872
4613	477863.09	3859877.25	0.87021	0.24321	0.62437	0.46908	2.629	0.482	0.2421	0.24321

6.67802968	0.389645909	3.667E-05	0.020843	0.721601	0.05513	1.487997	1.43E+00	7.92E+00
9.08676966	0.441082789	6.761E-05	0.026577	0.986512	0.06609	1.826393	1.62E+00	1.08E+01
11.9190163	0.509862301	8.772E-05	0.033292	1.364189	0.08894	1.971006	1.88E+00	1.40E+01
17.790307	0.630466547	0.0001057	0.045718	2.223352	0.10073	2.834711	2.32E+00	2.13E+01
20.8828762	0.773824918	0.0001336	0.061048	3.31184	0.11269	3.359949	2.85E+00	2.57E+01
22.9071318	0.925568331	0.0001946	0.071104	3.905572	0.14404	3.693811	3.41E+00	2.82E+01
24.0855217	1.183343747	0.0002837	0.076104	4.037239	0.19178	4.409858	4.36E+00	2.96E+01
25.0231002	1.309654994	0.0003221	0.079815	3.83084	0.22122	4.847308	4.82E+00	3.05E+01
25.3636584	1.456411708	0.0003525	0.084807	4.19874	0.24664	5.371766	5.36E+00	3.14E+01
24.908433	1.721962681	0.0003586	0.090077	4.300781	0.26289	6.138615	6.34E+00	3.11E+01
24.9927379	1.995861758	0.0003528	0.096249	4.709088	0.2742	6.488986	7.35E+00	3.12E+01
26.2015944	1.811261538	0.0004485	0.103728	5.38405	0.29845	6.283511	6.67E+00	3.34E+01
26.7531234	2.133716291	0.0003817	0.110126	5.015902	0.36056	7.766122	7.86E+00	3.43E+01
26.6552547	2.578603747	0.0004148	0.11767	4.670637	0.37762	9.764477	9.49E+00	3.47E+01
27.8385485	3.144963504	0.0005362	0.133686	5.578793	0.4408	11.94613	1.16E+01	3.75E+01
30.1741477	3.908445638	0.0003055	0.149214	6.45908	0.50007	14.8354	1.44E+01	4.16E+01
38.8987612	4.376659766	0.0004646	0.161497	7.559423	0.57681	16.41862	1.61E+01	5.19E+01
49.5230511	4.536954445	0.0006681	0.17134	6.966756	0.73694	16.23469	1.67E+01	6.15E+01
61.5006009	4.093378306	0.0008087	0.198717	6.187051	1.0685	14.38243	1.51E+01	7.24E+01
91.7845119	3.806402995	0.0009155	0.224253	6.240545	2.20897	12.64291	1.40E+01	1.03E+02
101.609575	4.418437224	0.0007453	0.270103	7.58337	1.14722	13.43066	1.63E+01	1.12E+02
93.8578061	5.23505541	0.0006223	0.320491	5.838869	0.99121	16.74363	1.93E+01	1.04E+02
92.8460435	5.761207596	0.000657	0.399969	5.052009	2.01509	20.25641	2.12E+01	1.05E+02
92.9008208	7.629963929	0.0007205	0.541142	10.13946	1.50958	29.64472	2.81E+01	1.14E+02
69.7376444	14.43680849	0.0012055	0.619352	11.37617	0.99058	55.34602	5.32E+01	9.94E+01
82.5158816	17.26655719	0.008015	1.660741	6.182404	3.18066	64.08659	6.36E+01	1.11E+02
61.2859783	8.356193573	0.0027238	0.509474	5.665505	1.15535	27.94764	3.08E+01	7.42E+01
53.6977065	4.216383556	0.0015575	0.275209	8.188187	0.64767	14.42686	1.55E+01	6.59E+01
50.995882	1.710677965	0.0005803	0.184878	9.351196	0.28412	12.57375	6.30E+00	6.88E+01
41.6715354	2.180535856	0.0006808	0.200665	6.703875	0.35016	10.39522	8.03E+00	5.35E+01
39.8086903	2.059026616	0.000589	0.185116	4.884065	0.32776	9.535762	7.58E+00	4.92E+01
37.8122928	2.00675862	0.0005317	0.159432	5.676051	0.32236	8.725409	7.39E+00	4.73E+01
37.1911706	1.870917237	0.00038	0.13093	4.812021	0.33092	7.989665	6.89E+00	4.54E+01
35.4018835	1.941949998	0.0003174	0.137478	4.62351	0.4174	7.771153	7.15E+00	4.31E+01
33.7779716	1.99905694	0.0002723	0.12673	4.154014	0.73991	7.725594	7.36E+00	4.12E+01
31.7412999	1.825095011	0.0001663	0.095674	3.743598	1.55697	7.280917	6.72E+00	3.95E+01
29.6644581	1.382959474	0.0001485	0.095052	3.934251	0.91961	5.755793	5.09E+00	3.67E+01
27.8505473	1.133236654	0.0001275	0.08192	3.291414	0.5154	4.274882	4.17E+00	3.30E+01
26.8358632	1.039948438	0.0001231	0.079446	3.114308	0.5494	3.898082	3.83E+00	3.17E+01
24.6780554	1.008273663	0.0001039	0.06921	2.888547	0.40105	3.761972	3.71E+00	2.91E+01
24.6023062	0.97057791	0.0001095	0.07236	3.446214	0.35289	3.631035	3.57E+00	2.95E+01
24.5603625	0.972831159	0.0001431	0.082703	3.77592	0.34114	3.731434	3.58E+00	2.99E+01
23.8565004	1.363492878	0.0001774	0.102592	3.548968	0.37388	4.850851	5.02E+00	2.91E+01
13.7961558	0.74322136	8.9E-05	0.040002	1.631304	0.10667	2.900322	2.74E+00	1.65E+01
14.1290973	0.754229037	9.437E-05	0.041607	1.835279	0.10872	2.929584	2.78E+00	1.70E+01
14.4926099	0.767212924	9.006E-05	0.042994	2.039742	0.10897	2.978615	2.82E+00	1.76E+01
14.6148936	0.792737437	8.534E-05	0.044582	2.174467	0.11244	3.041108	2.92E+00	1.79E+01
14.7198573	0.813219843	9.267E-05	0.045915	2.247178	0.1173	3.092051	2.99E+00	1.80E+01
14.9174729	0.817283079	9.885E-05	0.047353	2.282159	0.1203	3.104522	3.01E+00	1.83E+01
15.494043	0.756334532	8.163E-05	0.046164	2.329998	0.10318	2.980103	2.78E+00	1.89E+01
14.8822068	0.629949408	8.492E-05	0.040379	1.980752	0.09052	2.722621	2.32E+00	1.80E+01
11.4897711	0.48106873	6.995E-05	0.030212	1.252146	0.08453	1.820513	1.77E+00	1.34E+01
8.37184778	0.414376244	5.017E-05	0.02091	0.879711	0.0614	1.599378	1.53E+00	9.82E+00
6.31837766	0.369292788	3.077E-05	0.018239	0.792398	0.05524	1.401839	1.36E+00	7.60E+00
6.23000363	0.380097303	3.869E-05	0.019471	0.894853	0.0568	1.441729	1.40E+00	7.62E+00
6.21017947	0.385490326	5.697E-05	0.020285	1.024316	0.05819	1.479282	1.42E+00	7.76E+00
9.07957035	0.449190793	6.5E-05	0.024708	1.232798	0.06784	1.715012	1.65E+00	1.09E+01

4614	478363.09	3859877.25	1.23055	0.2737	0.8041	0.62886	3.692	0.65	0.2812	0.2737
4615	478863.09	3859877.25	1.82531	0.33955	0.82891	0.80656	5.634	0.769	0.3966	0.33955
4616	479363.09	3859877.25	2.10225	0.44339	1.24765	1.08898	6.176	0.925	0.4842	0.44339
4617	479863.09	3859877.25	2.2124	0.61605	1.73201	1.32203	6.813	1.133	0.609	0.61605
4618	480363.09	3859877.25	2.25095	0.7861	2.20534	1.48319	7.034	1.436	0.7563	0.7861
4619	480863.09	3859877.25	2.24475	0.88862	3.2165	1.69584	7.473	1.575	0.8492	0.88862
4620	481363.09	3859877.25	2.16945	0.93321	2.3129	1.85296	8.713	1.699	0.904	0.93321
4621	481863.09	3859877.25	2.11529	1.05608	2.7032	1.98785	9.486	1.764	0.9723	1.05608
4622	482363.09	3859877.25	2.21495	1.1081	3.39903	2.09934	9.117	1.853	0.9719	1.1081
4623	482863.09	3859877.25	2.30749	0.9775	4.03165	2.14245	8.229	2.009	0.8977	0.9775
4624	483363.09	3859877.25	2.44869	0.96718	4.40774	2.20939	10.21	2.323	0.8928	0.96718
4625	483863.09	3859877.25	2.33792	1.11066	2.49287	2.1878	10.58	2.585	1.039	1.11066
4626	484363.09	3859877.25	2.33558	1.18731	3.25657	2.54339	11.76	2.709	1.1253	1.18731
4627	484863.09	3859877.25	2.61154	1.25164	4.20299	2.6913	13.12	2.995	1.1985	1.25164
4628	485363.09	3859877.25	2.81945	1.3944	4.58481	2.80828	12.31	3.445	1.3487	1.3944
4629	485863.09	3859877.25	3.69687	1.71927	4.15133	3.10553	10.13	3.829	1.6058	1.71927
4630	486363.09	3859877.25	4.30355	2.1703	7.59949	3.72759	12.12	4.075	2.0404	2.1703
4631	486863.09	3859877.25	5.09253	2.72731	6.3232	3.98781	11.47	5.275	2.5914	2.72731
4632	487363.09	3859877.25	7.20914	2.96888	6.71907	4.17125	13.89	7.15	2.8969	2.96888
4633	487863.09	3859877.25	9.80349	2.84295	7.01265	5.07679	9.634	7.742	2.709	2.84295
4634	488363.09	3859877.25	9.25633	2.52393	9.07354	6.01157	8.06	12.06	2.2958	2.52393
4635	488863.09	3859877.25	7.80278	2.48648	7.5161	8.47271	11.5	6.154	2.328	2.48648
4636	489363.09	3859877.25	6.69853	3.05085	14.24394	9.56537	18.8	6.739	3.2018	3.05085
4637	489863.09	3859877.25	5.43954	4.07035	7.3966	6.81396	17.33	6.311	4.4494	4.07035
4638	490363.09	3859877.25	5.65104	8.57315	15.27162	10.44715	9.52	7.854	7.6659	8.57315
4639	490863.09	3859877.25	7.28241	16.42435	15.83893	35.42532	8.78	29.3	17.543	16.42435
4640	491363.09	3859877.25	4.86588	5.23477	10.63232	15.57815	10.82	8.964	5.2119	5.23477
4641	491863.09	3859877.25	4.07279	3.55216	8.81158	8.12642	13.62	6.094	3.4074	3.55216
4642	492363.09	3859877.25	3.52788	2.76862	7.41886	5.86955	13.29	5.172	2.5166	2.76862
4643	492863.09	3859877.25	3.24291	2.07705	5.46133	4.28671	9.797	3.942	1.8461	2.07705
4644	493363.09	3859877.25	3.117	1.70094	4.14809	3.65064	7.372	3.418	1.5795	1.70094
4645	493863.09	3859877.25	3.0722	1.39848	3.41125	3.08096	8.25	4.792	1.3987	1.39848
4646	494363.09	3859877.25	3.05235	1.14544	2.845	2.6404	8.881	8.626	1.2249	1.14544
4647	494863.09	3859877.25	2.98175	1.08839	2.58432	2.58721	7.624	4.969	1.1612	1.08839
4648	495363.09	3859877.25	2.92025	1.01993	2.35877	2.43659	7.69	3.59	1.044	1.01993
4649	495863.09	3859877.25	2.83675	0.90482	2.11455	2.24084	7.038	3.283	0.9143	0.90482
4650	496363.09	3859877.25	2.72992	0.70841	1.64282	1.69827	6.783	2.546	0.7348	0.70841
4651	496863.09	3859877.25	2.31997	0.50177	0.8608	1.19816	4.558	1.685	0.5223	0.50177
4652	497363.09	3859877.25	2.52028	0.54812	1.28045	1.61292	7.227	2.214	0.5352	0.54812
4653	497863.09	3859877.25	2.42072	0.75637	1.92802	2.00295	7.615	2.599	0.6922	0.75637
4654	498363.09	3859877.25	2.2562	0.83854	2.2719	1.88956	6.318	2.767	0.7637	0.83854
4655	471363.09	3860377.25	1.30878	0.411	0.81067	0.74362	4.023	0.765	0.4069	0.411
4656	471863.09	3860377.25	1.32344	0.418	0.77474	0.7442	4.088	0.788	0.4116	0.418
4657	472363.09	3860377.25	1.32564	0.42963	0.84607	0.76261	4.052	0.823	0.4206	0.42963
4658	472863.09	3860377.25	1.32416	0.44326	0.89871	0.7793	3.948	0.866	0.432	0.44326
4659	473363.09	3860377.25	1.32358	0.45114	1.00853	0.79504	3.903	0.901	0.4401	0.45114
4660	473863.09	3860377.25	1.33485	0.45027	1.20719	0.81233	3.761	0.941	0.4411	0.45027
4661	474363.09	3860377.25	1.36952	0.43959	1.20637	0.84398	3.681	0.905	0.4375	0.43959
4662	474863.09	3860377.25	1.40073	0.4132	1.11862	0.84231	3.984	0.812	0.4242	0.4132
4663	475363.09	3860377.25	1.36018	0.35822	0.84369	0.7606	4.639	0.686	0.4082	0.35822
4664	475863.09	3860377.25	1.29565	0.3424	0.69667	0.64765	4.717	0.687	0.372	0.3424
4665	476363.09	3860377.25	1.13116	0.26959	0.6513	0.57975	3.495	0.609	0.2801	0.26959
4666	476863.09	3860377.25	1.07595	0.26228	0.71439	0.55497	3.178	0.593	0.2753	0.26228
4667	477363.09	3860377.25	0.83356	0.23833	0.41415	0.45253	2.147	0.476	0.2331	0.23833
4668	477863.09	3860377.25	0.91514	0.2535	0.54261	0.51739	2.366	0.509	0.255	0.2535
4669	478363.09	3860377.25	1.47325	0.28707	0.63288	0.79723	3.196	0.685	0.2978	0.28707
4670	478863.09	3860377.25	1.87088	0.36844	0.85132	1.14516	4.902	0.807	0.3816	0.36844

12.8392748	0.505503556	8.371E-05	0.033125	1.7311	0.09143	1.992616	1.86E+00	1.53E+01
19.0448634	0.627123612	8.629E-05	0.042485	2.641928	0.10815	2.810125	2.31E+00	2.30E+01
21.9343914	0.818908374	0.0001299	0.057361	2.895965	0.1301	3.430519	3.01E+00	2.63E+01
23.0836711	1.13779856	0.0001803	0.069637	3.19461	0.15937	4.314772	4.19E+00	2.78E+01
23.4858929	1.451868271	0.0002296	0.078126	3.298232	0.20204	5.358942	5.35E+00	2.85E+01
23.4212036	1.641215091	0.0003349	0.089327	3.504275	0.2215	6.016747	6.04E+00	2.89E+01
22.6355407	1.723569507	0.0002408	0.097603	4.085491	0.23901	6.405237	6.35E+00	2.88E+01
22.0704478	1.950501264	0.0002814	0.104708	4.448027	0.24815	6.889096	7.18E+00	2.85E+01
23.1102772	2.046578337	0.0003539	0.110581	4.275108	0.26072	6.88605	7.53E+00	2.92E+01
24.0758182	1.805369845	0.0004197	0.112852	3.858684	0.28268	6.360528	6.65E+00	2.98E+01
25.5490665	1.786309572	0.0004589	0.116378	4.789034	0.32677	6.325668	6.58E+00	3.23E+01
24.3933178	2.051306467	0.0002595	0.11524	4.959969	0.36368	7.361761	7.55E+00	3.17E+01
24.3689028	2.19287332	0.000339	0.133971	5.51366	0.38115	7.972802	8.07E+00	3.25E+01
27.2482058	2.311686048	0.0004376	0.141762	6.151385	0.42131	8.492017	8.51E+00	3.63E+01
29.4174908	2.575353157	0.0004773	0.147924	5.772386	0.48461	9.555955	9.48E+00	3.85E+01
38.5722886	3.175363901	0.0004322	0.163581	4.750648	0.53858	11.37739	1.17E+01	4.69E+01
44.9022477	4.008382786	0.0007912	0.196347	5.684984	0.57324	14.45711	1.48E+01	5.51E+01
53.134283	5.037138855	0.0006583	0.210054	5.377673	0.74208	18.36129	1.85E+01	6.43E+01
75.2185034	5.48330069	0.0006995	0.219717	6.515168	1.00588	20.52558	2.02E+01	8.88E+01
102.287353	5.25071734	0.0007301	0.267415	4.51753	1.08917	19.19424	1.93E+01	1.13E+02
96.5784115	4.661511112	0.0009446	0.316654	3.779709	1.69648	16.26657	1.72E+01	1.06E+02
81.4124062	4.592343746	0.0007825	0.446292	5.394756	0.86575	16.49458	1.69E+01	9.23E+01
69.8909165	5.634693187	0.0014829	0.503847	8.813519	0.94801	22.68555	2.07E+01	8.77E+01
56.7549053	7.51763391	0.00077	0.358919	8.127514	0.88787	31.52539	2.77E+01	7.75E+01
58.9616475	15.83397083	0.0015899	0.550294	4.464073	1.1049	54.31553	5.83E+01	7.69E+01
75.9829857	30.33455366	0.0016489	1.865996	4.11704	4.12135	124.2974	1.12E+02	1.29E+02
50.7694692	9.668231101	0.0011069	0.820565	5.075089	1.261	36.92798	3.56E+01	6.89E+01
42.4945511	6.560575496	0.0009173	0.428052	6.386023	0.85728	24.14238	2.42E+01	5.67E+01
36.8090859	5.113435355	0.0007723	0.309173	6.23158	0.72764	17.83123	1.88E+01	4.82E+01
33.8357747	3.836156968	0.0005686	0.225798	4.593842	0.55455	13.08036	1.41E+01	4.20E+01
32.5220588	3.141509753	0.0004318	0.192294	3.456793	0.4808	11.19154	1.16E+01	3.94E+01
32.0546259	2.582888614	0.0003551	0.162287	3.868813	0.67418	9.910011	9.51E+00	3.97E+01
31.8475156	2.115542542	0.0002962	0.139081	4.164448	1.21349	8.679142	7.79E+00	4.04E+01
31.1108915	2.010175432	0.000269	0.136279	3.574885	0.69896	8.227521	7.40E+00	3.84E+01
30.4692147	1.883734901	0.0002456	0.128345	3.606176	0.50498	7.396904	6.94E+00	3.71E+01
29.597995	1.671135287	0.0002201	0.118034	3.30038	0.46183	6.478075	6.15E+00	3.55E+01
28.4833554	1.308380615	0.000171	0.089455	3.180562	0.35816	5.206394	4.82E+00	3.38E+01
24.2060317	0.926731895	8.961E-05	0.063112	2.137099	0.23703	3.700542	3.41E+00	2.79E+01
26.29602	1.012336899	0.0001333	0.084959	3.389076	0.31148	3.792298	3.73E+00	3.12E+01
25.2572339	1.396959171	0.0002007	0.105504	3.570609	0.36557	4.904203	5.14E+00	3.05E+01
23.5406702	1.548721053	0.0002365	0.099531	2.962861	0.38922	5.410736	5.70E+00	2.83E+01
13.6555085	0.759086451	8.44E-05	0.039169	1.886312	0.10768	2.883317	2.79E+00	1.65E+01
13.8084676	0.772014931	8.066E-05	0.0392	1.917059	0.11088	2.916335	2.84E+00	1.67E+01
13.8314219	0.793494677	8.808E-05	0.04017	1.900042	0.11573	2.979748	2.92E+00	1.67E+01
13.8159799	0.818668273	9.356E-05	0.041049	1.851429	0.12186	3.060876	3.01E+00	1.67E+01
13.8099283	0.833222048	0.000105	0.041878	1.83006	0.12674	3.118055	3.07E+00	1.67E+01
13.9275169	0.831615222	0.0001257	0.042789	1.76361	0.1324	3.125565	3.06E+00	1.68E+01
14.2892557	0.811890056	0.0001256	0.044456	1.726082	0.12736	3.099562	2.99E+00	1.71E+01
14.6148936	0.763149688	0.0001165	0.044368	1.868301	0.11424	3.005823	2.81E+00	1.76E+01
14.1918043	0.661605714	8.783E-05	0.040064	2.175222	0.09651	2.892386	2.44E+00	1.76E+01
13.5185132	0.63238735	7.253E-05	0.034114	2.211976	0.09666	2.635613	2.33E+00	1.68E+01
11.8022624	0.497912692	6.78E-05	0.030538	1.638854	0.08569	1.984539	1.83E+00	1.42E+01
11.226214	0.484411665	7.437E-05	0.029233	1.490319	0.08336	1.950316	1.78E+00	1.35E+01
8.69717271	0.440177795	4.312E-05	0.023837	1.006877	0.06695	1.651598	1.62E+00	1.03E+01
9.54835961	0.468195658	5.649E-05	0.027253	1.109618	0.07158	1.806484	1.72E+00	1.13E+01
15.3715506	0.530196953	6.589E-05	0.041993	1.498713	0.09639	2.109808	1.95E+00	1.77E+01
19.5203302	0.680481295	8.863E-05	0.06032	2.298468	0.11351	2.703419	2.51E+00	2.29E+01

4671	479363.09	3860377.25	2.06075	0.45924	1.21225	1.47809	5.936	1	0.4531	0.45924	21.50139	0.848182146	0.0001262	0.077857	2.783457	0.14064	3.210164	3.12E+00	2.54E+01
4672	479863.09	3860377.25	2.07394	0.55116	2.16307	1.6826	7.069	1.251	0.515	0.55116	21.6390114	1.017951554	0.0002252	0.088629	3.314837	0.17604	3.648961	3.75E+00	2.61E+01
4673	480363.09	3860377.25	2.02442	0.6436	2.73574	1.65092	7.649	1.47	0.6064	0.6436	21.1223312	1.188681363	0.0002848	0.086961	3.58673	0.20679	4.296563	4.38E+00	2.61E+01
4674	480863.09	3860377.25	1.9285	0.7288	2.32075	1.62009	8.009	1.584	0.6828	0.7288	20.121524	1.34603943	0.0002416	0.085337	3.755705	0.22287	4.837601	4.96E+00	2.54E+01
4675	481363.09	3860377.25	1.87386	0.78729	2.85226	1.66136	7.6	1.615	0.7664	0.78729	19.5514229	1.454066113	0.0002969	0.087511	3.563762	0.22726	5.430291	5.35E+00	2.50E+01
4676	481863.09	3860377.25	1.8778	0.98302	2.78279	1.84774	6.536	1.701	0.8994	0.98302	19.5925319	1.815564874	0.0002897	0.097328	3.064809	0.23933	6.372361	6.68E+00	2.45E+01
4677	482363.09	3860377.25	1.95157	1.05334	3.29223	2.08648	7.598	1.844	0.9475	1.05334	20.3622311	1.945440688	0.0003427	0.109903	3.56275	0.25939	6.71345	7.16E+00	2.58E+01
4678	482863.09	3860377.25	2.04376	1.01258	3.14954	2.25904	9.644	2.02	0.9559	1.01258	21.3241203	1.870159997	0.0003279	0.118993	4.522341	0.28417	6.772684	6.89E+00	2.80E+01
4679	483363.09	3860377.25	2.17192	1.12788	3.39744	2.19444	9.781	2.152	1.0777	1.12788	22.6613121	2.083110527	0.0003537	0.11559	4.58655	0.30271	7.635964	7.67E+00	2.97E+01
4680	483863.09	3860377.25	2.22184	1.20572	4.20523	2.17154	11.01	2.277	1.1534	1.20572	23.1821659	2.226875222	0.0004378	0.114384	5.162791	0.3203	8.172468	8.20E+00	3.10E+01
4681	484363.09	3860377.25	2.13565	1.32186	3.90444	2.26169	11.04	2.419	1.2995	1.32186	22.2828793	2.441377169	0.0004065	0.119132	5.176113	0.34031	9.207356	8.99E+00	3.06E+01
4682	484863.09	3860377.25	2.42426	1.37551	4.1346	2.48266	10.5	2.608	1.3452	1.37551	25.2941695	2.540464731	0.0004304	0.130772	4.921921	0.36683	9.530944	9.35E+00	3.34E+01
4683	485363.09	3860377.25	2.6462	1.41062	3.33659	2.98042	7.96	2.906	1.3699	1.41062	27.6098402	2.605310292	0.0003474	0.156991	3.732719	0.40885	9.705952	9.59E+00	3.46E+01
4684	485863.09	3860377.25	2.92653	1.45963	4.7789	2.97344	10.31	2.975	1.4045	1.45963	30.5347388	2.695828119	0.0004975	0.156623	4.836001	0.41851	9.951318	9.93E+00	3.87E+01
4685	486363.09	3860377.25	3.55671	1.60106	4.31772	2.77319	9.422	3.56	1.4688	1.60106	37.1098915	2.957038817	0.0004495	0.146075	4.418194	0.50087	10.40677	1.09E+01	4.47E+01
4686	486863.09	3860377.25	4.16818	1.76668	4.08054	3.45407	11.13	4.192	1.6133	1.76668	43.4898284	3.262926647	0.0004248	0.18194	5.216989	0.58974	11.43081	1.20E+01	5.22E+01
4687	487363.09	3860377.25	5.99774	1.87815	5.46918	3.94811	11.64	5.988	1.749	1.87815	62.5790353	3.468803451	0.0005694	0.207963	5.457403	0.84241	12.3923	1.28E+01	7.22E+01
4688	487863.09	3860377.25	8.81621	2.2299	3.81075	4.53051	7.437	7.421	2.0209	2.2299	91.986301	4.118459557	0.0003967	0.23864	3.487352	1.04397	14.31852	1.52E+01	1.00E+02
4689	488363.09	3860377.25	9.82032	2.67768	6.14143	5.225	6.407	11	2.5191	2.67768	102.462953	4.945475934	0.0006394	0.275222	3.004182	1.54747	17.84859	1.82E+01	1.12E+02
4690	488863.09	3860377.25	8.80551	3.39196	7.19113	7.42665	6.754	5.562	3.3405	3.39196	91.8746596	6.264698003	0.0007486	0.391192	3.167174	0.78239	23.66844	2.31E+01	1.03E+02
4691	489363.09	3860377.25	6.88892	3.9519	9.45357	8.94956	13.18	3.99	3.9204	3.9519	71.8774018	7.298865564	0.0009842	0.47141	6.180979	0.56126	27.77709	2.69E+01	8.73E+01
4692	489863.09	3860377.25	4.71758	3.42366	7.57673	4.40508	15.29	3.985	3.4025	3.42366	49.2221412	6.323245547	0.0007888	0.232034	7.167767	0.56062	24.10787	2.33E+01	6.43E+01
4693	490363.09	3860377.25	4.58587	2.98226	6.39289	5.05786	12.2	4.326	3.4055	2.98226	47.8479095	5.508012555	0.0006655	0.266418	5.723065	0.60861	24.12913	2.03E+01	6.38E+01
4694	490863.09	3860377.25	4.39011	3.97767	8.07427	5.93286	7.21	4.462	4.3367	3.97767	45.8053948	7.346460839	0.0008406	0.312508	3.380814	0.62765	30.72694	2.70E+01	6.12E+01
4695	491363.09	3860377.25	4.95199	7.28456	11.72885	7.15365	6.824	5.117	6.7464	7.28456	51.6679211	13.45404088	0.001221	0.376812	3.19967	0.7199	47.80039	4.95E+01	6.77E+01
4696	491863.09	3860377.25	6.42131	7.6504	8.50395	10.64711	7.209	7.708	7.3751	7.6504	66.9984669	14.12972016	0.0008853	0.560827	3.380645	1.08427	52.25489	5.20E+01	8.64E+01
4697	492363.09	3860377.25	4.1268	4.46462	7.10843	10.2257	9.828	13.59	4.4048	4.46462	43.058079	8.245821295	0.00074	0.538629	4.608627	1.91201	31.20953	3.04E+01	5.92E+01
4698	492863.09	3860377.25	3.39602	3.38341	5.86749	8.23444	10.77	18.61	3.2988	3.38341	35.4332891	6.248906789	0.0006108	0.433742	5.050264	2.61842	23.37283	2.30E+01	5.02E+01
4699	493363.09	3860377.25	3.05659	2.55868	5.8221	6.22496	9.984	11.78	2.395	2.55868	31.8917548	4.725691779	0.0006061	0.327894	4.681591	1.65705	16.9693	1.74E+01	4.29E+01
4700	493863.09	3860377.25	2.72294	2.05134	5.41352	4.08987	7.033	11.46	1.8251	2.05134	28.4105277	3.788672509	0.0005636	0.21543	3.297848	1.61203	12.93163	1.39E+01	3.63E+01
4701	494363.09	3860377.25	2.63382	1.84371	4.63179	3.45067	5.528	11.69	1.5732	1.84371	27.4806702	3.405195331	0.0004822	0.181761	2.592049	1.64416	11.14697	1.25E+01	3.39E+01
4702	494863.09	3860377.25	2.49743	1.64012	4.18778	2.92295	6.156	9.181	1.4476	1.64012	26.0576084	3.029179734	0.000436	0.153964	2.886568	1.29161	10.25691	1.12E+01	3.25E+01
4703	495363.09	3860377.25	2.51476	1.44809	3.50641	2.6867	6.614	6.907	1.3194	1.44809	26.2384256	2.674514597	0.000365	0.141519	3.101286	0.97168	9.348071	9.85E+00	3.26E+01
4704	495863.09	3860377.25	2.60237	1.13436	2.56872	2.37102	6.293	4.691	1.1195	1.13436	27.1525281	2.095078606	0.0002674	0.124891	2.950749	0.65984	7.932203	7.71E+00	3.32E+01
4705	496363.09	3860377.25	2.63062	0.96214	1.94211	1.86929	6.38	2.704	0.9655	0.96214	27.4472821	1.777001066	0.0002022	0.098463	2.991854	0.38035	6.840774	6.54E+00	3.30E+01
4706	496863.09	3860377.25	2.59069	0.81481	1.55229	1.49759	6.335	2.089	0.8493	0.81481	27.0306617	1.504893507	0.0001616	0.078884	2.97058	0.29389	6.017243	5.54E+00	3.24E+01
4707	497363.09	3860377.25	2.51926	0.66059	1.25223	1.29715	4.858	1.705	0.6712	0.66059	26.2853776	1.22006063	0.0001304	0.068326	2.27823	0.23983	4.75534	4.49E+00	3.04E+01
4708	497863.09	3860377.25	2.43482	0.70551	1.55157	1.9004	5.445	2.241	0.6513	0.70551	25.4043501	1.303024531	0.0001615	0.100102	2.553124	0.3152	4.614341	4.80E+00	2.95E+01
4709	498363.09	3860377.25	2.27233	0.93312	1.8777	2.0356	5.381	2.718	0.8772	0.93312	23.7089669	1.723403283	0.0001955	0.107223	2.523146	0.38235	6.214995	6.35E+00	2.83E+01
4710	471363.09	3860877.25	1.24117	0.40931	0.92665	0.70727	3.295	0.811	0.4006	0.40931	12.9500814	0.755965147	9.647E-05	0.037255	1.545211	0.11403	2.838325	2.78E+00	1.55E+01
4711	471863.09	3860877.25	1.24372	0.41896	0.99578	0.73177	3.087	0.85	0.4095	0.41896	12.9766875	0.77378798	0.0001037	0.038545	1.447408	0.11953	2.901384	2.85E+00	1.54E+01
4712	472363.09	3860877.25	1.24549	0.42979	1.09263	0.75999	2.924	0.883	0.4206	0.42979	12.9951553	0.793790185	0.0001137	0.040032	1.371251	0.12425	2.980103	2.92E+00	1.54E+01
4713	472863.09	3860877.25	1.24132	0.44341	1.1629	0.79049	3.335	0.93	0.4337	0.44341	12.9516465	0.818945312	0.0001211	0.041638	1.563822	0.13078	3.072921	3.02E+00	1.56E+01
4714	473363.09	3860877.25	1.25082	0.44865	1.1894	0.83034	4.082	0.959	0.4374	0.44865	13.0507673	0.828623203	0.0001238	0.043737	1.913894	0.13493	3.098924	3.05E+00	1.60E+01
4715	473863.09	3860877.25	1.26818	0.447	1.2168	0.88045	4.771	0.959	0.4321	0.447	13.2318975	0.825575775	0.0001267	0.046377	2.237251	0.13494	3.061726	3.04E+00	1.65E+01
4716	474363.09	3860877.25	1.29441	0.44295	1.17499	0.96347	5.307	0.935	0.4247	0.44295	13.5055753	0.818095727	0.0001223	0.05075	2.488329	0.13154	3.009082	3.01E+00	1.70E+01
4717	474863.09	3860877.25	1.31368	0.44964	0.96422	1.05491	5.481	0.917	0.4251	0.44964	13.706634	0.830451659	0.0001004	0.055566	2.57001	0.12893	3.011633	3.06E+00	1.72E+01
4718	475363.09	3860877.25	1.38246	0.44435	0.81691	1.13897	5.285	0.862	0.4175	0.44435	14.4242687	0.820681422	8.505E-05	0.059994	2.478191	0.1212	2.958138	3.02E+00	1.78E+01
4719	475863.09	3860877.25	1.43281	0.42238	0.97254	1.16682	4.59	0.776	0.4218	0.42238	14.9496089	0.780104465	0.0001012	0.061461	2.152433	0.10918	2.988889	2.87E+00	1.82E+01
4720	476363.09	3860877.25	1.44015	0.36028	0.97537	1.076	3.786	0.732	0.4061	0.36028	15.0261928	0.665410381	0.0001015	0.056677	1.775511	0.10302	2.877011	2.45E+00	1.81E+01
4721	476863.09	3860877.25	1.48184	0.36083	0.77004	0.98158	3.791	0.719	0.3816	0.36083	15.4611767	0.66642619	8.017E-05	0.051704	1.777748	0.10116	2.703561	2.45E+00	1.83E+01
4722	477363.09	3860877.25	1.58862	0.36931	0.70156	0.97587	4.057	0.739	0.3814	0.36931	16.5752945	0.68208812	7.304E-05	0.051403	1.902429	0.10391	2.702498	2.51E+00	1.95E+01
4723	477863.09	3860877.25	1.55556	0.30481	0.57919	0.8627	3.503	0.707	0.3155	0.30481	16.2303541	0.562961414	6.03E-05	0.045442	1.64261	0.09942	2.23536	2.07E+00	1.87E+01
4724	478363.09	3860877.25	1.13739	0.24671	0.49289	0.6782	2.611	0.585	0.2531	0.24671	11.8672648	0.455655033	5.131E-05	0.035724	1.224456	0.08232	1.793517	1.68E+00	1.38E+01
4725	478863.09	3860877.25	1.8295	0.36214	1.09218	0.94513	4.798	0.746	0.3661	0.36214	19.0885809	0.668845663	0.0001137	0.049784	2.249959	0.10489	2.593596	2.46E+00	2.23E+01
4726	479363.09	3860877.25	1.97793	0.48363	1.73987	1.1985	6.947	1	0.4616	0.48363	20.6372652	0.893228663	0.0001811	0.06313	3.257689	0.14066	3.270248	3.29E+00	2.50E+01
4727	479863.09	3860877.25	1.90772	0.54944	2.16358	1.50424	7.448	1.249	0.5273	0.54944	19.9047103	1.014774841	0.0002252	0.079234	3.492688	0.17568	3.736111	3.74E+00	2.47E+01

4728	480363.09	3860877.25	1.77649	0.60523	2.40369	1.7531	6.479	1.42	0.5898	0.60523	18.5354868	1.117814825	0.0002502	0.092343	3.037968	0.19983	4.178804	4.12E+00	2.30E+01
4729	480863.09	3860877.25	1.66935	0.63247	2.18465	1.86681	5.51	1.573	0.6129	0.63247	17.4176127	1.16812508	0.0002274	0.098332	2.58382	0.22122	4.34283	4.30E+00	2.15E+01
4730	481363.09	3860877.25	1.63036	0.6844	2.82987	1.88559	5.604	1.71	0.6494	0.6844	17.0108001	1.26403593	0.0002946	0.099322	2.627865	0.2405	4.600879	4.65E+00	2.12E+01
4731	481863.09	3860877.25	1.65887	0.81008	2.5554	1.80245	7.791	1.783	0.7066	0.81008	17.3082668	1.496157549	0.000266	0.094942	3.653523	0.25076	5.006516	5.51E+00	2.23E+01
4732	482363.09	3860877.25	1.81007	0.80409	3.30416	1.76344	8.407	1.881	0.6887	0.80409	18.8858527	1.485094464	0.000344	0.092888	3.942157	0.26454	4.879759	5.47E+00	2.41E+01
4733	482863.09	3860877.25	1.96423	0.74161	3.29428	1.84632	8.61	1.931	0.7033	0.74161	20.4943226	1.369698548	0.000343	0.097253	4.037216	0.27164	4.983418	5.04E+00	2.62E+01
4734	483363.09	3860877.25	2.0869	0.79969	2.88763	1.98657	9.59	2.194	0.7576	0.79969	21.7742331	1.476967991	0.0003006	0.104641	4.496729	0.3087	5.367586	5.44E+00	2.81E+01
4735	483863.09	3860877.25	2.09242	0.87958	3.7876	2.27856	10.23	2.456	0.8297	0.87958	21.8318275	1.624518883	0.0003943	0.120021	4.796706	0.34554	5.878936	5.98E+00	2.86E+01
4736	484363.09	3860877.25	2.10849	0.94696	3.95981	2.53771	9.402	2.552	0.9336	0.94696	21.9994982	1.748964735	0.0004122	0.133672	4.408572	0.35903	6.614964	6.44E+00	2.88E+01
4737	484863.09	3860877.25	2.36062	1.11271	3.01029	2.3751	6.405	2.595	1.0981	1.11271	24.6301644	2.055092665	0.0003134	0.125106	3.003371	0.36502	7.780718	7.57E+00	3.04E+01
4738	485363.09	3860877.25	2.46152	1.23975	3.85471	2.10093	8.243	2.756	1.225	1.23975	25.6829317	2.289726102	0.0004013	0.110665	3.865507	0.38765	8.679567	8.43E+00	3.26E+01
4739	485863.09	3860877.25	2.45938	1.36839	4.74485	2.61796	9.289	3.06	1.3518	1.36839	25.6606035	2.527314621	0.000494	0.137899	4.355818	0.43043	9.577991	9.30E+00	3.34E+01
4740	486363.09	3860877.25	2.89954	1.6145	4.98059	2.97685	7.577	3.537	1.5251	1.6145	30.2531313	2.981861498	0.0005185	0.156803	3.552776	0.49751	10.80581	1.10E+01	3.73E+01
4741	486863.09	3860877.25	3.58933	1.83315	4.08548	3.21394	10.09	4.113	1.7067	1.83315	37.450241	3.385691796	0.0004253	0.169291	4.732628	0.57865	12.09244	1.25E+01	4.59E+01
4742	487363.09	3860877.25	4.34322	1.98111	3.75373	3.60217	10.43	4.827	1.855	1.98111	45.3161554	3.658962919	0.0003908	0.189741	4.891718	0.679	13.14356	1.35E+01	5.44E+01
4743	487863.09	3860877.25	5.82429	2.11344	4.63782	3.82897	6.025	6.692	1.9824	2.11344	60.769298	3.903366593	0.0004828	0.201687	2.825074	0.94135	14.04574	1.44E+01	6.83E+01
4744	488363.09	3860877.25	8.94124	2.37379	5.32119	4.40906	5.226	8.981	2.1027	2.37379	93.2908351	4.384213692	0.000554	0.232243	2.450614	1.26341	14.89867	1.61E+01	1.00E+02
4745	488863.09	3860877.25	8.57505	2.60742	7.78884	6.25978	5.435	5.303	2.287	2.60742	89.4700932	4.815710936	0.0008109	0.329728	2.548684	0.74602	16.20443	1.77E+01	9.64E+01
4746	489363.09	3860877.25	7.06263	2.49562	6.67356	8.37383	7.097	3.925	2.3623	2.49562	73.6898518	4.609224646	0.0006948	0.441084	3.327882	0.55216	16.73761	1.70E+01	8.24E+01
4747	489863.09	3860877.25	4.43416	2.83263	5.20139	3.77463	12.4	3.158	2.9289	2.83263	46.2650023	5.231657067	0.0005415	0.198825	5.812469	0.44424	20.7526	1.93E+01	5.94E+01
4748	490363.09	3860877.25	3.87706	3.71072	4.54503	3.33803	12.18	3.026	3.7421	3.71072	40.4523495	6.853424031	0.0004732	0.175828	5.71281	0.42571	26.51413	2.52E+01	5.49E+01
4749	490863.09	3860877.25	3.88427	4.93161	4.66306	4.00516	9.622	3.282	5.0654	4.93161	40.527577	9.108317115	0.0004855	0.210968	4.512011	0.46165	35.89033	3.35E+01	5.72E+01
4750	491363.09	3860877.25	3.76287	6.15096	5.02755	4.28794	5.676	3.619	6.4409	6.15096	39.2609174	11.36036593	0.0005234	0.225863	2.66137	0.50915	45.63582	4.18E+01	5.78E+01
4751	491863.09	3860877.25	3.96057	6.50273	7.20942	4.25536	5.695	3.718	6.5271	6.50273	41.3236735	12.01005898	0.0007505	0.224147	2.670434	0.52299	46.24679	4.42E+01	5.88E+01
4752	492363.09	3860877.25	4.55773	10.63502	8.2072	5.8546	5.021	4.094	10.128	10.63502	47.5543032	19.64209146	0.0008544	0.308386	2.354668	0.57595	71.75883	7.23E+01	6.99E+01
4753	492863.09	3860877.25	3.94974	4.37951	6.05857	6.56292	6.761	4.952	4.1908	4.37951	41.2106758	8.088629451	0.0006307	0.345696	3.170311	0.69658	29.69333	2.98E+01	5.34E+01
4754	493363.09	3860877.25	3.12561	3.2974	5.30348	4.65015	8.296	5.624	3.0393	3.2974	32.6118936	6.090052712	0.0005521	0.244942	3.8902	0.79112	21.53454	2.24E+01	4.27E+01
4755	493863.09	3860877.25	2.6521	2.51938	4.18199	3.72901	8.632	5.259	2.4463	2.51938	27.6713995	4.6531076	0.0004354	0.196422	4.04764	0.73982	17.33256	1.71E+01	3.75E+01
4756	494363.09	3860877.25	2.39492	2.1982	3.71687	3.2672	7.412	4.898	2.1393	2.1982	24.9880427	4.059912013	0.0003869	0.172097	3.475559	0.68901	15.15778	1.49E+01	3.36E+01
4757	494863.09	3860877.25	2.27609	1.94145	3.83613	3.37962	5.282	5.239	1.8207	1.94145	23.7481979	3.585713846	0.0003994	0.178018	2.476756	0.73706	12.90025	1.32E+01	3.04E+01
4758	495363.09	3860877.25	2.21404	1.68647	3.9039	3.11166	4.306	5.131	1.5333	1.68647	23.1007825	3.114784738	0.0004064	0.163904	2.019171	0.72181	10.86363	1.15E+01	2.85E+01
4759	495863.09	3860877.25	2.12746	1.47204	3.73219	2.67455	4.639	4.825	1.3861	1.47204	22.1974268	2.718748467	0.0003885	0.140879	2.175476	0.67877	9.820877	1.00E+01	2.77E+01
4760	496363.09	3860877.25	2.18305	1.3921	3.48971	2.55691	5.44	4.564	1.181	1.3921	22.77744	2.571105228	0.0003633	0.134683	2.550883	0.64199	8.368024	9.47E+00	2.76E+01
4761	496863.09	3860877.25	2.3126	1.1206	2.68739	2.2677	5.805	3.578	1.0145	1.1206	24.1291348	2.069664908	0.0002798	0.119449	2.721907	0.50327	7.188099	7.62E+00	2.91E+01
4762	497363.09	3860877.25	2.26689	1.01269	2.51068	2.05217	4.945	3.033	0.889	1.01269	23.6522072	1.870363159	0.0002614	0.108096	2.31896	0.4266	6.299027	6.89E+00	2.78E+01
4763	497863.09	3860877.25	2.26097	0.8822	2.15372	1.83514	5.166	2.754	0.7878	0.8822	23.5904393	1.629357828	0.0002242	0.096664	2.42261	0.38741	5.581776	6.00E+00	2.77E+01
4764	498363.09	3860877.25	2.17199	0.99509	2.22215	1.84998	4.285	3.005	0.8942	0.99509	22.6620425	1.837857267	0.0002313	0.097446	2.009131	0.42277	6.335375	6.77E+00	2.66E+01
4765	471363.09	3861377.25	1.17659	0.40132	1.03854	0.79857	3.465	0.852	0.3876	0.40132	12.2762686	0.741208211	0.0001081	0.042064	1.624753	0.11981	2.746428	2.73E+00	1.48E+01
4766	471863.09	3861377.25	1.1839	0.40789	1.02847	0.85881	4.021	0.861	0.3949	0.40789	12.3525394	0.753342512	0.0001071	0.045237	1.885463	0.12118	2.797938	2.77E+00	1.52E+01
4767	472363.09	3861377.25	1.19444	0.41545	0.97348	0.91701	4.445	0.875	0.4037	0.41545	12.4625114	0.767305271	0.0001013	0.048303	2.084543	0.12312	2.860289	2.82E+00	1.55E+01
4768	472863.09	3861377.25	1.20174	0.4254	0.91138	0.96001	4.443	0.887	0.4117	0.4254	12.5386779	0.785682181	9.488E-05	0.050568	2.083225	0.12481	2.91676	2.89E+00	1.56E+01
4769	473363.09	3861377.25	1.21638	0.43181	1.00949	1.00347	4.469	0.887	0.4166	0.43181	12.6914283	0.797520975	0.0001051	0.052857	2.09582	0.12483	2.951478	2.94E+00	1.58E+01
4770	473863.09	3861377.25	1.23629	0.43471	1.05559	1.04632	4.451	0.904	0.418	0.43471	12.8991646	0.802877059	0.0001099	0.055114	2.086939	0.12713	2.961397	2.96E+00	1.60E+01
4771	474363.09	3861377.25	1.25321	0.44421	1.02097	1.07164	3.982	0.968	0.4266	0.44421	13.075704	0.820422853	0.0001063	0.056448	1.867419	0.1362	3.022332	3.02E+00	1.60E+01
4772	474863.09	3861377.25	1.29918	0.45425	0.97405	1.12216	3.492	1.013	0.4335	0.45425	13.5553444	0.838965987	0.0001014	0.059109	1.63733	0.14256	3.071291	3.09E+00	1.62E+01
4773	475363.09	3861377.25	1.32161	0.46652	1.072	1.13053	3.677	1.094	0.4457	0.46652	13.7893738	0.861627765	0.0001116	0.05955	1.724319	0.15393	3.157804	3.17E+00	1.66E+01
4774	475863.09	3861377.25	1.38788	0.47064	1.20215	1.12797	3.984	1.094	0.4427	0.47064	14.4808197	0.869237098	0.0001252	0.059415	1.86808	0.15396	3.136902	3.20E+00	1.74E+01
4775	476363.09	3861377.25	1.47541	0.45259	1.43518	1.08929	4.251	1.038	0.4314	0.45259	15.3940875	0.83590009	0.0001494	0.057377	1.993155	0.14607	3.056625	3.08E+00	1.84E+01
4776	476863.09	3861377.25	1.57495	0.43316	1.51409	1.02942	4.626	0.997	0.4253	0.43316	16.4326649	0.800014324	0.0001576	0.054224	2.169431	0.14022	3.013121	2.95E+00	1.97E+01
4777	477363.09	3861377.25	1.659	0.42732	1.0915	1.05092	4.936	0.96	0.4234	0.42732	17.3096232	0.789228278	0.0001136	0.055356	2.314374	0.13502	3.000154	2.91E+00	2.07E+01
4778	477863.09	3861377.25	1.66013	0.36496	0.97287	1.02653	4.891	0.719	0.3723	0.36496	17.3214134	0.674053993	0.0001013	0.054072	2.293493	0.10121	2.638163	2.48E+00	2.06E+01
4779	478363.09	3861377.25	1.30569	0.25672	0.76697	0.77823	2.956	0.598	0.2713	0.25672	13.6232682	0.474142759	7.985E-05	0.040993	1.385909	0.08413	1.922471	1.75E+00	1.58E+01
4780	478863.09	3861377.25	1.49569	0.2686	0.7639	1.00649	3.472	0.668	0.2689	0.2686	15.6056844	0.496084236	7.953E-05	0.053016	1.628041	0.094	1.905112	1.83E+00	1.80E+01
4781	479363.09	3861377.25	1.80346	0.46727	1.36578	1.59662	5.518	0.939	0.4482	0.46727	18.8168855	0.863012959	0.0001422	0.0841	2.587698	0.13211	3.175588	3.18E+00	2.25E+01
4782	479863.09	3861377.25	1.68343	0.52898	1.9859	1.59863	4.769	1.278	0.5203	0.52898	17.5645202	0.976986742	0.0002067	0.084206	2.236412	0.17983	3.686797	3.60E+00	2.11E+01
4783	480363.09	3861377.25	1.5457	0.6301	2.09869	1.50491	4.713	1.511	0.6066	0.6301	16.1274772	1.163747866	0.0002185	0.07927	2.210044	0.21257	4.298263	4.28E+00	1.98E+01
4784	480863.09	3861377.25	1.47055	0.66095	1.76481	1.47767	6.07	1.56	0.6378	0.66095	15.3433794	1.220725523	0.0001837	0.077835	2.846128	0.21948	4.519185	4.49E+00	1.97E+01

4785	481363.09	3861377.25	1.4558	0.72317	2.04374	1.46109	7.356	1.648	0.6774	0.72317
4786	481863.09	3861377.25	1.50734	0.83043	2.35899	1.54467	7.412	1.714	0.7232	0.83043
4787	482363.09	3861377.25	1.70331	0.79691	2.65987	1.75076	7.268	1.833	0.6928	0.79691
4788	482863.09	3861377.25	1.81704	0.73627	3.0234	2.05336	8.295	2.083	0.663	0.73627
4789	483363.09	3861377.25	1.92623	0.7568	2.66491	2.14658	9.036	2.166	0.6769	0.7568
4790	483863.09	3861377.25	1.97069	0.7683	3.83437	2.0458	8.322	2.257	0.6923	0.7683
4791	484363.09	3861377.25	1.99126	0.788	2.98047	1.7977	6.005	2.478	0.7253	0.788
4792	484863.09	3861377.25	2.05687	0.76699	2.758	1.91754	6.708	2.189	0.7531	0.76699
4793	485363.09	3861377.25	2.11889	0.82738	3.26855	2.40193	8.244	2.126	0.8133	0.82738
4794	485863.09	3861377.25	2.16734	0.88199	2.95956	2.60575	7.128	2.236	0.8651	0.88199
4795	486363.09	3861377.25	2.40449	0.9851	2.83768	2.77884	7.661	2.617	0.9339	0.9851
4796	486863.09	3861377.25	2.8311	1.16439	3.7055	3.0406	8.405	2.513	1.0266	1.16439
4797	487363.09	3861377.25	3.27675	1.26233	4.37305	3.20166	9.829	3.391	1.1013	1.26233
4798	487863.09	3861377.25	3.70436	1.30234	3.88981	3.25919	5.107	3.2	1.1971	1.30234
4799	488363.09	3861377.25	5.49877	1.51145	4.1424	3.7321	4.242	4.574	1.3905	1.51145
4800	488863.09	3861377.25	6.79174	1.84866	4.44032	6.36391	4.798	4.501	1.6191	1.84866
4801	489363.09	3861377.25	6.43134	2.1782	3.32383	8.39525	3.978	3.221	1.9291	2.1782
4802	489863.09	3861377.25	4.88012	2.34895	3.77564	3.68205	8.824	2.832	2.3123	2.34895
4803	490363.09	3861377.25	3.38076	2.68187	3.35847	2.78758	10.16	2.717	2.809	2.68187
4804	490863.09	3861377.25	3.27068	3.21225	3.77612	2.95991	9.786	2.533	3.3636	3.21225
4805	491363.09	3861377.25	3.33482	3.81645	3.30252	3.20913	7.69	2.656	3.9199	3.81645
4806	491863.09	3861377.25	3.3265	4.60369	3.57576	3.43145	4.633	2.771	4.8381	4.60369
4807	492363.09	3861377.25	3.35346	6.19012	4.18278	3.18284	4.72	2.937	6.2519	6.19012
4808	492863.09	3861377.25	3.63796	11.40736	6.53843	3.81932	4.005	2.888	11.661	11.40736
4809	493363.09	3861377.25	3.68214	12.16492	6.25768	4.8909	5.115	3.409	11.628	12.16492
4810	493863.09	3861377.25	3.15613	5.75651	4.73203	4.31344	6.333	3.576	5.6764	5.75651
4811	494363.09	3861377.25	2.64796	4.04327	3.89253	3.17034	6.715	3.367	4.0316	4.04327
4812	494863.09	3861377.25	2.28512	3.09454	3.428	2.90614	6.881	3.371	3.0945	3.09454
4813	495363.09	3861377.25	2.02392	2.60726	2.83864	2.38284	5.756	2.95	2.6174	2.60726
4814	495863.09	3861377.25	1.88701	2.32303	2.57093	2.06385	4.057	2.901	2.3279	2.32303
4815	496363.09	3861377.25	1.87295	2.00785	2.6885	2.01473	3.407	3.028	2.0193	2.00785
4816	496863.09	3861377.25	1.88619	1.52419	2.95292	2.14055	3.645	3.374	1.4397	1.52419
4817	497363.09	3861377.25	1.86868	1.37414	2.97792	2.06292	4.422	3.585	1.2743	1.37414
4818	497863.09	3861377.25	1.87567	1.29523	2.90099	1.95191	4.546	3.476	1.1976	1.29523
4819	498363.09	3861377.25	1.88461	1.23629	2.75643	2.00679	4.072	3.25	1.1497	1.23629
4820	471363.09	3861877.25	1.13967	0.40645	0.85191	0.89815	4.093	0.815	0.3914	0.40645
4821	471863.09	3861877.25	1.15254	0.4129	0.81081	0.93117	3.98	0.842	0.3947	0.4129
4822	472363.09	3861877.25	1.16256	0.42217	0.92249	0.95562	3.773	0.891	0.4017	0.42217
4823	472863.09	3861877.25	1.16575	0.43194	1.04945	0.96466	3.435	0.949	0.4091	0.43194
4824	473363.09	3861877.25	1.1679	0.43734	1.06465	0.96429	3.08	1.015	0.4125	0.43734
4825	473863.09	3861877.25	1.20254	0.43908	1.02263	0.95794	3.135	1.064	0.413	0.43908
4826	474363.09	3861877.25	1.22778	0.4407	1.10422	0.95805	3.259	1.098	0.4155	0.4407
4827	474863.09	3861877.25	1.27717	0.44795	1.16602	0.9768	3.332	1.101	0.4233	0.44795
4828	475363.09	3861877.25	1.32075	0.45797	1.48947	1.05191	3.527	1.088	0.4338	0.45797
4829	475863.09	3861877.25	1.3513	0.46733	1.84932	1.15586	3.906	1.085	0.4432	0.46733
4830	476363.09	3861877.25	1.41487	0.47642	1.74885	1.28622	4.399	1.082	0.4527	0.47642
4831	476863.09	3861877.25	1.4923	0.48052	1.43616	1.43628	5.352	1.05	0.4684	0.48052
4832	477363.09	3861877.25	1.56798	0.46954	1.33027	1.52143	5.899	1.026	0.465	0.46954
4833	477863.09	3861877.25	1.60209	0.37104	0.96025	1.1917	5.004	0.762	0.3789	0.37104
4834	478363.09	3861877.25	1.15703	0.25053	0.54917	0.63772	2.599	0.554	0.25	0.25053
4835	478863.09	3861877.25	1.52457	0.28837	0.84863	0.77446	3.101	0.738	0.2915	0.28837
4836	479363.09	3861877.25	1.39353	0.27272	0.75174	0.72975	3.063	0.711	0.2742	0.27272
4837	479863.09	3861877.25	1.51825	0.50918	1.67593	1.27662	4.97	1.17	0.5085	0.50918
4838	480363.09	3861877.25	1.39892	0.56991	1.38017	1.31881	6.196	1.375	0.5467	0.56991
4839	480863.09	3861877.25	1.33516	0.59318	2.01332	1.41947	6.617	1.461	0.5653	0.59318
4840	481363.09	3861877.25	1.32986	0.65438	2.1025	1.63129	6.611	1.538	0.6026	0.65438
4841	481863.09	3861877.25	1.41114	0.74204	1.90304	1.78677	6.179	1.648	0.6383	0.74204

15.1894813	1.335641238	0.0002128	0.076962	3.449266	0.2319	4.79934	4.92E+00	2.02E+01
15.7272378	1.533742486	0.0002456	0.081364	3.475859	0.24111	5.124275	5.65E+00	2.05E+01
17.7719435	1.471833537	0.0002769	0.09222	3.407875	0.25786	4.908455	5.42E+00	2.25E+01
18.9585761	1.359835965	0.0003148	0.108159	3.889502	0.29301	4.697736	5.01E+00	2.43E+01
20.0978394	1.397753349	0.0002774	0.113069	4.237262	0.30469	4.795726	5.15E+00	2.58E+01
20.5617248	1.418992994	0.0003992	0.107761	3.90251	0.31753	4.905266	5.22E+00	2.60E+01
20.7763474	1.45537743	0.0003103	0.094692	2.816029	0.34863	5.139083	5.36E+00	2.53E+01
21.460907	1.416573521	0.0002871	0.101005	3.145477	0.30793	5.336269	5.22E+00	2.66E+01
22.1080094	1.528109363	0.0003403	0.126519	3.865699	0.29908	5.762666	5.63E+00	2.81E+01
22.6135255	1.628969974	0.0003081	0.137255	3.342508	0.31459	6.129758	6.00E+00	2.82E+01
25.0878939	1.81940648	0.0002954	0.146373	3.592362	0.36814	6.616806	6.70E+00	3.09E+01
29.5390442	2.150541784	0.0003858	0.160161	3.941125	0.35352	7.273619	7.92E+00	3.55E+01
34.1888534	2.331429684	0.0004553	0.168644	4.609096	0.47699	7.80325	8.58E+00	4.10E+01
38.6504375	2.40532518	0.000405	0.171675	2.394798	0.45021	8.481531	8.86E+00	4.37E+01
57.3728974	2.791535807	0.0004312	0.196585	1.989197	0.64347	9.852194	1.03E+01	6.26E+01
70.8634481	3.414337613	0.0004623	0.335213	2.250038	0.63324	11.47205	1.26E+01	7.64E+01
67.1031176	4.022973499	0.000346	0.442212	1.865426	0.45306	13.66858	1.48E+01	7.27E+01
50.9180461	4.338336058	0.0003931	0.193949	4.137785	0.39843	16.38334	1.60E+01	6.04E+01
35.2740698	4.953214553	0.0003496	0.146833	4.763375	0.38227	19.90299	1.82E+01	4.72E+01
34.1255205	5.932786991	0.0003931	0.155911	4.58874	0.35635	23.83225	2.18E+01	4.71E+01
34.7947424	7.048699482	0.0003438	0.169038	3.606218	0.37357	27.77419	2.60E+01	4.78E+01
34.7079335	8.502673248	0.0003723	0.180748	2.17232	0.38983	34.27975	3.13E+01	4.89E+01
34.9892279	11.43269154	0.0004355	0.167653	2.213228	0.41312	44.29675	4.21E+01	5.14E+01
37.9576352	21.06854604	0.0006807	0.201179	1.878223	0.40631	82.62501	7.76E+01	6.66E+01
38.4185992	22.46770305	0.0006515	0.257624	2.39839	0.47958	82.38765	8.27E+01	6.37E+01
32.9303322	10.6318461	0.0004926	0.227206	2.969576	0.50301	40.21913	3.91E+01	4.83E+01
27.6282037	7.467619163	0.0004052	0.166995	3.148699	0.47358	28.56541	2.75E+01	4.00E+01
23.8424148	5.71538537	0.0003569	0.153078	3.226806	0.47417	21.92529	2.10E+01	3.43E+01
21.1171143	4.815415428	0.0002955	0.125514	2.699066	0.41494	18.54551	1.77E+01	3.00E+01
19.6886269	4.290463744	0.0002676	0.108711	1.902602	0.40806	16.49415	1.58E+01	2.71E+01
19.5419281	3.708349711	0.0002799	0.106124	1.597786	0.42591	14.30754	1.37E+01	2.60E+01
19.6800713	2.81506564	0.0003074	0.112751	1.709337	0.47466	10.20094	1.04E+01	2.46E+01
19.497376	2.537934443	0.00031	0.108662	2.0735	0.50428	9.029088	9.34E+00	2.44E+01
19.570308	2.392193538	0.000302	0.102815	2.131585	0.48895	8.485428	8.81E+00	2.44E+01
19.6635859	2.283335739	0.000287	0.105706	1.909448	0.45719	8.14611	8.41E+00	2.42E+01
11.8910538	0.750682939	8.869E-05	0.047309	1.919474	0.11464	2.773069	2.76E+00	1.47E+01
12.0253364	0.76259561	8.441E-05	0.049049	1.866406	0.11841	2.796592	2.81E+00	1.48E+01
12.1298828	0.779716611	9.604E-05	0.050336	1.769209	0.12541	2.846119	2.87E+00	1.48E+01
12.1631665	0.797761075	0.0001093	0.050813	1.610522	0.13348	2.898267	2.94E+00	1.47E+01
12.1855991	0.807734474	0.0001108	0.050793	1.444402	0.14281	2.922924	2.97E+00	1.46E+01
12.5470249	0.810948124	0.0001065	0.050459	1.470048	0.1497	2.926325	2.99E+00	1.50E+01
12.8103732	0.813940144	0.000115	0.050464	1.528437	0.1544	2.943826	3.00E+00	1.53E+01
13.3256971	0.827330355	0.0001214	0.051452	1.562514	0.15491	2.999517	3.05E+00	1.59E+01
13.7804008	0.84583655	0.0001551	0.055408	1.654019	0.15308	3.0737	3.11E+00	1.64E+01
14.0991524	0.863123774	0.0001925	0.060884	1.831547	0.15259	3.140303	3.18E+00	1.70E+01
14.7624271	0.879912329	0.0001821	0.06775	2.062738	0.15221	3.207755	3.24E+00	1.79E+01
15.5703139	0.887484724	0.0001495	0.075655	2.509745	0.14771	3.3185	3.27E+00	1.92E+01
16.3599415	0.86720548	0.0001385	0.08014	2.766131	0.14438	3.294551	3.19E+00	2.03E+01
16.7158374	0.685283301	9.997E-05	0.062772	2.346528	0.10714	2.684431	2.52E+00	2.01E+01
12.0721841	0.462710289	5.717E-05	0.033591	1.218515	0.07799	1.771269	1.70E+00	1.39E+01
15.9070116	0.532597956	8.835E-05	0.040794	1.454175	0.10377	2.065241	1.96E+00	1.81E+01
14.5397705	0.503693569	7.826E-05	0.038439	1.436285	0.10008	1.942593	1.85E+00	1.67E+01
15.8410702	0.940417614	0.0001745	0.067245	2.330467	0.1646	3.603119	3.46E+00	1.95E+01
14.5960085	1.05258141	0.0001437	0.069467	2.905376	0.19349	3.873496	3.88E+00	1.88E+01
13.9307514	1.09555937	0.0002096	0.074769	3.103021	0.20552	4.005	4.03E+00	1.84E+01
13.8754524	1.208591221	0.0002189	0.085927	3.099983	0.21637	4.269638	4.45E+00	1.83E+01
14.7235092	1.370492726	0.0001981	0.094116	2.897395	0.23187	4.522657	5.05E+00	1.88E+01

4842	482363.09	3861877.25	1.64435	0.70631	2.5199	1.82286	7.373	1.75	0.6084	0.70631	17.1567685	1.304502072	0.0002623	0.096017	3.457158	0.2462	4.310379	4.80E+00	2.18E+01
4843	482863.09	3861877.25	1.80565	0.66793	2.75284	1.72665	8.062	1.743	0.5957	0.66793	18.8397355	1.233617064	0.0002866	0.09095	3.780253	0.24518	4.220395	4.54E+00	2.39E+01
4844	483363.09	3861877.25	1.91637	0.68917	3.08616	1.56865	7.331	1.82	0.6073	0.68917	19.9949624	1.272845766	0.0003213	0.082627	3.437839	0.25602	4.302656	4.69E+00	2.47E+01
4845	483863.09	3861877.25	1.91425	0.69564	3.4653	1.52389	5.307	1.952	0.6316	0.69564	19.9728428	1.284795375	0.0003608	0.080269	2.48832	0.27464	4.474972	4.73E+00	2.38E+01
4846	484363.09	3861877.25	1.81828	0.69888	2.42176	1.96311	5.424	1.762	0.6685	0.69888	18.971514	1.290779414	0.0002521	0.103405	2.543619	0.24793	4.736209	4.75E+00	2.31E+01
4847	484863.09	3861877.25	1.84403	0.72617	2.99531	2.2478	7.195	1.8	0.7003	0.72617	19.2401835	1.341182015	0.0003118	0.118401	3.373794	0.25328	4.961736	4.94E+00	2.44E+01
4848	485363.09	3861877.25	1.91264	0.74729	3.04841	2.3173	7.345	1.71	0.7217	0.74729	19.9560445	1.380189086	0.0003174	0.122062	3.444385	0.24058	5.113576	5.08E+00	2.52E+01
4849	485863.09	3861877.25	1.97435	0.75192	2.40506	2.42348	5.247	1.944	0.7346	0.75192	20.5999124	1.388740351	0.0002504	0.127655	2.460306	0.27344	5.204906	5.11E+00	2.49E+01
4850	486363.09	3861877.25	2.10877	0.79833	2.73581	2.60429	7.273	2.157	0.7835	0.79833	22.0024196	1.474456172	0.0002848	0.137179	3.41067	0.30344	5.551238	5.43E+00	2.75E+01
4851	486863.09	3861877.25	2.32667	0.95431	4.3539	2.74976	7.11	2.2	0.8465	0.95431	24.2759379	1.762539638	0.0004533	0.144841	3.334222	0.30954	5.9979	6.49E+00	2.93E+01
4852	487363.09	3861877.25	2.7639	1.07424	3.83921	2.73525	9.231	2.89	0.937	1.07424	28.8378949	1.984041434	0.0003997	0.144077	4.328626	0.40662	6.639266	7.30E+00	3.50E+01
4853	487863.09	3861877.25	3.01107	1.1358	2.84625	2.85829	4.384	2.596	1.0017	1.1358	31.4168096	2.097738179	0.0002963	0.150558	2.055568	0.36516	7.097264	7.72E+00	3.55E+01
4854	488363.09	3861877.25	3.75361	1.14933	4.29861	3.68864	3.675	3.083	1.0663	1.14933	39.1643007	2.122727083	0.0004475	0.194296	1.723109	0.43371	7.554979	7.82E+00	4.34E+01
4855	488863.09	3861877.25	5.20949	1.2345	3.39568	6.41464	4.163	3.898	1.1536	1.2345	54.3546167	2.280029742	0.0003535	0.337885	1.951989	0.54839	8.173389	8.39E+00	5.93E+01
4856	489363.09	3861877.25	5.65908	1.39109	3.3817	8.13202	3.475	3.375	1.2455	1.39109	59.045535	2.569239833	0.0003521	0.428347	1.629616	0.47483	8.824746	9.46E+00	6.35E+01
4857	489863.09	3861877.25	5.21602	1.56166	2.8563	3.61001	4.919	2.716	1.3806	1.56166	54.4227492	2.884269945	0.0002974	0.190154	2.306745	0.38212	9.782191	1.06E+01	5.93E+01
4858	490363.09	3861877.25	3.76704	1.60196	2.6563	2.61245	8.829	2.302	1.5221	1.60196	39.3044262	2.95870105	0.0002765	0.137608	4.140299	0.32377	10.78434	1.09E+01	4.68E+01
4859	490863.09	3861877.25	2.7764	1.72898	2.59633	2.4262	8.367	2.23	1.6895	1.72898	28.968317	3.193297549	0.0002703	0.127798	3.923494	0.31372	11.97093	1.18E+01	3.67E+01
4860	491363.09	3861877.25	2.73864	2.01564	2.17953	2.56868	7.771	2.054	2.0144	2.01564	28.5743379	3.722737262	0.0002269	0.135303	3.643929	0.28889	14.27247	1.37E+01	3.69E+01
4861	491863.09	3861877.25	2.90071	2.24671	2.67264	2.69927	6.269	2.121	2.3222	2.24671	30.2653389	4.149506377	0.0002782	0.142182	2.939425	0.29837	16.45334	1.53E+01	3.90E+01
4862	492363.09	3861877.25	2.94132	2.63526	2.74113	2.67191	3.856	2.289	2.8322	2.63526	30.6890542	4.867129347	0.0002854	0.14074	1.808204	0.32197	20.06723	1.79E+01	4.00E+01
4863	492863.09	3861877.25	2.98024	3.27341	2.81135	2.69015	4.089	2.228	3.3036	3.27341	31.0951365	6.045744965	0.0002927	0.141701	1.917303	0.31342	23.40741	2.23E+01	4.07E+01
4864	493363.09	3861877.25	3.10605	4.27486	4.26418	2.55487	3.607	2.235	4.3806	4.27486	32.407809	7.895348679	0.0004439	0.134575	1.691171	0.31444	31.03841	2.91E+01	4.44E+01
4865	493863.09	3861877.25	3.28721	7.02456	5.50195	3.52951	3.836	2.585	6.8095	7.02456	34.2979907	12.9738402	0.0005728	0.185914	1.798755	0.36361	48.24762	4.78E+01	5.01E+01
4866	494363.09	3861877.25	3.0737	8.53501	4.89641	3.74622	4.924	2.849	8.4193	8.53501	32.0702766	15.76352908	0.0005097	0.197329	2.308728	0.40083	59.65399	5.80E+01	5.24E+01
4867	494863.09	3861877.25	2.69416	15.58387	3.79711	3.17121	5.613	2.825	15.951	15.58387	28.1102438	28.78224958	0.0003953	0.167041	2.632147	0.39748	113.0157	1.06E+02	6.71E+01
4868	495363.09	3861877.25	2.31592	10.47064	3.13519	2.49182	5.894	2.505	10.447	10.47064	24.1637749	19.33849382	0.0003264	0.131254	2.763857	0.3524	74.02225	7.12E+01	4.96E+01
4869	495863.09	3861877.25	2.03486	6.00507	2.81404	2.20825	5.753	2.501	6.0249	6.00507	21.2312597	11.09091795	0.000293	0.116318	2.697833	0.3518	42.68824	4.08E+01	3.73E+01
4870	496363.09	3861877.25	1.84751	4.43734	2.5434	2.09046	4.673	2.395	4.4648	4.43734	19.2764931	8.195437162	0.0002648	0.110113	2.1914	0.33694	31.63458	3.02E+01	3.16E+01
4871	496863.09	3861877.25	1.86991	1.69733	2.62352	1.91344	3.834	2.591	1.6557	1.69733	19.5102095	3.134842351	0.0002731	0.100789	1.79785	0.36451	11.73109	1.15E+01	2.51E+01
4872	497363.09	3861877.25	1.69762	2.72498	2.20909	1.59683	2.91	2.255	2.7391	2.72498	17.7125754	5.032835518	0.00023	0.084112	1.364611	0.31721	19.40723	1.85E+01	2.54E+01
4873	497863.09	3861877.25	1.62947	2.4636	2.12406	1.4945	2.786	2.166	2.4809	2.4636	17.001514	4.550086086	0.0002211	0.078721	1.30655	0.30477	17.57807	1.68E+01	2.41E+01
4874	498363.09	3861877.25	1.58386	2.2454	2.10583	1.49206	3.421	2.264	2.2612	2.2454	16.5256298	4.147086904	0.0002192	0.078593	1.604323	0.31842	16.0217	1.53E+01	2.34E+01
4875	471363.09	3862377.25	1.10977	0.40294	0.89645	0.85371	2.952	0.916	0.3879	0.40294	11.5790841	0.74420023	9.333E-05	0.044968	1.384245	0.12881	2.748695	2.74E+00	1.39E+01
4876	471863.09	3862377.25	1.11621	0.41096	1.02344	0.85545	2.644	0.967	0.3941	0.41096	11.6462776	0.759012574	0.0001065	0.04506	1.239635	0.13605	2.791986	2.79E+00	1.38E+01
4877	472363.09	3862377.25	1.10968	0.41992	1.0741	0.86839	2.694	1.006	0.401	0.41992	11.5781451	0.775561028	0.0001118	0.045742	1.263067	0.14151	2.841159	2.86E+00	1.38E+01
4878	472863.09	3862377.25	1.12073	0.42838	1.06166	0.88819	2.779	1.026	0.408	0.42838	11.6934382	0.791186019	0.0001105	0.046785	1.303305	0.14429	2.890544	2.91E+00	1.40E+01
4879	473363.09	3862377.25	1.14181	0.43204	1.12727	0.95307	2.855	1.029	0.4112	0.43204	11.9133821	0.797945767	0.0001174	0.050202	1.338877	0.14475	2.913146	2.94E+00	1.42E+01
4880	473863.09	3862377.25	1.18212	0.4317	1.20154	1.03441	2.991	1.019	0.4111	0.4317	12.3339673	0.797317813	0.0001251	0.054487	1.402336	0.14334	2.912934	2.94E+00	1.47E+01
4881	474363.09	3862377.25	1.22123	0.43462	1.18595	1.13593	3.28	1.01	0.4148	0.43462	12.742032	0.802710836	0.0001235	0.059834	1.537933	0.14204	2.938795	2.96E+00	1.53E+01
4882	474863.09	3862377.25	1.26034	0.44354	1.40697	1.23725	3.608	1.02	0.424	0.44354	13.1500968	0.819185413	0.0001465	0.065171	1.69187	0.14348	3.004335	3.02E+00	1.59E+01
4883	475363.09	3862377.25	1.26112	0.45148	1.5537	1.28951	4.097	1.062	0.431	0.45148	13.1582351	0.833850003	0.0001617	0.067924	1.921242	0.14934	3.053791	3.07E+00	1.61E+01
4884	475863.09	3862377.25	1.27696	0.4582	1.46543	1.30113	4.463	1.104	0.4375	0.4582	13.323506	0.846261343	0.0001526	0.068536	2.092763	0.15531	3.099916	3.12E+00	1.65E+01
4885	476363.09	3862377.25	1.34041	0.46394	1.37828	1.27463	4.716	1.136	0.4452	0.46394	13.9855287	0.856862696	0.0001435	0.06714	2.211587	0.15977	3.154048	3.15E+00	1.73E+01
4886	476863.09	3862377.25	1.40404	0.46843	1.25689	1.18807	4.601	1.142	0.4526	0.46843	14.6494294	0.865155393	0.0001308	0.06258	2.157638	0.16067	3.20648	3.19E+00	1.79E+01
4887	477363.09	3862377.25	1.47627	0.46843	1.18397	1.06287	4.383	1.142	0.4573	0.46843	15.4030606	0.865155393	0.0001233	0.055986	2.055418	0.1606	3.240348	3.19E+00	1.86E+01
4888	477863.09	3862377.25	1.56104	0.41312	0.85999	0.95898	3.453	0.93	0.417	0.41312	16.2875312	0.763001934	8.953E-05	0.050513	1.61938	0.13078	2.954454	2.81E+00	1.90E+01
4889	478363.09	3862377.25	1.51786	0.3581	0.8503	0.81574	3.103	0.791	0.3589	0.3581	15.837001	0.661384083	8.852E-05	0.042968	1.455159	0.11133	2.543078	2.44E+00	1.82E+01
4890	478863.09	3862377.25	1.47318	0.34545	0.95551	0.90938	3.703	0.812	0.3436	0.34545	15.3708202	0.638020473	9.947E-05	0.047901	1.736253	0.1142	2.434459	2.35E+00	1.80E+01
4891	479363.09	3862377.25	1.4372	0.40559	1.16839	1.10326	5.148	0.888	0.4115	0.40559	14.9954132	0.749094583	0.0001216	0.058113	2.413888	0.12495	2.915839	2.76E+00	1.85E+01
4892	479863.09	3862377.25	1.35586	0.50454	1.30846	1.37456	6.393	1.145	0.4949	0.50454	14.1467304	0.931847879	0.0001362	0.072404	2.997927	0.16107	3.506687	3.43E+00	1.84E+01
4893	480363.09	3862377.25	1.25174	0.55288	1.83344	1.54205	5.956	1.292	0.5259	0.55288	13.0603663	1.021128266	0.0001909	0.081226	2.792681	0.1818	3.726404	3.76E+00	1.71E+01
4894	480863.09	3862377.25	1.23655	0.57276	1.92023	1.56452	5.85	1.37	0.5426	0.57276	12.9018774	1.057845148	0.0001999	0.08241	2.743069	0.19269	3.844163	3.89E+00	1.69E+01
4895	481363.09	3862377.25	1.27888	0.62224	1.99001	1.56976	5.694	1.463	0.5755	0.62224	13.3435388	1.14923103	0.0002072	0.082686	2.670049	0.20588	4.077767	4.23E+00	1.73E+01
4896	481863.09	3862377.25	1.40061	0.68732	2.19267	1.48305	6.689	1.52	0.5941	0.68732	14.6136416	1.269428953	0.0002283	0.078118	3.136718	0.21376	4.209625	4.67E+00	1.88E+01
4897	482363.09	3862377.25	1.63969	0.65038	2.86339	1.38399	7.174	1.556	0.5581	0.65038	17.1081471	1.201203519	0.0002981	0.0729	3.363829	0.21889	3.954056	4.42E+00	2.15E+01
4898	482863.09	3862377.25	1.78021	0.62298	2.93719	1.30324	6.493	1.653	0.5438	0.62298	18.5743004	1.150597755	0.0003058	0.068647	3.044894	0.23256	3.853019	4.24E+00	2.27E+01

4899	483363.09	3862377.25	1.85797	0.62919	2.53478	1.52544	4.846	1.736	0.5624	0.62919	19.3856303	1.162067164	0.0002639	0.080351	2.27249	0.2442	3.984524	4.28E+00	2.29E+01
4900	483863.09	3862377.25	1.76203	0.62896	2.24184	1.89111	4.205	1.556	0.6033	0.62896	18.3846145	1.161642371	0.0002334	0.099612	1.971847	0.21884	4.274386	4.28E+00	2.18E+01
4901	484363.09	3862377.25	1.70119	0.65446	2.55121	2.09462	5.972	1.509	0.63	0.65446	17.7498239	1.208738975	0.0002656	0.110332	2.800545	0.21228	4.463848	4.45E+00	2.21E+01
4902	484863.09	3862377.25	1.64372	0.67956	2.62419	1.99284	6.822	1.544	0.6737	0.67956	17.1501952	1.25509681	0.0002732	0.104971	3.199051	0.21726	4.773408	4.62E+00	2.21E+01
4903	485363.09	3862377.25	1.79841	0.71147	2.07614	2.14791	5.604	1.567	0.7047	0.71147	18.764195	1.314032208	0.0002161	0.113139	2.627851	0.22047	4.99277	4.84E+00	2.32E+01
4904	485863.09	3862377.25	1.84298	0.75438	2.88501	2.27268	5.406	1.853	0.75	0.75438	19.2292281	1.393283789	0.0003003	0.119711	2.534977	0.26072	5.314091	5.13E+00	2.37E+01
4905	486363.09	3862377.25	1.95568	0.7962	2.72582	2.39302	6.725	1.941	0.7922	0.7962	20.4051139	1.47052222	0.0002838	0.12605	3.153397	0.27304	5.613306	5.41E+00	2.56E+01
4906	486863.09	3862377.25	1.81622	0.88473	4.06972	2.32183	6.427	1.966	0.8417	0.88473	18.9500204	1.63403055	0.0004237	0.1223	3.013636	0.27655	5.963748	6.02E+00	2.39E+01
4907	487363.09	3862377.25	2.40156	1.03221	2.5134	2.32525	8.461	2.527	0.9225	1.03221	25.0573229	1.906415148	0.0002617	0.12248	3.967699	0.35545	6.535962	7.02E+00	3.09E+01
4908	487863.09	3862377.25	2.60538	1.10963	3.54351	2.80652	3.809	2.218	0.9846	1.10963	27.1839338	2.049404134	0.0003689	0.147831	1.785963	0.31208	6.976034	7.55E+00	3.09E+01
4909	488363.09	3862377.25	2.93613	1.14751	3.46403	3.72267	3.228	2.312	1.0384	1.14751	30.634903	2.119365678	0.0003606	0.196088	1.513437	0.3253	7.357651	7.80E+00	3.43E+01
4910	488863.09	3862377.25	3.81249	1.14026	3.00079	6.42612	3.479	3.012	1.0833	1.14026	39.778641	2.105975467	0.0003124	0.33849	1.631168	0.42378	7.675288	7.75E+00	4.42E+01
4911	489363.09	3862377.25	4.79772	1.19264	3.40961	8.18496	3.265	2.978	1.1447	1.19264	50.0583035	2.202717434	0.000355	0.431135	1.53089	0.41893	8.110683	8.11E+00	5.46E+01
4912	489863.09	3862377.25	4.88882	1.27014	2.28734	3.6322	2.79	2.863	1.23	1.27014	51.0088199	2.345854173	0.0002381	0.191323	1.308285	0.40279	8.71464	8.64E+00	5.53E+01
4913	490363.09	3862377.25	4.39892	1.42982	2.18872	2.60476	6.487	2.368	1.3421	1.42982	45.8973163	2.640771265	0.0002279	0.137203	3.04186	0.33308	9.509121	9.72E+00	5.18E+01
4914	490863.09	3862377.25	3.05636	1.47979	1.72106	2.38591	8.062	2.081	1.4443	1.47979	31.889355	2.733062141	0.0001792	0.125676	3.780342	0.29276	10.2336	1.01E+01	3.90E+01
4915	491363.09	3862377.25	2.39658	1.54875	2.57435	1.98594	7.538	1.983	1.566	1.54875	25.0053628	2.860426135	0.000268	0.104608	3.53468	0.27898	11.09539	1.05E+01	3.23E+01
4916	491863.09	3862377.25	2.28433	1.72981	1.877	2.31671	6.311	1.876	1.7289	1.72981	23.8341722	3.194830497	0.0001954	0.122031	2.959494	0.26385	12.24988	1.18E+01	3.09E+01
4917	492363.09	3862377.25	2.51198	1.86273	2.33262	2.25038	5.179	1.623	1.8903	1.86273	26.2094197	3.440323857	0.0002428	0.118537	2.428697	0.22827	13.3931	1.27E+01	3.32E+01
4918	492863.09	3862377.25	2.63609	1.94443	2.37528	2.308	3.339	1.931	2.1987	1.94443	27.5043548	3.591217685	0.0002473	0.121572	1.565881	0.27161	15.57837	1.32E+01	3.54E+01
4919	493363.09	3862377.25	2.71907	2.16351	2.25673	2.34891	3.743	2.007	2.278	2.16351	28.370149	3.995842161	0.0002349	0.123727	1.755075	0.28236	16.14059	1.47E+01	3.60E+01
4920	493863.09	3862377.25	2.79692	2.64826	2.90481	1.99488	3.359	1.892	2.6505	2.64826	29.1824179	4.891139381	0.0003024	0.105078	1.575207	0.26616	18.77939	1.80E+01	3.68E+01
4921	494363.09	3862377.25	2.92335	3.87858	4.21351	2.6451	3.022	2.145	3.7584	3.87858	30.5015594	7.163448974	0.0004387	0.139328	1.417078	0.30177	26.62976	2.64E+01	3.98E+01
4922	494863.09	3862377.25	2.93254	5.01185	4.67876	3.09232	3.981	2.385	4.739	5.01185	30.5974457	9.25651443	0.0004871	0.162885	1.866913	0.33544	33.57781	3.41E+01	4.17E+01
4923	495363.09	3862377.25	2.65593	5.01573	4.01313	3.03868	4.665	2.436	4.9291	5.01573	27.7113608	9.263680502	0.0004178	0.16006	2.187386	0.3427	34.92452	3.41E+01	4.05E+01
4924	495863.09	3862377.25	2.35138	5.90123	3.10779	2.496	4.928	2.259	5.8733	5.90123	24.5337564	10.89913318	0.0003235	0.131474	2.310651	0.31772	41.6141	4.01E+01	3.97E+01
4925	496363.09	3862377.25	2.04555	8.10837	2.55709	2.02821	5.092	1.982	8.0999	8.10837	21.3427967	14.97555671	0.0002662	0.106834	2.387948	0.27884	57.39036	5.51E+01	4.13E+01
4926	496863.09	3862377.25	1.83768	35.042	2.33512	1.87815	4.924	1.976	35.111	35.042	19.1739291	64.71996941	0.0002431	0.09893	2.309005	0.27793	248.7767	2.38E+02	9.71E+01
4927	497363.09	3862377.25	1.67707	12.34475	2.21137	1.73969	3.85	1.985	12.472	12.34475	17.4981614	22.79983569	0.0002302	0.091637	1.805531	0.27925	88.36713	8.39E+01	4.69E+01
4928	497863.09	3862377.25	1.5424	28.37768	2.00342	1.51459	2.944	1.812	30.017	28.37768	16.0930457	52.41146571	0.0002086	0.07978	1.380409	0.25489	212.6833	1.93E+02	8.99E+01
4929	498363.09	3862377.25	1.47185	13.00578	1.76344	1.24919	2.328	1.67	13.054	13.00578	15.3569433	24.02070897	0.0001836	0.0658	1.091508	0.23498	92.49499	8.84E+01	4.48E+01
4930	471363.09	3862877.25	1.05575	0.38878	0.99329	0.8837	2.409	0.963	0.3747	0.38878	11.0154519	0.718047763	0.0001034	0.046548	1.129753	0.13544	2.655168	2.64E+00	1.31E+01
4931	471863.09	3862877.25	1.0481	0.39546	0.99312	0.95035	2.473	0.963	0.3789	0.39546	10.9356336	0.730385226	0.0001034	0.050059	1.15982	0.13551	2.684572	2.69E+00	1.30E+01
4932	472363.09	3862877.25	1.05716	0.40238	0.99968	1.03075	2.558	0.956	0.3846	0.40238	11.0301635	0.743165952	0.0001041	0.054294	1.199533	0.13449	2.724746	2.74E+00	1.32E+01
4933	472863.09	3862877.25	1.09046	0.40764	1.00386	1.10784	2.807	0.951	0.3904	0.40764	11.377608	0.752880781	0.0001045	0.058354	1.316425	0.13379	2.766054	2.77E+00	1.36E+01
4934	473363.09	3862877.25	1.11847	0.40703	0.97985	1.15856	3.047	0.974	0.391	0.40703	11.6698579	0.751754156	0.000102	0.061026	1.428942	0.13703	2.770164	2.77E+00	1.41E+01
4935	473863.09	3862877.25	1.14351	0.40468	1.01506	1.17442	3.422	1.001	0.3897	0.40468	11.9311195	0.747413881	0.0001057	0.061861	1.604646	0.14085	2.761165	2.75E+00	1.45E+01
4936	474363.09	3862877.25	1.17992	0.40695	1.22061	1.15386	3.811	1.032	0.3922	0.40695	12.311013	0.751606402	0.0001271	0.060779	1.786821	0.14523	2.77902	2.77E+00	1.51E+01
4937	474863.09	3862877.25	1.20067	0.41855	1.40149	1.10232	4.066	1.059	0.3982	0.41855	12.5275137	0.77303074	0.0001459	0.058064	1.906785	0.14898	2.821249	2.85E+00	1.54E+01
4938	475363.09	3862877.25	1.2027	0.42626	1.4164	1.0041	4.223	1.071	0.4037	0.42626	12.5486943	0.787270537	0.0001475	0.05289	1.980246	0.15067	2.860431	2.90E+00	1.55E+01
4939	475863.09	3862877.25	1.25714	0.43488	1.27392	0.93886	4.019	1.102	0.4093	0.43488	13.1167087	0.803191036	0.0001326	0.049454	1.884478	0.15499	2.900251	2.96E+00	1.60E+01
4940	476363.09	3862877.25	1.30614	0.43989	1.1289	0.91976	3.708	1.142	0.4141	0.43989	13.6279634	0.812444134	0.0001175	0.048448	1.738621	0.1606	2.933977	2.99E+00	1.63E+01
4941	476863.09	3862877.25	1.35821	0.44589	1.18181	0.93616	3.357	1.147	0.4204	0.44589	14.1712498	0.823525688	0.000123	0.049311	1.573946	0.16133	2.978544	3.03E+00	1.67E+01
4942	477363.09	3862877.25	1.3975	0.45325	1.30194	1.00886	3.15	1.123	0.4258	0.45325	14.5811926	0.837119061	0.0001355	0.053141	1.477199	0.15802	3.01723	3.08E+00	1.70E+01
4943	477863.09	3862877.25	1.44026	0.4347	1.4403	1.10413	3.589	1.025	0.4277	0.4347	15.0273405	0.80285859	0.0001499	0.058159	1.682956	0.14417	3.030125	2.96E+00	1.78E+01
4944	478363.09	3862877.25	1.41402	0.3916	1.1112	1.07031	4.174	0.855	0.4099	0.3916	14.7535584	0.723256093	0.0001157	0.056378	1.957391	0.12026	2.904006	2.66E+00	1.79E+01
4945	478863.09	3862877.25	1.3411	0.40646	1.12336	1.17062	5.501	0.873	0.4193	0.40646	13.992728	0.750701409	0.0001169	0.061661	2.579295	0.12287	2.970821	2.76E+00	1.77E+01
4946	479363.09	3862877.25	1.31303	0.40416	1.09457	1.36701	5.852	0.923	0.428	0.40416	13.6998521	0.74645348	0.000114	0.072006	2.743918	0.12982	3.032605	2.75E+00	1.77E+01
4947	479863.09	3862877.25	1.1998	0.51823	1.53939	1.49025	5.399	1.265	0.485	0.51823	12.5184364	0.957132291	0.0001603	0.078498	2.53192	0.17795	3.436117	3.52E+00	1.62E+01
4948	480363.09	3862877.25	1.16524	0.5357	1.76013	1.36127	5.14	1.327	0.5027	0.5357	12.1578453	0.989398083	0.0001832	0.071704	2.410428	0.18662	3.561457	3.64E+00	1.57E+01
4949	480863.09	3862877.25	1.21766	0.55256	1.95494	1.31106	5.358	1.393	0.5276	0.55256	12.7047835	1.020537249	0.0002035	0.069059	2.512413	0.19599	3.738236	3.76E+00	1.65E+01
4950	481363.09	3862877.25	1.26161	0.61551	2.02094	1.23256	6.188	1.337	0.57	0.61551	13.1633476	1.136801221	0.0002104	0.064924	2.901841	0.18809	4.038868	4.19E+00	1.73E+01
4951	481863.09	3862877.25	1.43747	0.70271	2.31658	1.18635	6.524	1.45	0.5887	0.70271	14.9982303	1.297853139	0.0002412	0.06249	3.059013	0.20403	4.171081	4.78E+00	1.90E+01
4952	482363.09	3862877.25	1.56934	0.64123	2.73545	1.25048	5.783	1.485	0.5693	0.64123	16.3741315	1.184304149	0.0002848	0.065868	2.711614	0.20888	4.033483	4.36E+00	2.02E+01
4953	482863.09	3862877.25	1.6949	0.61435	2.18797	1.54192	4.396	1.521	0.5667	0.61435	17.6841955	1.134658787	0.0002278	0.081219	2.061144	0.21397	4.015557	4.18E+00	2.10E+01
4954	483363.09	3862877.25	1.75346	0.62793	1.68362	1.81915	3.298	1.438	0.5929	0.62793	18.2951971	1.159740037	0.0001753	0.095822	1.546261	0.20235	4.200981	4.27E+00	2.12E+01
4955	483863.09	3862877.25	1.68216	0.65114	2.33059	1.87498	4.921	1.339	0.624	0.65114	17.5512693	1.202607182	0.0002426	0.098763	2.307556	0.18843	4.421407	4.43E+00	2.13E+01

4956	484363.09	3862877.25	1.60078	0.67691	2.44196	1.75787	6.052	1.385	0.6527	0.67691
4957	484863.09	3862877.25	1.53428	0.70366	2.28173	1.95722	5.861	1.363	0.6936	0.70366
4958	485363.09	3862877.25	1.65957	0.73024	2.18805	2.04108	3.975	1.448	0.7273	0.73024
4959	485863.09	3862877.25	1.72152	0.75978	2.49035	2.11959	5.646	1.714	0.7596	0.75978
4960	486363.09	3862877.25	1.77929	0.78791	2.74786	2.04714	5.833	1.818	0.7882	0.78791
4961	486863.09	3862877.25	1.75692	0.82646	2.82391	1.98649	6.187	1.783	0.8215	0.82646
4962	487363.09	3862877.25	2.04367	0.94338	2.69003	2.21479	7.672	2.246	0.8628	0.94338
4963	487863.09	3862877.25	2.30791	1.04036	2.95839	2.89671	3.339	1.995	0.9201	1.04036
4964	488363.09	3862877.25	2.48371	1.08258	2.31316	3.42779	2.883	1.668	0.9512	1.08258
4965	488863.09	3862877.25	2.98122	1.08284	2.09971	6.42625	2.88	2.278	1.0053	1.08284
4966	489363.09	3862877.25	3.74923	1.09143	2.98031	8.16469	3.215	2.411	1.055	1.09143
4967	489863.09	3862877.25	4.30758	1.16717	2.17166	3.57981	2.344	2.519	1.135	1.16717
4968	490363.09	3862877.25	4.37374	1.2673	1.60225	2.52349	3.917	2.491	1.2213	1.2673
4969	490863.09	3862877.25	3.70953	1.37226	1.76333	2.31254	6.867	2.108	1.3181	1.37226
4970	491363.09	3862877.25	2.60525	1.40793	1.91785	1.81571	6.959	1.84	1.3768	1.40793
4971	491863.09	3862877.25	2.16497	1.48049	1.77586	1.86794	6.653	1.589	1.5201	1.48049
4972	492363.09	3862877.25	2.02413	1.64849	1.7364	2.12868	5.592	1.551	1.6448	1.64849
4973	492863.09	3862877.25	2.14697	1.78554	2.05693	1.93715	4.346	1.404	1.7792	1.78554
4974	493363.09	3862877.25	2.34265	1.90353	2.09868	2.00481	3.003	1.634	2.0743	1.90353
4975	493863.09	3862877.25	2.48845	2.01597	1.90993	2.10032	3.45	1.804	2.2097	2.01597
4976	494363.09	3862877.25	2.59432	2.37289	2.04977	1.85019	3.136	1.73	2.4742	2.37289
4977	494863.09	3862877.25	2.62473	2.91027	2.95339	1.93207	2.463	1.813	2.8425	2.91027
4978	495363.09	3862877.25	2.70168	3.39213	3.87981	2.4982	3.213	2.005	3.3079	3.39213
4979	495863.09	3862877.25	2.60634	3.839	3.95761	2.65571	3.883	2.146	3.6665	3.839
4980	496363.09	3862877.25	2.36746	3.67298	3.38639	2.52583	4.273	2.088	3.6352	3.67298
4981	496863.09	3862877.25	2.10176	3.9479	2.62365	2.09511	4.373	1.886	3.9977	3.9479
4982	497363.09	3862877.25	1.84286	4.35255	2.16823	1.72207	4.563	1.656	4.3908	4.35255
4983	497863.09	3862877.25	1.64422	4.82196	1.92755	1.57065	4.154	1.573	4.7911	4.82196
4984	498363.09	3862877.25	1.52741	5.02426	1.89643	1.46752	3.265	1.655	5.0088	5.02426
4985	471363.09	3863377.25	1.00258	0.3817	0.79832	1.05929	2.448	0.901	0.3685	0.3817
4986	471863.09	3863377.25	1.03267	0.38617	0.76602	1.0824	2.637	0.917	0.3726	0.38617
4987	472363.09	3863377.25	1.05831	0.39062	0.74826	1.06692	2.866	0.936	0.3777	0.39062
4988	472863.09	3863377.25	1.07953	0.39431	0.85215	1.01191	3.25	0.951	0.3806	0.39431
4989	473363.09	3863377.25	1.10526	0.39442	0.99669	0.9427	3.516	0.96	0.3802	0.39442
4990	473863.09	3863377.25	1.12702	0.39289	1.22533	0.86311	3.73	0.986	0.3797	0.39289
4991	474363.09	3863377.25	1.13534	0.39536	1.29658	0.81314	3.801	1.014	0.3828	0.39536
4992	474863.09	3863377.25	1.13157	0.40273	1.23983	0.78849	3.539	1.049	0.3874	0.40273
4993	475363.09	3863377.25	1.18885	0.41188	1.07077	0.80397	3.302	1.076	0.3963	0.41188
4994	475863.09	3863377.25	1.23754	0.42076	1.05259	0.86139	3.003	1.092	0.4036	0.42076
4995	476363.09	3863377.25	1.26833	0.42703	1.10491	0.93548	2.75	1.102	0.4106	0.42703
4996	476863.09	3863377.25	1.28205	0.43603	1.22686	1.00647	2.906	1.093	0.4182	0.43603
4997	477363.09	3863377.25	1.27432	0.44832	1.42204	1.0905	3.41	1.081	0.4243	0.44832
4998	477863.09	3863377.25	1.25189	0.45383	1.32923	1.28406	4.245	1.061	0.4307	0.45383
4999	478363.09	3863377.25	1.22577	0.43808	1.18525	1.41779	5.505	0.976	0.431	0.43808
5000	478863.09	3863377.25	1.20002	0.44097	1.31838	1.47013	5.409	1.066	0.4283	0.44097
5001	479363.09	3863377.25	1.16511	0.48037	1.43024	1.28526	5.018	1.199	0.4612	0.48037
5002	479863.09	3863377.25	1.11963	0.50886	1.65462	1.16657	4.457	1.279	0.4901	0.50886
5003	480363.09	3863377.25	1.13147	0.52766	1.66467	1.11633	5.056	1.276	0.521	0.52766
5004	480863.09	3863377.25	1.1738	0.56284	1.67214	1.04108	5.743	1.241	0.5509	0.56284
5005	481363.09	3863377.25	1.20596	0.639	1.78357	1.06485	5.791	1.223	0.5908	0.639
5006	481863.09	3863377.25	1.35764	0.69133	2.08699	1.23359	5.201	1.241	0.6074	0.69133
5007	482363.09	3863377.25	1.52369	0.64856	2.2168	1.52049	3.994	1.253	0.5836	0.64856
5008	482863.09	3863377.25	1.63079	0.62438	1.52771	1.64798	2.792	1.205	0.5949	0.62438
5009	483363.09	3863377.25	1.66439	0.63463	1.78008	1.62248	4.029	1.154	0.6143	0.63463
5010	483863.09	3863377.25	1.60006	0.65222	2.6412	1.57727	5.18	1.219	0.6391	0.65222
5011	484363.09	3863377.25	1.50856	0.67326	2.14108	1.8041	5.705	1.253	0.6662	0.67326
5012	484863.09	3863377.25	1.45337	0.69307	2.28808	1.86085	4.595	1.276	0.6884	0.69307

16.7021692	1.250202457	0.0002542	0.092594	2.837861	0.19487	4.624898	4.60E+00	2.11E+01
16.0083235	1.299607719	0.0002375	0.103095	2.748453	0.19179	4.914619	4.78E+00	2.05E+01
17.3155705	1.348699003	0.0002278	0.107512	1.864001	0.20376	5.153254	4.97E+00	2.10E+01
17.9619425	1.403257187	0.0002593	0.111647	2.647466	0.24115	5.381686	5.17E+00	2.26E+01
18.5647013	1.455211206	0.0002861	0.107831	2.735276	0.25569	5.584611	5.36E+00	2.33E+01
18.3312979	1.526410191	0.000294	0.104637	2.901048	0.25084	5.820836	5.62E+00	2.33E+01
21.3231812	1.742352741	0.00028	0.116662	3.597726	0.31598	6.113037	6.41E+00	2.68E+01
24.0802004	1.921467592	0.000308	0.152582	1.56574	0.28069	6.518886	7.07E+00	2.74E+01
25.9144571	1.999444794	0.0002408	0.180556	1.351711	0.23461	6.739808	7.36E+00	2.91E+01
31.1053616	1.999924995	0.0002186	0.338497	1.350314	0.32049	7.122772	7.36E+00	3.49E+01
39.1186008	2.015790086	0.0003103	0.430067	1.507444	0.3392	7.474701	7.42E+00	4.35E+01
44.9442958	2.155676237	0.0002261	0.188563	1.099029	0.3543	8.041601	7.94E+00	4.88E+01
45.634594	2.340608904	0.0001668	0.132923	1.836719	0.35044	8.653422	8.62E+00	5.03E+01
38.7043801	2.534462223	0.0001836	0.121811	3.220148	0.29651	9.339072	9.33E+00	4.49E+01
27.1825774	2.600342062	0.0001997	0.095641	3.263279	0.25885	9.755054	9.57E+00	3.36E+01
22.5887975	2.734354989	0.0001849	0.098392	3.119729	0.22348	10.77053	1.01E+01	2.95E+01
21.1193054	3.044638501	0.0001808	0.112126	2.621985	0.21825	11.65428	1.12E+01	2.76E+01
22.4009896	3.297759665	0.0002141	0.102038	2.037721	0.19754	12.60599	1.21E+01	2.85E+01
24.4426696	3.515678425	0.0002185	0.105602	1.408282	0.22993	14.69702	1.29E+01	3.15E+01
25.9639131	3.723346747	0.0001988	0.110632	1.617921	0.25378	15.65645	1.37E+01	3.36E+01
27.0685363	4.382551458	0.0002134	0.097457	1.47054	0.24337	17.53088	1.61E+01	3.47E+01
27.3858272	5.375052376	0.0003075	0.10177	1.155023	0.2551	20.14014	1.98E+01	3.46E+01
28.1887058	6.265011981	0.0004039	0.13159	1.506464	0.28201	23.43731	2.31E+01	3.67E+01
27.1939502	7.090347656	0.000412	0.139887	1.820921	0.30187	25.97819	2.61E+01	3.64E+01
24.7015314	6.783721056	0.0003525	0.133046	2.003739	0.29374	25.75635	2.50E+01	3.47E+01
21.9292789	7.291477861	0.0002731	0.110358	2.050795	0.26538	28.32515	2.68E+01	3.31E+01
19.227976	8.038836335	0.0002257	0.090708	2.139589	0.2329	31.11012	2.96E+01	3.12E+01
17.1554121	8.905801715	0.0002007	0.082733	1.9479	0.22128	33.94653	3.28E+01	2.95E+01
15.9366435	9.279434778	0.0001974	0.0773	1.531204	0.23277	35.48908	3.42E+01	2.84E+01
10.4606884	0.704971529	8.311E-05	0.055797	1.148083	0.12676	2.610601	2.60E+00	1.25E+01
10.7746405	0.713227287	7.975E-05	0.057014	1.23632	0.12902	2.640218	2.63E+00	1.29E+01
11.0421624	0.721446106	7.79E-05	0.056199	1.343721	0.1317	2.675857	2.66E+00	1.33E+01
11.2635669	0.728261262	8.871E-05	0.053301	1.52417	0.13383	2.696617	2.68E+00	1.37E+01
11.5320278	0.728464424	0.0001038	0.049656	1.648903	0.13508	2.693783	2.68E+00	1.41E+01
11.7590666	0.725638627	0.0001276	0.045464	1.74897	0.13871	2.690524	2.67E+00	1.44E+01
11.8458756	0.730200534	0.000135	0.042831	1.782404	0.14264	2.711993	2.69E+00	1.46E+01
11.8065403	0.743812376	0.0001291	0.041533	1.659313	0.1475	2.74501	2.74E+00	1.44E+01
12.4041866	0.760711746	0.0001115	0.042348	1.548324	0.15136	2.808212	2.80E+00	1.49E+01
12.9122068	0.777112446	0.0001096	0.045373	1.408324	0.15359	2.859935	2.86E+00	1.53E+01
13.2334626	0.78869267	0.000115	0.049276	1.289725	0.15503	2.909391	2.90E+00	1.55E+01
13.3766139	0.805315001	0.0001277	0.053015	1.362585	0.15377	2.962885	2.96E+00	1.57E+01
13.2959609	0.828013717	0.000148	0.057441	1.599141	0.15213	3.006177	3.05E+00	1.59E+01
13.0619314	0.838190278	0.0001384	0.067637	1.990642	0.14922	3.051877	3.09E+00	1.61E+01
12.7894014	0.809101198	0.0001234	0.074681	2.581297	0.13724	3.053507	2.98E+00	1.65E+01
12.5207318	0.814438814	0.0001373	0.077438	2.536445	0.15	3.034873	3.00E+00	1.61E+01
12.1564889	0.887207685	0.0001489	0.0677	2.353097	0.16862	3.267839	3.27E+00	1.56E+01
11.6819611	0.939826598	0.0001723	0.061448	2.090071	0.1799	3.472252	3.46E+00	1.50E+01
11.8054969	0.9745488	0.0001733	0.058802	2.370832	0.17955	3.69126	3.59E+00	1.55E+01
12.2471584	1.039523645	0.0001741	0.054838	2.692951	0.17463	3.903042	3.83E+00	1.63E+01
12.5827084	1.180185505	0.0001857	0.05609	2.715567	0.17205	4.186031	4.35E+00	1.65E+01
14.1653025	1.276835125	0.0002173	0.064978	2.439003	0.17459	4.303719	4.70E+00	1.77E+01
15.8978299	1.197842114	0.0002308	0.08009	1.872868	0.17625	4.134804	4.41E+00	1.89E+01
17.0152866	1.153183451	0.000159	0.086806	1.308993	0.16949	4.21501	4.25E+00	1.97E+01
17.3658612	1.172114439	0.0001853	0.085463	1.889308	0.16232	4.352821	4.32E+00	2.07E+01
16.6946569	1.204601862	0.000275	0.083081	2.429015	0.17147	4.528112	4.43E+00	2.07E+01
15.739967	1.243461178	0.0002229	0.095029	2.67539	0.17632	4.719984	4.58E+00	2.01E+01
15.1641272	1.280048776	0.0002382	0.098019	2.154524	0.17956	4.877633	4.71E+00	1.90E+01

5013	485363.09	3863377.25	1.48602	0.71125	2.21522	1.89604	3.665	1.396	0.711	0.71125
5014	485863.09	3863377.25	1.60412	0.72369	2.26291	1.81414	5.446	1.618	0.7261	0.72369
5015	486363.09	3863377.25	1.64411	0.74734	2.10491	1.75483	4.813	1.625	0.745	0.74734
5016	486863.09	3863377.25	1.7224	0.77298	2.58304	1.83035	6.357	1.671	0.7694	0.77298
5017	487363.09	3863377.25	1.82323	0.83631	2.35802	2.35084	6.92	1.992	0.8015	0.83631
5018	487863.09	3863377.25	1.99135	0.94362	2.05289	2.75453	2.954	1.759	0.8618	0.94362
5019	488363.09	3863377.25	2.15546	1.01433	2.15013	3.28468	2.598	1.412	0.9099	1.01433
5020	488863.09	3863377.25	2.45871	1.04217	1.61682	6.32613	2.379	1.704	0.9542	1.04217
5021	489363.09	3863377.25	3.0593	1.04254	2.53866	7.90677	3.087	2.235	0.9783	1.04254
5022	489863.09	3863377.25	3.55951	1.03271	1.72464	3.47765	2.265	2.096	1.0129	1.03271
5023	490363.09	3863377.25	4.00318	1.08739	1.45369	2.49231	2.266	2.183	1.0577	1.08739
5024	490863.09	3863377.25	3.89774	1.14711	1.65611	2.18328	5.023	2.136	1.1171	1.14711
5025	491363.09	3863377.25	3.15092	1.25134	1.25636	1.72258	6.618	1.786	1.1903	1.25134
5026	491863.09	3863377.25	2.27499	1.25745	1.92333	1.54528	5.819	1.559	1.234	1.25745
5027	492363.09	3863377.25	2.00273	1.30238	1.59827	1.81995	5.914	1.468	1.3462	1.30238
5028	492863.09	3863377.25	1.92133	1.18987	1.72568	1.98142	5.268	1.372	1.2255	1.18987
5029	493363.09	3863377.25	2.0501	1.18488	2.04149	1.83035	3.971	1.36	1.2086	1.18488
5030	493863.09	3863377.25	2.21811	1.57187	2.05897	1.84914	2.871	1.512	1.6773	1.57187
5031	494363.09	3863377.25	2.33704	1.52502	1.76547	1.9316	3.268	1.629	1.6619	1.52502
5032	494863.09	3863377.25	2.51119	1.42579	1.80008	1.77258	3.01	1.625	1.5243	1.42579
5033	495363.09	3863377.25	2.62715	1.93642	2.55051	1.57444	2.469	1.667	1.7875	1.93642
5034	495863.09	3863377.25	2.71676	2.69744	3.6485	2.13467	2.831	1.953	2.7015	2.69744
5035	496363.09	3863377.25	2.53778	2.94536	3.64936	2.32361	3.329	1.908	2.9554	2.94536
5036	496863.09	3863377.25	2.36247	3.0732	3.3828	2.2389	3.706	1.907	2.977	3.0732
5037	497363.09	3863377.25	2.13007	2.86917	2.87912	2.11549	3.862	1.803	2.9112	2.86917
5038	497863.09	3863377.25	1.89221	2.8887	2.24709	1.81458	3.988	1.601	2.9586	2.8887
5039	498363.09	3863377.25	1.67879	3.02159	1.87474	1.50201	4.089	1.419	3.134	3.02159
5040	471363.09	3863877.25	0.99094	0.37433	0.71617	0.90351	2.78	0.864	0.3626	0.37433
5041	471863.09	3863877.25	1.02904	0.37854	0.80266	0.83988	3.089	0.88	0.3689	0.37854
5042	472363.09	3863877.25	1.05425	0.38481	0.90695	0.7625	3.27	0.92	0.3741	0.38481
5043	472863.09	3863877.25	1.07557	0.38974	1.02472	0.72499	3.449	0.946	0.3788	0.38974
5044	473363.09	3863877.25	1.08067	0.39164	1.12802	0.70548	3.419	0.965	0.3793	0.39164
5045	473863.09	3863877.25	1.08239	0.3916	1.17697	0.71806	3.165	1.001	0.3811	0.3916
5046	474363.09	3863877.25	1.08547	0.3955	1.07698	0.75903	2.976	1.032	0.3852	0.3955
5047	474863.09	3863877.25	1.12084	0.40424	0.99488	0.80058	2.7	1.036	0.3923	0.40424
5048	475363.09	3863877.25	1.16184	0.41095	1.05432	0.87745	2.449	1.058	0.4013	0.41095
5049	475863.09	3863877.25	1.17095	0.41844	1.09274	0.90357	2.569	1.043	0.4085	0.41844
5050	476363.09	3863877.25	1.17052	0.42533	1.15994	0.98951	2.919	1.035	0.416	0.42533
5051	476863.09	3863877.25	1.13129	0.43248	1.17733	1.05613	3.403	1.021	0.4239	0.43248
5052	477363.09	3863877.25	1.09998	0.44548	1.14807	1.13486	4.176	1.016	0.431	0.44548
5053	477863.09	3863877.25	1.10181	0.45865	1.1097	1.19979	4.57	1.031	0.4367	0.45865
5054	478363.09	3863877.25	1.12589	0.44934	1.52483	1.15645	4.73	1.081	0.4297	0.44934
5055	478863.09	3863877.25	1.0931	0.48044	1.52453	1.11084	4.453	1.198	0.4596	0.48044
5056	479363.09	3863877.25	1.07663	0.50979	1.40785	1.04872	4.007	1.239	0.4877	0.50979
5057	479863.09	3863877.25	1.05833	0.52135	1.23689	0.95577	4.81	1.17	0.5182	0.52135
5058	480363.09	3863877.25	1.07133	0.54496	1.46129	0.94275	5.269	1.085	0.5409	0.54496
5059	480863.09	3863877.25	1.14674	0.58019	1.66278	1.07136	5.282	1.104	0.5668	0.58019
5060	481363.09	3863877.25	1.20348	0.64973	1.63095	1.23711	4.721	1.074	0.5979	0.64973
5061	481863.09	3863877.25	1.33067	0.68147	1.90323	1.44185	3.644	1.048	0.6041	0.68147
5062	482363.09	3863877.25	1.47652	0.63761	1.65143	1.49467	2.581	1.096	0.5813	0.63761
5063	482863.09	3863877.25	1.57231	0.6154	1.44889	1.43241	3.267	1.078	0.5809	0.6154
5064	483363.09	3863877.25	1.59344	0.62223	2.21692	1.46496	4.365	1.096	0.5944	0.62223
5065	483863.09	3863877.25	1.52243	0.63333	2.13489	1.66399	5.008	1.147	0.6152	0.63333
5066	484363.09	3863877.25	1.40465	0.64402	2.03861	1.69186	4.776	1.148	0.6331	0.64402
5067	484863.09	3863877.25	1.33211	0.65277	1.99432	1.70949	3.263	1.194	0.6424	0.65277
5068	485363.09	3863877.25	1.34932	0.6588	2.09838	1.62507	4.122	1.292	0.6503	0.6588
5069	485863.09	3863877.25	1.54451	0.66272	1.58984	1.57786	4.926	1.514	0.6622	0.66272

15.5047898	1.313625884	0.0002306	0.099872	1.718636	0.1964	5.037621	4.84E+00	1.90E+01
16.737018	1.33660164	0.0002356	0.095558	2.553757	0.22759	5.144539	4.92E+00	2.12E+01
17.1542644	1.380281432	0.0002191	0.092434	2.25703	0.22856	5.278452	5.08E+00	2.13E+01
17.9711242	1.427636606	0.0002689	0.096412	2.980765	0.2351	5.451264	5.26E+00	2.29E+01
19.0231611	1.544602409	0.0002455	0.123828	3.244827	0.2803	5.678562	5.69E+00	2.42E+01
20.7772864	1.742796003	0.0002137	0.145092	1.385253	0.24746	6.106022	6.42E+00	2.40E+01
22.4895723	1.873392117	0.0002238	0.173017	1.218083	0.19865	6.447253	6.90E+00	2.55E+01
25.6536128	1.924810528	0.0001683	0.333223	1.115366	0.23972	6.761064	7.09E+00	2.89E+01
31.9200303	1.92549389	0.0002643	0.416482	1.447544	0.31437	6.931679	7.09E+00	3.59E+01
37.139106	1.907338611	0.0001795	0.183182	1.062322	0.29483	7.177045	7.02E+00	4.07E+01
41.7682565	2.008328507	0.0001513	0.13128	1.062618	0.30706	7.494399	7.39E+00	4.54E+01
40.6681198	2.118626908	0.0001724	0.115002	2.355428	0.30051	7.91534	7.80E+00	4.57E+01
32.8759723	2.311131971	0.0001308	0.090735	3.103101	0.25129	8.433563	8.51E+00	3.86E+01
23.7367207	2.322416687	0.0002002	0.081396	2.728566	0.21933	8.743619	8.55E+00	2.93E+01
20.8960227	2.405399057	0.0001664	0.095864	2.772996	0.20648	9.538525	8.86E+00	2.71E+01
20.0467139	2.19760145	0.0001797	0.104369	2.470482	0.19298	8.68311	8.09E+00	2.56E+01
21.3902704	2.188385291	0.0002125	0.096412	1.861872	0.19138	8.563438	8.06E+00	2.62E+01
23.1432479	2.903127056	0.0002144	0.097402	1.346478	0.21264	11.88392	1.07E+01	2.89E+01
24.3841361	2.816598589	0.0001838	0.101745	1.532208	0.22911	11.77495	1.04E+01	3.05E+01
26.201177	2.633328154	0.0001874	0.093369	1.411616	0.22862	10.80036	9.70E+00	3.17E+01
27.4110769	3.57642381	0.0002655	0.082932	1.157569	0.23451	12.66515	1.32E+01	3.20E+01
28.346047	4.981971185	0.0003798	0.112442	1.327707	0.27476	19.14124	1.83E+01	3.58E+01
26.478611	5.439860998	0.0003799	0.122394	1.561177	0.26836	20.94008	2.00E+01	3.48E+01
24.6494669	5.675971976	0.0003522	0.117932	1.73803	0.26833	21.09291	2.09E+01	3.26E+01
22.2246589	5.299143731	0.0002997	0.111431	1.81091	0.25363	20.62711	1.95E+01	3.08E+01
19.7428825	5.335214189	0.0002339	0.095581	1.869834	0.22518	20.96303	1.96E+01	2.86E+01
17.5161075	5.580652142	0.0001952	0.079117	1.917556	0.19966	22.20573	2.05E+01	2.70E+01
10.3392393	0.691359687	7.456E-05	0.047592	1.30382	0.1216	2.56901	2.55E+00	1.25E+01
10.7367659	0.699135244	8.356E-05	0.04424	1.448552	0.12386	2.61379	2.57E+00	1.31E+01
10.9998013	0.710715468	9.442E-05	0.040164	1.533497	0.12938	2.650917	2.62E+00	1.34E+01
11.2222492	0.719820812	0.0001067	0.038188	1.617162	0.13312	2.683722	2.65E+00	1.38E+01
11.2754614	0.72332997	0.0001174	0.037161	1.603375	0.13577	2.687123	2.66E+00	1.38E+01
11.2934075	0.723256093	0.0001225	0.037823	1.484195	0.14088	2.70016	2.66E+00	1.37E+01
11.3255435	0.730459103	0.0001121	0.039981	1.395288	0.14516	2.729068	2.69E+00	1.37E+01
11.6945859	0.746601234	0.0001036	0.04217	1.266222	0.14579	2.779587	2.75E+00	1.39E+01
12.1223705	0.758994105	0.0001098	0.046219	1.148172	0.14885	2.843355	2.79E+00	1.43E+01
12.2174221	0.772827578	0.0001138	0.047595	1.204803	0.14668	2.894653	2.85E+00	1.44E+01
12.2129356	0.785552896	0.0001208	0.052122	1.368555	0.14565	2.947794	2.89E+00	1.46E+01
11.8036188	0.798758415	0.0001226	0.055631	1.59569	0.14368	3.003626	2.94E+00	1.45E+01
11.4769375	0.822768448	0.0001195	0.059778	1.958338	0.14286	3.053507	3.03E+00	1.45E+01
11.4960313	0.84709246	0.0001155	0.063198	2.143087	0.14509	3.094248	3.12E+00	1.47E+01
11.7472765	0.829897582	0.0001587	0.060915	2.217978	0.15203	3.044225	3.06E+00	1.50E+01
11.4051532	0.88733697	0.0001587	0.058512	2.088017	0.16858	3.256432	3.27E+00	1.46E+01
11.233309	0.941544238	0.0001466	0.05524	1.878903	0.17436	3.45553	3.47E+00	1.43E+01
11.042371	0.962894699	0.0001288	0.050344	2.255572	0.16453	3.671421	3.55E+00	1.46E+01
11.17801	1.006500614	0.0001521	0.049658	2.470796	0.15266	3.832472	3.71E+00	1.50E+01
11.9648206	1.071567806	0.0001731	0.056433	2.4767	0.15527	4.016195	3.95E+00	1.58E+01
12.5568326	1.200003017	0.0001698	0.065164	2.213782	0.15107	4.23655	4.42E+00	1.60E+01
13.8839038	1.258624438	0.0001981	0.075948	1.708924	0.1474	4.28055	4.63E+00	1.67E+01
15.405669	1.177618278	0.0001719	0.07873	1.210093	0.1542	4.118649	4.34E+00	1.78E+01
16.4051198	1.136598059	0.0001508	0.075451	1.532001	0.15168	4.116028	4.18E+00	1.92E+01
16.6255853	1.149212561	0.0002308	0.077165	2.046743	0.15424	4.211184	4.23E+00	2.00E+01
15.8846833	1.169713436	0.0002223	0.087649	2.348361	0.16128	4.358772	4.31E+00	1.97E+01
14.655794	1.189457071	0.0002122	0.089117	2.239619	0.16148	4.485884	4.38E+00	1.84E+01
13.8989284	1.205617671	0.0002076	0.090046	1.530294	0.16791	4.551919	4.44E+00	1.70E+01
14.0784935	1.216754633	0.0002185	0.085599	1.933026	0.18175	4.60761	4.48E+00	1.76E+01
16.115061	1.223994582	0.0001655	0.083112	2.310046	0.21299	4.691713	4.51E+00	2.01E+01

5070	486363.09	3863877.25	1.62282	0.68643	1.78967	1.59488	3.995	1.529	0.6866	0.68643
5071	486863.09	3863877.25	1.66527	0.7094	2.76433	1.89419	6.449	1.626	0.7094	0.7094
5072	487363.09	3863877.25	1.68386	0.73957	2.05087	2.34513	6.175	1.704	0.7414	0.73957
5073	487863.09	3863877.25	1.67161	0.82004	1.36373	2.54984	2.638	1.667	0.7773	0.82004
5074	488363.09	3863877.25	1.85456	0.90736	1.8899	3.06493	2.368	1.348	0.8232	0.90736
5075	488863.09	3863877.25	2.11048	0.92636	1.77394	6.05607	1.965	1.353	0.8346	0.92636
5076	489363.09	3863877.25	2.53689	0.9296	2.20961	4.93648	2.791	1.816	0.8574	0.9296
5077	489863.09	3863877.25	2.98745	0.89835	1.37818	2.85192	2.305	1.818	0.8496	0.89835
5078	490363.09	3863877.25	3.44988	0.89123	1.38721	2.48777	1.678	1.894	0.8666	0.89123
5079	490863.09	3863877.25	3.70738	0.9901	1.48002	2.05686	3.183	1.937	0.8951	0.9901
5080	491363.09	3863877.25	3.44037	1.0888	1.16766	1.66964	5.404	1.918	0.9714	1.0888
5081	491863.09	3863877.25	2.80562	1.08954	1.51563	1.52435	6.083	1.677	1.0409	1.08954
5082	492363.09	3863877.25	2.2251	1.03854	1.83803	1.53888	5.818	1.429	1.1062	1.03854
5083	492863.09	3863877.25	2.02806	0.91961	1.64962	2.09379	5.57	1.473	1.1643	0.91961
5084	493363.09	3863877.25	1.93105	0.99923	1.66766	2.12663	4.922	1.453	1.0409	0.99923
5085	493863.09	3863877.25	1.93701	1.07915	1.91293	1.80206	3.467	1.351	1.0527	1.07915
5086	494363.09	3863877.25	2.0211	1.20588	1.87275	1.69712	2.65	1.253	1.3195	1.20588
5087	494863.09	3863877.25	2.16739	1.06453	1.69004	1.75996	3.072	1.614	1.2986	1.06453
5088	495363.09	3863877.25	2.36891	1.20253	1.54717	1.61124	2.804	1.73	1.3664	1.20253
5089	495863.09	3863877.25	2.48194	1.59017	1.79904	1.38645	2.386	1.703	1.3905	1.59017
5090	496363.09	3863877.25	2.43686	2.00292	2.53027	1.65739	2.23	1.589	1.9439	2.00292
5091	496863.09	3863877.25	2.41085	2.43031	3.09841	1.98845	2.865	1.703	2.3719	2.43031
5092	497363.09	3863877.25	2.33841	2.53772	3.24744	2.05947	3.274	1.755	2.4687	2.53772
5093	497863.09	3863877.25	2.20509	2.60778	3.01586	2.0016	3.508	1.74	2.5605	2.60778
5094	498363.09	3863877.25	1.95991	2.42336	2.52538	1.85398	3.49	1.606	2.4813	2.42336
5095	471363.09	3864377.25	1.00159	0.37383	0.86686	0.66796	3.049	0.884	0.3652	0.37383
5096	471863.09	3864377.25	1.03084	0.38056	0.90947	0.66003	3.194	0.904	0.3721	0.38056
5097	472363.09	3864377.25	1.04899	0.38891	0.98887	0.66303	3.124	0.944	0.3804	0.38891
5098	472863.09	3864377.25	1.05366	0.39521	1.06622	0.69627	2.851	0.985	0.3871	0.39521
5099	473363.09	3864377.25	1.02565	0.39952	1.02096	0.73638	2.7	0.998	0.3893	0.39952
5100	473863.09	3864377.25	1.02092	0.40211	0.97539	0.77846	2.476	1.003	0.3916	0.40211
5101	474363.09	3864377.25	1.05231	0.40609	1.02253	0.81767	2.213	1.008	0.3969	0.40609
5102	474863.09	3864377.25	1.05868	0.41475	1.02891	0.84798	2.294	0.983	0.4043	0.41475
5103	475363.09	3864377.25	1.06806	0.42103	1.01902	0.9021	2.571	0.963	0.4121	0.42103
5104	475863.09	3864377.25	1.0674	0.42727	1.04347	0.97627	2.944	0.954	0.4186	0.42727
5105	476363.09	3864377.25	1.05142	0.43231	1.08586	1.00464	3.514	0.941	0.4254	0.43231
5106	476863.09	3864377.25	1.03149	0.44016	1.08421	1.00775	4.034	0.935	0.4349	0.44016
5107	477363.09	3864377.25	1.00782	0.45553	1.14585	0.94927	4.105	1.001	0.4475	0.45553
5108	477863.09	3864377.25	0.99331	0.46953	1.26895	0.94641	3.998	1.072	0.4599	0.46953
5109	478363.09	3864377.25	0.99118	0.47692	1.32757	0.94245	3.81	1.11	0.4725	0.47692
5110	478863.09	3864377.25	1.02206	0.48447	1.17892	0.89476	3.769	1.085	0.4848	0.48447
5111	479363.09	3864377.25	1.01171	0.5004	1.11886	0.85831	4.504	1.007	0.5002	0.5004
5112	479863.09	3864377.25	1.03216	0.51637	1.24823	0.9406	4.87	0.946	0.5161	0.51637
5113	480363.09	3864377.25	1.09619	0.53296	1.45302	1.04029	4.832	0.964	0.5301	0.53296
5114	480863.09	3864377.25	1.13217	0.56281	1.50308	1.21983	4.297	0.953	0.5487	0.56281
5115	481363.09	3864377.25	1.16202	0.62189	1.44435	1.31846	3.341	0.942	0.5683	0.62189
5116	481863.09	3864377.25	1.29522	0.64157	1.56607	1.30797	2.44	0.993	0.5697	0.64157
5117	482363.09	3864377.25	1.41265	0.60314	1.45949	1.29892	2.625	1.015	0.554	0.60314
5118	482863.09	3864377.25	1.52554	0.58797	1.635	1.38965	3.67	1.01	0.5577	0.58797
5119	483363.09	3864377.25	1.51865	0.59838	1.93202	1.52908	4.346	1.043	0.5764	0.59838
5120	483863.09	3864377.25	1.4099	0.61051	1.93424	1.54221	4.765	1.059	0.5959	0.61051
5121	484363.09	3864377.25	1.28352	0.62199	1.91158	1.54539	3.811	1.045	0.6128	0.62199
5122	484863.09	3864377.25	1.22197	0.63128	1.7059	1.45952	2.758	1.101	0.6232	0.63128
5123	485363.09	3864377.25	1.27737	0.64091	1.66641	1.4139	4.315	1.236	0.6319	0.64091
5124	485863.09	3864377.25	1.45414	0.64295	0.98792	1.41637	4.277	1.421	0.6403	0.64295
5125	486363.09	3864377.25	1.60396	0.6475	2.25141	1.52719	3.699	1.442	0.6494	0.6475
5126	486863.09	3864377.25	1.60043	0.64552	2.27564	2.01717	6.439	1.597	0.6536	0.64552

16.9321294	1.267785189	0.0001863	0.084009	1.873201	0.21504	4.864454	4.67E+00	2.06E+01
17.3750429	1.310209072	0.0002878	0.099775	3.023886	0.22879	5.026213	4.82E+00	2.22E+01
17.5690067	1.365930819	0.0002135	0.123528	2.895407	0.23975	5.252945	5.03E+00	2.24E+01
17.441193	1.514552928	0.000142	0.13431	1.23706	0.23444	5.507168	5.58E+00	2.05E+01
19.3500511	1.675826478	0.0001968	0.161442	1.110321	0.18964	5.832882	6.17E+00	2.22E+01
22.0202614	1.710918066	0.0001847	0.318998	0.921257	0.19037	5.913513	6.30E+00	2.48E+01
26.4693249	1.716902105	0.00023	0.260025	1.308796	0.25551	6.074705	6.32E+00	2.98E+01
31.170364	1.659185678	0.0001435	0.150222	1.080695	0.2558	6.019864	6.11E+00	3.42E+01
35.9952519	1.646035567	0.0001444	0.131041	0.786654	0.26641	6.140245	6.06E+00	3.89E+01
38.6819475	1.828641108	0.0001541	0.108343	1.492542	0.27253	6.341752	6.73E+00	4.20E+01
35.8960268	2.010932672	0.0001216	0.087947	2.534175	0.26985	6.882649	7.40E+00	4.03E+01
29.2731917	2.012299397	0.0001578	0.080294	2.852318	0.23593	7.374798	7.41E+00	3.44E+01
23.21618	1.918106188	0.0001914	0.081059	2.728266	0.20103	7.837826	7.06E+00	2.89E+01
21.1603101	1.698451317	0.0001717	0.110288	2.611772	0.20724	8.249556	6.25E+00	2.78E+01
20.1481301	1.845503539	0.0001736	0.112018	2.307931	0.20436	7.375152	6.79E+00	2.52E+01
20.2103154	1.993109839	0.0001991	0.094922	1.625973	0.19011	7.458688	7.34E+00	2.42E+01
21.0876911	2.22717073	0.000195	0.089394	1.242509	0.17623	9.349134	8.20E+00	2.60E+01
22.6140472	1.966107786	0.0001759	0.092704	1.440599	0.22698	9.20112	7.24E+00	2.83E+01
24.7166604	2.220983529	0.0001611	0.084871	1.315079	0.24333	9.681366	8.18E+00	3.01E+01
25.8959893	2.936925796	0.0001873	0.07303	1.118621	0.23959	9.852265	1.08E+01	2.93E+01
25.425635	3.699244367	0.0002634	0.087301	1.045465	0.22347	13.77302	1.36E+01	3.06E+01
25.1542526	4.488601931	0.0003226	0.10474	1.343608	0.23962	16.80541	1.65E+01	3.16E+01
24.3984304	4.686980217	0.0003381	0.108481	1.535321	0.24691	17.49135	1.73E+01	3.12E+01
23.0074003	4.81637583	0.000314	0.105432	1.644861	0.24482	18.142	1.77E+01	3.02E+01
20.4492487	4.475765797	0.0002629	0.097657	1.636425	0.22592	17.58055	1.65E+01	2.80E+01
10.450359	0.690436224	9.025E-05	0.035184	1.429889	0.12439	2.587857	2.54E+00	1.28E+01
10.7555467	0.702866034	9.468E-05	0.034766	1.497653	0.12717	2.636746	2.59E+00	1.32E+01
10.9449196	0.718287863	0.0001029	0.034924	1.464866	0.13281	2.695484	2.64E+00	1.33E+01
10.9936453	0.729923495	0.000111	0.036675	1.336818	0.13862	2.742814	2.69E+00	1.33E+01
10.7013954	0.737883745	0.0001063	0.038788	1.266176	0.14043	2.758048	2.72E+00	1.29E+01
10.6520437	0.742667282	0.0001015	0.041005	1.161185	0.14109	2.774911	2.73E+00	1.28E+01
10.9795597	0.750018046	0.0001065	0.04307	1.037643	0.1418	2.812038	2.76E+00	1.30E+01
11.0460228	0.766012423	0.0001071	0.044667	1.075841	0.13826	2.864895	2.82E+00	1.31E+01
11.1438916	0.777611116	0.0001061	0.047517	1.205563	0.13543	2.919665	2.86E+00	1.34E+01
11.1370053	0.789135932	0.0001086	0.051424	1.380611	0.13421	2.965932	2.91E+00	1.36E+01
10.9702737	0.798444437	0.000113	0.052918	1.647641	0.13234	3.014112	2.94E+00	1.37E+01
10.7623287	0.812942804	0.0001129	0.053082	1.891489	0.1316	3.081353	2.99E+00	1.37E+01
10.5153613	0.841330051	0.0001193	0.050002	1.924965	0.14077	3.17077	3.10E+00	1.35E+01
10.3639674	0.867187011	0.0001321	0.049851	1.874922	0.15077	3.258699	3.19E+00	1.34E+01
10.3417434	0.880835792	0.0001382	0.049643	1.786732	0.15621	3.347479	3.24E+00	1.33E+01
10.6639382	0.89478008	0.0001227	0.047131	1.767366	0.15269	3.435266	3.29E+00	1.37E+01
10.5559487	0.924201606	0.0001165	0.045211	2.111975	0.1416	3.543743	3.40E+00	1.39E+01
10.7693193	0.953697009	0.0001299	0.049545	2.283529	0.13305	3.656896	3.51E+00	1.43E+01
11.4373935	0.984337506	0.0001513	0.054796	2.26586	0.13566	3.756233	3.62E+00	1.50E+01
11.8128006	1.039468238	0.0001565	0.064253	2.014852	0.13408	3.887667	3.83E+00	1.51E+01
12.1242486	1.148584606	0.0001504	0.069449	1.566851	0.13248	4.026256	4.23E+00	1.48E+01
13.5140266	1.184932104	0.000163	0.068896	1.144186	0.13966	4.036601	4.36E+00	1.57E+01
14.7392642	1.11395475	0.0001519	0.068419	1.23088	0.14279	3.925502	4.10E+00	1.71E+01
15.9171324	1.085936888	0.0001702	0.073199	1.721083	0.14209	3.951718	4.00E+00	1.89E+01
15.8452437	1.105163384	0.0002011	0.080543	2.037918	0.14671	4.08386	4.07E+00	1.92E+01
14.7105713	1.127566592	0.0002014	0.081234	2.234269	0.14895	4.222237	4.15E+00	1.84E+01
13.3919515	1.148769299	0.000199	0.081402	1.787248	0.14706	4.342122	4.23E+00	1.67E+01
12.749753	1.165927238	0.0001776	0.076879	1.293171	0.15491	4.415455	4.29E+00	1.56E+01
13.3277838	1.183713133	0.0001735	0.074476	2.023457	0.17385	4.477027	4.36E+00	1.69E+01
15.1721612	1.187480861	0.0001028	0.074606	2.005539	0.19986	4.536615	4.37E+00	1.88E+01
16.7353486	1.195884373	0.0002344	0.080443	1.734373	0.20286	4.601162	4.40E+00	2.01E+01
16.6985173	1.19222746	0.0002369	0.106253	3.019207	0.22466	4.630921	4.39E+00	2.15E+01

5127	487363.09	3864377.25	1.57341	0.63306	1.61111	2.20317	5.509	1.556	0.6482	0.63306	16.4165969	1.169214766	0.0001677	0.11605	2.583069	0.21885	4.592589	4.30E+00	2.08E+01
5128	487863.09	3864377.25	1.51838	0.66774	1.2642	2.4081	2.415	1.563	0.6586	0.66774	15.8424266	1.233266148	0.0001316	0.126844	1.132637	0.21993	4.666489	4.54E+00	1.87E+01
5129	488363.09	3864377.25	1.56477	0.74455	1.52984	3.07692	2.171	1.13	0.69	0.74455	16.3264491	1.375128509	0.0001593	0.162074	1.017813	0.15892	4.888757	5.06E+00	1.89E+01
5130	488863.09	3864377.25	1.83488	0.82047	1.86792	5.2938	1.708	1.246	0.7274	0.82047	19.1447146	1.515347106	0.0001945	0.278846	0.800951	0.17523	5.153608	5.58E+00	2.15E+01
5131	489363.09	3864377.25	2.16264	0.85869	1.97798	3.50608	2.419	1.464	0.7627	0.85869	22.5644868	1.585936606	0.0002059	0.18468	1.134489	0.20591	5.404217	5.84E+00	2.52E+01
5132	489863.09	3864377.25	2.57816	0.85628	1.12841	2.58343	2.319	1.714	0.7959	0.85628	26.8999266	1.581485515	0.0001175	0.13608	1.087414	0.24111	5.63938	5.82E+00	2.98E+01
5133	490363.09	3864377.25	2.83825	0.82712	1.12526	2.11132	1.577	1.599	0.8006	0.82712	29.6136456	1.527629162	0.0001171	0.111212	0.739298	0.22492	5.672682	5.62E+00	3.23E+01
5134	490863.09	3864377.25	3.38853	0.88188	1.54226	1.90467	2.028	1.798	0.8036	0.88188	35.3551402	1.628766812	0.0001606	0.100327	0.951184	0.25299	5.694009	6.00E+00	3.80E+01
5135	491363.09	3864377.25	3.62385	0.8549	1.19213	1.67292	4.262	2.034	0.7394	0.8549	37.8104148	1.578936757	0.0001241	0.08812	1.998304	0.2861	5.238703	5.81E+00	4.12E+01
5136	491863.09	3864377.25	3.46108	0.66232	0.8024	0.99321	5.032	0.905	0.728	0.66232	36.1121101	1.223255811	8.353E-05	0.052316	2.359826	0.12727	5.157859	4.50E+00	4.05E+01
5137	492363.09	3864377.25	2.88221	0.85092	1.56336	1.52263	6.681	1.425	0.9658	0.85092	30.0723141	1.571585993	0.0001628	0.080203	3.13298	0.20052	6.842687	5.79E+00	3.61E+01
5138	492863.09	3864377.25	2.16156	0.60985	0.95497	1.28546	4.081	0.978	0.8478	0.60985	22.5532183	1.126347621	9.942E-05	0.06771	1.913603	0.13761	6.007111	4.15E+00	2.77E+01
5139	493363.09	3864377.25	1.92448	0.77274	1.4044	1.71634	6.126	1.304	0.9473	0.77274	20.0795803	1.427193344	0.0001462	0.090407	2.872393	0.18345	6.711679	5.25E+00	2.61E+01
5140	493863.09	3864377.25	1.87244	0.95075	1.55088	1.87564	4.776	1.452	0.8585	0.95075	19.5366069	1.755964583	0.0001615	0.098798	2.239338	0.20432	6.082924	6.46E+00	2.35E+01
5141	494363.09	3864377.25	1.794	0.99956	1.78512	1.61037	3.023	1.132	0.9159	0.99956	18.7181821	1.846113025	0.0001858	0.084825	1.417472	0.1592	6.48934	6.80E+00	2.19E+01
5142	494863.09	3864377.25	1.82411	1.12096	1.69356	1.5248	2.437	1.134	1.2119	1.12096	19.0323429	2.070329802	0.0001763	0.080317	1.142611	0.15954	8.586536	7.62E+00	2.34E+01
5143	495363.09	3864377.25	1.91303	0.94446	1.56658	1.66651	2.836	1.351	1.1627	0.94446	19.9601136	1.74434742	0.0001631	0.087782	1.329789	0.19001	8.237795	6.42E+00	2.51E+01
5144	495863.09	3864377.25	2.14823	1.03377	1.38116	1.51165	2.615	1.592	1.2163	1.03377	22.4141362	1.909296352	0.0001438	0.079625	1.226055	0.22396	8.618137	7.03E+00	2.74E+01
5145	496363.09	3864377.25	2.27777	1.28105	1.46019	1.30029	2.254	1.551	1.2504	1.28105	23.7657266	2.366004132	0.000152	0.068492	1.05715	0.2182	8.859393	8.71E+00	2.76E+01
5146	496863.09	3864377.25	2.31001	1.57503	1.9681	1.31384	1.905	1.455	1.4521	1.57503	24.1021113	2.908963342	0.0002049	0.069205	0.893516	0.2047	10.28894	1.07E+01	2.78E+01
5147	497363.09	3864377.25	2.26377	1.97449	2.50573	1.65241	2.434	1.519	1.949	1.97449	23.6196539	3.646736271	0.0002609	0.087039	1.141392	0.21372	13.80965	1.34E+01	2.91E+01
5148	497863.09	3864377.25	2.32118	2.20975	3.10732	1.87084	2.907	1.6	2.2024	2.20975	24.2186565	4.081244004	0.0003235	0.098545	1.362951	0.22514	15.60444	1.50E+01	3.06E+01
5149	498363.09	3864377.25	2.20791	2.21892	2.9685	1.84648	3.178	1.617	2.1848	2.21892	23.0368235	4.098180313	0.000309	0.097262	1.49016	0.2275	15.48017	1.51E+01	2.93E+01
5150	471363.09	3864877.25	1.00004	0.38542	0.86184	0.63577	2.84	0.931	0.3773	0.38542	10.4341866	0.711842093	8.972E-05	0.033489	1.33158	0.13096	2.673519	2.62E+00	1.27E+01
5151	471863.09	3864877.25	1.00855	0.39363	0.92467	0.67957	2.573	0.964	0.3858	0.39363	10.522978	0.727005352	9.626E-05	0.035796	1.206445	0.13567	2.733249	2.68E+00	1.27E+01
5152	472363.09	3864877.25	0.99475	0.40225	0.92305	0.72083	2.482	0.98	0.3943	0.40225	10.378992	0.742925852	9.61E-05	0.037969	1.163693	0.13788	2.793474	2.74E+00	1.25E+01
5153	472863.09	3864877.25	0.95684	0.40779	0.87301	0.75151	2.295	0.982	0.3997	0.40779	9.98344779	0.75315782	9.089E-05	0.039585	1.076235	0.13808	2.832302	2.77E+00	1.20E+01
5154	473363.09	3864877.25	0.9436	0.41085	0.92819	0.75558	2.036	0.963	0.401	0.41085	9.84530468	0.758809412	9.663E-05	0.039799	0.954565	0.13546	2.841017	2.79E+00	1.18E+01
5155	473863.09	3864877.25	0.97443	0.41205	0.99013	0.79643	2.094	0.935	0.4015	0.41205	10.1669778	0.761025723	0.0001031	0.041951	0.98171	0.13153	2.844843	2.80E+00	1.21E+01
5156	474363.09	3864877.25	0.99819	0.41487	0.96867	0.85626	2.302	0.908	0.4048	0.41487	10.4148841	0.766234054	0.0001008	0.045103	1.079522	0.12776	2.868154	2.82E+00	1.25E+01
5157	474863.09	3864877.25	1.00287	0.42002	0.96179	0.90795	2.611	0.896	0.4104	0.42002	10.4637142	0.775745721	0.0001001	0.047825	1.224404	0.12598	2.907832	2.86E+00	1.27E+01
5158	475363.09	3864877.25	0.99784	0.42525	1.05362	0.92159	2.938	0.875	0.4164	0.42525	10.4112323	0.785405142	0.0001097	0.048544	1.37753	0.12306	2.950486	2.89E+00	1.28E+01
5159	475863.09	3864877.25	0.97657	0.42954	1.06196	0.90988	3.49	0.851	0.4232	0.42954	10.1893061	0.793328453	0.0001106	0.047927	1.636415	0.11968	2.998383	2.92E+00	1.29E+01
5160	476363.09	3864877.25	0.96228	0.4342	1.0346	0.8528	3.756	0.868	0.4295	0.4342	10.0402075	0.801935127	0.0001077	0.04492	1.761157	0.12209	3.043092	2.95E+00	1.29E+01
5161	476863.09	3864877.25	0.9531	0.43862	1.09184	0.86849	3.771	0.961	0.4353	0.43862	9.94442549	0.810098538	0.0001137	0.045747	1.768435	0.1352	3.08447	2.98E+00	1.28E+01
5162	477363.09	3864877.25	0.92924	0.4457	1.08367	0.86736	3.619	0.977	0.4433	0.4457	9.69547575	0.823174772	0.0001128	0.045687	1.697009	0.1375	3.140728	3.03E+00	1.25E+01
5163	477863.09	3864877.25	0.9454	0.45197	1.06741	0.82885	3.357	0.939	0.4505	0.45197	9.86408547	0.834754996	0.0001111	0.043659	1.573979	0.13216	3.192168	3.07E+00	1.26E+01
5164	478363.09	3864877.25	0.97243	0.45858	1.00221	0.78514	3.661	0.906	0.4587	0.45858	10.1461102	0.846963175	0.0001043	0.041357	1.71669	0.12748	3.249913	3.12E+00	1.30E+01
5165	478863.09	3864877.25	0.96873	0.46729	1.09554	0.84157	4.212	0.887	0.469	0.46729	10.1075053	0.863049897	0.0001141	0.044329	1.975252	0.12481	3.322751	3.18E+00	1.33E+01
5166	479363.09	3864877.25	0.98937	0.48454	1.08655	0.92052	4.47	0.891	0.4837	0.48454	10.3228583	0.894909365	0.0001131	0.048488	2.096059	0.12533	3.426976	3.29E+00	1.36E+01
5167	479863.09	3864877.25	1.03895	0.50353	1.26377	1.02244	4.394	0.9	0.5024	0.50353	10.8401646	0.929982484	0.0001316	0.053856	2.060389	0.12657	3.559969	3.42E+00	1.41E+01
5168	480363.09	3864877.25	1.08262	0.52776	1.43615	1.18166	3.95	0.887	0.5255	0.52776	11.2958073	0.974733493	0.0001495	0.062243	1.852456	0.12476	3.723145	3.59E+00	1.44E+01
5169	480863.09	3864877.25	1.09364	0.56808	1.27774	1.21026	3.081	0.869	0.5518	0.56808	11.4107874	1.049201536	0.000133	0.063749	1.444914	0.12222	3.90949	3.86E+00	1.41E+01
5170	481363.09	3864877.25	1.11487	0.6305	1.20863	1.17574	2.302	0.857	0.5759	0.6305	11.6322963	1.164486636	0.0001258	0.061931	1.079372	0.12058	4.08053	4.29E+00	1.39E+01
5171	481863.09	3864877.25	1.2442	0.63447	1.41662	1.17049	2.125	0.913	0.5685	0.63447	12.9816957	1.171818931	0.0001475	0.061654	0.99666	0.12842	4.027886	4.31E+00	1.51E+01
5172	482363.09	3864877.25	1.38102	0.59466	1.39876	1.32312	3.102	0.939	0.5518	0.59466	14.409244	1.09829282	0.0001456	0.069694	1.454531	0.13207	3.90949	4.04E+00	1.70E+01
5173	482863.09	3864877.25	1.46846	0.57433	1.66498	1.41341	3.911	0.97	0.5478	0.57433	15.3215728	1.060744821	0.0001733	0.07445	1.833774	0.13648	3.881219	3.91E+00	1.84E+01
5174	483363.09	3864877.25	1.42175	0.57121	1.75648	1.41188	4.316	0.978	0.5495	0.57121	14.8342115	1.054982413	0.0001829	0.074369	2.023658	0.13765	3.893477	3.88E+00	1.81E+01
5175	483863.09	3864877.25	1.28974	0.56275	1.77088	1.39877	3.92	0.969	0.5503	0.56275	13.4568496	1.039357422	0.0001844	0.073679	1.83806	0.13632	3.899074	3.83E+00	1.66E+01
5176	484363.09	3864877.25	1.19062	0.55332	1.61913	1.32497	2.827	0.996	0.5448	0.55332	12.4226544	1.021940913	0.0001686	0.069792	1.325428	0.14016	3.859963	3.76E+00	1.51E+01
5177	484863.09	3864877.25	1.17376	0.54834	1.42518	1.29047	2.881	1.046	0.5412	0.54834	12.246741	1.012743223	0.0001484	0.067974	1.351148	0.1471	3.834526	3.73E+00	1.49E+01
5178	485363.09	3864877.25	1.20918	0.56385	1.27849	1.26154	4.241	1.187	0.5563	0.56385	12.6163051	1.04138904	0.0001331	0.06645	1.988808	0.16697	3.941728	3.83E+00	1.60E+01
5179	485863.09	3864877.25	1.40277	0.57562	1.23587	1.35259	3.582	1.367	0.5744	0.57562	14.6361785	1.063127355	0.0001287	0.071246	1.679495	0.19232	4.069902	3.91E+00	1.78E+01
5180	486363.09	3864877.25	1.56916	0.59255	2.17718	1.67221	3.549	1.367	0.5968	0.59255	16.3722534	1.094395807	0.0002267	0.088082	1.664293	0.19235	4.228827	4.03E+00	1.96E+01
5181	486863.09	3864877.25	1.53078	0.61272	1.89488	1.95995	6.323	1.565	0.6187	0.61272	15.9718053	1.131648298	0.0001973	0.103239	2.965192	0.22009	4.383996	4.17E+00	2.06E+01
5182	487363.09	3864877.25	1.47442	0.63836	1.17216	2.05373	4.885	1.483	0.6422	0.63836	15.3837581	1.179003472	0.000122	0.108178	2.290483	0.20859	4.549935	4.34E+00	1.94E+01
5183	487863.09	3864877.25	1.38464	0.66241	1.40092	2.31432	2.218	1.308	0.6651	0.66241	14.4470143	1.223422035	0.0001458	0.121905	1.039894	0.18402	4.712403	4.50E+00	1.72E+01

5184	488363.09	3864877.25	1.29445	0.70014	1.11107	2.80893	2.027	1.114	0.6763	0.70014
5185	488863.09	3864877.25	1.56139	0.74503	1.80541	4.82211	1.506	1.179	0.6656	0.74503
5186	489363.09	3864877.25	1.89687	0.73872	1.81328	2.70588	2.082	1.204	0.6487	0.73872
5187	489863.09	3864877.25	2.2056	0.71022	1.03715	1.84942	2.323	1.438	0.6483	0.71022
5188	490363.09	3864877.25	2.51893	0.7185	0.85776	2.072	1.633	1.52	0.6843	0.7185
5189	490863.09	3864877.25	3.24482	0.80549	1.62978	1.64427	1.411	1.978	0.5882	0.80549
5190	491363.09	3864877.25	3.45559	0.76447	1.31442	1.46897	2.84	2.095	0.6494	0.76447
5191	491863.09	3864877.25	3.5552	0.9679	0.85852	1.51709	4.782	1.925	0.7683	0.9679
5192	492363.09	3864877.25	2.12568	0.4447	0.65011	0.68282	2.871	0.677	0.4945	0.4447
5193	492863.09	3864877.25	2.35393	0.54452	0.73953	0.95313	3.462	0.746	0.6438	0.54452
5194	493363.09	3864877.25	1.7127	0.53817	0.78882	0.90421	2.801	0.755	0.581	0.53817
5195	493863.09	3864877.25	1.80967	0.73107	1.32433	1.70115	5.412	1.403	0.9005	0.73107
5196	494363.09	3864877.25	1.77098	0.89258	1.50666	1.75163	4.068	1.253	0.8577	0.89258
5197	494863.09	3864877.25	1.66304	0.96143	1.65932	1.45904	2.64	1.016	0.8349	0.96143
5198	495363.09	3864877.25	1.62018	1.0378	1.53712	1.37448	2.247	1.046	1.1099	1.0378
5199	495863.09	3864877.25	1.71002	0.89228	1.40175	1.46423	2.598	1.145	1.0492	0.89228
5200	496363.09	3864877.25	1.92457	0.95861	1.3182	1.4419	2.468	1.399	1.1042	0.95861
5201	496863.09	3864877.25	2.10765	1.07698	1.28778	1.2633	2.137	1.485	1.1584	1.07698
5202	497363.09	3864877.25	2.16957	1.29963	1.4941	1.1062	1.724	1.43	1.1297	1.29963
5203	497863.09	3864877.25	2.18501	1.63059	2.0183	1.38917	2.07	1.407	1.5947	1.63059
5204	498363.09	3864877.25	2.16346	1.86007	2.49918	1.6164	2.521	1.44	1.8269	1.86007
5205	471363.09	3865377.25	0.93882	0.3973	0.84869	0.67241	2.272	0.946	0.3881	0.3973
5206	471863.09	3865377.25	0.91054	0.40296	0.80397	0.69185	2.119	0.942	0.3943	0.40296
5207	472363.09	3865377.25	0.88878	0.40829	0.80822	0.70664	1.895	0.919	0.3997	0.40829
5208	472863.09	3865377.25	0.90696	0.40852	0.91267	0.76379	1.943	0.895	0.4016	0.40852
5209	473363.09	3865377.25	0.94026	0.41052	0.94012	0.81196	2.084	0.849	0.4011	0.41052
5210	473863.09	3865377.25	0.95976	0.40916	0.88837	0.84162	2.359	0.82	0.4006	0.40916
5211	474363.09	3865377.25	0.95971	0.41073	0.95215	0.84752	2.575	0.792	0.4044	0.41073
5212	474863.09	3865377.25	0.94409	0.41638	1.02169	0.82885	3.012	0.765	0.4114	0.41638
5213	475363.09	3865377.25	0.93582	0.42072	0.98749	0.77518	3.387	0.762	0.4174	0.42072
5214	475863.09	3865377.25	0.92607	0.42738	0.98031	0.78851	3.511	0.784	0.424	0.42738
5215	476363.09	3865377.25	0.93455	0.42863	1.02048	0.85272	3.509	0.896	0.4245	0.42863
5216	476863.09	3865377.25	0.95529	0.4162	0.98592	0.84421	3.504	0.901	0.4106	0.4162
5217	477363.09	3865377.25	0.93007	0.4486	0.8831	0.76725	3.216	0.89	0.4441	0.4486
5218	477863.09	3865377.25	0.93316	0.45787	0.90763	0.76847	3.569	0.849	0.4562	0.45787
5219	478363.09	3865377.25	0.93329	0.46571	1.064	0.83375	4.03	0.84	0.4659	0.46571
5220	478863.09	3865377.25	0.95535	0.4739	1.04238	0.88277	4.125	0.847	0.4752	0.4739
5221	479363.09	3865377.25	0.9965	0.48764	1.07706	1.01226	4.039	0.841	0.4866	0.48764
5222	479863.09	3865377.25	1.03308	0.50284	1.28978	1.10624	3.633	0.826	0.5027	0.50284
5223	480363.09	3865377.25	1.03726	0.51489	1.21437	1.09507	2.847	0.803	0.5125	0.51489
5224	480863.09	3865377.25	1.04966	0.5433	0.98658	1.07244	2.164	0.784	0.5245	0.5433
5225	481363.09	3865377.25	1.05342	0.58313	1.11433	1.09396	1.829	0.795	0.5286	0.58313
5226	481863.09	3865377.25	1.21852	0.56058	1.32605	1.25908	2.617	0.852	0.5001	0.56058
5227	482363.09	3865377.25	1.34137	0.51579	1.51818	1.31612	3.334	0.905	0.4764	0.51579
5228	482863.09	3865377.25	1.38206	0.50102	1.53296	1.29221	3.705	0.913	0.4752	0.50102
5229	483363.09	3865377.25	1.30939	0.50137	1.69348	1.2732	4.014	0.91	0.483	0.50137
5230	483863.09	3865377.25	1.20726	0.51064	1.77525	1.21158	3.216	0.927	0.5003	0.51064
5231	484363.09	3865377.25	1.14662	0.53053	1.17955	1.18462	2.287	0.961	0.5241	0.53053
5232	484863.09	3865377.25	1.11366	0.55483	1.32298	1.16156	3.239	0.988	0.5474	0.55483
5233	485363.09	3865377.25	1.15822	0.57166	1.00078	1.2182	3.894	1.147	0.5668	0.57166
5234	485863.09	3865377.25	1.36728	0.57902	1.53295	1.37673	2.961	1.312	0.5803	0.57902
5235	486363.09	3865377.25	1.52133	0.58624	2.00635	1.73693	3.661	1.356	0.5917	0.58624
5236	486863.09	3865377.25	1.46616	0.58819	1.55181	1.83096	6.141	1.471	0.5994	0.58819
5237	487363.09	3865377.25	1.41222	0.58167	1.04667	1.95753	4.349	1.341	0.5977	0.58167
5238	487863.09	3865377.25	1.26532	0.56897	1.39005	2.09316	2.049	1.267	0.5822	0.56897
5239	488363.09	3865377.25	1.09366	0.55567	0.86877	2.8168	1.906	1.028	0.5616	0.55567
5240	488863.09	3865377.25	1.31527	0.61559	1.64291	4.45893	1.394	1.034	0.587	0.61559

13.5059926	1.29310654	0.0001157	0.147958	0.95049	0.15671	4.791759	4.76E+00	1.61E+01
16.291183	1.376015034	0.000188	0.254	0.706399	0.1659	4.715662	5.07E+00	1.84E+01
19.7915039	1.364360933	0.0001888	0.14253	0.976205	0.16937	4.596557	5.02E+00	2.20E+01
23.0127215	1.311723551	0.000108	0.097416	1.089102	0.20234	4.593723	4.83E+00	2.55E+01
26.2819344	1.327016096	8.93E-05	0.109141	0.765919	0.21378	4.848654	4.89E+00	2.87E+01
33.8557032	1.48768016	0.0001697	0.08661	0.661565	0.27827	4.167326	5.48E+00	3.51E+01
36.0548287	1.411919269	0.0001368	0.077377	1.33167	0.2947	4.601233	5.20E+00	3.86E+01
37.0941365	1.787639358	8.938E-05	0.079911	2.242578	0.27087	5.44347	6.58E+00	4.03E+01
22.1788547	0.821327846	6.768E-05	0.035967	1.346183	0.09527	3.503853	3.02E+00	2.50E+01
24.5603625	1.005687967	7.699E-05	0.050205	1.623192	0.10493	4.561201	3.70E+00	2.82E+01
17.8699166	0.993959989	8.212E-05	0.047628	1.313297	0.10626	4.116453	3.66E+00	2.08E+01
18.8816792	1.350231951	0.0001379	0.089607	2.537706	0.19739	6.380438	4.97E+00	2.45E+01
18.4779967	1.648528917	0.0001569	0.092265	1.907563	0.17632	6.077114	6.07E+00	2.23E+01
17.3517756	1.775689749	0.0001727	0.076854	1.237726	0.14291	5.915709	6.54E+00	2.00E+01
16.9045843	1.916739463	0.00016	0.072399	1.053507	0.14714	7.864255	7.06E+00	2.09E+01
17.8419541	1.647974839	0.0001459	0.077127	1.218421	0.16103	7.433748	6.07E+00	2.23E+01
20.0805193	1.770481419	0.0001372	0.075951	1.157138	0.19679	7.823585	6.52E+00	2.46E+01
21.9907338	1.98910201	0.0001341	0.066543	1.001874	0.20894	8.207753	7.32E+00	2.61E+01
22.6367928	2.400320011	0.0001555	0.058268	0.808393	0.20116	8.004616	8.84E+00	2.53E+01
22.7978902	3.011578532	0.0002101	0.073173	0.97086	0.19786	11.29874	1.11E+01	2.73E+01
22.5730425	3.435411035	0.0002602	0.085142	1.182098	0.20253	12.94425	1.26E+01	2.78E+01
9.79543126	0.73378357	8.835E-05	0.035419	1.065478	0.13303	2.749829	2.70E+00	1.18E+01
9.50036427	0.744237169	8.37E-05	0.036443	0.993457	0.1325	2.793616	2.74E+00	1.15E+01
9.27332545	0.754081283	8.414E-05	0.037222	0.888602	0.12924	2.832231	2.78E+00	1.11E+01
9.46301137	0.754506076	9.501E-05	0.040232	0.911269	0.12589	2.845268	2.78E+00	1.14E+01
9.81045589	0.758199927	9.787E-05	0.042769	0.977054	0.11947	2.841797	2.79E+00	1.18E+01
10.0139144	0.755688108	9.248E-05	0.044332	1.10619	0.1154	2.838608	2.78E+00	1.21E+01
10.0133927	0.758587781	9.912E-05	0.044642	1.20742	0.11144	2.865603	2.79E+00	1.22E+01
9.85041723	0.769022911	0.0001064	0.043659	1.412192	0.10763	2.914563	2.83E+00	1.23E+01
9.76412996	0.777038569	0.0001028	0.040832	1.588412	0.10726	2.9575	2.86E+00	1.24E+01
9.66240071	0.789339094	0.0001021	0.041534	1.646267	0.11028	3.004476	2.91E+00	1.23E+01
9.75087907	0.791647751	0.0001062	0.044916	1.645667	0.12607	3.007948	2.91E+00	1.25E+01
9.96727544	0.768690465	0.0001026	0.044468	1.642863	0.12674	2.909249	2.83E+00	1.26E+01
9.70413578	0.828530857	9.194E-05	0.040414	1.508189	0.12525	3.146821	3.05E+00	1.23E+01
9.73637613	0.845651858	9.449E-05	0.040478	1.673671	0.11943	3.232483	3.11E+00	1.25E+01
9.73773252	0.860131755	0.0001108	0.043917	1.889538	0.11822	3.300999	3.17E+00	1.28E+01
9.96790147	0.875258076	0.0001085	0.046499	1.934057	0.11913	3.366963	3.22E+00	1.31E+01
10.3972511	0.900634835	0.0001121	0.05332	1.894077	0.11828	3.447382	3.32E+00	1.35E+01
10.7789184	0.928708105	0.0001343	0.05827	1.70341	0.11619	3.562023	3.42E+00	1.37E+01
10.8225315	0.950963559	0.0001264	0.057682	1.335215	0.11296	3.631531	3.50E+00	1.34E+01
10.9519102	1.003434718	0.0001027	0.05649	1.014652	0.11024	3.716059	3.69E+00	1.32E+01
10.9911412	1.076997767	0.000116	0.057623	0.857447	0.11184	3.745393	3.97E+00	1.29E+01
12.7137565	1.035349593	0.000138	0.066321	1.227377	0.11989	3.543672	3.81E+00	1.49E+01
13.9955451	0.952625792	0.0001581	0.069325	1.56348	0.1273	3.375537	3.51E+00	1.66E+01
14.4200952	0.9253467	0.0001596	0.068066	1.737524	0.1285	3.366822	3.41E+00	1.72E+01
13.6618731	0.925993124	0.0001763	0.067065	1.882026	0.12795	3.422088	3.41E+00	1.67E+01
12.5962723	0.943114125	0.0001848	0.063819	1.507941	0.13039	3.544664	3.47E+00	1.53E+01
11.9635685	0.979849477	0.0001228	0.062399	1.072409	0.13517	3.713083	3.61E+00	1.43E+01
11.6196715	1.024729771	0.0001377	0.061184	1.518721	0.13898	3.878668	3.77E+00	1.45E+01
12.0846002	1.05581353	0.0001042	0.064168	1.825831	0.16137	4.01577	3.89E+00	1.53E+01
14.265884	1.069406903	0.0001596	0.072518	1.388235	0.18451	4.111351	3.94E+00	1.72E+01
15.8732062	1.082741706	0.0002089	0.091491	1.716798	0.19069	4.192125	3.99E+00	1.92E+01
15.2975751	1.086343211	0.0001616	0.096444	2.879544	0.2069	4.246894	4.00E+00	1.98E+01
14.7347776	1.074301256	0.000109	0.103111	2.039109	0.18865	4.234849	3.96E+00	1.84E+01
13.2020569	1.0508453	0.0001447	0.110255	0.960642	0.17829	4.125168	3.87E+00	1.58E+01
11.4109961	1.026281188	9.044E-05	0.148372	0.893554	0.14459	3.978997	3.78E+00	1.38E+01
13.7232237	1.136948975	0.000171	0.23487	0.65387	0.14544	4.159319	4.19E+00	1.59E+01

5241	489363.09	3865377.25	1.66879	0.68821	1.66935	2.23851	1.793	1.009	0.6269	0.68821
5242	489863.09	3865377.25	1.95183	0.7162	1.13761	1.69474	2.274	1.169	0.6554	0.7162
5243	490363.09	3865377.25	2.44177	0.69422	0.76228	1.93406	1.854	1.602	0.577	0.69422
5244	490863.09	3865377.25	2.83556	0.75916	1.12989	1.58506	1.242	1.866	0.5575	0.75916
5245	491363.09	3865377.25	3.28357	0.82162	1.51134	1.18497	1.911	1.781	0.5788	0.82162
5246	491863.09	3865377.25	3.47783	0.9253	0.83767	1.34089	3.559	2.035	0.6763	0.9253
5247	492363.09	3865377.25	3.34622	0.85012	0.74805	1.20294	5.51	1.365	0.9004	0.85012
5248	492863.09	3865377.25	2.85575	0.63068	0.85156	1.00993	4.963	0.912	0.6957	0.63068
5249	493363.09	3865377.25	2.04099	0.52481	0.6905	0.90906	2.873	0.701	0.5893	0.52481
5250	493863.09	3865377.25	1.77914	0.58365	0.93751	1.28137	4.383	1.082	0.7928	0.58365
5251	494363.09	3865377.25	1.70579	0.69309	1.26789	1.64281	4.632	1.183	0.8491	0.69309
5252	494863.09	3865377.25	1.69333	0.84717	1.43529	1.5869	3.611	1.135	0.7877	0.84717
5253	495363.09	3865377.25	1.58269	0.91902	1.54234	1.32755	2.319	0.976	0.7915	0.91902
5254	495863.09	3865377.25	1.49473	0.96556	1.39964	1.26786	2.072	0.961	1.0149	0.96556
5255	496363.09	3865377.25	1.58358	0.82434	1.37011	1.47419	2.457	1.013	1.0189	0.82434
5256	496863.09	3865377.25	1.76473	0.87764	1.2903	1.40534	2.35	1.167	1.0193	0.87764
5257	497363.09	3865377.25	1.91843	0.94812	1.14877	1.21082	2.024	1.37	1.0706	0.94812
5258	497863.09	3865377.25	2.0341	1.13382	1.20613	0.99286	1.677	1.4	0.9563	1.13382
5259	498363.09	3865377.25	2.0988	1.48792	1.53827	1.18207	1.787	1.433	1.3126	1.48792
5260	471363.09	3865877.25	0.86635	0.39545	0.73849	0.66156	1.79	0.862	0.387	0.39545
5261	471863.09	3865877.25	0.84662	0.40013	0.80485	0.72035	1.78	0.823	0.3915	0.40013
5262	472363.09	3865877.25	0.88517	0.39963	0.87624	0.7954	1.925	0.798	0.3942	0.39963
5263	472863.09	3865877.25	0.91134	0.40595	0.87036	0.78313	2.163	0.752	0.3977	0.40595
5264	473363.09	3865877.25	0.92571	0.40369	0.86232	0.78216	2.337	0.718	0.3976	0.40369
5265	473863.09	3865877.25	0.92613	0.40449	0.92107	0.75619	2.57	0.689	0.3992	0.40449
5266	474363.09	3865877.25	0.90699	0.40831	0.93157	0.71437	3.003	0.671	0.404	0.40831
5267	474863.09	3865877.25	0.91178	0.41693	0.96063	0.73027	3.244	0.686	0.412	0.41693
5268	475363.09	3865877.25	0.89889	0.42381	0.89877	0.7417	3.273	0.689	0.4193	0.42381
5269	475863.09	3865877.25	0.87613	0.43141	0.81064	0.72999	3.123	0.722	0.4267	0.43141
5270	476363.09	3865877.25	0.9043	0.43006	0.92764	0.76376	3.113	0.854	0.4261	0.43006
5271	476863.09	3865877.25	0.94889	0.41187	0.83429	0.78487	3.333	0.855	0.4066	0.41187
5272	477363.09	3865877.25	0.92825	0.44396	0.93832	0.8055	3.625	0.864	0.4388	0.44396
5273	477863.09	3865877.25	0.9056	0.44389	0.98703	0.81253	3.853	0.801	0.4446	0.44389
5274	478363.09	3865877.25	0.9315	0.44053	1.05452	0.87739	3.836	0.815	0.4418	0.44053
5275	478863.09	3865877.25	0.96434	0.43679	1.00102	0.98992	3.748	0.801	0.4372	0.43679
5276	479363.09	3865877.25	0.98964	0.43866	1.15023	1.02644	3.361	0.773	0.4395	0.43866
5277	479863.09	3865877.25	1.00142	0.44977	1.15195	1.00171	2.661	0.752	0.4501	0.44977
5278	480363.09	3865877.25	0.99288	0.46461	0.91412	0.99067	2.04	0.727	0.4618	0.46461
5279	480863.09	3865877.25	0.99913	0.49822	0.8082	1.06468	1.659	0.709	0.4769	0.49822
5280	481363.09	3865877.25	1.0429	0.53408	1.19572	1.20078	2.195	0.754	0.4798	0.53408
5281	481863.09	3865877.25	1.18396	0.52132	1.31688	1.22682	2.842	0.835	0.4671	0.52132
5282	482363.09	3865877.25	1.27586	0.49468	1.52014	1.18805	3.399	0.867	0.4618	0.49468
5283	482863.09	3865877.25	1.28853	0.49461	1.51586	1.16133	3.769	0.863	0.472	0.49461
5284	483363.09	3865877.25	1.23425	0.50988	1.68869	1.10986	3.288	0.869	0.4936	0.50988
5285	483863.09	3865877.25	1.1722	0.5284	1.43471	1.09234	2.498	0.892	0.519	0.5284
5286	484363.09	3865877.25	1.10136	0.54734	1.00463	1.07987	2.071	0.91	0.5412	0.54734
5287	484863.09	3865877.25	1.05787	0.55031	1.17445	1.11075	3.413	0.935	0.5444	0.55031
5288	485363.09	3865877.25	1.1135	0.54077	1.16642	1.21752	3.399	1.149	0.5372	0.54077
5289	485863.09	3865877.25	1.32995	0.52223	1.3675	1.4952	2.488	1.286	0.5235	0.52223
5290	486363.09	3865877.25	1.45249	0.51869	1.75856	1.66568	3.909	1.271	0.5084	0.51869
5291	486863.09	3865877.25	1.40468	0.51134	1.28444	1.73006	5.891	1.361	0.503	0.51134
5292	487363.09	3865877.25	1.35591	0.52136	1.1543	1.84688	3.871	1.361	0.5305	0.52136
5293	487863.09	3865877.25	1.16703	0.54407	1.22857	1.78456	1.906	1.09	0.5527	0.54407
5294	488363.09	3865877.25	0.97698	0.55856	0.7836	2.66102	1.79	0.911	0.5634	0.55856
5295	488863.09	3865877.25	1.08772	0.60178	1.53885	3.93774	1.327	0.892	0.5889	0.60178
5296	489363.09	3865877.25	1.44462	0.64285	1.5435	1.96989	1.522	0.871	0.5877	0.64285
5297	489863.09	3865877.25	1.73758	0.6608	1.23202	1.57425	2.103	0.961	0.5888	0.6608

17.4117698	1.271072717	0.0001738	0.117911	0.840585	0.14191	4.441742	4.68E+00	1.95E+01
20.3649439	1.322768166	0.0001184	0.089269	1.066444	0.16444	4.643604	4.87E+00	2.28E+01
25.4768648	1.28217274	7.936E-05	0.101875	0.869409	0.22542	4.088253	4.72E+00	2.73E+01
29.5855788	1.402112093	0.0001176	0.083492	0.582515	0.26244	3.95023	5.16E+00	3.07E+01
34.2600118	1.517471071	0.0001573	0.062417	0.896264	0.25061	4.100653	5.59E+00	3.55E+01
36.2868758	1.708960325	8.721E-05	0.07063	1.668808	0.28632	4.791759	6.29E+00	3.85E+01
34.9136874	1.570108452	7.788E-05	0.063364	2.583801	0.192	6.379871	5.78E+00	3.99E+01
29.7962366	1.164819083	8.865E-05	0.053197	2.327265	0.12826	4.929498	4.29E+00	3.41E+01
21.2952187	0.969285062	7.189E-05	0.047884	1.347055	0.09865	4.175474	3.57E+00	2.44E+01
18.5631363	1.077958169	9.76E-05	0.067495	2.055226	0.15215	5.616991	3.97E+00	2.36E+01
17.7978193	1.280085714	0.000132	0.086533	2.171804	0.16646	6.015967	4.71E+00	2.28E+01
17.6678145	1.564660022	0.0001494	0.083588	1.693122	0.15967	5.580855	5.76E+00	2.10E+01
16.5134223	1.697361631	0.0001606	0.069927	1.087541	0.13725	5.608205	6.25E+00	1.89E+01
15.5956679	1.783317552	0.0001457	0.066783	0.971662	0.13523	7.190933	6.57E+00	1.92E+01
16.5227083	1.522494709	0.0001426	0.077652	1.152209	0.14255	7.219345	5.61E+00	2.10E+01
18.4127856	1.620935847	0.0001343	0.074025	1.102143	0.16423	7.222037	5.97E+00	2.26E+01
20.016456	1.751107168	0.0001196	0.063779	0.948924	0.19277	7.585587	6.45E+00	2.41E+01
21.2233301	2.094081266	0.0001256	0.052298	0.786509	0.19698	6.775801	7.71E+00	2.34E+01
21.8983949	2.748077646	0.0001601	0.062264	0.837921	0.20159	9.300174	1.01E+01	2.49E+01
9.039296	0.730366757	7.688E-05	0.034847	0.839417	0.12131	2.74168	2.69E+00	1.08E+01
8.83343774	0.739010369	8.379E-05	0.037944	0.834897	0.11582	2.77399	2.72E+00	1.06E+01
9.23565954	0.738086906	9.122E-05	0.041897	0.902529	0.11225	2.792978	2.72E+00	1.11E+01
9.50871128	0.749759477	9.061E-05	0.041251	1.014352	0.10577	2.818131	2.76E+00	1.15E+01
9.65864455	0.745585425	8.977E-05	0.0412	1.095723	0.101	2.816927	2.75E+00	1.17E+01
9.66302673	0.747062965	9.589E-05	0.039832	1.205089	0.09699	2.828759	2.75E+00	1.18E+01
9.46332439	0.754118221	9.698E-05	0.037629	1.408103	0.09436	2.862202	2.78E+00	1.18E+01
9.51330214	0.770038721	0.0001	0.038466	1.52139	0.09646	2.918956	2.84E+00	1.20E+01
9.37881086	0.782745569	9.357E-05	0.039068	1.53473	0.09699	2.97075	2.88E+00	1.19E+01
9.14133827	0.796782204	8.439E-05	0.038452	1.464482	0.1015	3.023111	2.93E+00	1.16E+01
9.43525755	0.794288855	9.657E-05	0.04023	1.459741	0.12017	3.019285	2.92E+00	1.19E+01
9.90049932	0.760693277	8.685E-05	0.041342	1.563016	0.12024	2.880695	2.80E+00	1.25E+01
9.68514632	0.819961121	9.768E-05	0.042429	1.699602	0.12155	3.108915	3.02E+00	1.25E+01
9.44882145	0.819831837	0.0001028	0.042799	1.806525	0.11267	3.149868	3.02E+00	1.24E+01
9.71905607	0.813626166	0.0001098	0.046216	1.798863	0.11459	3.1301	3.00E+00	1.26E+01
10.0617011	0.806718664	0.0001042	0.052143	1.757481	0.11262	3.097578	2.97E+00	1.29E+01
10.3256754	0.810172415	0.0001197	0.054067	1.57585	0.10876	3.114087	2.98E+00	1.30E+01
10.4485852	0.83069176	0.0001199	0.052764	1.247958	0.10572	3.189404	3.06E+00	1.28E+01
10.3594808	0.858100137	9.517E-05	0.052183	0.956572	0.10233	3.27202	3.16E+00	1.24E+01
10.4246919	0.920175308	8.414E-05	0.056081	0.777965	0.09976	3.378867	3.39E+00	1.23E+01
10.881378	0.986406063	0.0001245	0.06325	1.029446	0.10604	3.399485	3.63E+00	1.28E+01
12.3531655	0.962839291	0.0001371	0.064622	1.332593	0.11743	3.309289	3.54E+00	1.46E+01
13.3120289	0.913637192	0.0001583	0.062579	1.593814	0.12192	3.272303	3.36E+00	1.59E+01
13.4442247	0.913507907	0.0001578	0.061172	1.767403	0.12139	3.344078	3.36E+00	1.63E+01
12.8778797	0.941710462	0.0001758	0.058461	1.541947	0.12223	3.497334	3.47E+00	1.56E+01
12.2304643	0.975915525	0.0001494	0.057538	1.171201	0.12543	3.67709	3.59E+00	1.46E+01
11.4913361	1.010896297	0.0001046	0.056881	0.971315	0.12801	3.834314	3.72E+00	1.38E+01
11.0375715	1.016381667	0.0001223	0.058508	1.600562	0.13152	3.8572	3.74E+00	1.40E+01
11.6180021	0.998761996	0.0001214	0.064132	1.593945	0.1617	3.805972	3.68E+00	1.46E+01
13.8763914	0.964519994	0.0001424	0.078758	1.16683	0.1809	3.709045	3.55E+00	1.64E+01
15.1549455	0.957981877	0.0001831	0.087738	1.83316	0.17885	3.602056	3.53E+00	1.83E+01
14.656107	0.944406973	0.0001337	0.091129	2.762309	0.19148	3.564007	3.48E+00	1.87E+01
14.1472521	0.962913168	0.0001202	0.097283	1.815411	0.19151	3.75843	3.55E+00	1.74E+01
12.1765217	1.00485685	0.0001279	0.094	0.89399	0.15328	3.916291	3.70E+00	1.45E+01
10.1935839	1.031618803	8.158E-05	0.140167	0.839154	0.12821	3.991538	3.80E+00	1.25E+01
11.3490195	1.111442931	0.0001602	0.207417	0.622321	0.12543	4.172215	4.09E+00	1.35E+01
15.0728318	1.187296168	0.0001607	0.103762	0.713845	0.12247	4.164067	4.37E+00	1.70E+01
18.1295088	1.220448484	0.0001283	0.082922	0.986146	0.13519	4.172144	4.49E+00	2.02E+01

5298	490363.09	3865877.25	2.04748	0.65586	0.7653	1.70643	1.866	1.278	0.5418	0.65586
5299	490863.09	3865877.25	2.4254	0.70816	0.76313	1.5938	1.234	1.655	0.5579	0.70816
5300	491363.09	3865877.25	2.86993	0.71426	1.43268	1.05436	1.21	1.617	0.5291	0.71426
5301	491863.09	3865877.25	3.22986	0.81487	0.88516	1.15689	2.529	1.712	0.568	0.81487
5302	492363.09	3865877.25	3.29138	0.91609	0.77124	1.23848	4.41	1.737	0.7947	0.91609
5303	492863.09	3865877.25	3.02017	0.68623	0.76051	0.94743	5.246	0.98	0.7601	0.68623
5304	493363.09	3865877.25	2.6755	0.62685	0.77012	1.04231	4.417	0.939	0.702	0.62685
5305	493863.09	3865877.25	2.16918	0.61558	0.82993	1.26544	3.511	1.105	0.8138	0.61558
5306	494363.09	3865877.25	1.62084	0.62088	1.06328	1.50051	4.725	1.039	0.8739	0.62088
5307	494863.09	3865877.25	1.58652	0.71538	1.24377	1.62249	3.526	1.154	0.8447	0.71538
5308	495363.09	3865877.25	1.60002	0.7952	1.38341	1.4833	2.996	1.093	0.7868	0.7952
5309	495863.09	3865877.25	1.50469	0.87356	1.43924	1.20844	2.048	0.938	0.7467	0.87356
5310	496363.09	3865877.25	1.4328	0.84286	1.2626	1.18618	1.994	0.855	0.9687	0.84286
5311	496863.09	3865877.25	1.44222	0.79632	1.23803	1.47808	2.591	0.944	1.057	0.79632
5312	497363.09	3865877.25	1.62845	0.82903	1.22512	1.3761	2.21	0.977	0.9542	0.82903
5313	497863.09	3865877.25	1.75599	0.86892	1.14125	1.17722	1.928	1.2	0.9903	0.86892
5314	498363.09	3865877.25	1.9535	0.93817	0.99419	1.04016	1.779	1.325	0.8941	0.93817
5315	471363.09	3866377.25	0.82296	0.39064	0.79832	0.72371	1.743	0.714	0.3823	0.39064
5316	471863.09	3866377.25	0.85741	0.39353	0.84341	0.73425	2.012	0.705	0.3869	0.39353
5317	472363.09	3866377.25	0.89267	0.39885	0.8185	0.72997	2.189	0.678	0.3918	0.39885
5318	472863.09	3866377.25	0.89673	0.39859	0.83384	0.69399	2.273	0.619	0.3927	0.39859
5319	473363.09	3866377.25	0.89612	0.39848	0.85791	0.66192	2.626	0.592	0.3933	0.39848
5320	473863.09	3866377.25	0.88093	0.39793	0.85666	0.67642	2.942	0.59	0.3937	0.39793
5321	474363.09	3866377.25	0.87972	0.40058	0.88674	0.69173	3.076	0.624	0.3967	0.40058
5322	474863.09	3866377.25	0.8716	0.4058	0.84115	0.68601	3.027	0.662	0.4015	0.4058
5323	475363.09	3866377.25	0.84298	0.40671	0.70085	0.65259	2.824	0.693	0.4027	0.40671
5324	475863.09	3866377.25	0.82754	0.405	0.74836	0.63401	2.643	0.724	0.401	0.405
5325	476363.09	3866377.25	0.88197	0.40432	0.76202	0.75537	3.109	0.828	0.4021	0.40432
5326	476863.09	3866377.25	0.95383	0.36137	0.91207	0.8627	3.606	0.782	0.3476	0.36137
5327	477363.09	3866377.25	0.94103	0.42239	0.94489	0.85355	3.9	0.84	0.4142	0.42239
5328	477863.09	3866377.25	0.92078	0.42045	1.0419	0.88913	3.61	0.791	0.4188	0.42045
5329	478363.09	3866377.25	0.93334	0.41454	0.95975	0.95624	3.49	0.764	0.4142	0.41454
5330	478863.09	3866377.25	0.95178	0.41444	1.06271	0.95942	3.132	0.731	0.415	0.41444
5331	479363.09	3866377.25	0.97267	0.41754	1.08449	0.93142	2.512	0.71	0.4188	0.41754
5332	479863.09	3866377.25	0.97116	0.43612	0.90106	0.9389	1.942	0.682	0.4371	0.43612
5333	480363.09	3866377.25	0.96108	0.46539	0.72363	1.05668	1.629	0.673	0.4608	0.46539
5334	480863.09	3866377.25	0.96708	0.50586	0.94624	1.15588	1.862	0.704	0.4802	0.50586
5335	481363.09	3866377.25	1.03149	0.54295	1.24374	1.15465	2.493	0.766	0.4954	0.54295
5336	481863.09	3866377.25	1.12852	0.52559	1.42035	1.10005	3.085	0.815	0.482	0.52559
5337	482363.09	3866377.25	1.2031	0.4982	1.43523	1.06465	3.259	0.827	0.4726	0.4982
5338	482863.09	3866377.25	1.22871	0.49967	1.46735	1.02697	3.427	0.822	0.4781	0.49967
5339	483363.09	3866377.25	1.20377	0.50266	1.50211	1.00612	2.776	0.839	0.4877	0.50266
5340	483863.09	3866377.25	1.12799	0.49998	1.02449	1.00204	1.973	0.848	0.4919	0.49998
5341	484363.09	3866377.25	1.03013	0.48564	0.99454	1.00255	2.357	0.86	0.48	0.48564
5342	484863.09	3866377.25	1.03831	0.46637	1.17958	1.0878	3.401	0.968	0.4602	0.46637
5343	485363.09	3866377.25	1.09743	0.46107	1.17177	1.27832	2.894	1.115	0.4489	0.46107
5344	485863.09	3866377.25	1.29056	0.48765	1.30508	1.49803	2.217	1.199	0.466	0.48765
5345	486363.09	3866377.25	1.37447	0.51405	1.51027	1.56566	4.14	1.249	0.4895	0.51405
5346	486863.09	3866377.25	1.34967	0.52468	1.07254	1.65239	5.619	1.366	0.5128	0.52468
5347	487363.09	3866377.25	1.34786	0.54042	1.30705	1.66375	3.585	1.304	0.5469	0.54042
5348	487863.09	3866377.25	1.1402	0.52452	1.07899	1.95349	1.837	1.046	0.5335	0.52452
5349	488363.09	3866377.25	0.92504	0.52666	0.76477	2.50032	1.732	0.836	0.5326	0.52666
5350	488863.09	3866377.25	0.97352	0.47999	1.6277	3.93969	1.318	0.819	0.4646	0.47999
5351	489363.09	3866377.25	1.3101	0.53937	1.5666	1.95626	1.325	0.881	0.4586	0.53937
5352	489863.09	3866377.25	1.66313	0.71357	1.40454	1.20192	1.941	0.904	0.5671	0.71357
5353	490363.09	3866377.25	1.80622	0.64238	0.85412	1.58529	1.918	1.013	0.5271	0.64238
5354	490863.09	3866377.25	2.03088	0.62889	0.74901	1.48873	1.301	1.31	0.5407	0.62889

21.3629339	1.211324671	7.967E-05	0.089885	0.875111	0.17982	3.83899	4.46E+00	2.31E+01		
25.306064	1.307918884	7.945E-05	0.083952	0.578581	0.23284	3.952923	4.82E+00	2.66E+01		
29.9441874	1.319185131	0.0001492	0.055537	0.567622	0.22754	3.749006	4.86E+00	3.10E+01		
33.699614	1.505004323	9.215E-05	0.060938	1.185995	0.24087	4.024485	5.54E+00	3.52E+01		
34.3414995	1.691950139	8.029E-05	0.065236	2.06791	0.24439	5.630453	6.23E+00	3.78E+01		
31.5117569	1.267415804	7.917E-05	0.049905	2.459974	0.13781	5.385654	4.67E+00	3.61E+01		
27.9155497	1.157745358	8.017E-05	0.054903	2.071408	0.13212	4.974065	4.26E+00	3.20E+01		
22.6327236	1.136930505	8.64E-05	0.066656	1.646516	0.1555	5.765783	4.19E+00	2.72E+01		
16.9114706	1.146719211	0.0001107	0.079038	2.215835	0.14612	6.191968	4.22E+00	2.25E+01		
16.5533836	1.321253687	0.0001295	0.085463	1.653404	0.16233	5.984933	4.86E+00	2.09E+01		
16.6942395	1.468675295	0.000144	0.078131	1.40476	0.15378	5.57462	5.41E+00	2.00E+01		
15.6995883	1.61340039	0.0001498	0.063653	0.960375	0.13194	5.290356	5.94E+00	1.78E+01		
14.9495046	1.556699772	0.0001314	0.062481	0.935067	0.12022	6.863376	5.73E+00	1.88E+01		
15.0477907	1.470743851	0.0001289	0.077856	1.215035	0.13286	7.489368	5.41E+00	2.00E+01		
16.9908716	1.53115679	0.0001275	0.072485	1.036461	0.13749	6.760568	5.64E+00	2.09E+01		
18.3215945	1.604830655	0.0001188	0.062009	0.904025	0.16882	7.016491	5.91E+00	2.22E+01		
20.3823683	1.732730258	0.0001035	0.054789	0.834385	0.18644	6.33495	6.38E+00	2.31E+01		
8.58657476	0.721483045	8.311E-05	0.038121	0.817298	0.1005	2.708875	2.66E+00	1.03E+01		
8.94601811	0.72682066	8.78E-05	0.038676	0.943437	0.09916	2.741326	2.68E+00	1.08E+01		
9.31391281	0.736646304	8.521E-05	0.03845	1.026586	0.09537	2.776257	2.71E+00	1.13E+01		
9.35627392	0.736166104	8.681E-05	0.036555	1.065769	0.08711	2.782705	2.71E+00	1.14E+01		
9.34990932	0.735962942	8.931E-05	0.034866	1.231293	0.08325	2.786602	2.71E+00	1.15E+01		
9.19142036	0.734947133	8.918E-05	0.03563	1.379785	0.08297	2.789577	2.71E+00	1.15E+01		
9.1787955	0.739841486	9.232E-05	0.036436	1.442288	0.08784	2.810692	2.72E+00	1.16E+01		
9.09407329	0.749482438	8.757E-05	0.036135	1.419414	0.09312	2.84456	2.76E+00	1.15E+01		
8.79545882	0.75116314	7.296E-05	0.034375	1.324308	0.09743	2.853558	2.77E+00	1.11E+01		
8.63436142	0.748004897	7.791E-05	0.033396	1.239278	0.10182	2.841371	2.75E+00	1.08E+01		
9.20227148	0.746748988	7.933E-05	0.039788	1.457706	0.11649	2.849307	2.75E+00	1.17E+01		
9.95204214	0.66742353	9.495E-05	0.045442	1.690735	0.10995	2.462517	2.46E+00	1.25E+01		
9.81848989	0.780122935	9.837E-05	0.04496	1.828607	0.11819	2.934686	2.87E+00	1.27E+01		
9.60720607	0.776539899	0.0001085	0.046834	1.69262	0.11131	2.967562	2.86E+00	1.23E+01		
9.73825421	0.765624568	9.992E-05	0.050369	1.636401	0.10751	2.934615	2.82E+00	1.24E+01		
9.93065291	0.765439876	0.0001106	0.050537	1.468885	0.10284	2.940496	2.82E+00	1.24E+01		
10.1486144	0.771165345	0.0001129	0.049062	1.177995	0.09991	2.96742	2.84E+00	1.24E+01		
10.1328594	0.805481224	9.381E-05	0.049456	0.910693	0.09591	3.09694	2.97E+00	1.21E+01		
10.027687	0.859540739	7.533E-05	0.05566	0.763837	0.09464	3.264863	3.16E+00	1.19E+01		
10.0902896	0.934285821	9.851E-05	0.060885	0.872907	0.099	3.402674	3.44E+00	1.20E+01		
10.7623287	1.002788294	0.0001295	0.06082	1.169245	0.10779	3.509733	3.69E+00	1.29E+01		
11.7747173	0.970725664	0.0001479	0.057944	1.446569	0.11471	3.415286	3.57E+00	1.42E+01		
12.5528678	0.92013837	0.0001494	0.056079	1.528231	0.11632	3.348542	3.39E+00	1.51E+01		
12.8200766	0.922853351	0.0001528	0.054095	1.606958	0.11569	3.387369	3.40E+00	1.55E+01		
12.5598584	0.928375658	0.0001564	0.052996	1.301846	0.11798	3.45546	3.42E+00	1.50E+01		
11.7691874	0.923425898	0.0001067	0.052782	0.925173	0.11926	3.485076	3.40E+00	1.39E+01		
10.7481387	0.896940983	0.0001035	0.052808	1.105463	0.12101	3.401257	3.30E+00	1.30E+01		
10.833487	0.861350726	0.0001228	0.057299	1.594593	0.13618	3.260825	3.17E+00	1.36E+01		
11.4503314	0.85156202	0.000122	0.067334	1.357179	0.1569	3.180548	3.14E+00	1.39E+01		
13.4654053	0.900653304	0.0001359	0.078907	1.039627	0.16869	3.301566	3.32E+00	1.56E+01		
14.3409028	0.949412142	0.0001572	0.08247	1.941119	0.17572	3.468284	3.50E+00	1.75E+01		
14.0821454	0.969044962	0.0001117	0.087038	2.634773	0.19216	3.633231	3.57E+00	1.80E+01		
14.0632602	0.998115572	0.0001361	0.087636	1.680855	0.18346	3.874913	3.67E+00	1.72E+01		
11.8965837	0.968749454	0.0001123	0.102898	0.861372	0.14715	3.779827	3.57E+00	1.42E+01		
9.65165392	0.972701875	7.962E-05	0.131702	0.812116	0.11759	3.773592	3.58E+00	1.19E+01		
10.1574831	0.886505853	0.0001695	0.20752	0.618237	0.11525	3.291859	3.26E+00	1.20E+01		
13.6692811	0.9961763	0.0001631	0.103044	0.621548	0.12393	3.249559	3.67E+00	1.51E+01		
17.3527147	1.317910752	0.0001462	0.06331	0.910064	0.12713	4.018179	4.85E+00	1.89E+01		
18.8456827	1.186428113	8.892E-05	0.083504	0.899387	0.1425	3.734552	4.37E+00	2.05E+01		
21.1897333	1.161513086	7.798E-05	0.078417	0.610214	0.18429	3.831055	4.28E+00	2.28E+01		

5355	491363.09	3866377.25	2.44158	0.59269	1.23647	1.20733	0.963	1.627	0.5307	0.59269
5356	491863.09	3866377.25	2.86595	0.67567	0.96691	0.9987	1.753	1.444	0.5142	0.67567
5357	492363.09	3866377.25	3.11491	0.80136	0.76983	1.14993	3.315	1.644	0.6507	0.80136
5358	492863.09	3866377.25	3.01957	0.83811	0.68202	1.08116	4.401	1.391	0.8126	0.83811
5359	493363.09	3866377.25	2.7097	0.76709	1.01237	1.10973	5.627	1.256	0.8198	0.76709
5360	493863.09	3866377.25	2.36068	0.74355	0.90175	1.20538	4.33	1.317	0.7762	0.74355
5361	494363.09	3866377.25	1.89508	0.70716	0.92917	1.32082	3.654	1.074	0.8221	0.70716
5362	494863.09	3866377.25	1.47631	0.65984	1.05567	1.50395	4.271	0.997	0.8402	0.65984
5363	495363.09	3866377.25	1.5298	0.63688	1.15395	1.43571	3.671	1.045	0.7461	0.63688
5364	495863.09	3866377.25	1.56464	0.78167	1.28857	1.28129	2.8	1.003	0.632	0.78167
5365	496363.09	3866377.25	1.48481	0.82779	1.31062	0.99683	1.821	0.859	0.7185	0.82779
5366	496863.09	3866377.25	1.36127	0.80367	1.14858	1.11917	1.816	0.751	1.0009	0.80367
5367	497363.09	3866377.25	1.31488	0.73827	1.07659	1.45372	2.496	0.868	1.0468	0.73827
5368	497863.09	3866377.25	1.49815	0.77215	1.13813	1.38383	2.505	0.882	0.936	0.77215
5369	498363.09	3866377.25	1.68641	0.70719	1.03992	1.07686	2.185	0.791	0.8534	0.70719
5370	474494.92	3848334.16	1.77897	18.09673	0.34174	0.79971	1.517	0.827	18.221	18.09673
5371	475167.27	3848920.79	2.56873	17.72916	0.38945	0.909	1.774	0.911	17.824	17.72916
5372	475297.89	3848997.96	2.57744	13.18686	0.40133	0.9185	1.789	0.932	13.54	13.18686
5373	475439.05	3849062	2.77219	13.04148	0.39464	0.94163	1.786	0.95	13.2	13.04148
5374	475486.86	3849061.09	2.64548	10.54485	0.40751	0.93892	1.759	0.956	10.67	10.54485
5375	475538.46	3849075.56	2.60144	11.01695	0.42655	0.93466	1.744	0.966	11.155	11.01695
5376	475751.79	3849137.15	2.45259	16.30023	0.54066	0.88784	1.673	1	16.532	16.30023
5377	476303.62	3849223.38	2.1467	16.70916	1.1208	0.71061	1.293	0.864	16.797	16.70916
5378	476304.51	3849238.92	2.21401	21.23355	1.1034	0.723	1.319	0.879	21.325	21.23355
5379	476365.04	3849247.98	2.21666	19.8035	1.16865	0.70408	1.277	0.851	19.959	19.8035
5380	476444.86	3849267.13	2.19674	19.85355	1.22964	0.68564	1.229	0.815	20.109	19.85355
5381	476550.75	3849300.66	2.13905	22.48653	1.31294	0.67142	1.193	0.786	23.109	22.48653
5382	476656.71	3849346.88	2.10376	25.363	1.37025	0.66588	1.176	0.765	25.817	25.363
5383	476873.55	3849454.53	2.75304	22.28012	1.4634	0.6664	1.168	0.739	22.466	22.28012
5384	477700	3849859.7	2.52597	20.67251	1.51664	0.74824	1.165	0.708	20.471	20.67251
5385	477743.16	3849856.38	2.461	15.9244	1.46293	0.75474	1.12	0.699	15.879	15.9244
5386	478477.35	3850216.33	2.6832	16.31151	1.15901	1.00057	1.21	0.848	16.034	16.31151
5387	478485.8	3850201.6	2.68569	13.76424	1.13243	1.0326	1.237	0.873	13.592	13.76424
5388	479113.21	3850501.53	3.08336	12.49521	0.95318	1.38138	1.693	1.639	12.312	12.49521
5389	479108.11	3850382.28	3.40645	7.53757	0.8533	1.41119	1.813	1.798	7.5097	7.53757
5390	479689.85	3850674.28	4.09444	7.90008	0.7193	1.45707	2.235	2.038	7.8338	7.90008
5391	479952.42	3850774.28	3.82855	7.2428	0.70486	1.40888	2.369	1.871	7.2042	7.2428
5392	479911.32	3850884.85	3.91624	12.86837	0.76357	1.52813	2.146	2.113	12.571	12.86837
5393	480500.92	3851178.12	4.1154	12.607	0.74658	1.47044	2.39	1.87	12.626	12.607
5394	480738.01	3851289.27	4.30781	12.27085	0.96423	1.52238	2.433	1.845	12.478	12.27085
5395	481055.42	3851443.58	4.92603	13.84905	1.58389	1.72298	2.471	2.194	14.197	13.84905
5396	481110.22	3851443.15	4.78541	12.7029	1.72726	1.73625	2.475	2.216	12.646	12.7029
5397	481111.1	3851417.45	4.51759	11.38636	1.75138	1.71728	2.458	2.195	11.291	11.38636
5398	482248.44	3852605.09	5.51482	14.4507	2.14604	2.77378	3.044	2.547	14.614	14.4507
5399	482273.34	3852632.31	5.55148	14.56357	2.21105	2.8084	3.061	2.567	14.718	14.56357
5400	482665.46	3853038.72	4.77204	13.23589	4.32877	3.21346	3.326	2.952	12.403	13.23589
5401	483077.95	3853844.31	6.92064	6.87213	5.55196	13.86067	4.471	14.02	8.7591	6.87213
5402	483121.38	3853909.38	7.05236	6.66177	5.00197	22.94115	4.628	19.23	8.9143	6.66177
5403	483492.64	3853911.49	5.68371	3.33107	3.58021	7.20248	4.61	5.752	3.8448	3.33107
5404	483498.29	3854204.73	7.08731	4.00058	5.11124	39.55784	5.361	15.36	7.1887	4.00058
5405	484132.44	3854662.55	8.93437	1.57463	8.6516	47.4295	6.163	12.82	10.608	1.57463
5406	484627.62	3854876.13	9.21186	1.74385	8.01284	50.29021	6.985	11.08	12.127	1.74385
5407	484756.14	3854949.04	8.89247	1.77998	7.61108	45.82522	7.46	12.02	12.439	1.77998
5408	486697.51	3856599.17	8.8626	1.31732	7.11094	46.05112	44.07	10.26	6.5323	1.31732
5409	487105.31	3856962.27	9.04388	1.5618	8.00025	38.27343	109.2	10.54	5.627	1.5618
5410	487157.57	3856901.7	8.06319	1.50485	7.4775	16.65417	103.4	7.224	4.8418	1.50485
5411	487173.5	3856853.74	7.60136	1.46006	6.81976	13.27939	95.68	6.231	4.533	1.46006

25.4748824	1.094654377	0.0001287	0.063595	0.451508	0.22888	3.760272	4.03E+00	2.70E+01
29.902661	1.247912269	0.0001007	0.052606	0.822128	0.20311	3.642938	4.59E+00	3.13E+01
32.5002522	1.480052357	8.014E-05	0.060571	1.554326	0.23124	4.610303	5.45E+00	3.50E+01
31.5054967	1.547926875	7.1E-05	0.056949	2.063887	0.19571	5.75721	5.70E+00	3.54E+01
28.2723846	1.416758214	0.0001054	0.058454	2.638674	0.17662	5.808508	5.22E+00	3.32E+01
24.6307904	1.373281584	9.388E-05	0.063492	2.030622	0.18529	5.499657	5.06E+00	2.87E+01
19.7728275	1.306071958	9.673E-05	0.069573	1.713407	0.15106	5.824733	4.81E+00	2.40E+01
15.4034779	1.218675436	0.0001099	0.079219	2.002618	0.14027	5.952908	4.49E+00	2.03E+01
15.9615802	1.176270022	0.0001201	0.075625	1.72144	0.147	5.2866	4.33E+00	2.00E+01
16.3250927	1.44368639	0.0001341	0.067491	1.312805	0.14112	4.477665	5.32E+00	1.85E+01
15.4921649	1.528866602	0.0001364	0.052507	0.853832	0.12089	5.090477	5.63E+00	1.75E+01
14.2031771	1.484318755	0.0001196	0.058951	0.851487	0.10562	7.09195	5.46E+00	1.83E+01
13.7191545	1.363529816	0.0001121	0.076573	1.170638	0.12217	7.416601	5.02E+00	1.88E+01
15.6313514	1.426103658	0.0001185	0.072892	1.174558	0.12402	6.631614	5.25E+00	1.98E+01
17.5956128	1.306127366	0.0001083	0.056723	1.024415	0.11126	6.04693	4.81E+00	2.13E+01
18.5613625	33.42331522	3.558E-05	0.042124	0.711116	0.11636	129.1022	1.23E+02	5.89E+01
26.8015361	32.74444075	4.054E-05	0.047881	0.831816	0.12822	126.2879	1.21E+02	6.63E+01
26.8924143	24.35515027	4.178E-05	0.048381	0.838807	0.13106	95.93727	8.97E+01	5.85E+01
28.9243908	24.08664422	4.108E-05	0.049599	0.837466	0.13358	93.52421	8.87E+01	5.89E+01
27.6023279	19.47555418	4.242E-05	0.049457	0.824627	0.13452	75.59853	7.17E+01	5.20E+01
27.1428247	20.34748778	4.441E-05	0.049232	0.818006	0.13591	79.0384	7.49E+01	5.26E+01
25.5897582	30.10531325	5.629E-05	0.046766	0.784399	0.14061	117.1385	1.11E+02	6.30E+01
22.3981725	30.86057657	0.0001167	0.037431	0.606322	0.12156	119.0137	1.14E+02	5.94E+01
23.1004695	39.21678861	0.0001149	0.038083	0.618579	0.12364	151.0961	1.44E+02	6.98E+01
23.128119	36.57559255	0.0001217	0.037087	0.598997	0.11975	141.4149	1.35E+02	6.72E+01
22.9202783	36.66803118	0.000128	0.036115	0.576184	0.1147	142.4763	1.35E+02	6.78E+01
22.3183542	41.53094954	0.0001367	0.035366	0.559308	0.11051	163.7391	1.53E+02	7.54E+01
21.9501464	46.84357583	0.0001427	0.035075	0.551529	0.10757	182.922	1.72E+02	7.99E+01
28.7245841	41.14972561	0.0001523	0.035102	0.547773	0.10402	159.1795	1.52E+02	7.82E+01
26.3553882	38.18058943	0.0001579	0.039413	0.546131	0.09964	145.0434	1.41E+02	6.97E+01
25.6775062	29.41118318	0.0001523	0.039755	0.525082	0.09839	112.5093	1.08E+02	6.00E+01
27.9958897	30.12614657	0.0001207	0.052704	0.567486	0.11931	113.604	1.11E+02	6.15E+01
28.0218698	25.42152821	0.0001179	0.054391	0.58002	0.12282	96.30607	9.36E+01	5.69E+01
32.1710668	23.07772413	9.923E-05	0.072763	0.793988	0.23062	87.23553	8.50E+01	5.86E+01
35.5421133	13.92133154	8.883E-05	0.074333	0.850301	0.25297	53.209	5.13E+01	5.26E+01
42.7204422	14.59086056	7.488E-05	0.07675	1.047866	0.28669	55.50544	5.37E+01	6.05E+01
39.9462073	13.37691326	7.338E-05	0.074211	1.110959	0.26315	51.04436	4.92E+01	5.66E+01
40.8611446	23.76692291	7.949E-05	0.080493	1.006469	0.29729	89.07354	8.75E+01	6.76E+01
42.939134	23.28419195	7.772E-05	0.077454	1.120661	0.26312	89.45622	8.57E+01	7.14E+01
44.9466956	22.66334789	0.0001004	0.08019	1.140829	0.25955	88.41078	8.34E+01	7.41E+01
51.3970604	25.57816598	0.0001649	0.090756	1.15891	0.30864	100.5908	9.42E+01	8.50E+01
49.9298638	23.46131212	0.0001798	0.091455	1.160439	0.3117	89.59906	8.64E+01	7.82E+01
47.1354917	21.0297606	0.0001823	0.090456	1.152749	0.30884	79.99897	7.74E+01	7.23E+01
57.5403594	26.68936881	0.0002234	0.146106	1.427367	0.35825	103.5431	9.83E+01	9.14E+01
57.9228614	26.89783131	0.0002302	0.14793	1.435258	0.36113	104.2847	9.90E+01	9.20E+01
49.7903643	24.44570504	0.0004507	0.169266	1.559705	0.41531	87.88242	9.00E+01	7.43E+01
72.2083609	12.69231332	0.000578	0.730098	2.096308	1.97175	62.0611	4.67E+01	1.05E+02
73.582697	12.30379404	0.0005207	1.208404	2.170219	2.70458	63.16124	4.53E+01	1.10E+02
59.3025187	6.152238699	0.0003727	0.379384	2.161516	0.8092	27.24144	2.27E+01	7.34E+01
73.9473573	7.388773906	0.0005321	2.083673	2.51396	2.1608	50.93418	2.72E+01	1.12E+02
93.2191551	2.908224571	0.0009007	2.498305	2.889841	1.80297	75.16363	1.07E+01	1.68E+02
96.1144218	3.220761334	0.0008342	2.64899	3.275443	1.55885	85.92474	1.19E+01	1.81E+02
92.7819802	3.287490758	0.0007924	2.413801	3.498015	1.6907	88.13246	1.21E+01	1.80E+02
92.4703235	2.432992127	0.0007403	2.4257	20.66607	1.44384	46.28349	8.96E+00	1.57E+02
94.3617572	2.884528515	0.0008329	2.016018	51.20043	1.4822	39.86911	1.06E+01	1.81E+02
84.129464	2.779346098	0.0007785	0.877243	48.464	1.01628	34.30618	1.02E+01	1.61E+02
79.3108364	2.696622297	0.00071	0.69948	44.86661	0.8765	32.11759	9.93E+00	1.51E+02

5412	487564.41	3856860.83	6.05567	1.4011	5.7378	6.8182	94.22	4.276	3.2703	1.4011	63.1834635	2.587727559	0.0005973	0.359142	44.18313	0.60155	23.17118	9.53E+00	1.25E+02
5413	487563.31	3856931.58	6.29312	1.47415	5.56799	7.43434	91.33	4.581	3.4353	1.47415	65.6609621	2.72264548	0.0005797	0.391597	42.82828	0.64444	24.33999	1.00E+01	1.27E+02
5414	487782.7	3856926.85	5.72296	1.42595	5.50224	6.11766	91.69	3.963	2.9352	1.42595	59.7120442	2.633623662	0.0005728	0.322242	42.99502	0.55748	20.79716	9.70E+00	1.17E+02
5415	487782.39	3856757.07	5.32766	1.3942	5.91943	5.25598	84.17	3.361	2.6549	1.3942	55.5875752	2.574983772	0.0006162	0.276854	39.46751	0.47275	18.81071	9.48E+00	1.08E+02
5416	487917.26	3856752.41	5.06323	1.43996	5.72498	4.70457	91.26	3.084	2.4338	1.43996	52.8285736	2.659499091	0.000596	0.247809	42.79393	0.43385	17.24428	9.79E+00	1.06E+02
5417	487919.57	3856953.35	5.49448	1.4406	5.81729	5.78355	95.23	3.753	2.7199	1.4406	57.3281366	2.660681123	0.0006056	0.304643	44.65695	0.52801	19.27126	9.80E+00	1.15E+02
5418	487932.76	3857000.32	5.34674	1.44917	6.11711	5.84716	97.35	3.879	2.7814	1.44917	55.7866515	2.676509276	0.0006368	0.307994	45.65038	0.54571	19.70694	9.85E+00	1.15E+02
5419	487960.5	3857044.75	5.31623	1.46909	6.07619	5.89873	99.41	3.976	2.8115	1.46909	55.4683172	2.713300036	0.0006326	0.31071	46.61424	0.55931	19.92035	9.99E+00	1.16E+02
5420	488016.54	3857089.54	5.18416	1.48636	5.1769	5.86615	102	3.96	2.7905	1.48636	54.0903293	2.745196442	0.0005389	0.308994	47.8459	0.55704	19.77156	1.01E+01	1.15E+02
5421	488114.39	3857165.47	4.98978	1.52974	10.85149	5.82778	104.9	4.098	2.7478	1.52974	52.0622132	2.825316078	0.0011297	0.306973	49.17657	0.57644	19.46894	1.04E+01	1.14E+02
5422	488171.49	3857234.24	4.96396	1.58685	9.10406	5.86542	105.7	5.037	2.7563	1.58685	51.7928133	2.930794003	0.0009478	0.308956	49.5703	0.70859	19.52959	1.08E+01	1.14E+02
5423	488193.16	3857297.8	5.09536	1.65509	7.64085	5.92336	106.5	5.855	2.808	1.65509	53.1638106	3.056828211	0.0007955	0.312008	49.94941	0.82369	19.89583	1.13E+01	1.16E+02
5424	488189.27	3857649.94	6.5484	2.05285	11.61062	8.87095	100.8	8.999	3.4002	2.05285	68.3244947	3.791461366	0.0012087	0.467269	47.27402	1.26598	24.09129	1.40E+01	1.31E+02
5425	488127.43	3857732.32	7.39913	2.2297	19.09928	12.7556	99.97	12.05	3.8351	2.2297	77.2008152	4.118090171	0.0019884	0.671889	46.87787	1.69476	27.17307	1.52E+01	1.43E+02
5426	488149.93	3857752.94	7.41306	2.25105	20.97294	12.85716	98.06	12.2	3.8277	2.25105	77.3461576	4.157522035	0.0021834	0.677239	45.98033	1.71661	27.12092	1.53E+01	1.42E+02
5427	488144.76	3857758.71	7.50027	2.2647	21.09905	13.38954	97.98	12.43	3.8724	2.2647	78.2560866	4.18273257	0.0021965	0.705282	45.9448	1.74872	27.43707	1.54E+01	1.43E+02
5428	488335.58	3857932.55	7.59738	2.55077	16.70758	13.64398	68.63	10.75	3.8381	2.55077	79.26931	4.711082597	0.0017394	0.718684	32.18116	1.51259	27.19418	1.73E+01	1.28E+02
5429	488372.29	3857943.79	7.44145	2.54471	16.66395	12.69218	66.44	10.38	3.7431	2.54471	77.6423723	4.699890227	0.0017348	0.668549	31.15339	1.4608	26.52128	1.73E+01	1.25E+02
5430	488828.64	3857936.4	5.82254	2.11361	12.76667	7.50468	52.84	7.109	2.7936	2.11361	60.7510389	3.90368057	0.0013291	0.395302	24.77925	1.00007	19.79373	1.44E+01	9.63E+01
5431	488829.08	3857959.58	5.91035	2.17151	12.31932	7.63439	51.5	7.156	2.8231	2.17151	61.6672282	4.010617567	0.0012825	0.402134	24.15126	1.00673	20.00275	1.48E+01	9.65E+01
5432	488351.61	3857964.55	7.70916	2.62355	17.4432	14.51696	66.51	10.93	3.9221	2.62355	80.4355967	4.845501847	0.0018159	0.764667	31.19011	1.53753	27.78942	1.78E+01	1.29E+02
5433	488316.87	3857947.65	7.82764	2.60964	17.32585	15.36615	69.64	11.22	3.9918	2.60964	81.6717897	4.819811111	0.0018037	0.809398	32.6542	1.57833	28.28313	1.77E+01	1.32E+02
5434	488129.1	3857775.77	7.78359	2.31091	21.30392	15.27432	97.27	13.17	4.021	2.31091	81.2121821	4.268079005	0.0022179	0.804561	45.61393	1.85336	28.49045	1.57E+01	1.47E+02
5435	488062.53	3857846.13	9.08188	2.54622	22.25799	42.68752	92.21	18.27	4.94	2.54622	94.7582404	4.702679085	0.0023172	2.248526	43.23755	2.5699	35.00154	1.73E+01	1.65E+02
5436	488330.41	3858091.34	9.13848	3.04004	17.34896	42.27165	63.13	17.28	4.8056	3.04004	95.3487918	5.614727921	0.0018061	2.22662	29.60327	2.43022	34.04969	2.07E+01	1.49E+02
5437	488470.87	3858174.45	8.79236	3.19919	14.39106	24.22752	56.75	13.7	4.4833	3.19919	91.7374556	5.908666141	0.0014982	1.276162	26.60911	1.92792	31.76551	2.18E+01	1.37E+02
5438	488568.9	3858262.31	9.00497	3.60288	14.56853	24.08263	50.76	13.65	4.5795	3.60288	93.9557792	6.654251566	0.0015167	1.26853	23.80463	1.91997	32.44755	2.45E+01	1.36E+02
5439	488964.27	3858025.71	6.04271	2.21613	11.70407	7.93432	47.73	6.731	2.7264	2.21613	63.0482419	4.09302739	0.0012185	0.417933	22.38067	0.94691	19.31732	1.51E+01	9.51E+01
5440	489147.25	3857956.64	5.90097	1.94625	9.96096	8.77893	44.92	5.903	2.3942	1.94625	61.5693594	3.59457909	0.001037	0.462422	21.06204	0.83042	16.96405	1.32E+01	9.12E+01
5441	489343.52	3857932.45	5.74308	1.87949	9.8156	5.84926	36.64	5.226	2.2556	1.87949	59.9219716	3.471278332	0.0010219	0.308104	17.18302	0.73518	15.98181	1.28E+01	8.48E+01
5442	489866.19	3857923.19	5.00782	1.45357	6.72139	8.36693	35.16	4.207	1.7841	1.45357	52.2504384	2.684635749	0.0006997	0.44072	16.48544	0.59177	12.64106	9.88E+00	7.52E+01
5443	489955.65	3857902.27	4.73102	1.38228	6.37094	8.30559	36.82	3.995	1.726	1.38228	49.3623711	2.552968418	0.0006633	0.437489	17.26747	0.56201	12.22919	9.40E+00	7.30E+01
5444	490079.44	3857847.9	4.45486	1.32673	6.51169	7.23664	37.37	3.9	1.6251	1.32673	46.4809814	2.450371697	0.0006779	0.381183	17.52442	0.54861	11.51414	9.02E+00	6.99E+01
5445	490108.49	3857934.13	5.22333	1.36762	5.91272	7.58263	35.12	3.947	1.6576	1.36762	54.49902	2.525892488	0.0006156	0.399408	16.46748	0.55531	11.74476	9.30E+00	7.69E+01
5446	489884.48	3858014.17	5.7042	1.54294	7.37644	9.59275	30.38	4.352	1.8313	1.54294	59.5163067	2.849695497	0.0007679	0.505289	14.24587	0.61223	12.97556	1.05E+01	8.02E+01
5447	489326.56	3858025.86	5.77816	1.98581	10.61516	6.39188	39.93	5.449	2.322	1.98581	60.2879882	3.667643469	0.0011051	0.336686	18.72236	0.76647	16.45228	1.35E+01	8.67E+01
5448	489130.38	3858056.71	5.99005	2.1303	10.96024	9.65155	46.06	6.134	2.5196	2.1303	62.4987996	3.93450576	0.001141	0.508386	21.59656	0.86286	17.85235	1.45E+01	9.28E+01
5449	488936.49	3858143.93	6.57539	2.52583	11.48373	9.75929	41.35	7.581	2.9395	2.52583	68.6061021	4.665020271	0.0011955	0.514062	19.39039	1.06645	20.82706	1.72E+01	9.79E+01
5450	488638.08	3858327.45	9.26491	3.78803	14.55626	24.97139	47.36	13.9	4.606	3.78803	96.6679332	6.996209854	0.0015154	1.315345	22.20587	1.95598	32.63531	2.58E+01	1.36E+02
5451	488663.79	3858349.57	9.27409	3.84493	14.06702	24.82545	46.22	13.86	4.6026	3.84493	96.7637152	7.101299925	0.0014645	1.307658	21.67314	1.95015	32.61108	2.61E+01	1.35E+02
5452	488694.56	3858349.5	9.08873	3.73459	13.89382	20.67753	44.73	12.85	4.4068	3.73459	94.8297118	6.897510146	0.0014464	1.08917	20.97375	1.80768	31.22377	2.54E+01	1.31E+02
5453	488694.35	3858336.75	8.99036	3.64366	13.9957	19.27344	44.48	12.48	4.33	3.64366	93.8033419	6.729569195	0.001457	1.015211	20.8565	1.75517	30.67968	2.48E+01	1.30E+02
5454	488712.81	3858336.38	8.84519	3.57081	13.80717	17.75623	42.9	12.01	4.2315	3.57081	92.2886716	6.59502066	0.0014374	0.935293	20.11773	1.68895	29.98135	2.43E+01	1.27E+02
5455	488713.23	3858367.46	9.09363	3.78813	13.35461	20.84803	43.77	12.86	4.4169	3.78813	94.8808372	6.996394547	0.0013903	1.098151	20.52331	1.80852	31.2954	2.58E+01	1.31E+02
5456	488704.63	3858384.05	9.29747	3.94187	12.83393	24.42333	44.36	13.81	4.5913	3.94187	97.0076568	7.2803409	0.0013361	1.286476	20.80315	1.94315	32.53088	2.68E+01	1.34E+02
5457	488604.15	3858488.29	9.34798	5.33067	12.74614	21.30415	43.71	9.982	6.9574	5.33067	97.5346664	9.845351273	0.001327	1.122176	20.4954	1.40421	49.29597	3.62E+01	1.43E+02
5458	488605.66	3858550.47	9.28523	6.00066	12.50797	18.43811	41.61	8.756	8.4563	6.00066	96.8799474	11.082773	0.0013022	0.97121	19.51365	1.23179	59.91572	4.08E+01	1.49E+02
5459	488692.68	3858548.71	9.06675	5.44827	12.3295	23.2949	41.28	10.77	6.7185	5.44827	94.6003775	10.06254973	0.0012836	1.227037	19.35551	1.51576	47.60321	3.70E+01	1.37E+02
5460	488759.93	3858461.81	9.1136	4.39305	11.26637	31.29738	41.92	15.52	4.9227	4.39305	95.0891996	8.113636824	0.0011729	1.648561	19.65813	2.18268	34.87918	2.99E+01	1.32E+02
5461	488816.57	3858541.79	8.95861	4.81291	11.77565	46.35852	39.32	18.31	5.291	4.81291	93.4720697	8.889087037	0.0012259	2.441892	18.43941	2.57635	37.48886	3.27E+01	1.31E+02
5462	488944.63	3858656.77	8.98906	5.21996	11.30248	43.89897	34.76	17.87	5.4233	5.21996	93.789778	9.640878132	0.0011767	2.312338	16.29952	2.51318	38.42582	3.55E+01	1.27E+02
5463	489134.91	3858830.7	7.95229	5.92737	13.12722	44.08399	28.32	17.42	5.9168	5.92737	82.972359	10.94741182	0.0013666	2.322083	13.27904	2.45101	41.92259	4.03E+01	1.14E+02
5464	489193.99	3858886.05	7.81217	6.22827	13.60632	49.58547	26.6	17.7	6.1517	6.22827	81.5103793	11.50315176	0.0014165	2.611869	12.47507	2.49008	43.5868	4.24E+01	1.12E+02
5465	489295.2	3858954.34	7.63026	6.45654	12.32284	43.21639	23.22	16.89	6.2266	6.45654	79.6123723	11.92474948	0.0012829	2.276383	10.88738	2.3756	44.11771	4.39E+01	1.07E+02
5466	489295.64	3858992.74	7.74125	7.08261	15.259	42.12481	23.79	23.97	6.8205	7.08261	80.7704163	13.08105424	0.0015886	2.218885	11.15674	3.3722	48.32577	4.82E+01	1.11E+02
5467	489183.74	3858911.72	7.92033	6.68934	15.00743	48.18894	26.67	24.45	6.6209	6.68934	82.6388957	12.35471378	0.0015624	2.538308	12.50674	3.43882	46.91125	4.55E+01	1.15E+02
5468	488873.37	3858625.59	9.17142	5.28716	11.78294	43.57013	35.26	22.97	5.7256	5.28716	95.6924801	9.764991537	0.0012267	2.295016	16.53463	3.23149	40.56794	3.60E+01	1.32E+02

5469	488842.84	3858658.69	9.26185	5.76273	12.49865	26.68056	37.99	12.22	6.4937	5.76273	96.6360059	10.64333398	0.0013012	1.405374	17.8136	1.71863	46.01049	3.92E+01	1.35E+02
5470	488856.39	3858670.93	9.29073	5.81314	12.67322	26.96407	37.67	12.28	6.5087	5.81314	96.9373331	10.7364375	0.0013194	1.420307	17.66427	1.72695	46.11613	3.95E+01	1.35E+02
5471	488805.7	3858724.5	9.36337	7.04489	11.96126	19.32623	37.24	8.618	8.4037	7.04489	97.6952421	13.0113882	0.0012452	1.017991	17.46268	1.21229	59.54296	4.79E+01	1.42E+02
5472	488805.87	3858804.16	9.28957	9.36216	11.99694	15.73608	35.71	7.99	13.109	9.36216	96.92523	17.29121365	0.001249	0.828883	16.74589	1.12393	92.87937	6.37E+01	1.62E+02
5473	488995.78	3858936.96	9.09584	11.10951	13.70789	18.35279	32.31	7.688	13.435	11.10951	94.9038959	20.51843923	0.0014271	0.966716	15.15003	1.08148	95.19366	7.55E+01	1.52E+02
5474	489130.76	3859017.38	8.89861	11.59905	14.84424	21.14982	30	7.883	12.296	11.59905	92.8460435	21.42258322	0.0015454	1.114047	14.06668	1.10889	87.11897	7.89E+01	1.39E+02
5475	489130.92	3859052.24	9.0562	15.82357	16.62236	20.39907	29.74	7.413	19.713	15.82357	94.4903012	29.22495766	0.0017305	1.074502	13.94746	1.04278	139.6728	1.08E+02	1.72E+02
5476	489200.33	3859090.6	8.77851	15.85603	17.47823	37.64199	28.38	7.641	17.612	15.85603	91.5929479	29.28490887	0.0018196	1.982757	13.30601	1.0749	124.7855	1.08E+02	1.54E+02
5477	489296.07	3859143.7	8.38996	15.83783	19.34025	17.08632	26.15	8.08	16.025	15.83783	87.5389068	29.25129482	0.0020134	0.900006	12.26253	1.13671	113.5447	1.08E+02	1.37E+02
5478	489296.43	3858954.74	7.62692	6.4531	12.26927	42.67151	23.17	16.85	6.2218	6.4531	79.5775235	11.91839606	0.0012773	2.247682	10.86319	2.37099	44.08377	4.39E+01	1.07E+02
5479	489410.33	3859033.19	7.72515	6.76077	10.40297	41.22135	20.02	17.97	6.3495	6.76077	80.6024327	12.48663968	0.001083	2.171296	9.385844	2.52799	44.9885	4.60E+01	1.06E+02
5480	489371.37	3859089.8	7.82138	8.44499	18.00111	24.07452	22.86	11.9	7.9228	8.44499	81.6064743	15.59726883	0.001874	1.268103	10.71754	1.67456	56.13575	5.74E+01	1.10E+02
5481	489390.52	3859102.82	7.87375	8.53144	18.10425	23.74199	22.32	11.85	8.0044	8.53144	82.1528908	15.75693556	0.0018848	1.250587	10.46507	1.66725	56.71435	5.80E+01	1.10E+02
5482	489382.3	3859114.53	7.90339	9.17869	18.65536	21.6111	22.9	10.86	8.5852	9.17869	82.4621477	16.9523582	0.0019421	1.138345	10.73595	1.52805	60.8291	6.24E+01	1.11E+02
5483	489363.04	3859102.45	7.8569	9.1077	18.30024	21.74703	23.45	10.81	8.5146	9.1077	81.9770818	16.82124495	0.0019052	1.145505	10.99604	1.52113	60.32887	6.19E+01	1.11E+02
5484	489337.52	3859140.71	8.10521	12.41578	17.01928	17.36499	24.89	8.858	11.848	12.41578	84.567891	22.93102282	0.0017718	0.914685	11.66925	1.24612	83.94998	8.44E+01	1.21E+02
5485	489375.14	3859164.55	8.13312	12.73779	17.85865	16.80698	23.92	8.938	12.073	12.73779	84.8590975	23.52575136	0.0018592	0.885292	11.21622	1.25738	85.53823	8.66E+01	1.21E+02
5486	489409.3	3859114.5	7.88031	8.57976	18.06066	23.78554	21.77	11.88	8.0612	8.57976	82.2213363	15.84617901	0.0018802	1.252881	10.21044	1.67109	57.11637	5.83E+01	1.10E+02
5487	489434.87	3859131.81	7.83673	8.69232	18.19583	23.6147	21.1	11.93	8.197	8.69232	81.7666326	16.05406896	0.0018943	1.243882	9.89299	1.67777	58.07849	5.91E+01	1.10E+02
5488	489471.87	3859075.75	7.69714	6.93863	10.20265	43.1635	18.74	18.18	6.4511	6.93863	80.3101828	12.81513388	0.0010622	2.273597	8.788976	2.55689	45.7083	4.72E+01	1.05E+02
5489	489602.62	3859164.69	7.87518	7.33405	10.60626	45.53495	16.06	18.57	6.8817	7.33405	82.1678111	13.54544523	0.0011042	2.398511	7.52974	2.61182	48.75954	4.99E+01	1.07E+02
5490	489558.29	3859232.45	8.20867	10.31112	19.0078	20.71163	18.72	11.21	9.5957	10.31112	85.6473688	19.04387224	0.0019788	1.090966	8.779879	1.57655	67.98885	7.01E+01	1.14E+02
5491	489620.11	3859273.56	8.21556	10.76163	22.834	20.45319	17.58	11.35	9.9449	10.76163	85.7192574	19.87593072	0.0023772	1.077353	8.244232	1.5963	70.46349	7.32E+01	1.14E+02
5492	489666.06	3859206.42	7.84211	7.5331	18.98809	45.8536	15.17	18.5	7.1009	7.5331	81.8227663	13.91307578	0.0019768	2.415296	7.114784	2.60225	50.31216	5.12E+01	1.07E+02
5493	489787.9	3859285.65	7.85198	7.90963	34.48426	45.25156	13.76	18.29	7.5046	7.90963	81.9257476	14.6084987	0.00359	2.383584	6.451629	2.5724	53.17294	5.38E+01	1.07E+02
5494	489752.17	3859343.13	8.21023	10.57259	65.21172	22.60545	14.88	13.15	9.8876	10.57259	85.6636455	19.52678789	0.0067889	1.190721	6.979201	1.84953	70.05736	7.19E+01	1.13E+02
5495	489814.94	3859385.33	8.15314	11.08556	91.53103	22.37974	13.84	13.56	10.439	11.08556	85.0679816	20.47420536	0.0095289	1.178832	6.488552	1.90772	73.96529	7.54E+01	1.14E+02
5496	489853.42	3859330.74	7.76167	8.18932	53.42644	47.25006	13.13	18.61	7.8398	8.18932	80.9834739	15.12506535	0.005562	2.488853	6.157786	2.61762	55.54781	5.57E+01	1.07E+02
5497	489969.5	3859401.91	7.66889	8.52544	52.83829	46.7726	12.29	18.33	8.3174	8.52544	80.0154288	15.745854	0.0055008	2.463703	5.760677	2.57927	58.93157	5.80E+01	1.08E+02
5498	490166.91	3859486.96	7.34974	8.23385	31.973	33.52883	10.81	17.49	8.1313	8.23385	76.6854913	15.20730895	0.0033286	1.7661	5.066995	2.46061	57.61291	5.60E+01	1.03E+02
5499	490128.86	3859571.46	8.10733	13.21998	32.28309	19.68538	11	12.33	12.672	13.21998	84.5900106	24.41632045	0.0033609	1.036909	5.155987	1.73464	89.78505	8.99E+01	1.17E+02
5500	490186.65	3859593.65	7.96298	13.11176	29.70656	21.09052	10.7	12.98	12.701	13.11176	83.083896	24.21644615	0.0030926	1.110924	5.018054	1.82647	89.99457	8.92E+01	1.16E+02
5501	490223.74	3859517.48	7.26877	8.32103	30.04968	36.01329	10.43	18.68	8.2553	8.32103	75.840669	15.36832393	0.0031284	1.896967	4.892736	2.62833	58.49164	5.66E+01	1.03E+02
5502	490846.34	3859817.22	6.66424	9.85156	14.57066	38.29806	9.009	16.24	10.125	9.85156	69.5331425	18.19509908	0.0015169	2.017315	4.224404	2.28512	71.7407	6.70E+01	1.01E+02
5503	490925.65	3859844.59	6.40376	9.632	13.75129	34.4179	8.952	15.06	9.9249	9.632	66.8153543	17.78958808	0.0014316	1.812931	4.197751	2.11814	70.32157	6.55E+01	9.76E+01
5504	491159.29	3859896.28	5.61957	7.95018	12.08024	36.23364	9.474	13.79	8.1269	7.95018	58.6332968	14.68339154	0.0012576	1.908573	4.442414	1.93983	57.58209	5.41E+01	8.51E+01
5505	491370.69	3859960.89	5.47605	7.45171	10.19556	40.61781	9.582	15.25	7.5078	7.45171	57.1358422	13.7627545	0.0010614	2.139506	4.493188	2.14481	53.19526	5.07E+01	8.22E+01
5506	491330.28	3860063.17	6.7879	11.27917	10.90131	18.29089	8.029	12.85	11.027	11.27917	70.8233824	20.83178863	0.0011349	0.963456	3.76483	1.8079	78.12808	7.67E+01	9.96E+01
5507	491636.45	3860180.75	5.88688	7.97798	9.64281	15.89875	8.293	11.23	7.6926	7.97798	61.4223476	14.73473607	0.0010039	0.837452	3.888864	1.57951	54.50478	5.42E+01	8.27E+01
5508	491617.94	3860203.93	6.45522	8.5694	9.59811	14.23867	7.937	9.866	8.1187	8.5694	67.3522761	15.82704486	0.0009992	0.750009	3.721807	1.38792	57.52371	5.83E+01	8.83E+01
5509	491805.68	3860271.59	5.89933	7.03664	8.88736	13.44098	8.078	9.244	6.743	7.03664	61.5522481	12.99615106	0.0009252	0.707991	3.788051	1.30043	47.77645	4.78E+01	8.03E+01
5510	491654.23	3860414.02	6.73375	19.45471	10.65551	9.3337	6.262	6.533	20.735	19.45471	70.2583938	35.93140335	0.0011093	0.491644	2.936447	0.91909	146.9167	1.32E+02	1.25E+02
5511	491592.62	3860510.76	5.01465	8.12605	10.81454	6.68632	6.327	5.255	7.8581	8.12605	52.3217011	15.00821036	0.0011259	0.352196	2.966669	0.7393	55.67762	5.53E+01	7.18E+01
5512	491475.41	3860368.93	5.63611	10.99584	11.29024	8.44602	6.501	5.81	10.413	10.99584	58.8058713	20.30849918	0.0011754	0.444886	3.048401	0.8173	73.78326	7.48E+01	8.24E+01
5513	491445.61	3860337.28	5.89624	11.72344	11.33204	8.93067	6.554	5.956	11.032	11.72344	61.5200077	21.6523223	0.0011797	0.470415	3.073409	0.8378	78.16237	7.97E+01	8.60E+01
5514	491399.05	3860300.37	6.13128	12.06391	11.5046	9.4706	6.687	6.194	11.292	12.06391	63.9723608	22.28114509	0.0011977	0.498855	3.135541	0.87128	80.00648	8.20E+01	8.87E+01
5515	491228.84	3860235.98	5.34163	9.43147	12.44478	9.09848	7.187	6.227	8.5311	9.43147	55.7333349	17.41922407	0.0012956	0.479254	3.370305	0.87599	60.44557	6.41E+01	7.42E+01
5516	491228.47	3860174.57	6.00037	12.63942	11.93176	11.52819	7.187	7.59	12.095	12.63942	62.6064761	23.34406928	0.0012422	0.607237	3.370193	1.06771	85.70013	8.59E+01	9.08E+01
5517	491145.77	3860112.55	6.48932	13.52951	12.09535	13.0896	7.486	8.71	13.169	13.52951	67.7080676	24.98799935	0.0012592	0.689483	3.510352	1.22525	93.30364	9.20E+01	9.94E+01
5518	490844.41	3859966.22	6.60794	14.50157	14.60343	14.58077	8.548	10.62	13.166	14.50157	68.9457213	26.78332192	0.0015203	0.768029	4.008176	1.49342	93.28721	9.86E+01	9.67E+01
5519	490845.55	3859928.15	7.269	21.7521	14.31344	18.71606	8.676	13.47	19.631	21.7521	75.8430688	40.17451192	0.0014901	0.985851	4.068498	1.89532	139.0899	1.48E+02	1.14E+02
5520	490046.91	3859625.6	7.21207	18.39209	26.50979	13.45608	11.85	9.058	16.934	18.39209	75.2490743	33.96882319	0.0027598	0.708787	5.555178	1.2743	119.9856	1.25E+02	1.12E+02
5521	489970.48	3859589.4	7.23861	17.50395	31.91732	13.24381	13.08	8.741	16.234	17.50395	75.5259866	32.32849462	0.0033228	0.697605	6.134143	1.22962	115.0225	1.19E+02	1.12E+02
5522	489865.89	3859529.06	7.54903	18.13277	44.42016	13.45239	14.86	8.237	16.485	18.13277	78.7648372	33.48987842	0.0046244	0.708592	6.969401	1.15873	116.801	1.23E+02	1.15E+02
5523	489826.89	3859531.74	7.09356	14.1872	41.12287	12.68448	15.82	7.867	13.355	14.1872	74.0125683	26.2027039	0.0042811	0.668143	7.418677	1.10664	94.62662	9.65E+01	1.08E+02
5524	489410.47	3859303.06	7.33675	13.72663	22.66561	12.7297	23.93	7.119	11.867	13.72663	76.5499567	25.35206534	0.0023596	0.670525	11.22201	1.0015	84.08155	9.33E+01	1.06E+02
5525	489407.15	3859286.09	7.62793	15.99557	23.44443	13.05196	23.96	7.17	13.102	15.99557	79.5880616	29.54262888	0.0024407	0.6875	11.23407	1.00862	92.83112	1.09E+02	1.06E+02

5526	488806.07	3858963.62	9.29138	14.48619	13.2739	13.18315	30.59	7.617	9.483	14.48619	96.9441151	26.7549162	0.0013819	0.69441	14.34345	1.07154	67.19026	9.85E+01	1.08E+02
5527	488817.64	3859546.3	9.04027	3.44969	14.95992	8.93469	16.81	9.241	3.3909	3.44969	94.3240913	6.371321022	0.0015574	0.470627	7.881903	1.29994	24.02589	2.35E+01	1.11E+02
5528	489187.25	3859549.52	6.68255	4.33167	18.52302	28.7476	21.87	8.189	4.7974	4.33167	69.7241848	8.000272527	0.0019284	1.514253	10.25608	1.15194	33.99124	2.95E+01	9.52E+01
5529	489187.66	3859523.74	6.64913	4.4717	19.50993	28.89545	22.13	7.903	4.9792	4.4717	69.3754882	8.258897529	0.0020311	1.522041	10.37587	1.11178	35.27943	3.04E+01	9.55E+01
5530	489232.59	3859522.85	6.57145	4.66807	19.70478	22.44151	22.69	7.504	5.2325	4.66807	68.5649931	8.621578323	0.0020514	1.182086	10.63839	1.0557	37.07443	3.17E+01	9.54E+01
5531	489224.98	3859759.91	8.00014	3.17121	11.29832	24.56077	19.83	7.118	3.294	3.17121	83.4716149	5.856989161	0.0011762	1.293716	9.297401	1.00134	23.3389	2.16E+01	1.03E+02
5532	488401.39	3859763.34	9.01918	2.30589	8.6382	6.3322	8.708	14.03	2.0431	2.30589	94.1040431	4.258807438	0.0008993	0.333543	4.083536	1.97372	14.47575	1.57E+01	1.04E+02
5533	488405.51	3859966.16	9.22784	2.76757	8.98987	5.94117	7.835	13.65	2.65	2.76757	96.2811534	5.111496083	0.0009359	0.312946	3.674104	1.92022	18.77585	1.88E+01	1.07E+02
5534	489202.85	3859956.57	6.93262	2.76055	10.73718	38.83603	17.06	5.206	2.6282	2.76055	72.3333575	5.098530665	0.0011178	2.045652	7.999494	0.73242	18.62175	1.88E+01	8.81E+01
5535	489191.9	3860676.74	8.86055	2.68287	7.33243	34.38698	6.699	4.697	2.5488	2.68287	92.4489343	4.955061478	0.0007634	1.811302	3.141365	0.66068	18.05888	1.82E+01	1.03E+02
5536	488392.82	3860687.88	10.00099	2.33144	5.73216	4.70873	5.611	20.45	1.9432	2.33144	104.348022	4.305996389	0.0005968	0.248028	2.630956	2.87627	13.76841	1.59E+01	1.12E+02
5537	488392.82	3860760.27	9.73716	2.34569	5.69208	4.6165	5.471	12	1.981	2.34569	101.595281	4.33231508	0.0005926	0.24317	2.565433	1.68747	14.03582	1.60E+01	1.09E+02
5538	487549.05	3860777.45	4.99148	2.01292	3.73378	3.79751	10.67	7.523	1.8998	2.01292	52.0799506	3.717713624	0.0003887	0.20003	5.005483	1.05832	13.46041	1.37E+01	6.18E+01
5539	487554.62	3859571.83	9.75305	2.32095	4.4857	5.08077	15.3	11.4	1.8921	2.32095	101.761073	4.286622139	0.000467	0.267625	7.174942	1.60339	13.40628	1.58E+01	1.13E+02
5540	485949.46	3859558.54	4.43073	2.63652	5.83985	3.31629	12.72	4.701	2.4863	2.63652	46.2292145	4.869456473	0.000608	0.174683	5.965731	0.66129	17.61619	1.79E+01	5.76E+01
5541	485947.55	3857943.61	8.33141	3.45805	6.2789	3.72637	23.52	14.65	1.8464	3.45805	86.9280096	6.386761321	0.0006537	0.196283	11.02827	2.06105	13.0822	2.35E+01	9.62E+01
5542	484738.38	3857940.21	4.77786	1.99105	4.56038	2.82928	17.7	6.232	1.4396	1.99105	49.8510888	3.67732136	0.0004748	0.14903	8.297577	0.87665	10.19973	1.35E+01	5.95E+01
5543	484737.06	3857535.68	6.08647	2.46274	7.37444	2.80642	17.77	5.564	1.4573	2.46274	63.5048236	4.54849773	0.0007677	0.147826	8.331123	0.78272	10.32521	1.67E+01	7.09E+01
5544	483730.2	3857530.13	4.30222	1.78662	8.66426	2.59777	12.33	4.945	1.2552	1.78662	44.8883708	3.299754345	0.000902	0.136835	5.78243	0.69558	8.893616	1.21E+01	5.15E+01
5545	483727.27	3857130.01	6.8827	2.00593	7.35697	2.45498	9.383	3.561	1.2896	2.00593	71.8125037	3.704803614	0.0007659	0.129314	4.399827	0.50089	9.137565	1.36E+01	7.60E+01
5546	483124.42	3857123.45	5.13339	1.65878	6.82469	2.28249	8.157	3.632	1.1287	1.65878	53.5606068	3.063643367	0.0007105	0.120228	3.825199	0.51087	7.996963	1.13E+01	5.78E+01
5547	483111.13	3855921.03	7.60226	2.35366	9.12241	2.05407	13.12	4.165	1.2379	2.35366	79.3202268	4.347035078	0.0009497	0.108196	6.151094	0.58595	8.770756	1.60E+01	8.33E+01
5548	482701.73	3855918.24	6.09565	2.07617	12.78298	1.98756	13.52	3.246	1.1654	2.07617	63.6006056	3.834531673	0.0013308	0.104693	6.341396	0.45669	8.257279	1.41E+01	6.85E+01
5549	482668.02	3853521.78	6.60763	6.32451	3.15764	4.82216	3.804	4.236	6.3601	6.32451	68.9424868	11.68089988	0.0003287	0.254003	1.783853	0.59589	45.06325	4.30E+01	8.53E+01
5550	482579.91	3853219.19	6.17368	6.93267	3.18672	4.3431	3.377	3.699	7.582	6.93267	64.4147527	12.8041262	0.0003318	0.228769	1.583376	0.52038	53.72106	4.71E+01	8.61E+01
5551	482434.06	3852961.94	5.82309	9.18229	2.52697	3.81879	3.181	3.073	9.6886	9.18229	60.7567775	16.95900713	0.0002631	0.201151	1.491829	0.43226	68.64709	6.24E+01	8.61E+01
5552	482332.11	3852832.85	5.5437	10.61941	2.21149	3.51532	3.085	2.913	10.795	10.61941	57.8416867	19.61326095	0.0002302	0.185166	1.446836	0.40983	76.48711	7.22E+01	8.38E+01
5553	481334.99	3851818.96	4.16829	9.03756	1.92451	2.00624	2.639	2.439	9.231	9.03756	43.4909761	16.69170158	0.0002004	0.105677	1.237623	0.34315	65.40461	6.15E+01	6.58E+01
5554	481127.62	3851646.36	4.22751	10.54737	1.54476	1.80618	2.563	2.237	10.595	10.54737	44.1088639	19.48020843	0.0001608	0.095139	1.202051	0.31469	75.07195	7.17E+01	6.86E+01
5555	481025.04	3851591.73	4.10992	10.38591	1.31861	1.72297	2.538	2.129	10.442	10.38591	42.881957	19.18200381	0.0001373	0.090756	1.190173	0.29956	73.98789	7.06E+01	6.70E+01
5556	480513.6	3851335.76	3.45207	10.88284	0.82832	1.61981	2.336	2.09	11.131	10.88284	36.0181019	20.09979658	8.623E-05	0.085322	1.095569	0.29405	78.86389	7.40E+01	6.25E+01
5557	480523.56	3851317.66	3.68238	12.70155	0.81563	1.58856	2.356	2.048	12.988	12.70155	38.4211033	23.45881877	8.491E-05	0.083676	1.104572	0.28817	92.02474	8.64E+01	6.90E+01
5558	476921.56	3849569.11	2.03793	9.81812	1.46995	0.72731	1.321	0.829	9.8614	9.81812	21.2632914	18.13333788	0.000153	0.03831	0.619625	0.11666	69.87186	6.68E+01	4.33E+01
5559	476521.19	3849373.96	2.12418	10.75186	1.23319	0.7336	1.356	0.887	10.796	10.75186	22.163204	19.85788626	0.0001284	0.038642	0.635648	0.12476	76.49051	7.31E+01	4.62E+01
5560	476391.45	3849333.38	2.05398	10.99496	1.1218	0.75452	1.41	0.928	11.081	10.99496	21.4307534	20.30687389	0.0001168	0.039744	0.661223	0.13048	78.5148	7.48E+01	4.63E+01
5561	476219.41	3849304.29	2.05048	10.78856	0.92647	0.79571	1.518	0.989	10.891	10.78856	21.3942352	19.92566843	9.645E-05	0.041913	0.711608	0.1391	77.16787	7.34E+01	4.60E+01
5562	475679.11	3849218.47	2.29239	12.54646	0.49245	0.91032	1.794	0.993	12.627	12.54646	23.9182683	23.17237907	5.127E-05	0.04795	0.841227	0.13975	89.46848	8.53E+01	5.23E+01
5563	475677.71	3849233.88	2.21491	11.50034	0.49499	0.91164	1.804	0.991	11.58	11.50034	23.1098599	21.24027319	5.153E-05	0.04802	0.846155	0.13942	82.04649	7.82E+01	4.92E+01
5564	475492.74	3849204.66	1.91387	8.86073	0.38085	0.96471	1.881	0.909	8.9111	8.86073	19.968878	16.36510971	3.965E-05	0.050815	0.882079	0.12789	63.13829	6.03E+01	4.03E+01
5565	475497.64	3849158.75	3.16545	16.55984	0.38741	0.96106	1.857	0.944	16.64	16.55984	33.0275749	30.58479362	4.033E-05	0.050623	0.870844	0.13281	117.9015	1.13E+02	7.00E+01
5566	475391.35	3849141.94	2.63023	14.07277	0.42701	0.9312	1.862	0.927	14.14	14.07277	27.4432129	25.99136019	4.445E-05	0.04905	0.873024	0.13035	100.1878	9.57E+01	5.90E+01
5567	475277	3849095.47	2.73724	13.97417	0.46127	0.91704	1.842	0.903	14.069	13.97417	28.5597306	25.80925332	4.802E-05	0.048304	0.863834	0.12707	99.68174	9.50E+01	6.01E+01
5568	475183.93	3849025.66	2.56225	16.1935	0.44934	0.91015	1.828	0.895	16.276	16.1935	26.7339253	29.90819087	4.678E-05	0.047941	0.857166	0.12588	115.3187	1.10E+02	6.29E+01
5569	474453.23	3848378.77	2.05962	12.79424	0.34058	0.80888	1.585	0.828	13.111	12.79424	21.4895999	23.63001031	3.546E-05	0.042607	0.743434	0.11643	92.89276	8.70E+01	5.19E+01
5570	474569.63	3848399.34	1.80392	18.02457	0.34465	0.81196	1.547	0.838	18.149	18.02457	18.8216851	33.29004106	3.588E-05	0.042769	0.725338	0.1179	128.5915	1.23E+02	5.90E+01
5571	474644.33	3848464.52	1.91649	17.86057	0.34859	0.8222	1.576	0.849	17.983	17.86057	19.9962145	32.98714525	3.629E-05	0.043309	0.739068	0.11948	127.4144	1.21E+02	5.99E+01
5572	474719.04	3848529.7	2.01504	17.6935	0.35362	0.83385	1.605	0.859	17.813	17.6935	21.0244624	32.67857938	3.681E-05	0.043922	0.752423	0.1209	126.2098	1.20E+02	6.05E+01
5573	474793.74	3848594.88	2.0913	17.87309	0.35285	0.85074	1.634	0.867	17.992	17.87309	21.8201417	33.01026876	3.673E-05	0.044812	0.766298	0.12199	127.4785	1.22E+02	6.17E+01
5574	474868.45	3848660.07	2.17028	17.9922	0.34711	0.87157	1.663	0.872	18.109	17.9922	22.6442008	33.23025608	3.614E-05	0.045909	0.779991	0.12272	128.308	1.22E+02	6.28E+01
5575	474943.15	3848725.25	2.25904	17.96265	0.34821	0.88696	1.691	0.879	18.075	17.96265	23.5703021	33.17567943	3.625E-05	0.04672	0.792942	0.1237	128.0668	1.22E+02	6.36E+01
5576	475017.86	3848790.43	2.33384	18.06353	0.35901	0.89681	1.718	0.89	18.17	18.06353	24.3507481	33.36199729	3.738E-05	0.047239	0.805477	0.12522	128.7402	1.23E+02	6.46E+01
5577	475092.56	3848855.61	2.41498	17.72412	0.37475	0.9031	1.747	0.902	17.825	17.72412	25.1973441	32.73513225	3.901E-05	0.04757	0.819192	0.12683	126.299	1.21E+02	6.47E+01
5578	475232.58	3848959.38	2.5513	14.61238	0.39669	0.91167	1.781	0.922	14.698	14.61238	26.6196755	26.98797975	4.13E-05	0.048021	0.835056	0.12967	104.1402	9.94E+01	5.94E+01
5579	475368.47	3849029.98	2.59893	12.0342	0.40336	0.92737	1.788	0.943	12.396	12.0342	27.116636	22.22627292	4.199E-05	0.048848	0.838582	0.13269	87.82957	8.18E+01	5.64E+01
5580	475609.57	3849096.09	2.55692	12.27872	0.45758	0.92501	1.723	0.979	12.425	12.27872	26.6783133	22.67788319	4.764E-05	0.048724	0.808145	0.13774	88.03348	8.35E+01	5.49E+01
5581	475680.68	3849116.62	2.46373	14.29085	0.50269	0.90049	1.7	0.994	14.454	14.29085	25.7059904	26.39413774	5.233E-05	0.047432	0.79697	0.1398	102.4114	9.72E+01	5.83E+01
5582	475843.76	3849151.52	2.36507	16.28248	0.6177	0.85548	1.616	0.995	16.486	16.28248	24.6765947	30.07253032	6.431E-05	0.045062	0.757651	0.14001	116.8092	1.11E+02	6.18E+01

5583	475935.73	3849165.89	2.28969	15.89088	0.72161	0.81821	1.554	0.991	16.049	15.89088
5584	476027.7	3849180.26	2.24719	15.20097	0.84019	0.78591	1.494	0.975	15.325	15.20097
5585	476119.68	3849194.64	2.24876	16.41744	0.92269	0.77028	1.428	0.943	16.511	16.41744
5586	476211.65	3849209.01	2.21967	16.81417	1.02167	0.74119	1.359	0.905	16.893	16.81417
5587	476497.8	3849283.9	2.1914	21.22257	1.27394	0.67836	1.21	0.801	21.666	21.22257
5588	476603.73	3849323.77	2.11628	25.31982	1.34476	0.66916	1.186	0.776	25.899	25.31982
5589	476728.99	3849382.76	2.19664	24.56417	1.40571	0.66615	1.175	0.757	24.876	24.56417
5590	476801.27	3849418.65	2.75566	23.27023	1.43741	0.66658	1.173	0.749	23.508	23.27023
5591	476956.2	3849495.05	2.71589	21.074	1.49397	0.66793	1.169	0.733	21.262	21.074
5592	477038.84	3849535.56	2.68778	21.33602	1.50996	0.66584	1.157	0.719	21.492	21.33602
5593	477121.48	3849576.08	2.64727	21.1499	1.52776	0.67029	1.154	0.713	21.257	21.1499
5594	477204.13	3849616.6	2.61501	21.34207	1.53095	0.67338	1.143	0.704	21.41	21.34207
5595	477286.78	3849657.12	2.6134	20.99802	1.51351	0.66246	1.105	0.681	21.009	20.99802
5596	477369.42	3849697.63	2.54699	21.28419	1.53967	0.6886	1.133	0.697	21.271	21.28419
5597	477452.07	3849738.15	2.52598	21.58586	1.53444	0.69443	1.12	0.692	21.494	21.58586
5598	477534.71	3849778.67	2.49407	21.17701	1.54065	0.71763	1.139	0.701	21.053	21.17701
5599	477617.35	3849819.18	2.5123	21.59667	1.52484	0.72839	1.13	0.7	21.404	21.59667
5600	477824.74	3849896.37	2.50184	15.44448	1.44408	0.77748	1.154	0.709	15.391	15.44448
5601	477906.31	3849936.37	2.56752	16.10378	1.38974	0.78133	1.099	0.703	15.999	16.10378
5602	477987.89	3849976.36	2.57051	15.97732	1.36771	0.81265	1.132	0.715	15.888	15.97732
5603	478069.47	3850016.36	2.58554	16.22255	1.31547	0.82742	1.109	0.717	16.068	16.22255
5604	478151.04	3850056.35	2.60937	16.24871	1.26501	0.84636	1.095	0.723	16.069	16.24871
5605	478232.62	3850096.35	2.61938	16.39227	1.23745	0.88096	1.117	0.739	16.188	16.39227
5606	478314.2	3850136.34	2.63711	16.38937	1.21163	0.9191	1.145	0.757	16.162	16.38937
5607	478395.77	3850176.34	2.65586	16.34286	1.18587	0.95876	1.177	0.8	16.095	16.34286
5608	478575.43	3850244.45	2.74394	13.51738	1.10474	1.09209	1.297	0.938	13.344	13.51738
5609	478665.06	3850287.29	2.81421	13.27974	1.0767	1.14994	1.36	1.009	13.097	13.27974
5610	478754.69	3850330.14	2.8707	13.04024	1.05061	1.20485	1.426	1.115	12.854	13.04024
5611	478844.32	3850372.99	2.91947	12.77404	1.02755	1.25519	1.493	1.236	12.578	12.77404
5612	478933.95	3850415.84	2.96425	12.48442	1.0069	1.29844	1.619	1.37	12.285	12.48442
5613	479023.58	3850458.68	3.02344	12.71216	0.97519	1.34645	1.655	1.501	12.491	12.71216
5614	479110.66	3850441.9	3.27467	9.10169	0.90255	1.40527	1.749	1.729	9.0338	9.10169
5615	479191.22	3850423.99	3.45017	7.4647	0.83659	1.41662	1.859	1.888	7.4332	7.4647
5616	479274.32	3850465.71	3.5601	7.5543	0.81672	1.42234	1.903	1.965	7.5235	7.5543
5617	479357.43	3850507.42	3.66025	7.79899	0.79391	1.42836	1.945	2.024	7.7597	7.79899
5618	479440.53	3850549.14	3.8046	7.92208	0.77096	1.42892	2.073	2.056	7.865	7.92208
5619	479523.64	3850590.85	3.92947	7.88159	0.75031	1.44342	2.132	2.067	7.8188	7.88159
5620	479606.74	3850632.57	4.00864	7.88725	0.7316	1.45284	2.183	2.062	7.8214	7.88725
5621	479777.37	3850707.61	4.03017	7.66509	0.71458	1.44556	2.296	1.984	7.6025	7.66509
5622	479864.9	3850740.95	3.85315	7.45504	0.71069	1.43023	2.337	1.929	7.3966	7.45504
5623	479931.87	3850829.56	3.89559	9.07356	0.73441	1.47328	2.315	1.991	8.9576	9.07356
5624	479995.55	3850926.75	3.87513	12.53312	0.76538	1.52327	2.192	2.089	12.326	12.53312
5625	480079.78	3850968.64	3.82772	12.19788	0.76529	1.51566	2.235	2.06	12.038	12.19788
5626	480164.01	3851010.54	3.80649	11.96856	0.76323	1.50231	2.271	2.027	11.847	11.96856
5627	480248.23	3851052.43	3.81123	11.78118	0.76344	1.48887	2.301	1.991	11.701	11.78118
5628	480332.46	3851094.33	3.87602	11.88074	0.76077	1.4737	2.331	1.95	11.856	11.88074
5629	480416.69	3851136.22	4.00864	12.34461	0.75527	1.46457	2.363	1.907	12.334	12.34461
5630	480579.95	3851215.17	4.17667	12.54784	0.77865	1.47414	2.409	1.838	12.608	12.54784
5631	480658.98	3851252.22	4.23939	12.41015	0.85772	1.48635	2.424	1.81	12.569	12.41015
5632	480817.36	3851327.85	4.40789	12.34728	1.09021	1.56876	2.441	1.931	12.577	12.34728
5633	480896.71	3851366.42	4.5356	12.31399	1.24005	1.62055	2.445	2.024	12.568	12.31399
5634	480976.07	3851405	4.72174	12.72758	1.40886	1.67366	2.445	2.117	13.004	12.72758
5635	481178	3851487.31	4.7017	12.57389	1.84178	1.7676	2.493	2.239	12.469	12.57389
5636	481244.9	3851557.17	4.82637	14.37093	1.92243	1.82055	2.529	2.274	14.156	14.37093
5637	481311.81	3851627.03	5.01713	16.76149	1.99083	1.87704	2.566	2.307	16.468	16.76149
5638	481378.71	3851696.89	5.20582	18.21619	2.04609	1.93646	2.603	2.333	17.786	18.21619
5639	481445.61	3851766.76	5.34604	18.32107	2.08825	1.99698	2.64	2.348	17.987	18.32107

23.8900972	29.34927423	7.512E-05	0.043098	0.728818	0.13936	113.7128	1.08E+02	5.98E+01
23.446662	28.07506174	8.747E-05	0.041397	0.700753	0.13721	108.5829	1.03E+02	5.76E+01
23.463043	30.32179141	9.606E-05	0.040574	0.669649	0.1326	116.9847	1.12E+02	6.00E+01
23.1595246	31.05452223	0.0001064	0.039041	0.637491	0.12731	119.6908	1.14E+02	6.04E+01
22.864562	39.19650936	0.0001326	0.035732	0.567617	0.11267	153.5082	1.44E+02	7.20E+01
22.0807772	46.76382557	0.00014	0.035247	0.556316	0.10921	183.5042	1.72E+02	8.09E+01
22.9192349	45.36819619	0.0001463	0.035089	0.550816	0.10642	176.2559	1.67E+02	7.82E+01
28.7519206	42.97838519	0.0001496	0.035111	0.549925	0.10532	166.566	1.58E+02	8.08E+01
28.3369696	38.92211162	0.0001555	0.035183	0.548317	0.1031	150.6524	1.43E+02	7.53E+01
28.0436764	39.40604308	0.0001572	0.035073	0.54245	0.1012	152.2763	1.45E+02	7.53E+01
27.6210044	39.06229328	0.000159	0.035307	0.540917	0.10036	150.6137	1.44E+02	7.42E+01
27.284411	39.41721698	0.0001594	0.03547	0.535764	0.09909	151.6954	1.45E+02	7.39E+01
27.2676126	38.7817822	0.0001576	0.034894	0.518123	0.09583	148.8587	1.43E+02	7.28E+01
26.574706	39.31031692	0.0001603	0.036271	0.531229	0.09805	150.7162	1.45E+02	7.25E+01
26.3554925	39.86747899	0.0001597	0.036578	0.525279	0.0973	152.2935	1.47E+02	7.24E+01
26.0225509	39.11236343	0.0001604	0.0378	0.534211	0.09861	149.1676	1.44E+02	7.10E+01
26.2127585	39.88744426	0.0001587	0.038367	0.529808	0.09842	151.658	1.47E+02	7.16E+01
26.1036213	28.52480661	0.0001503	0.040953	0.541147	0.09972	109.0497	1.05E+02	5.93E+01
26.7889113	29.7424847	0.0001447	0.041156	0.515375	0.09883	113.3551	1.10E+02	6.10E+01
26.8201082	29.50892248	0.0001424	0.042806	0.530901	0.10058	112.5692	1.09E+02	6.09E+01
26.9769278	29.96184406	0.0001369	0.043584	0.520116	0.10089	113.8464	1.10E+02	6.11E+01
27.2255645	30.01015964	0.0001317	0.044581	0.513326	0.10168	113.8527	1.10E+02	6.13E+01
27.3300065	30.27530429	0.0001288	0.046404	0.523661	0.10396	114.6943	1.11E+02	6.15E+01
27.5149973	30.2699482	0.0001261	0.048413	0.536983	0.10643	114.5128	1.11E+02	6.15E+01
27.7106304	30.18404769	0.0001235	0.050502	0.551955	0.11248	114.036	1.11E+02	6.15E+01
28.6296368	24.96559614	0.000115	0.057525	0.608366	0.13195	94.54557	9.19E+01	5.70E+01
29.3628178	24.52669273	0.0001121	0.060572	0.637664	0.142	92.79839	9.03E+01	5.72E+01
29.9522214	24.08435403	0.0001094	0.063464	0.668482	0.15691	91.07197	8.87E+01	5.73E+01
30.4610764	23.59270241	0.000107	0.066116	0.700293	0.17394	89.11988	8.69E+01	5.73E+01
30.9283006	23.0577958	0.0001048	0.068394	0.759391	0.19271	87.04267	8.49E+01	5.72E+01
31.5458754	23.47841465	0.0001015	0.070923	0.775991	0.21111	88.50324	8.64E+01	5.81E+01
34.1671512	16.81014492	9.396E-05	0.074021	0.820093	0.24329	64.00766	6.19E+01	5.42E+01
35.9982777	13.78674607	8.709E-05	0.074619	0.871589	0.26565	52.66655	5.08E+01	5.29E+01
37.145262	13.95223061	8.503E-05	0.07492	0.892269	0.27647	53.30643	5.14E+01	5.43E+01
38.190204	14.40415485	8.265E-05	0.075238	0.912015	0.28476	54.9802	5.30E+01	5.58E+01
39.6963186	14.63149293	8.026E-05	0.075267	0.971915	0.28919	55.72608	5.39E+01	5.75E+01
40.9991833	14.55671091	7.811E-05	0.076031	0.999694	0.29074	55.39895	5.36E+01	5.87E+01
41.8252248	14.56716451	7.616E-05	0.076527	1.023721	0.29005	55.41765	5.36E+01	5.96E+01
42.0498639	14.1568515	7.439E-05	0.076144	1.07646	0.27905	53.86667	5.21E+01	5.94E+01
40.2028781	13.76890476	7.399E-05	0.075336	1.095813	0.27131	52.40765	5.07E+01	5.71E+01
40.6456872	16.7581909	7.646E-05	0.077604	1.085778	0.2801	63.46776	6.17E+01	6.06E+01
40.4322123	23.14774108	7.968E-05	0.080237	1.02766	0.29382	87.33139	8.52E+01	6.71E+01
39.9375473	22.52857772	7.967E-05	0.079836	1.047936	0.2898	85.29343	8.29E+01	6.62E+01
39.7160384	22.10504072	7.946E-05	0.079133	1.065084	0.28514	83.93999	8.14E+01	6.58E+01
39.7654944	21.75896379	7.948E-05	0.078425	1.078955	0.28008	82.90729	8.01E+01	6.58E+01
40.4414984	21.94284371	7.92E-05	0.077626	1.09321	0.27429	84.00227	8.08E+01	6.70E+01
41.8252248	22.79957712	7.863E-05	0.077145	1.108215	0.2683	87.38822	8.39E+01	6.95E+01
43.5784111	23.17492783	8.106E-05	0.077649	1.129828	0.25858	89.32932	8.53E+01	7.22E+01
44.2328171	22.92062463	8.929E-05	0.078292	1.136599	0.25467	89.05725	8.44E+01	7.33E+01
45.9909072	22.80450841	0.0001135	0.082633	1.144561	0.27158	89.11513	8.40E+01	7.54E+01
47.3234039	22.74302426	0.0001291	0.085361	1.146353	0.28474	89.04556	8.37E+01	7.69E+01
49.2655457	23.50689425	0.0001467	0.088158	1.146442	0.29777	92.13661	8.65E+01	7.99E+01
49.056453	23.22304024	0.0001917	0.093107	1.168945	0.31492	88.34566	8.55E+01	7.67E+01
50.357231	26.54203955	0.0002001	0.095896	1.185779	0.31995	100.2969	9.77E+01	8.11E+01
52.3475768	30.95722619	0.0002073	0.098871	1.203219	0.3245	116.6819	1.14E+02	8.76E+01
54.3163247	33.64394896	0.000213	0.102001	1.220737	0.32815	126.0221	1.24E+02	9.18E+01
55.7793479	33.83765453	0.0002174	0.105189	1.238139	0.33033	127.4432	1.25E+02	9.42E+01

5640	481512.51	3851836.62	5.40959	18.05904	2.11067	2.06195	2.679	2.361	17.649	18.05904
5641	481579.42	3851906.48	5.4197	17.54248	2.11393	2.1294	2.718	2.369	17.132	17.54248
5642	481646.32	3851976.34	5.40618	17.02105	2.09883	2.19786	2.756	2.371	16.618	17.02105
5643	481713.22	3852046.2	5.41724	16.41458	2.05117	2.27671	2.798	2.368	16.015	16.41458
5644	481780.12	3852116.06	5.40483	16.0479	2.00302	2.34509	2.833	2.369	15.684	16.0479
5645	481847.03	3852185.92	5.39236	15.76065	1.95353	2.40811	2.866	2.386	15.437	15.76065
5646	481913.93	3852255.78	5.38932	15.36738	1.9058	2.46795	2.897	2.407	15.1	15.36738
5647	481980.83	3852325.65	5.38049	14.89351	1.88675	2.51839	2.923	2.432	14.683	14.89351
5648	482047.73	3852395.51	5.39741	14.8401	1.87098	2.58324	2.954	2.452	14.711	14.8401
5649	482114.64	3852465.37	5.40715	14.42957	1.91826	2.63336	2.98	2.474	14.408	14.42957
5650	482181.54	3852535.23	5.46134	14.556	1.98275	2.70993	3.015	2.508	14.636	14.556
5651	482338.69	3852700.04	5.6287	14.63658	2.48042	2.86741	3.099	2.614	14.704	14.63658
5652	482404.05	3852767.78	5.68267	14.91508	2.81589	2.93169	3.144	2.67	15.225	14.91508
5653	482469.4	3852835.52	5.63439	14.93321	3.22015	2.99516	3.189	2.734	15.443	14.93321
5654	482534.75	3852903.25	5.49141	14.3898	3.64227	3.07177	3.237	2.81	14.47	14.3898
5655	482600.11	3852970.99	5.2155	14.44554	4.04793	3.13801	3.281	2.88	13.204	14.44554
5656	482706.71	3853119.28	4.80025	12.26401	4.43717	3.53539	3.367	3.118	11.538	12.26401
5657	482747.96	3853199.84	4.96365	11.83827	4.50974	3.85239	3.435	3.346	10.55	11.83827
5658	482789.21	3853280.4	5.1552	11.50943	4.53906	4.18191	3.497	3.551	10.692	11.50943
5659	482830.46	3853360.96	5.33254	11.25357	4.54104	4.55324	3.577	3.722	10.782	11.25357
5660	482871.71	3853441.52	5.50638	9.84216	4.70821	4.97593	3.682	4.077	10.12	9.84216
5661	482912.95	3853522.07	5.70289	8.94979	4.77446	5.56492	3.808	4.648	9.4359	8.94979
5662	482954.2	3853602.63	5.91129	7.96798	4.93127	6.37535	3.941	5.479	8.7728	7.96798
5663	482995.45	3853683.19	6.18915	7.22489	5.31325	7.68364	4.095	6.575	8.3799	7.22489
5664	483036.7	3853763.75	6.53466	6.6307	5.50897	9.86521	4.274	8.601	8.0646	6.6307
5665	483214.2	3853909.91	6.7352	5.41568	6.68913	14.47135	4.641	11.69	6.6479	5.41568
5666	483307.01	3853910.44	6.52783	4.58711	4.79073	10.11282	4.615	8.764	5.1555	4.58711
5667	483399.83	3853910.96	6.05733	3.45786	3.52258	8.06815	4.616	6.853	4.0765	3.45786
5668	483494.52	3854009.24	5.95578	3.1495	4.29327	8.87278	4.828	6.926	4.1638	3.1495
5669	483496.41	3854106.98	6.34653	3.71837	4.85723	14.08085	5.088	9.141	5.1519	3.71837
5670	483577.56	3854261.96	7.1577	3.58559	4.7096	38.12174	5.506	15.18	7.2087	3.58559
5671	483656.83	3854319.19	7.30611	3.22204	5.66873	37.93505	5.673	14.53	7.1525	3.22204
5672	483736.1	3854376.41	7.49834	2.81655	10.30237	37.97717	5.797	13.83	7.3305	2.81655
5673	483815.36	3854433.64	7.72265	2.40874	8.2528	38.88859	5.902	13.17	7.6624	2.40874
5674	483894.63	3854490.87	7.9954	2.02222	7.43508	39.99299	5.975	12.63	8.1132	2.02222
5675	483973.9	3854548.09	8.31319	1.72811	9.40996	40.93969	6.02	12.38	8.7035	1.72811
5676	484053.17	3854605.32	8.59664	1.65701	9.29164	43.28426	6.099	12.46	9.5982	1.65701
5677	484214.97	3854698.15	9.02147	1.54821	7.88584	38.73052	6.236	11.64	10.436	1.54821
5678	484297.5	3854733.74	9.00747	1.62076	7.75168	39.88215	6.402	11.44	10.55	1.62076
5679	484380.03	3854769.34	9.18598	1.6696	7.64327	43.1699	6.469	11.05	10.346	1.6696
5680	484462.56	3854804.94	9.2525	1.72813	8.37673	46.88521	6.638	10.97	10.707	1.72813
5681	484545.09	3854840.53	9.41215	1.72965	7.90981	48.52403	6.719	10.94	10.889	1.72965
5682	484691.88	3854912.58	9.09031	1.76179	7.87835	52.20413	7.23	11.92	12.097	1.76179
5683	484830.81	3855012.51	8.75375	1.77536	7.70061	49.16967	7.916	13.11	12.195	1.77536
5684	484905.48	3855075.97	8.58425	1.78437	8.13766	49.35211	8.438	13.52	12.061	1.78437
5685	484980.14	3855139.44	8.49141	1.76843	7.24984	49.57396	8.92	13.73	12.086	1.76843
5686	485054.81	3855202.91	8.47123	1.74002	8.5247	49.84941	9.371	14.11	12.26	1.74002
5687	485129.48	3855266.37	8.5442	1.69673	8.49061	49.46064	9.77	14.09	12.174	1.69673
5688	485204.15	3855329.84	8.43944	1.67936	8.5382	50.26581	10.35	13.9	11.76	1.67936
5689	485278.82	3855393.31	8.42537	1.64801	9.25125	50.43147	10.88	13.63	11.342	1.64801
5690	485353.48	3855456.77	8.40567	1.62199	8.63104	49.91369	11.49	13.35	10.897	1.62199
5691	485428.15	3855520.24	8.43727	1.59807	9.16822	49.73257	12.12	13.03	10.396	1.59807
5692	485502.82	3855583.71	8.45816	1.57872	10.90111	51.40947	12.8	12.7	9.9607	1.57872
5693	485577.49	3855647.17	8.41936	1.56901	8.82941	48.67527	13.58	12.48	9.6478	1.56901
5694	485652.16	3855710.64	8.38279	1.55451	14.07427	51.03192	14.12	12.21	9.4389	1.55451
5695	485726.83	3855774.1	8.39864	1.53133	13.19858	50.02805	14.92	12.07	9.2008	1.53133
5696	485801.49	3855837.57	8.44087	1.50405	14.07953	50.86838	15.76	11.95	8.9681	1.50405

56.4424139	33.35370459	0.0002197	0.108611	1.256258	0.33217	125.0467	1.23E+02	9.37E+01
56.5478993	32.39965667	0.0002201	0.112164	1.274602	0.33321	121.3832	1.19E+02	9.28E+01
56.4068347	31.43661421	0.0002185	0.11577	1.292402	0.33349	117.7479	1.16E+02	9.16E+01
56.5222322	30.3165092	0.0002135	0.119924	1.311848	0.3331	113.4719	1.12E+02	9.05E+01
56.3927492	29.6392785	0.0002085	0.123525	1.328622	0.33324	111.1259	1.09E+02	8.98E+01
56.26264	29.1087491	0.0002034	0.126845	1.344152	0.33558	109.3799	1.07E+02	8.94E+01
56.2309214	28.38240864	0.0001984	0.129997	1.358384	0.33863	106.9877	1.04E+02	8.89E+01
56.1387912	27.50720597	0.0001964	0.132654	1.370491	0.34216	104.0356	1.01E+02	8.83E+01
56.3153306	27.40856167	0.0001948	0.13607	1.385375	0.34494	104.2317	1.01E+02	8.89E+01
56.4169555	26.65034327	0.0001997	0.13871	1.397314	0.34802	102.084	9.81E+01	8.89E+01
56.9823615	26.88385009	0.0002064	0.142743	1.413688	0.3528	103.6999	9.90E+01	9.05E+01
58.7285571	27.03267536	0.0002582	0.151038	1.453171	0.36769	104.1807	9.95E+01	9.24E+01
59.2916676	27.54704416	0.0002932	0.154424	1.47438	0.37566	107.8711	1.01E+02	9.53E+01
58.7879252	27.58052892	0.0003352	0.157767	1.495149	0.3846	109.4217	1.02E+02	9.63E+01
57.2961049	26.57689104	0.0003792	0.161803	1.518074	0.39523	102.5275	9.78E+01	9.06E+01
54.4173236	26.67983868	0.0004214	0.165292	1.538543	0.4052	93.55425	9.82E+01	7.85E+01
50.0847009	22.65071491	0.0004619	0.186223	1.57894	0.43866	81.75366	8.34E+01	7.33E+01
51.7895788	21.86440478	0.0004695	0.202921	1.610948	0.47069	74.74843	8.05E+01	7.02E+01
53.7881673	21.25706174	0.0004725	0.220278	1.639623	0.49958	75.75647	7.83E+01	7.49E+01
55.638492	20.78450734	0.0004728	0.239838	1.677324	0.52357	76.39613	7.65E+01	7.87E+01
57.4522984	18.17773797	0.0004902	0.262103	1.726584	0.57355	71.70527	6.69E+01	8.30E+01
59.5026384	16.52959691	0.0004971	0.293127	1.785513	0.65388	66.85669	6.09E+01	8.48E+01
61.6770359	14.71626682	0.0005134	0.335816	1.847856	0.77079	62.1581	5.42E+01	8.73E+01
64.5761631	13.34383482	0.0005531	0.404729	1.920041	0.92487	59.37454	4.91E+01	9.14E+01
68.1811347	12.24641005	0.0005735	0.519641	2.004259	1.20994	57.14053	4.51E+01	9.62E+01
70.2735228	10.00235842	0.0006964	0.762265	2.17624	1.64381	47.10305	3.68E+01	9.51E+01
68.109872	8.47205122	0.0004987	0.532683	2.164217	1.23285	36.52886	3.12E+01	8.58E+01
63.2007836	6.386410405	0.0003667	0.424982	2.164479	0.96403	28.88333	2.35E+01	7.85E+01
62.1412343	5.816892405	0.000447	0.467365	2.263867	0.97438	29.50217	2.14E+01	7.98E+01
66.2182297	6.867553012	0.0005057	0.741696	2.38565	1.28587	36.50293	2.53E+01	8.87E+01
74.6817903	6.622318221	0.0004903	2.008027	2.581907	2.13496	51.07638	2.44E+01	1.15E+02
76.230266	5.950868393	0.0005901	1.998194	2.660296	2.04337	50.67776	2.19E+01	1.18E+02
78.2359494	5.201958502	0.0010725	2.000412	2.718348	1.94532	51.9391	1.92E+01	1.23E+02
80.5763482	4.448763744	0.0008592	2.048421	2.767584	1.85256	54.2908	1.64E+01	1.30E+02
83.4221588	3.734890033	0.000774	2.106594	2.801666	1.77634	57.48516	1.38E+01	1.38E+02
86.7379063	3.191690723	0.0009796	2.15646	2.822814	1.74198	61.66715	1.18E+01	1.47E+02
89.6953582	3.060374308	0.0009673	2.279958	2.860074	1.75256	68.00643	1.13E+01	1.56E+02
94.1279364	2.859428795	0.000821	2.040094	2.924311	1.63728	73.94474	1.05E+01	1.67E+02
93.9818637	2.993423253	0.000807	2.100755	3.001993	1.60946	74.74772	1.10E+01	1.67E+02
95.8443958	3.083627102	0.0007957	2.273935	3.033279	1.555	73.30755	1.14E+01	1.68E+02
96.5384501	3.191727662	0.0008721	2.469635	3.112854	1.54361	75.86027	1.18E+01	1.71E+02
98.2042014	3.194534989	0.0008235	2.555958	3.150462	1.53877	77.15448	1.18E+01	1.74E+02
94.8461971	3.25389518	0.0008202	2.749804	3.390403	1.67737	85.71289	1.20E+01	1.80E+02
91.3346077	3.278957961	0.0008017	2.589967	3.712016	1.84466	86.40293	1.21E+01	1.77E+02
89.5660838	3.295598762	0.0008472	2.599577	3.956942	1.90181	85.45965	1.21E+01	1.75E+02
88.5974127	3.266158767	0.0007548	2.611262	4.182909	1.93201	85.63069	1.20E+01	1.74E+02
88.3868592	3.213687608	0.0008875	2.625772	4.394364	1.98452	86.86829	1.18E+01	1.76E+02
89.1482114	3.133734196	0.0008839	2.605293	4.58112	1.98207	86.25662	1.15E+01	1.76E+02
88.0551697	3.101653097	0.0008889	2.647705	4.851508	1.95494	83.32441	1.14E+01	1.73E+02
87.9083666	3.043751977	0.0009631	2.656431	5.09951	1.91799	80.35989	1.12E+01	1.70E+02
87.7028213	2.995694971	0.0008985	2.629157	5.389058	1.87833	77.21251	1.10E+01	1.67E+02
88.0325284	2.951516509	0.0009545	2.619617	5.684407	1.83291	73.65672	1.09E+01	1.64E+02
88.2504899	2.915778497	0.0011349	2.707946	6.003962	1.78605	70.5753	1.07E+01	1.62E+02
87.8456596	2.897844849	0.0009192	2.563925	6.366141	1.75497	68.35821	1.07E+01	1.59E+02
87.4640967	2.871064427	0.0014652	2.688059	6.620459	1.71787	66.87822	1.06E+01	1.58E+02
87.6294719	2.82825269	0.0013741	2.635181	6.99475	1.69846	65.19127	1.04E+01	1.57E+02
88.07009	2.777868557	0.0014658	2.679445	7.388835	1.68117	63.54194	1.02E+01	1.56E+02

5697	485876.16	3855901.04	8.46801	1.48106	12.98972	49.5171	16.68	11.78	8.7026	1.48106
5698	485950.83	3855964.5	8.50244	1.4563	11.9216	50.6033	17.65	11.57	8.5044	1.4563
5699	486025.5	3856027.97	8.55106	1.42829	10.75649	49.69467	19.07	11.34	8.2571	1.42829
5700	486100.17	3856091.44	8.4569	1.44702	11.47277	49.37612	19.9	11.01	8.0498	1.44702
5701	486174.83	3856154.9	8.52294	1.39853	10.25627	47.73787	21.22	10.91	7.8745	1.39853
5702	486249.5	3856218.37	8.70375	1.35394	8.66315	48.56033	22.86	10.89	7.5968	1.35394
5703	486324.17	3856281.84	8.87575	1.32367	6.96767	48.30693	24.19	10.87	7.3496	1.32367
5704	486398.84	3856345.3	8.85917	1.31965	7.18297	49.3837	26.65	10.98	7.1811	1.31965
5705	486473.51	3856408.77	8.88882	1.30813	7.63059	47.40395	29.66	10.88	6.979	1.30813
5706	486548.17	3856472.24	8.86018	1.30509	7.97146	48.99683	33.58	10.69	6.8521	1.30509
5707	486622.84	3856535.7	8.86587	1.30691	7.54716	51.83494	38.32	10.44	6.7393	1.30691
5708	486765.48	3856659.69	8.87154	1.34834	7.18854	43.6847	52.77	10.28	6.2586	1.34834
5709	486833.44	3856720.2	8.90942	1.36447	6.87288	44.4185	62.79	10.32	6.1182	1.36447
5710	486901.41	3856780.72	8.93909	1.40902	6.83002	42.46309	75.11	10.36	6.0251	1.40902
5711	486969.38	3856841.24	8.97447	1.45111	6.66335	40.73394	89.14	10.42	5.9003	1.45111
5712	487037.34	3856901.75	9.01106	1.49481	7.69193	39.48164	103.7	10.49	5.7636	1.49481
5713	487271.23	3856855.51	7.10687	1.44274	6.53151	10.3282	92.56	5.423	4.1533	1.44274
5714	487368.95	3856857.29	6.68307	1.42904	5.86839	8.65642	88.41	4.89	3.8269	1.42904
5715	487466.68	3856859.06	6.31587	1.42205	5.78009	7.56625	91.6	4.501	3.5111	1.42205
5716	487636.44	3856930	6.09266	1.44951	5.50207	6.83922	92.43	4.331	3.2451	1.44951
5717	487709.57	3856928.43	5.89738	1.43775	5.4936	6.43241	91.09	4.141	3.082	1.43775
5718	487782.55	3856841.96	5.49858	1.38285	5.59783	5.66474	86.3	3.667	2.7899	1.38285
5719	487849.83	3856754.74	5.19732	1.41544	5.82183	5.01021	81.4	3.154	2.5395	1.41544
5720	487918.03	3856819.39	5.16925	1.42034	5.56865	5.0953	94.94	3.313	2.5309	1.42034
5721	487918.8	3856886.37	5.32408	1.41715	5.45894	5.45888	98.85	3.518	2.6244	1.41715
5722	488065.46	3857127.5	5.08415	1.51132	6.69573	5.85168	103.2	3.913	2.7685	1.51132
5723	488192.19	3857385.83	5.45666	1.74644	8.46212	6.3291	106.6	6.463	2.9682	1.74644
5724	488191.21	3857473.87	5.85725	1.85095	9.54898	6.93547	107	6.554	3.1031	1.85095
5725	488190.24	3857561.9	6.24536	1.94722	13.4686	7.72414	104.4	6.22	3.2444	1.94722
5726	488158.35	3857691.13	6.89507	2.13532	14.34688	10.31223	101	10.3	3.5814	2.13532
5727	488208.37	3857816.66	7.58463	2.38194	19.38939	13.58166	86.6	12.89	3.8291	2.38194
5728	488271.97	3857874.6	7.62069	2.46987	19.53442	13.6525	75.72	11.3	3.8245	2.46987
5729	488463.56	3857942.31	6.93956	2.45339	15.78252	10.33565	61.77	9.324	3.4519	2.45339
5730	488554.83	3857940.83	6.56598	2.36302	14.95737	8.95503	55.33	8.571	3.236	2.36302
5731	488646.1	3857939.36	6.24748	2.27431	14.19779	7.96682	53.79	7.968	3.0797	2.27431
5732	488737.37	3857937.88	6.01114	2.19012	13.46248	7.53023	53.42	7.511	2.9367	2.19012
5733	488733.59	3857960.57	6.1274	2.25202	13.23743	7.71811	52.37	7.594	2.9761	2.25202
5734	488638.09	3857961.57	6.37765	2.33985	14.22389	8.3206	51.85	8.136	3.1387	2.33985
5735	488542.6	3857962.56	6.71932	2.43252	15.2673	9.46457	54.41	8.795	3.3119	2.43252
5736	488447.1	3857963.56	7.14063	2.52625	16.33173	11.20126	60.95	9.706	3.5637	2.52625
5737	488254.28	3857890.36	7.84795	2.53035	19.60725	15.35493	77.72	11.56	3.9759	2.53035
5738	488191.69	3857833.06	7.86703	2.43351	19.71552	15.37805	87.23	13.41	3.9779	2.43351
5739	488129.5	3857907.43	9.07321	2.6999	22.26704	41.69545	84.39	16.83	4.9424	2.6999
5740	488196.47	3857968.73	9.07806	2.81228	19.67153	42.36788	76.77	17.15	4.9354	2.81228
5741	488263.44	3858030.04	9.09283	2.90897	18.83058	42.63091	69.59	17.26	4.8906	2.90897
5742	488400.64	3858132.9	8.96524	3.11612	15.65125	29.85891	59.42	15.05	4.6172	3.11612
5743	488519.89	3858218.38	8.87812	3.47164	13.45746	23.88409	53.48	13.54	4.5907	3.47164
5744	488647.97	3858214.99	7.86783	3.15763	12.26055	13.78568	44.41	10.54	3.9199	3.15763
5745	488727.05	3858167.67	7.19229	2.87322	12.38562	10.97876	36.22	9.143	3.4699	2.87322
5746	488806.12	3858120.35	6.65866	2.61612	12.60862	9.46972	40.22	8.103	3.1498	2.61612
5747	488885.2	3858073.03	6.30289	2.40425	12.47747	8.38854	44.94	7.364	2.9049	2.40425
5748	489055.76	3857991.17	5.97943	2.07488	10.43484	8.55003	48.11	6.278	2.5455	2.07488
5749	489245.39	3857944.54	5.86894	1.90074	10.12272	7.15231	39.93	5.498	2.2996	1.90074
5750	489430.63	3857930.91	5.42653	1.87124	9.29157	5.81947	35.14	4.989	2.2065	1.87124
5751	489517.74	3857929.36	5.15122	1.81393	9.03307	6.16649	33.99	4.794	2.1306	1.81393
5752	489604.85	3857927.82	5.07665	1.70323	8.61527	8.93895	33.98	4.626	2.0324	1.70323
5753	489691.97	3857926.28	5.05452	1.58661	8.92947	8.09831	34.26	4.481	1.9261	1.58661

88.3532625	2.735407736	0.0013523	2.608267	7.820615	1.65706	61.66113	1.01E+01	1.55E+02
88.7124972	2.689677856	0.0012411	2.665482	8.278365	1.62787	60.25703	9.90E+00	1.54E+02
89.219787	2.637945468	0.0011198	2.617621	8.940165	1.59497	58.50467	9.71E+00	1.54E+02
88.2373433	2.672538386	0.0011944	2.600841	9.332092	1.54837	57.03581	9.84E+00	1.52E+02
88.9263894	2.58298096	0.0010677	2.514548	9.948186	1.53428	55.79367	9.51E+00	1.52E+02
90.8129193	2.500626545	0.0009019	2.55787	10.71886	1.53202	53.82628	9.21E+00	1.53E+02
92.6075276	2.444720105	0.0007254	2.544523	11.34298	1.52913	52.07478	9.00E+00	1.54E+02
92.4345357	2.437295463	0.0007478	2.601241	12.49903	1.54481	50.88068	8.97E+00	1.53E+02
92.7438969	2.41601888	0.0007944	2.496959	13.9081	1.53039	49.4488	8.90E+00	1.54E+02
92.4450738	2.410404226	0.0008299	2.580863	15.74421	1.50342	48.54967	8.87E+00	1.54E+02
92.5044419	2.41376563	0.0007857	2.730358	17.96925	1.46802	47.75002	8.89E+00	1.56E+02
92.5636014	2.490283761	0.0007484	2.301051	24.7457	1.44567	44.34472	9.17E+00	1.59E+02
92.9588326	2.520074672	0.0007155	2.339703	29.44441	1.45152	43.34937	9.28E+00	1.63E+02
93.2684025	2.602355211	0.000711	2.236704	35.21887	1.45677	42.68994	9.58E+00	1.68E+02
93.6375493	2.680092312	0.0006937	2.145623	41.7987	1.46578	41.80583	9.87E+00	1.74E+02
94.0193209	2.760802964	0.0008008	2.079659	48.64597	1.47549	40.8374	1.02E+01	1.80E+02
74.1514418	2.664633544	0.00068	0.544028	43.40223	0.76282	29.42763	9.81E+00	1.41E+02
69.7296104	2.639330663	0.0006109	0.455969	41.45743	0.68789	27.1149	9.72E+00	1.32E+02
65.8983303	2.626420652	0.0006017	0.398545	42.95295	0.63318	24.87734	9.67E+00	1.28E+02
63.5694087	2.677137231	0.0005728	0.36025	43.3429	0.60925	22.99235	9.86E+00	1.24E+02
61.5319022	2.655417385	0.0005719	0.338821	42.71209	0.5825	21.83687	9.78E+00	1.20E+02
57.370915	2.554021166	0.0005828	0.298385	40.46674	0.5159	19.76724	9.40E+00	1.12E+02
54.2276377	2.614212474	0.0006061	0.263908	38.16856	0.44367	17.99306	9.62E+00	1.04E+02
53.9347618	2.623262409	0.0005797	0.26839	44.51694	0.4661	17.93206	9.66E+00	1.10E+02
55.5502223	2.617370716	0.0005683	0.287541	46.35444	0.49487	18.59468	9.64E+00	1.14E+02
53.046848	2.791295707	0.0006971	0.308232	48.37044	0.55051	19.61568	1.03E+01	1.14E+02
56.9335314	3.225544871	0.000881	0.333379	50.00101	0.90913	21.03091	1.19E+01	1.21E+02
61.113195	3.418567073	0.0009941	0.365319	50.16838	0.92203	21.98651	1.26E+01	1.25E+02
65.1626452	3.596370608	0.0014022	0.406862	48.93522	0.87499	22.9876	1.32E+01	1.29E+02
71.9415695	3.943777326	0.0014936	0.543187	47.38367	1.44868	25.3753	1.45E+01	1.36E+02
79.1362794	4.399266136	0.0020186	0.715401	40.60847	1.81316	27.1307	1.62E+01	1.38E+02
79.5125211	4.56166631	0.0020337	0.719133	35.50647	1.59005	27.0981	1.68E+01	1.32E+02
72.4057679	4.531228975	0.0016431	0.544421	28.96476	1.3117	24.45803	1.67E+01	1.16E+02
68.5079203	4.364322302	0.0015572	0.471698	25.9454	1.20578	22.92851	1.61E+01	1.07E+02
65.1847648	4.200481526	0.0014781	0.419645	25.22412	1.12091	21.82086	1.55E+01	1.03E+02
62.7188478	4.044988853	0.0014015	0.396648	25.04837	1.05659	20.8073	1.49E+01	9.92E+01
63.9318778	4.159313552	0.0013781	0.406544	24.55501	1.06826	21.08646	1.53E+01	9.99E+01
66.5429286	4.321529034	0.0014808	0.43828	24.31178	1.1445	22.23896	1.59E+01	1.03E+02
70.1078345	4.492683636	0.0015894	0.498537	25.51297	1.23725	23.46572	1.65E+01	1.09E+02
74.5036858	4.66579598	0.0017002	0.590016	28.57875	1.36545	25.24989	1.72E+01	1.18E+02
81.8836995	4.673368375	0.0020412	0.808807	36.44578	1.62635	28.17033	1.72E+01	1.36E+02
82.0827758	4.494512093	0.0020525	0.810025	40.90331	1.88695	28.18514	1.65E+01	1.42E+02
94.6677797	4.986514623	0.0023181	2.196269	39.57338	2.36749	35.01833	1.84E+01	1.60E+02
94.7183834	5.19407213	0.0020479	2.231689	35.99979	2.41242	34.96895	1.91E+01	1.56E+02
94.8724902	5.372651373	0.0019604	2.245544	32.63394	2.42765	34.65195	1.98E+01	1.52E+02
93.5412456	5.755242026	0.0016294	1.57279	27.86091	2.11654	32.71439	2.12E+01	1.42E+02
92.6322556	6.411861041	0.001401	1.258072	25.07562	1.90449	32.52648	2.36E+01	1.36E+02
82.0911229	5.83190791	0.0012764	0.726148	20.82494	1.4833	27.77362	2.15E+01	1.17E+02
75.0426944	5.30662378	0.0012894	0.578296	16.98415	1.28621	24.58521	1.95E+01	1.04E+02
69.4749221	4.83177919	0.0013126	0.498809	18.86136	1.13984	22.31719	1.78E+01	9.93E+01
65.7629	4.440471048	0.001299	0.441859	21.07296	1.03595	20.58198	1.63E+01	9.70E+01
62.387993	3.832149139	0.0010863	0.450365	22.56117	0.88311	18.03564	1.41E+01	9.40E+01
61.2351658	3.510525502	0.0010538	0.376741	18.7261	0.77344	16.29321	1.29E+01	8.80E+01
56.6191619	3.456041195	0.0009673	0.306535	16.47613	0.70186	15.63406	1.27E+01	8.05E+01
53.7466409	3.350193885	0.0009404	0.324814	15.93639	0.67445	15.09607	1.23E+01	7.68E+01
52.9685948	3.145739213	0.0008969	0.470851	15.93588	0.65082	14.40036	1.16E+01	7.60E+01
52.7376954	2.930350741	0.0009296	0.426571	16.06608	0.63041	13.64718	1.08E+01	7.57E+01

5754	489779.08	3857924.73	5.04167	1.49628	7.83822	6.23388	34.62	4.332	1.8207	1.49628
5755	490017.55	3857875.08	4.5199	1.33785	6.26601	7.64867	37.74	3.861	1.6705	1.33785
5756	490033.82	3857960.81	5.33505	1.42147	6.16619	7.93978	33.7	4.081	1.7263	1.42147
5757	489959.15	3857987.49	5.56642	1.49845	6.73283	8.71478	31.52	4.269	1.7891	1.49845
5758	489791.49	3858016.12	5.78168	1.61805	8.10323	10.16394	30.47	4.483	1.9242	1.61805
5759	489698.51	3858018.07	5.83664	1.75013	9.50823	7.76887	30.52	4.647	2.0406	1.75013
5760	489605.52	3858020.01	5.86448	1.87788	9.37964	10.33399	31.69	4.815	2.1466	1.87788
5761	489512.53	3858021.96	5.8575	1.95616	10.03146	7.99825	32.89	5.002	2.2285	1.95616
5762	489419.55	3858023.91	5.81586	1.97088	9.8626	6.44963	35.84	5.229	2.2774	1.97088
5763	489228.47	3858041.29	5.84787	2.00042	10.29779	8.40725	44.35	5.721	2.3922	2.00042
5764	489065.75	3858085.78	6.1506	2.25819	11.25476	9.48942	45.3	6.623	2.6439	2.25819
5765	489001.12	3858114.86	6.35812	2.38018	11.43477	9.20441	43.31	7.073	2.7875	2.38018
5766	488861.89	3858189.81	6.99391	2.70977	11.3525	11.00991	35.54	8.404	3.1537	2.70977
5767	488787.29	3858235.69	7.52663	3.00128	10.9715	11.63609	32.6	9.424	3.5157	3.00128
5768	488712.68	3858281.57	8.32525	3.29113	13.08546	14.42966	40.93	10.8	3.9555	3.29113
5769	488654.39	3858436.17	9.43659	4.63224	12.12906	34.48696	41.75	20.08	5.5807	4.63224
5770	488726.3	3858505.26	9.08184	4.90177	12.44176	33.2768	40.01	18.63	5.7186	4.90177
5771	488880.6	3858599.28	9.04541	5.02116	11.6183	44.62867	37.09	18.13	5.356	5.02116
5772	489008.06	3858714.75	8.57705	5.4257	11.76199	44.32085	32.44	17.62	5.5148	5.4257
5773	489071.48	3858772.72	8.2206	5.66907	12.48773	43.57802	30.34	17.38	5.6577	5.66907
5774	489244.59	3858920.19	7.71657	6.33739	13.09202	48.09784	24.91	16.12	6.1692	6.33739
5775	489239.69	3858952.23	7.83391	6.87759	15.15172	46.15482	25.21	25.09	6.7207	6.87759
5776	489121.67	3858854.49	8.02539	6.32507	14.50209	46.9765	28.45	23.53	6.3761	6.32507
5777	489059.59	3858797.27	8.25827	6.00531	13.88159	45.37152	29.99	23.66	6.1014	6.00531
5778	488997.52	3858740.04	8.60251	5.734	13.08047	44.61081	31.83	23.1	5.8893	5.734
5779	488935.44	3858682.82	9.01424	5.49215	12.3636	44.34433	33.5	22.54	5.7993	5.49215
5780	488869.17	3858848.43	9.166	9.87244	12.51108	16.40922	34.83	7.846	13.009	9.87244
5781	488932.48	3858892.69	9.08421	10.45056	12.99308	17.43992	33.38	7.724	13.13	10.45056
5782	489063.27	3858977.17	9.01995	11.35221	14.288	19.38458	31.23	7.744	12.751	11.35221
5783	489248.2	3859117.15	8.57262	15.91648	18.35726	21.57596	27.35	7.871	16.705	15.91648
5784	489296.25	3859049.22	7.88874	8.45857	17.08543	24.04693	25.17	11.46	8.0536	8.45857
5785	489353.38	3858993.96	7.58812	6.60359	11.05424	41.26734	21.42	17.64	6.2845	6.60359
5786	489537.24	3859120.22	7.62871	7.12895	10.54112	44.10098	17.41	18.36	6.6328	7.12895
5787	489726.98	3859246.04	7.71283	7.7171	25.41744	46.48644	14.46	18.4	7.2947	7.7171
5788	489911.46	3859366.33	7.59633	8.28366	56.64749	46.2807	12.76	18.08	8.0213	8.28366
5789	490035.3	3859430.26	7.55685	8.40962	44.50808	38.33903	11.78	17.28	8.2295	8.40962
5790	490101.11	3859458.61	7.45034	8.32004	34.83494	35.27605	11.31	17.38	8.1818	8.32004
5791	490312.68	3859560.3	6.97845	8.41953	24.85302	36.4718	10.36	16.99	8.3753	8.41953
5792	490401.63	3859603.12	6.98009	8.7494	21.14682	36.8427	10.22	16.4	8.7944	8.7494
5793	490490.57	3859645.94	6.97248	9.16442	19.46556	37.16865	10.01	16.45	9.2754	9.16442
5794	490579.51	3859688.76	6.91475	9.51492	18.50864	37.46361	9.769	16.43	9.6395	9.51492
5795	490668.45	3859731.58	6.87137	9.36638	16.56237	37.21714	9.51	16.14	9.5888	9.36638
5796	490757.4	3859774.4	6.76546	9.68319	15.48102	38.20469	9.129	16.37	9.9059	9.68319
5797	491003.53	3859861.82	6.04354	9.16821	13.10001	33.00189	8.93	13.93	9.3785	9.16821
5798	491081.41	3859879.05	5.79622	8.52523	12.61431	34.21912	9.216	13.47	8.7222	8.52523
5799	491229.76	3859917.82	5.554	7.85444	11.59577	39.50386	9.529	14.86	8.0067	7.85444
5800	491300.22	3859939.35	5.51001	7.68528	10.85984	40.51798	9.558	15.27	7.7975	7.68528
5801	491350.48	3860012.03	6.36624	9.6063	10.38069	25.95822	8.803	21.43	9.5915	9.6063
5802	491406.82	3860092.56	6.54082	10.21934	10.54615	17.42723	8.103	12.07	9.9396	10.21934
5803	491483.36	3860121.96	6.25046	9.32995	10.22307	16.83692	8.171	11.72	9.0712	9.32995
5804	491559.91	3860151.35	6.03001	8.54494	9.86003	16.18016	8.206	11.37	8.2571	8.54494
5805	491711.81	3860237.76	6.29044	7.44326	10.28149	14.94856	8.43	10.08	7.0172	7.44326
5806	491755.2	3860319.07	6.93013	8.26497	8.86149	11.44116	7.306	7.669	7.9654	8.26497
5807	491704.71	3860366.54	7.23145	11.0274	9.51954	10.52063	6.653	7.232	10.756	11.0274
5808	491623.42	3860462.39	5.95071	13.32983	10.87108	7.8444	6.15	5.768	12.472	13.32983
5809	491534.02	3860439.84	5.40572	8.39479	13.21486	8.18782	6.807	6.333	8.0215	8.39479
5810	491313.95	3860268.17	5.70274	10.24944	11.88581	9.27308	6.927	6.206	9.3935	10.24944

52.6036215	2.763517945	0.000816	0.328364	16.23166	0.60936	12.90053	1.02E+01	7.53E+01
47.1595937	2.470909511	0.0006523	0.402887	17.69664	0.5432	11.83602	9.10E+00	7.10E+01
55.6646807	2.625349435	0.0006419	0.418221	15.80169	0.57407	12.23146	9.67E+00	7.77E+01
58.0787419	2.767525774	0.0007009	0.459043	14.77834	0.60061	12.67642	1.02E+01	7.92E+01
60.3247151	2.988418084	0.0008436	0.535376	14.28706	0.6307	13.63358	1.10E+01	8.14E+01
60.8981551	3.232360027	0.0009899	0.409218	14.31187	0.65367	14.45803	1.19E+01	8.21E+01
61.1886312	3.468304781	0.0009765	0.544333	14.85855	0.67735	15.20951	1.28E+01	8.32E+01
61.1158035	3.612882123	0.0010443	0.4213	15.42473	0.70367	15.78951	1.33E+01	8.38E+01
60.6813413	3.640068869	0.0010268	0.339728	16.80809	0.73557	16.13641	1.34E+01	8.49E+01
61.0153263	3.694627053	0.0010721	0.442844	20.79706	0.80487	16.94988	1.36E+01	9.01E+01
64.1739413	4.170709084	0.0011717	0.499846	21.24033	0.93169	18.73327	1.54E+01	9.44E+01
66.3391571	4.396015547	0.0011904	0.484834	20.31006	0.99495	19.75037	1.62E+01	9.61E+01
72.9728432	5.004743779	0.0011819	0.579937	16.66337	1.18217	22.34524	1.84E+01	1.00E+02
78.5311208	5.543141082	0.0011422	0.61292	15.2845	1.3258	24.90993	2.04E+01	1.06E+02
86.8637376	6.078472488	0.0013623	0.760069	19.19351	1.51865	28.02607	2.24E+01	1.20E+02
98.4592027	8.555402976	0.0012627	1.816569	19.57584	2.82523	39.54127	3.15E+01	1.39E+02
94.7578231	9.053204852	0.0012953	1.752825	18.75947	2.62085	40.51834	3.33E+01	1.34E+02
94.3777209	9.273709308	0.0012095	2.350774	17.39105	2.55097	37.94898	3.41E+01	1.30E+02
89.4909607	10.02086462	0.0012245	2.33456	15.21277	2.47848	39.07442	3.69E+01	1.22E+02
85.7718436	10.47035092	0.0013	2.295432	14.22485	2.44541	40.08713	3.85E+01	1.17E+02
80.5129109	11.70468829	0.001363	2.533509	11.67943	2.26758	43.7108	4.31E+01	1.09E+02
81.7372094	12.70239753	0.0015774	2.431162	11.82094	3.52958	47.6183	4.68E+01	1.13E+02
83.7350675	11.68193416	0.0015098	2.474444	13.3393	3.3106	45.17718	4.30E+01	1.17E+02
86.1648837	11.09136121	0.0014452	2.389903	14.06522	3.32846	43.23048	4.08E+01	1.19E+02
89.7566045	10.5902718	0.0013618	2.349833	14.92519	3.24922	41.72774	3.90E+01	1.24E+02
94.0525003	10.14359283	0.0012871	2.335797	15.71107	3.17124	41.08999	3.73E+01	1.29E+02
95.6359291	18.23366288	0.0013025	0.86434	16.33187	1.1037	92.17204	6.71E+01	1.57E+02
94.7825511	19.30140755	0.0013527	0.918632	15.65362	1.08651	93.02831	7.11E+01	1.54E+02
94.1120771	20.96668809	0.0014875	1.021065	14.64402	1.08939	90.34515	7.72E+01	1.45E+02
89.4447391	29.39655552	0.0019111	1.136494	12.82398	1.10729	118.3606	1.08E+02	1.44E+02
82.309293	15.62235008	0.0017787	1.26665	11.80286	1.61157	57.06273	5.75E+01	1.12E+02
79.1726933	12.1963399	0.0011508	2.173719	10.04504	2.48221	44.52774	4.49E+01	1.06E+02
79.5961999	13.16664077	0.0010974	2.322978	8.162059	2.58234	46.99564	4.85E+01	1.04E+02
80.4738886	14.25291011	0.0026461	2.44863	6.780909	2.58829	51.68586	5.25E+01	1.06E+02
79.2583545	15.29930431	0.0058973	2.437793	5.9852	2.54386	56.83388	5.63E+01	1.06E+02
78.8464293	15.53194307	0.0046336	2.019473	5.525772	2.4305	58.30862	5.72E+01	1.05E+02
77.7351285	15.36649547	0.0036265	1.858133	5.301802	2.44539	57.97093	5.66E+01	1.04E+02
72.8115371	15.55024611	0.0025874	1.921118	4.856498	2.38982	59.34231	5.73E+01	9.96E+01
72.8286485	16.15949148	0.0022015	1.940655	4.791041	2.30725	62.31157	5.95E+01	1.01E+02
72.7492475	16.92600257	0.0020265	1.957824	4.695564	2.31436	65.71941	6.23E+01	1.02E+02
72.146906	17.57335002	0.0019269	1.973361	4.580811	2.31164	68.29955	6.47E+01	1.02E+02
71.6942891	17.29900768	0.0017242	1.960378	4.459234	2.2711	67.9399	6.37E+01	1.02E+02
70.5892486	17.8841322	0.0016117	2.012397	4.280843	2.30345	70.18673	6.58E+01	1.01E+02
63.0569019	16.93300242	0.0013638	1.738344	4.187303	1.95894	66.4502	6.23E+01	9.20E+01
60.4764221	15.74546615	0.0013132	1.80246	4.32148	1.89506	61.8	5.80E+01	8.81E+01
57.9491545	14.50656688	0.0012072	2.080829	4.468218	2.09043	56.73029	5.34E+01	8.44E+01
57.490173	14.19414093	0.0011306	2.134247	4.481934	2.14866	55.24824	5.23E+01	8.34E+01
66.4238793	17.74212209	0.0010807	1.367325	4.127849	3.0145	67.9591	6.53E+01	9.53E+01
68.2454067	18.8743614	0.0010979	0.917963	3.799769	1.69861	70.42537	6.95E+01	9.45E+01
65.2158575	17.23172418	0.0010643	0.886869	3.831689	1.6486	64.2728	6.34E+01	8.96E+01
62.915733	15.78186905	0.0010265	0.852275	3.848077	1.59914	58.5046	5.81E+01	8.54E+01
65.6329996	13.74714798	0.0010704	0.787402	3.953106	1.41767	49.71932	5.06E+01	8.46E+01
72.3073774	15.26478527	0.0009225	0.602653	3.425694	1.07887	56.4378	5.62E+01	9.29E+01
75.4512808	20.36678816	0.000991	0.554164	3.119738	1.01738	76.21305	7.50E+01	1.02E+02
62.0883351	24.61920523	0.0011317	0.413197	2.88398	0.81138	88.36692	9.06E+01	8.85E+01
56.4020352	15.50455316	0.0013757	0.431286	3.191811	0.89084	56.83543	5.71E+01	7.62E+01
59.5010734	18.92995386	0.0012374	0.488451	3.248105	0.87297	66.55634	6.97E+01	7.99E+01

5811	491187.12	3860143.56	6.22117	13.12007	12.09718	12.31742	7.348	8.072	12.673	13.12007
5812	491070.43	3860075.97	6.51332	13.19273	12.69309	13.62162	7.79	9.248	12.602	13.19273
5813	490995.09	3860039.38	6.50435	13.01736	13.17908	13.86607	8.039	9.639	12.319	13.01736
5814	490919.75	3860002.8	6.47982	13.32675	13.75065	14.08868	8.271	10.02	12.351	13.32675
5815	490756.81	3859894.53	7.36756	21.43355	14.85578	18.45822	8.872	13.61	19.516	21.43355
5816	490668.07	3859860.92	7.4255	20.64411	14.97312	17.91937	8.925	12.98	18.849	20.64411
5817	490579.34	3859827.3	7.49227	20.65055	15.4385	17.55953	8.928	12.44	18.901	20.65055
5818	490490.6	3859793.68	7.52294	19.86668	15.70737	16.13696	9.033	11.61	18.179	19.86668
5819	490401.86	3859760.07	7.55048	19.34856	17.06591	15.20433	9.453	10.71	17.762	19.34856
5820	490313.12	3859726.45	7.5731	19.40546	18.95953	14.52172	9.856	10.14	17.951	19.40546
5821	490224.39	3859692.83	7.54118	19.82538	22.18927	14.22781	10.22	9.814	18.256	19.82538
5822	490135.65	3859659.22	7.43727	20.15598	24.97482	13.95545	10.99	9.522	18.297	20.15598
5823	489918.18	3859559.23	7.42393	18.0541	38.09218	13.32016	13.99	8.525	16.553	18.0541
5824	489743.61	3859486	7.11836	13.88323	44.06696	12.94041	17.1	7.54	12.654	13.88323
5825	489660.32	3859440.27	7.14141	13.76087	52.21301	13.12875	18.49	7.41	12.173	13.76087
5826	489577.04	3859394.53	7.18293	13.76942	35.14895	13.13189	20.36	7.379	11.988	13.76942
5827	489493.75	3859348.8	7.22728	13.68233	25.10823	12.83516	22.16	7.227	11.827	13.68233
5828	489321.28	3859240.02	7.79368	15.68327	19.6709	14.06203	25.63	7.078	12.685	15.68327
5829	489235.41	3859193.96	7.96928	15.66946	17.68288	23.07171	27.18	6.956	12.692	15.66946
5830	489149.54	3859147.89	8.12889	15.18028	15.79539	20.16989	28.14	6.837	11.802	15.18028
5831	489063.68	3859101.82	8.32396	15.11341	15.08492	15.69635	29.53	6.804	11.288	15.11341
5832	488977.81	3859055.75	8.60502	15.03855	14.44077	14.9795	30.68	6.983	10.661	15.03855
5833	488891.94	3859009.69	9.03203	14.66575	13.68177	14.27335	30.94	7.319	9.914	14.66575
5834	488808	3859060.73	9.34857	7.91221	11.75398	12.45728	28.08	7.536	6.9696	7.91221
5835	488809.93	3859157.85	9.34355	5.65429	9.91255	11.41	25.95	8.185	5.4602	5.65429
5836	488811.85	3859254.96	9.29592	4.55553	9.02171	10.51416	23.48	9.006	4.5375	4.55553
5837	488813.78	3859352.07	9.23938	4.11078	7.1894	9.86715	21.18	11.32	4.0963	4.11078
5838	488815.71	3859449.19	9.16144	3.76208	8.70432	9.46249	18.95	11.06	3.7624	3.76208
5839	488910.04	3859547.1	8.35535	3.62135	16.59672	9.76856	18.84	9.485	3.6617	3.62135
5840	489002.45	3859547.91	7.63624	3.82335	17.97249	11.1735	20.88	9.489	3.9911	3.82335
5841	489094.85	3859548.71	7.05674	4.06275	18.58743	14.32695	21.91	9.073	4.3786	4.06275
5842	489230.05	3859601.87	7.18693	4.12229	23.95214	22.58949	21.24	8.191	4.5531	4.12229
5843	489227.52	3859680.89	7.7371	3.57759	15.57736	23.43146	20.4	7.959	3.8395	3.57759
5844	489133.47	3859760.29	8.36259	3.06439	10.00346	17.07408	19.17	7.001	3.0872	3.06439
5845	489041.96	3859760.67	8.5677	2.98704	12.25025	11.90533	17.31	6.597	2.8994	2.98704
5846	488950.45	3859761.05	8.71433	2.89348	13.34673	9.82515	15.34	6.12	2.7344	2.89348
5847	488858.94	3859761.43	8.86142	2.77963	14.18581	8.59556	13.37	5.971	2.5925	2.77963
5848	488767.43	3859761.82	8.88106	2.63195	13.3101	7.85083	11.55	6.514	2.4646	2.63195
5849	488675.92	3859762.2	8.87685	2.50424	11.90225	7.34721	10.11	7.299	2.3465	2.50424
5850	488584.41	3859762.58	8.8557	2.37764	10.45321	6.89992	9.368	8.324	2.2249	2.37764
5851	488492.9	3859762.96	8.90142	2.29067	9.31727	6.61524	8.867	9.818	2.1049	2.29067
5852	488402.76	3859830.95	9.07173	2.40775	9.01634	6.23619	8.436	13.85	2.1561	2.40775
5853	488404.14	3859898.55	9.15166	2.53658	9.29298	6.03891	8.11	13.44	2.3423	2.53658
5854	488505.18	3859964.96	8.16042	2.62717	8.67546	6.23048	7.985	8.919	2.5342	2.62717
5855	488604.84	3859963.76	7.72499	2.49966	7.45814	6.57241	8.266	7.455	2.4333	2.49966
5856	488704.51	3859962.56	7.55983	2.42661	6.68548	6.99447	8.516	6.617	2.369	2.42661
5857	488804.18	3859961.37	7.49603	2.40324	6.49654	7.71073	9.408	6.1	2.3419	2.40324
5858	488903.85	3859960.17	7.47023	2.44133	8.0428	8.88575	10.96	5.745	2.3152	2.44133
5859	489003.52	3859958.97	7.42104	2.4952	8.95897	10.64629	12.88	5.363	2.3182	2.4952
5860	489103.18	3859957.77	7.23486	2.62281	9.477	13.95782	14.91	5.103	2.4371	2.62281
5861	489201.48	3860046.59	7.21696	2.57957	10.66835	38.08517	15.51	4.658	2.4419	2.57957
5862	489200.11	3860136.61	7.75479	2.71924	10.90715	37.17047	13.93	4.356	2.654	2.71924
5863	489198.74	3860226.63	8.13571	3.29283	11.48201	37.60836	12.38	4.477	3.2457	3.29283
5864	489197.38	3860316.66	8.42414	3.77739	12.00671	36.79257	11	4.394	3.7454	3.77739
5865	489196.01	3860406.68	8.64384	3.78001	12.0872	36.4944	9.745	4.495	3.7759	3.78001
5866	489194.64	3860496.7	8.79953	3.22651	10.97615	35.19914	8.562	4.418	3.25	3.22651
5867	489193.27	3860586.72	8.90595	2.85252	9.27559	34.72239	7.566	4.189	2.8427	2.85252

64.9102524	24.2317941	0.0012594	0.648809	3.445693	1.13556	89.79313	8.92E+01	9.50E+01
67.958478	24.36599172	0.0013214	0.717506	3.653021	1.30094	89.29043	8.97E+01	9.76E+01
67.8648871	24.04209637	0.001372	0.730382	3.769862	1.35592	87.28336	8.85E+01	9.65E+01
67.6089468	24.6135167	0.0014315	0.742108	3.878351	1.41016	87.51002	9.06E+01	9.51E+01
76.8714211	39.58617374	0.0015466	0.97227	4.160157	1.91491	138.2812	1.46E+02	1.16E+02
77.4759537	38.12813674	0.0015588	0.943886	4.185282	1.8262	133.5498	1.40E+02	1.16E+02
78.1726165	38.14003094	0.0016072	0.924932	4.186459	1.74964	133.9181	1.40E+02	1.17E+02
78.4926202	36.69228131	0.0016352	0.849999	4.235845	1.6326	128.8031	1.35E+02	1.16E+02
78.7799662	35.73535219	0.0017767	0.800874	4.432627	1.50689	125.8474	1.32E+02	1.16E+02
79.015978	35.84044226	0.0019738	0.764918	4.621522	1.42592	127.1907	1.32E+02	1.17E+02
78.6829321	36.61600328	0.00231	0.749437	4.792401	1.3806	129.3469	1.35E+02	1.17E+02
77.5987592	37.22659691	0.0026	0.73509	5.152704	1.33951	129.6406	1.37E+02	1.15E+02
77.4595727	33.34458078	0.0039656	0.701627	6.559171	1.19921	117.2843	1.23E+02	1.14E+02
74.2713258	25.6412939	0.0045876	0.681624	8.016206	1.06072	89.65575	9.44E+01	1.05E+02
74.5118242	25.41530408	0.0054357	0.691545	8.66844	1.0424	86.25116	9.36E+01	1.03E+02
74.9450343	25.43109529	0.0036592	0.69171	9.545347	1.03799	84.94186	9.36E+01	1.03E+02
75.407772	25.27024653	0.0026139	0.67608	10.39276	1.0166	83.79977	9.30E+01	1.04E+02
81.3174589	28.96583399	0.0020479	0.740704	12.01791	0.99571	89.88064	1.07E+02	1.07E+02
83.1496287	28.94032794	0.0018409	1.215281	12.74727	0.9786	89.92407	1.07E+02	1.10E+02
84.8149627	28.03684884	0.0016444	1.06243	13.19713	0.96181	83.61888	1.03E+02	1.08E+02
86.850278	27.91334492	0.0015704	0.826791	13.84605	0.95711	79.97977	1.03E+02	1.08E+02
89.7827932	27.77508407	0.0015034	0.789031	14.38464	0.98231	75.53944	1.02E+02	1.07E+02
94.238117	27.08655018	0.0014244	0.751836	14.51047	1.02965	70.24427	9.97E+01	1.08E+02
97.5408224	14.61326377	0.0012237	0.656176	13.166	1.06008	49.38213	5.38E+01	1.23E+02
97.4884448	10.44305336	0.001032	0.601011	12.16989	1.15144	38.68763	3.84E+01	1.22E+02
96.9914844	8.413725308	0.0009392	0.553824	11.01244	1.26691	32.14961	3.10E+01	1.19E+02
96.4015591	7.592305115	0.0007485	0.519743	9.931835	1.59247	29.02348	2.80E+01	1.17E+02
95.5883511	6.948282133	0.0009062	0.498428	8.885475	1.55617	26.65789	2.56E+01	1.15E+02
87.177794	6.688364283	0.0017278	0.51455	8.835094	1.33437	25.94468	2.46E+01	1.06E+02
79.6747662	7.061443269	0.001871	0.588554	9.789194	1.33494	28.2781	2.60E+01	1.01E+02
73.6283969	7.503597275	0.0019351	0.754659	10.2722	1.2764	31.02361	2.76E+01	9.68E+01
74.9867694	7.613563229	0.0024936	1.18988	9.959665	1.15221	32.26007	2.80E+01	9.91E+01
80.7271162	6.607542816	0.0016217	1.23423	9.564971	1.11968	27.20424	2.43E+01	1.02E+02
87.2533345	5.659700561	0.0010414	0.899361	8.988168	0.98489	21.87386	2.08E+01	1.05E+02
89.393405	5.51684086	0.0012753	0.627102	8.116672	0.928	20.5433	2.03E+01	1.05E+02
90.9233085	5.344042494	0.0013895	0.517531	7.193544	0.8609	19.37421	1.97E+01	1.05E+02
92.4580117	5.133770006	0.0014768	0.452763	6.267278	0.84004	18.36901	1.89E+01	1.05E+02
92.6629309	4.861016023	0.0013857	0.413535	5.418131	0.91639	17.46265	1.79E+01	1.04E+02
92.6190047	4.625145145	0.0012391	0.387007	4.738958	1.02682	16.62594	1.70E+01	1.03E+02
92.3983305	4.391324355	0.0010882	0.363447	4.392694	1.17093	15.76408	1.62E+01	1.02E+02
92.8753624	4.23069723	0.00097	0.348452	4.158019	1.38111	14.91383	1.56E+01	1.02E+02
94.6523377	4.446935287	0.0009387	0.328486	3.955901	1.94851	15.27668	1.64E+01	1.04E+02
95.4863089	4.684874722	0.0009675	0.318094	3.80293	1.89032	16.5959	1.72E+01	1.06E+02
85.1439394	4.852187718	0.0009032	0.328185	3.744226	1.25469	17.95586	1.79E+01	9.54E+01
80.6007633	4.616686226	0.0007764	0.346196	3.875959	1.04875	17.24081	1.70E+01	9.07E+01
78.8775219	4.481768306	0.000696	0.368427	3.99333	0.93086	16.78522	1.65E+01	8.89E+01
78.2118474	4.438605653	0.0006763	0.406156	4.411381	0.85818	16.59342	1.63E+01	8.86E+01
77.9426562	4.508955051	0.0008373	0.468049	5.138684	0.80812	16.40367	1.66E+01	8.87E+01
77.4294191	4.608448937	0.0009327	0.560783	6.040448	0.75446	16.42535	1.70E+01	8.89E+01
75.4868599	4.844135122	0.0009866	0.735215	6.992331	0.71783	17.26766	1.78E+01	8.82E+01
75.3000955	4.764274056	0.0011106	2.006101	7.273002	0.65526	17.3016	1.75E+01	8.98E+01
80.9116896	5.022234165	0.0011355	1.95792	6.531144	0.61278	18.80469	1.85E+01	9.54E+01
84.886121	6.081612261	0.0011953	1.980986	5.807166	0.62975	22.99717	2.24E+01	1.00E+02
87.895533	6.976558565	0.00125	1.938015	5.156053	0.61812	26.53723	2.57E+01	1.03E+02
90.1878321	6.98139751	0.0012584	1.922309	4.5698	0.63238	26.75333	2.57E+01	1.05E+02
91.8122657	5.959124151	0.0011427	1.854082	4.014755	0.62149	23.02771	2.19E+01	1.05E+02
92.9226274	5.268392419	0.0009656	1.82897	3.547711	0.58927	20.14163	1.94E+01	1.05E+02

5868	489092.02	3860678.13	9.05361	2.65073	9.4426	12.3171	5.773	5.031	2.4524	2.65073
5869	488992.13	3860679.53	9.27615	2.61172	8.6279	8.65378	5.703	5.5	2.3598	2.61172
5870	488892.24	3860680.92	9.52939	2.56288	7.70291	6.7924	5.864	6.196	2.269	2.56288
5871	488792.36	3860682.31	9.7178	2.51544	6.53311	5.83318	5.857	7.171	2.1831	2.51544
5872	488692.48	3860683.7	9.84868	2.49733	6.39295	5.30591	5.936	8.622	2.1068	2.49733
5873	488592.59	3860685.09	9.91725	2.46163	6.16979	5.01095	5.939	10.57	2.0545	2.46163
5874	488492.71	3860686.49	9.97971	2.40975	5.91449	4.82025	5.736	14.79	2.0017	2.40975
5875	488299.07	3860762.18	9.82547	2.32047	5.5035	4.48108	5.577	9.821	1.9668	2.32047
5876	488205.32	3860764.09	9.60754	2.29718	5.28512	4.37465	5.664	10.69	1.9788	2.29718
5877	488111.56	3860766	9.22554	2.25727	5.33207	4.26387	5.561	9.972	1.9838	2.25727
5878	488017.81	3860767.91	8.83324	2.19706	5.05557	4.1222	5.439	11.03	1.9679	2.19706
5879	487924.06	3860769.81	8.06951	2.13726	4.54867	3.96509	5.71	10.24	1.944	2.13726
5880	487830.31	3860771.72	6.75776	2.0795	4.06182	3.87999	6.579	9.104	1.9219	2.0795
5881	487736.55	3860773.63	5.83313	2.03023	3.71414	3.84118	8.203	7.89	1.9035	2.03023
5882	487642.8	3860775.54	5.29506	2.01228	3.56576	3.81242	9.731	7.839	1.8976	2.01228
5883	487549.48	3860684.71	5.48856	1.92273	3.34235	3.88433	10.87	8.229	1.8114	1.92273
5884	487549.91	3860591.97	6.00956	1.83874	3.27123	3.95768	11.04	8.912	1.7013	1.83874
5885	487550.34	3860499.23	6.49979	1.92459	4.12406	4.09862	11.27	8.624	1.7701	1.92459
5886	487550.76	3860406.49	7.09178	1.96573	4.98418	4.2092	11.54	8.821	1.8062	1.96573
5887	487551.19	3860313.75	7.42386	2.0348	5.49413	4.24276	11.78	9.218	1.9082	2.0348
5888	487551.62	3860221.01	7.5415	2.19875	5.38155	4.24129	12.05	10.59	2.1361	2.19875
5889	487552.05	3860128.27	7.61555	2.49232	5.14806	4.27942	12.4	9.921	2.4356	2.49232
5890	487552.48	3860035.53	7.96455	2.89757	5.39062	4.29384	12.74	9.1	2.8413	2.89757
5891	487552.91	3859942.79	8.27635	3.0406	5.81736	4.22402	12.98	8.925	2.9742	3.0406
5892	487553.33	3859850.05	8.5475	2.89999	6.6576	4.38008	13.49	9.081	2.8219	2.89999
5893	487553.76	3859757.31	8.89775	2.60219	6.93065	4.61314	14.01	9.15	2.4714	2.60219
5894	487554.19	3859664.57	9.35731	2.43015	5.5087	4.75694	14.59	9.836	2.1309	2.43015
5895	487460.2	3859571.05	9.78798	2.30541	5.99005	4.93635	15.6	11.67	1.9237	2.30541
5896	487365.78	3859570.27	9.77966	2.30063	6.77118	4.86005	15.36	12.53	1.9748	2.30063
5897	487271.36	3859569.48	9.66325	2.29968	6.53493	4.84799	15.14	11.61	2.026	2.29968
5898	487176.94	3859568.7	9.28028	2.29091	6.97285	4.78176	14.91	10.9	2.0772	2.29091
5899	487082.51	3859567.92	8.53392	2.27475	6.10408	4.65831	14.11	10.18	2.1264	2.27475
5900	486988.09	3859567.14	7.73814	2.2784	5.33893	4.46736	12.83	9.824	2.1777	2.2784
5901	486893.67	3859566.36	7.07679	2.36761	6.99104	4.28548	12.19	9.246	2.2484	2.36761
5902	486799.25	3859565.58	6.43101	2.45466	7.6481	4.12411	12.17	8.237	2.3147	2.45466
5903	486704.83	3859564.79	5.875	2.53438	6.67643	4.01948	12.9	7.491	2.3785	2.53438
5904	486610.41	3859564.01	5.54796	2.60294	7.85757	3.88738	13.38	7.088	2.4385	2.60294
5905	486515.99	3859563.23	5.40079	2.65187	8.98412	3.74791	13.4	6.657	2.4785	2.65187
5906	486421.57	3859562.45	5.27069	2.68353	8.61208	3.68133	13.22	6.178	2.5044	2.68353
5907	486327.14	3859561.67	5.14014	2.6966	8.00174	3.60395	12.92	5.828	2.5209	2.6966
5908	486232.72	3859560.89	4.97944	2.68177	6.7246	3.49859	12.25	5.54	2.5361	2.68177
5909	486138.3	3859560.1	4.7959	2.68329	5.5783	3.391	11.88	5.252	2.5368	2.68329
5910	486043.88	3859559.32	4.6074	2.67013	5.73543	3.3031	12.3	4.961	2.5197	2.67013
5911	485949.35	3859463.54	4.70045	2.59392	6.12299	3.41104	13.85	4.855	2.4354	2.59392
5912	485949.24	3859368.55	4.93791	2.39834	6.37359	3.3119	14.82	5.635	2.2337	2.39834
5913	485949.12	3859273.55	5.14035	2.1539	6.92158	3.51734	15.56	6.236	1.9882	2.1539
5914	485949.01	3859178.56	5.5193	1.97299	7.31424	3.61948	16.58	6.349	1.8058	1.97299
5915	485948.9	3859083.56	5.77942	1.90042	7.42814	3.70799	17.84	6.072	1.6597	1.90042
5916	485948.79	3858988.56	5.91188	1.92152	6.9285	3.66742	19.11	5.851	1.6092	1.92152
5917	485948.67	3858893.57	6.00319	1.96673	6.4722	3.72701	20.03	6.004	1.6126	1.96673
5918	485948.56	3858798.57	6.08077	2.04376	6.12698	3.7329	20.67	6.378	1.6814	2.04376
5919	485948.45	3858703.58	6.13397	2.11973	7.54199	3.59455	20.97	6.86	1.7609	2.11973
5920	485948.34	3858608.58	6.17248	2.20305	10.16579	3.34436	21	7.308	1.813	2.20305
5921	485948.22	3858513.59	6.20225	2.27126	10.45754	3.35746	20.57	7.868	1.8341	2.27126
5922	485948.11	3858418.59	6.276	2.33137	9.53271	3.31946	20.03	8.786	1.8393	2.33137
5923	485948	3858323.59	6.42439	2.44853	12.1547	3.35999	20.42	10.03	1.7978	2.44853
5924	485947.89	3858228.6	6.66033	2.6276	10.42258	3.33447	21.45	10.96	1.7336	2.6276

94.4632778	4.895701287	0.000983	0.648792	2.707108	0.7078	17.37614	1.80E+01	1.03E+02
96.7852088	4.823652717	0.0008982	0.45583	2.674143	0.77369	16.72032	1.78E+01	1.04E+02
99.4274565	4.733448867	0.0008019	0.357783	2.749559	0.87169	16.07668	1.74E+01	1.07E+02
101.393283	4.645830713	0.0006801	0.307257	2.746272	1.00885	15.46819	1.71E+01	1.08E+02
102.758855	4.612382889	0.0006655	0.279484	2.783331	1.21293	14.92744	1.70E+01	1.10E+02
103.474298	4.546447643	0.0006423	0.263947	2.785141	1.48743	14.55702	1.67E+01	1.10E+02
104.125991	4.450629139	0.0006157	0.253902	2.689678	2.08042	14.18263	1.64E+01	1.11E+02
102.516687	4.285735615	0.0005729	0.236037	2.615387	1.38159	13.93563	1.58E+01	1.09E+02
100.242856	4.242720716	0.0005502	0.230431	2.656038	1.50322	14.02065	1.56E+01	1.07E+02
96.2571557	4.169009912	0.0005551	0.224595	2.607571	1.40275	14.05601	1.53E+01	1.03E+02
92.163988	4.057806517	0.0005263	0.217133	2.550498	1.55186	13.94321	1.49E+01	9.95E+01
84.1954054	3.947360362	0.0004735	0.208857	2.67735	1.44069	13.77422	1.45E+01	9.17E+01
70.5089086	3.840681935	0.0004229	0.204375	3.085155	1.2807	13.61728	1.41E+01	7.84E+01
60.8615325	3.749683908	0.0003867	0.202331	3.846657	1.10999	13.48727	1.38E+01	6.95E+01
55.2474343	3.716531592	0.0003712	0.200816	4.563132	1.10276	13.44532	1.37E+01	6.46E+01
57.2663687	3.551139398	0.000348	0.204603	5.097428	1.15769	12.83449	1.31E+01	6.70E+01
62.7023624	3.396016111	0.0003406	0.208467	5.178922	1.25368	12.05447	1.25E+01	7.23E+01
67.8173091	3.55457468	0.0004293	0.215891	5.285535	1.21316	12.54166	1.31E+01	7.75E+01
73.9939962	3.630557202	0.0005189	0.221716	5.409658	1.24097	12.79744	1.34E+01	8.39E+01
77.4588423	3.758124358	0.000572	0.223483	5.523544	1.29677	13.52007	1.38E+01	8.79E+01
78.6862709	4.060927822	0.0005603	0.223406	5.649496	1.48931	15.13476	1.50E+01	9.03E+01
79.4588915	4.603129791	0.0005359	0.225414	5.814471	1.39558	17.25718	1.69E+01	9.18E+01
83.100277	5.35159642	0.0005612	0.226174	5.973111	1.28019	20.13192	1.97E+01	9.64E+01
86.3535263	5.615762199	0.0006056	0.222496	6.085085	1.25547	21.07307	2.07E+01	9.99E+01
89.1826428	5.35606598	0.0006931	0.230717	6.32497	1.27749	19.99446	1.97E+01	1.03E+02
92.8370705	4.806051515	0.0007215	0.242993	6.571799	1.28717	17.51048	1.77E+01	1.06E+02
97.6320135	4.488306422	0.0005735	0.250567	6.839885	1.38363	15.09805	1.65E+01	1.09E+02
102.125525	4.257920914	0.0006236	0.260018	7.317184	1.6423	13.63025	1.57E+01	1.14E+02
102.038716	4.249092609	0.0007049	0.255999	7.201351	1.76337	13.99231	1.56E+01	1.14E+02
100.824121	4.24733803	0.0006803	0.255363	7.100079	1.63272	14.35501	1.56E+01	1.13E+02
96.8283003	4.231140492	0.0007259	0.251875	6.989255	1.53312	14.71743	1.56E+01	1.09E+02
89.0409522	4.201294173	0.0006355	0.245372	6.617852	1.43272	15.06652	1.55E+01	1.01E+02
80.7379673	4.208035452	0.0005558	0.235314	6.016772	1.38205	15.42972	1.55E+01	9.25E+01
73.837594	4.372799691	0.0007278	0.225734	5.716505	1.30062	15.93051	1.61E+01	8.53E+01
67.0996745	4.533574571	0.0007962	0.217234	5.705795	1.15872	16.4002	1.67E+01	7.84E+01
61.2983944	4.680811485	0.0006951	0.211722	6.049705	1.05381	16.85225	1.72E+01	7.29E+01
57.8861345	4.807436709	0.000818	0.204764	6.272282	0.99707	17.2773	1.77E+01	6.97E+01
56.3505967	4.897806782	0.0009353	0.197418	6.283053	0.93654	17.56093	1.80E+01	6.82E+01
54.9931633	4.956280449	0.0008966	0.193911	6.199271	0.86915	17.74429	1.82E+01	6.67E+01
53.6310348	4.980419768	0.000833	0.189835	6.056903	0.81981	17.8612	1.83E+01	6.52E+01
51.954328	4.95302986	0.0007001	0.184285	5.743796	0.77939	17.9689	1.82E+01	6.33E+01
50.039314	4.955837187	0.0005807	0.178618	5.572861	0.73876	17.97407	1.82E+01	6.12E+01
48.0725485	4.931531645	0.0005971	0.173988	5.769516	0.69789	17.85305	1.82E+01	5.93E+01
49.0434108	4.79077744	0.0006374	0.179673	6.496261	0.68302	17.25597	1.76E+01	6.08E+01
51.5210136	4.429555717	0.0006635	0.174451	6.94708	0.79268	15.82685	1.63E+01	6.34E+01
53.6332259	3.978093205	0.0007206	0.185273	7.298722	0.87731	14.0869	1.46E+01	6.54E+01
57.5871027	3.643965882	0.0007615	0.190653	7.775571	0.89314	12.79474	1.34E+01	6.95E+01
60.3011348	3.509934486	0.0007733	0.195315	8.366911	0.85419	11.75957	1.29E+01	7.21E+01
61.6831919	3.548904618	0.0007213	0.193178	8.960652	0.8231	11.4019	1.31E+01	7.35E+01
62.6358993	3.632404127	0.0006738	0.196317	9.391654	0.84459	11.42614	1.34E+01	7.48E+01
63.4453511	3.774672812	0.0006379	0.196627	9.691228	0.89726	11.91325	1.39E+01	7.60E+01
64.0004277	3.914983755	0.0007852	0.18934	9.833348	0.9651	12.47654	1.44E+01	7.70E+01
64.4022321	4.068869602	0.0010583	0.176161	9.848255	1.02802	12.84597	1.50E+01	7.74E+01
64.7128454	4.194848402	0.0010887	0.176851	9.646127	1.10691	12.99505	1.54E+01	7.74E+01
65.4823359	4.305867105	0.0009924	0.174849	9.393853	1.23596	13.03182	1.59E+01	7.78E+01
67.0306029	4.522252916	0.0012654	0.176984	9.573224	1.41139	12.73827	1.66E+01	7.88E+01
69.4923465	4.852981896	0.0010851	0.17564	10.05707	1.54231	12.28339	1.79E+01	8.05E+01

5925	485947.77	3858133.6	7.078	2.85827	6.27972	3.30378	22.03	11.38	1.736	2.85827	73.8502189	5.279012241	0.0006538	0.174024	10.33149	1.60078	12.30004	1.94E+01	8.41E+01
5926	485947.66	3858038.61	7.44914	3.14301	4.93136	3.49904	22.43	12.84	1.785	3.14301	77.722608	5.804905857	0.0005134	0.184309	10.51689	1.80673	12.64723	2.14E+01	8.73E+01
5927	485854.54	3857943.35	7.43269	3.21236	6.06773	3.56697	22.4	12.98	1.7687	3.21236	77.5509725	5.932990153	0.0006317	0.187887	10.50451	1.82564	12.53152	2.18E+01	8.67E+01
5928	485761.52	3857943.09	7.08301	3.00269	5.52999	3.46472	21.58	11.64	1.7308	3.00269	73.9024921	5.545745247	0.0005757	0.182501	10.12013	1.638	12.26356	2.04E+01	8.32E+01
5929	485668.51	3857942.83	6.82142	2.8187	5.46551	3.37817	21.2	10.64	1.7142	2.8187	71.1731224	5.205929392	0.000569	0.177942	9.938836	1.49661	12.14551	1.92E+01	8.10E+01
5930	485575.5	3857942.56	6.56821	2.63378	5.51301	3.28102	20.64	9.809	1.6799	2.63378	68.5311876	4.864395897	0.0005739	0.172825	9.679988	1.37993	11.90284	1.79E+01	7.86E+01
5931	485482.48	3857942.3	6.32836	2.58286	5.35797	3.19994	20.2	9.147	1.6373	2.58286	66.0286481	4.770350442	0.0005578	0.168554	9.473846	1.28677	11.60051	1.76E+01	7.58E+01
5932	485389.47	3857942.04	6.08966	2.52133	4.79201	3.12106	19.63	8.588	1.599	2.52133	63.5381074	4.656709105	0.0004989	0.164399	9.206877	1.20815	11.32928	1.71E+01	7.30E+01
5933	485296.46	3857941.78	5.85504	2.44341	4.15615	3.04699	19.25	8.109	1.5901	2.44341	61.0901364	4.512796657	0.0004327	0.160497	9.028101	1.14073	11.26629	1.66E+01	7.06E+01
5934	485203.45	3857941.52	5.64024	2.38468	4.1994	2.98498	19.22	7.707	1.575	2.38468	58.8489628	4.404326712	0.0004372	0.157231	9.011891	1.08423	11.1593	1.62E+01	6.85E+01
5935	485110.43	3857941.26	5.4457	2.33485	4.58679	2.93308	19.02	7.38	1.5469	2.33485	56.8191773	4.312294406	0.0004775	0.154497	8.920658	1.03819	10.96034	1.59E+01	6.63E+01
5936	485017.42	3857940.99	5.26555	2.26561	4.85022	2.89735	18.72	7.073	1.5179	2.26561	54.9395338	4.184413272	0.0005049	0.152615	8.77827	0.99506	10.7548	1.54E+01	6.44E+01
5937	484924.41	3857940.73	5.09211	2.1806	4.65791	2.866	18.35	6.78	1.4834	2.1806	53.1299008	4.027406121	0.0004849	0.150964	8.606435	0.95372	10.51071	1.48E+01	6.26E+01
5938	484831.39	3857940.47	4.92583	2.08659	4.11613	2.84279	17.97	6.5	1.4537	2.08659	51.3949737	3.853776638	0.0004285	0.149741	8.424691	0.9144	10.29992	1.42E+01	6.08E+01
5939	484738.12	3857859.3	4.95104	2.06141	5.3951	2.83033	18.05	6.488	1.4035	2.06141	51.658009	3.80727105	0.0005617	0.149085	8.461825	0.9127	9.944304	1.40E+01	6.09E+01
5940	484737.85	3857778.4	5.21631	2.15963	6.26676	2.84905	18.13	6.553	1.392	2.15963	54.425775	3.98867609	0.0006524	0.150071	8.499517	0.92187	9.863035	1.47E+01	6.32E+01
5941	484737.59	3857697.49	5.5173	2.26396	6.90395	2.85522	17.97	6.445	1.3971	2.26396	57.5662352	4.181365845	0.0007187	0.150396	8.427514	0.90665	9.898603	1.54E+01	6.57E+01
5942	484737.32	3857616.59	5.79261	2.3671	7.39031	2.83812	17.9	6.026	1.4082	2.3671	60.4387562	4.371857759	0.0007694	0.149495	8.393991	0.84766	9.977605	1.61E+01	6.81E+01
5943	484645.53	3857535.18	5.97937	2.35203	8.16275	2.77687	17.24	5.387	1.395	2.35203	62.3873669	4.344024589	0.0008498	0.146269	8.084959	0.75779	9.884007	1.60E+01	6.96E+01
5944	484553.99	3857534.67	5.8525	2.22506	7.93303	2.74449	16.67	5.377	1.3396	2.22506	61.0636346	4.109520436	0.0008259	0.144563	7.815917	0.75639	9.491762	1.51E+01	6.83E+01
5945	484462.46	3857534.17	5.70695	2.09979	8.66718	2.72277	16.15	5.342	1.3048	2.09979	59.5449995	3.878156057	0.0009023	0.143419	7.573181	0.75151	9.244908	1.43E+01	6.69E+01
5946	484370.93	3857533.66	5.54457	2.0211	7.96442	2.70176	15.61	5.292	1.2907	2.0211	57.8507641	3.732821476	0.0008291	0.142313	7.318412	0.74449	9.144792	1.37E+01	6.52E+01
5947	484279.4	3857533.16	5.45386	1.9654	6.64943	2.68415	15.08	5.241	1.2781	1.9654	56.9043169	3.629947716	0.0006922	0.141385	7.070804	0.73729	9.055729	1.34E+01	6.42E+01
5948	484187.86	3857532.65	5.29228	1.91499	7.77931	2.66547	14.53	5.187	1.2654	1.91499	55.2184284	3.536844193	0.0008099	0.140401	6.814324	0.72963	8.966099	1.30E+01	6.24E+01
5949	484096.33	3857532.15	5.00077	1.8716	8.33866	2.65296	14.03	5.139	1.2669	1.8716	52.1768803	3.456706088	0.0008681	0.139742	6.579996	0.72296	8.976373	1.27E+01	5.93E+01
5950	484004.8	3857531.64	4.61297	1.84522	7.31911	2.63536	13.51	5.071	1.2793	1.84522	48.1306646	3.407984189	0.000762	0.138815	6.334118	0.71342	9.064019	1.25E+01	5.52E+01
5951	483913.27	3857531.14	4.47308	1.84555	8.40653	2.61287	13.01	5.01	1.2787	1.84555	46.6710846	3.408593674	0.0008752	0.137631	6.10167	0.70475	9.060263	1.25E+01	5.35E+01
5952	483821.73	3857530.63	4.41109	1.82767	9.04543	2.59806	12.62	4.947	1.2692	1.82767	46.0242953	3.375570643	0.0009417	0.13685	5.916578	0.69594	8.992386	1.24E+01	5.27E+01
5953	483729.61	3857450.11	4.65362	1.82478	8.30126	2.53703	11.43	4.701	1.2419	1.82478	48.5547973	3.370233028	0.0008642	0.133636	5.358537	0.66135	8.799451	1.24E+01	5.45E+01
5954	483729.03	3857370.08	5.14794	1.87029	7.89466	2.491	10.31	4.441	1.2381	1.87029	53.7124182	3.454286616	0.0008219	0.131211	4.833816	0.6248	8.772669	1.27E+01	5.88E+01
5955	483728.44	3857290.06	5.6421	1.90788	7.40929	2.4391	9.247	3.998	1.235	1.90788	58.8683696	3.523712552	0.0007714	0.128477	4.336049	0.56247	8.750208	1.30E+01	6.32E+01
5956	483727.86	3857210.03	6.33548	1.94666	7.26901	2.43396	8.773	3.608	1.2473	1.94666	66.1029365	3.595336329	0.0007567	0.128207	4.113903	0.5076	8.837712	1.32E+01	7.00E+01
5957	483641.15	3857129.07	6.55532	1.95028	7.49936	2.43076	9.218	3.478	1.2546	1.95028	68.3966964	3.6020222	0.0007807	0.128038	4.322333	0.48933	8.889365	1.33E+01	7.26E+01
5958	483555.03	3857128.14	6.25561	1.85927	7.43411	2.40178	9.029	3.402	1.2084	1.85927	65.2695914	3.433933495	0.0007739	0.126512	4.233848	0.47858	8.561667	1.26E+01	6.95E+01
5959	483468.91	3857127.2	5.9919	1.76044	7.47952	2.36362	8.8	3.35	1.1556	1.76044	62.5181021	3.25140183	0.0007787	0.124501	4.126343	0.47132	8.187914	1.20E+01	6.67E+01
5960	483382.78	3857126.26	5.76018	1.72692	7.71818	2.34451	8.648	3.365	1.146	1.72692	60.1003891	3.189492882	0.0008035	0.123495	4.055443	0.47333	8.119469	1.17E+01	6.43E+01
5961	483296.66	3857125.32	5.53698	1.7021	7.87376	2.3193	8.469	3.45	1.1393	1.7021	57.7715718	3.143652187	0.0008197	0.122167	3.971169	0.48538	8.071997	1.16E+01	6.20E+01
5962	483210.54	3857124.39	5.32837	1.67722	7.16004	2.29254	8.28	3.522	1.1307	1.67722	55.5949832	3.097700676	0.0007454	0.120757	3.882862	0.49551	8.011205	1.14E+01	5.98E+01
5963	483123.4	3857030.96	5.35931	1.66472	7.06021	2.28065	9.001	3.117	1.1185	1.66472	55.917804	3.074614105	0.000735	0.120131	4.220695	0.43854	7.924976	1.13E+01	6.04E+01
5964	483122.38	3856938.46	5.81867	1.66226	6.68434	2.31362	10.18	3.015	1.1417	1.66226	60.7106602	3.070070668	0.0006959	0.121868	4.773963	0.42418	8.089002	1.13E+01	6.59E+01
5965	483121.35	3856845.97	6.2362	1.68456	7.07809	2.3562	11.83	3.043	1.1812	1.68456	65.0670719	3.11125711	0.0007369	0.124111	5.545049	0.42809	8.369157	1.15E+01	7.12E+01
5966	483120.33	3856753.47	6.45013	1.70589	8.6628	2.37963	12.86	2.935	1.2013	1.70589	67.2991682	3.150652035	0.0009019	0.125345	6.030878	0.41294	8.511786	1.16E+01	7.39E+01
5967	483119.31	3856660.98	6.53224	1.73697	9.27602	2.39534	13.16	2.964	1.2069	1.73697	68.155885	3.208054485	0.0009657	0.126172	6.169682	0.41695	8.551535	1.18E+01	7.48E+01
5968	483118.29	3856568.49	6.57878	1.78851	9.80007	2.38026	13.2	2.982	1.2024	1.78851	68.6414726	3.303245034	0.0010202	0.125378	6.191872	0.41951	8.519154	1.22E+01	7.50E+01
5969	483117.26	3856475.99	6.6348	1.83785	10.71933	2.33677	12.78	2.958	1.1896	1.83785	69.2259723	3.394372347	0.0011159	0.123087	5.993312	0.41619	8.429029	1.25E+01	7.51E+01
5970	483116.24	3856383.5	6.79198	1.89209	12.16331	2.24889	13.19	3.071	1.1697	1.89209	70.8659522	3.494549595	0.0012663	0.118458	6.184097	0.43205	8.287463	1.29E+01	7.65E+01
5971	483115.22	3856291.01	7.08709	1.93935	10.75819	2.17278	14.04	3.255	1.149	1.93935	73.9450618	3.581835302	0.00112	0.114449	6.58559	0.45783	8.140796	1.32E+01	7.96E+01
5972	483114.2	3856198.51	7.4007	1.9606	8.60884	2.10439	14.19	3.467	1.1286	1.9606	77.2171962	3.621082473	0.0008962	0.110847	6.654732	0.48777	7.996751	1.33E+01	8.28E+01
5973	483113.17	3856106.02	7.60464	1.99251	7.72303	2.06834	14.38	3.6	1.1187	1.99251	79.3450591	3.680017871	0.000804	0.108948	6.744197	0.50639	7.926677	1.35E+01	8.48E+01
5974	483112.15	3856013.52	7.53127	2.13168	8.25306	2.04351	14.26	3.854	1.153	2.13168	78.5795335	3.937054517	0.0008592	0.10764	6.684781	0.54219	8.169067	1.45E+01	8.35E+01
5975	483029.25	3855920.47	7.32347	2.22075	8.983	2.03299	13.35	3.88	1.1899	2.22075	76.4113962	4.101560187	0.0009352	0.107086	6.259058	0.54583	8.4308	1.51E+01	8.08E+01
5976	482947.37	3855919.91	7.1027	2.08259	11.00665	2.0202	13.46	3.642	1.1435	2.08259	74.107933	3.846388936	0.0011459	0.106412	6.313012	0.51235	8.101756	1.42E+01	7.88E+01
5977	482865.49	3855919.36	6.75727	1.97091	9.72228	2.00514	13.5	3.445	1.1122	1.97091	70.5037961	3.640124277	0.0010121	0.105619	6.330822	0.48463	7.880267	1.34E+01	7.55E+01
5978	482783.61	3855918.8	6.4134	2.0234	11.67895	1.99781	13.55	3.345	1.1408	2.0234	66.9159358	3.737069405	0.0012159	0.105233	6.352462	0.47062	8.083121	1.38E+01	7.19E+01
5979	482700.33	3855818.39	6.56791	2.1154	12.43326	1.97133	12.48	3.294	1.1745	2.1154	68.5280575	3.906986567	0.0012944	0.103838	5.853453	0.46345	8.321898	1.44E+01	7.28E+01
5980	482698.92	3855718.54	7.447	2.2684	11.3238	1.97394	10.53	3.507	1.2581	2.2684	77.7002797	4.189566195	0.0011789	0.103975	4.935454	0.4933	8.914376	1.54E+01	8.09E+01
5981	482697.52	3855618.68	7.53813	2.48076	11.56881	2.02046	8.037	3.724	1.3419	2.48076	78.6511091	4.581779331	0.0012044	0.106426	3.768539	0.52393	9.507633	1.69E+01	8.03E+01

5982	482696.11	3855518.83	7.48239	2.69297	10.98399	2.09968	6.863	3.908	1.428	2.69297
5983	482694.71	3855418.98	7.41206	2.83694	11.30496	2.17663	6.215	4.15	1.4886	2.83694
5984	482693.3	3855319.13	7.29999	2.99232	10.50363	2.25854	5.408	4.373	1.5387	2.99232
5985	482691.9	3855219.27	7.16054	3.32348	13.90325	2.36942	5.258	4.617	1.5843	3.32348
5986	482690.49	3855119.42	7.00146	3.64852	22.50035	2.44894	5.405	4.857	1.6301	3.64852
5987	482689.09	3855019.57	6.87296	4.0462	21.22724	2.516	5.368	5.408	1.7496	4.0462
5988	482687.68	3854919.71	6.79813	4.28793	7.93484	2.52474	5.219	7.004	1.8598	4.28793
5989	482686.28	3854819.86	6.70823	4.46629	10.57333	2.63632	5.184	11.64	2.0039	4.46629
5990	482684.88	3854720.01	6.58254	4.62721	15.64573	2.82325	4.979	13.41	2.1813	4.62721
5991	482683.47	3854620.16	6.41557	4.91774	17.08977	3.17182	4.9	12.93	2.3975	4.91774
5992	482682.07	3854520.31	6.29274	5.65261	16.19227	3.39556	5.158	14.34	2.5692	5.65261
5993	482680.66	3854420.45	6.28723	6.10091	14.1131	3.72581	5.366	15.06	2.7243	6.10091
5994	482679.26	3854320.6	6.28774	6.48277	7.84864	3.89353	5.541	13.57	2.9205	6.48277
5995	482677.85	3854220.75	6.45525	7.54344	4.58686	3.99105	5.71	14.13	3.335	7.54344
5996	482676.45	3854120.9	6.55183	7.30275	3.41728	4.1841	5.604	14.53	3.6777	7.30275
5997	482675.04	3854021.04	6.53526	6.89199	3.3636	4.6077	5.36	16.86	4.0023	6.89199
5998	482673.64	3853921.19	6.49317	6.77726	3.21475	5.34073	5.039	11.93	4.8012	6.77726
5999	482672.23	3853821.34	6.56786	6.54062	2.93987	6.1317	4.683	7.505	5.8311	6.54062
6000	482670.83	3853721.48	6.56468	6.36975	2.7939	6.53653	4.216	5.574	5.6863	6.36975
6001	482669.42	3853621.63	6.57836	6.23903	2.91567	5.64976	4.005	4.557	5.6453	6.23903
6002	482645.99	3853446.13	6.55984	6.22154	3.15949	4.09544	3.664	4.15	6.6636	6.22154
6003	482623.96	3853370.48	6.46683	6.18438	3.16708	4.03125	3.549	4.036	6.795	6.18438
6004	482601.94	3853294.84	6.33749	6.46713	3.17562	4.25058	3.458	3.91	7.0863	6.46713
6005	482531.29	3853133.44	5.98739	7.23683	2.92414	4.20963	3.292	3.488	7.8024	7.23683
6006	482482.68	3853047.69	5.87701	7.97378	2.67172	4.04834	3.237	3.267	8.5625	7.97378
6007	482383.08	3852897.4	5.6654	9.65859	2.34952	3.66144	3.133	2.988	9.9985	9.65859
6008	482265.64	3852765.26	5.32496	10.54639	2.08538	3.38413	3.046	2.865	10.716	10.54639
6009	482199.16	3852697.66	5.16326	10.53787	2.01689	3.26105	3.019	2.829	10.702	10.53787
6010	482132.69	3852630.07	5.03381	10.44512	2.05013	3.14554	2.993	2.803	10.605	10.44512
6011	482066.21	3852562.48	4.91928	10.29358	2.12572	3.03016	2.964	2.781	10.454	10.29358
6012	481999.74	3852494.89	4.81319	10.07627	2.21527	2.91176	2.932	2.764	10.229	10.07627
6013	481933.26	3852427.29	4.71456	9.7033	2.28646	2.79769	2.9	2.75	9.8505	9.7033
6014	481866.79	3852359.7	4.632	9.58486	2.3194	2.69858	2.873	2.738	9.7357	9.58486
6015	481800.31	3852292.11	4.55524	9.45543	2.33022	2.60409	2.849	2.724	9.599	9.45543
6016	481733.84	3852224.52	4.47836	9.21586	2.32309	2.51064	2.824	2.708	9.3579	9.21586
6017	481667.36	3852156.92	4.41664	9.20545	2.28789	2.42721	2.8	2.693	9.3529	9.20545
6018	481600.89	3852089.33	4.3364	8.82281	2.24772	2.33275	2.768	2.659	8.9729	8.82281
6019	481534.41	3852021.74	4.25321	8.4897	2.19112	2.24029	2.733	2.609	8.7522	8.4897
6020	481467.94	3851954.15	4.1813	8.30028	2.11544	2.15583	2.701	2.555	8.6445	8.30028
6021	481401.46	3851886.55	4.15208	8.55858	2.02054	2.0819	2.672	2.504	8.8883	8.55858
6022	481265.87	3851761.43	4.09881	9.23779	1.80134	1.93466	2.612	2.376	9.3239	9.23779
6023	481196.74	3851703.89	4.12645	9.76136	1.67108	1.8695	2.588	2.309	9.8328	9.76136
6024	481076.33	3851619.04	4.15904	10.4152	1.43094	1.76263	2.551	2.179	10.466	10.4152
6025	480939.8	3851549.07	4.02047	10.47656	1.14309	1.66634	2.516	2.027	10.529	10.47656
6026	480854.56	3851506.41	3.92833	10.68203	1.00153	1.62566	2.488	1.955	10.758	10.68203
6027	480769.32	3851463.75	3.84012	10.89128	0.88862	1.61237	2.457	1.975	11.015	10.89128
6028	480684.08	3851421.08	3.76043	11.03028	0.81441	1.60116	2.422	2.006	11.203	11.03028
6029	480598.84	3851378.42	3.62052	10.9506	0.82311	1.60614	2.38	2.046	11.162	10.9506
6030	480435.71	3851275.01	3.61941	12.6618	0.81996	1.60563	2.313	2.099	13.003	12.6618
6031	480347.85	3851232.36	3.56694	12.47891	0.82106	1.61279	2.266	2.149	12.865	12.47891
6032	480260	3851189.72	3.51985	12.34277	0.82506	1.61253	2.217	2.197	12.768	12.34277
6033	480172.15	3851147.07	3.48625	12.21502	0.82796	1.60441	2.166	2.239	12.676	12.21502
6034	480084.29	3851104.42	3.48757	12.16356	0.82958	1.58859	2.115	2.27	12.653	12.16356
6035	479996.44	3851061.77	3.52438	12.17371	0.83035	1.57222	2.063	2.288	12.694	12.17371
6036	479908.58	3851019.13	3.52075	12.66367	0.83864	1.58271	2.009	2.282	13.226	12.66367
6037	479820.73	3850976.48	3.43052	12.6703	0.86108	1.57492	1.95	2.261	13.25	12.6703
6038	479732.88	3850933.83	3.33635	12.68382	0.8841	1.5586	1.898	2.217	13.261	12.68382

78.0695308	4.973715428	0.0011435	0.110599	3.218183	0.5497	10.11818	1.83E+01	7.87E+01
77.3357238	5.239617317	0.0011769	0.114652	2.914122	0.58373	10.5472	1.93E+01	7.74E+01
76.1664113	5.526592628	0.0010935	0.118967	2.536018	0.61518	10.90217	2.03E+01	7.55E+01
74.7114222	6.138220533	0.0014474	0.124807	2.465563	0.64951	11.22548	2.26E+01	7.27E+01
73.0516182	6.738545254	0.0023424	0.128996	2.534564	0.68324	11.54963	2.48E+01	6.99E+01
71.7108788	7.473030655	0.0022099	0.132528	2.517379	0.76077	12.39676	2.75E+01	6.75E+01
70.9301199	7.919487998	0.0008261	0.132988	2.447285	0.98534	13.17742	2.92E+01	6.64E+01
69.992124	8.248905661	0.0011007	0.138866	2.430938	1.63775	14.19821	3.04E+01	6.63E+01
68.6807036	8.54611294	0.0016288	0.148712	2.334852	1.88636	15.45494	3.15E+01	6.56E+01
66.9385771	9.082700255	0.0017791	0.167073	2.297934	1.81825	16.98729	3.34E+01	6.39E+01
65.6569972	10.43995052	0.0016857	0.178858	2.418873	2.01774	18.20385	3.84E+01	6.05E+01
65.5995072	11.2679273	0.0014693	0.196254	2.516263	2.11839	19.30244	4.15E+01	5.95E+01
65.6048284	11.97319434	0.0008171	0.205088	2.598061	1.90923	20.69258	4.41E+01	5.89E+01
67.3525891	13.93217299	0.0004775	0.210225	2.677454	1.98739	23.62989	5.13E+01	5.85E+01
68.3602825	13.48763645	0.0003558	0.220394	2.627603	2.0439	26.05804	4.97E+01	6.31E+01
68.1873949	12.72899326	0.0003502	0.242706	2.513196	2.37218	28.35781	4.69E+01	6.75E+01
67.7482376	12.51709548	0.0003347	0.281318	2.36294	1.67823	34.01788	4.61E+01	7.25E+01
68.5275358	12.08003899	0.0003061	0.322982	2.195944	1.05581	41.31523	4.45E+01	8.10E+01
68.4943564	11.7644548	0.0002909	0.344306	1.97702	0.78407	40.28913	4.33E+01	8.03E+01
68.6370904	11.52302468	0.0003035	0.297596	1.878045	0.64112	39.99885	4.24E+01	8.06E+01
68.443857	11.49072195	0.0003289	0.215724	1.718336	0.5838	47.21373	4.23E+01	8.74E+01
67.4734121	11.42209019	0.0003297	0.212342	1.664236	0.56772	48.14496	4.21E+01	8.74E+01
66.1239084	11.94430842	0.0003306	0.223895	1.621579	0.55002	50.20864	4.40E+01	8.67E+01
62.4710458	13.36588711	0.0003044	0.221738	1.543504	0.49067	55.28275	4.92E+01	8.42E+01
61.3193663	14.72697899	0.0002781	0.213243	1.51776	0.45953	60.66833	5.42E+01	8.47E+01
59.1114764	17.83869783	0.0002446	0.192863	1.468917	0.42032	70.84326	6.57E+01	8.42E+01
55.559404	19.47839844	0.0002171	0.178256	1.428389	0.40308	75.92581	7.17E+01	8.13E+01
53.8722635	19.46266263	0.00021	0.171773	1.415644	0.39796	75.82626	7.17E+01	7.95E+01
52.5216121	19.29136028	0.0002134	0.165688	1.403325	0.39427	75.13763	7.10E+01	7.79E+01
51.3266325	19.01147716	0.0002213	0.159611	1.389797	0.39128	74.06809	7.00E+01	7.64E+01
50.2197139	18.61012174	0.0002306	0.153374	1.374909	0.38887	72.47644	6.85E+01	7.47E+01
49.1906312	17.92127388	0.000238	0.147366	1.359767	0.38683	69.79463	6.60E+01	7.28E+01
48.3292192	17.702524	0.0002415	0.142145	1.347233	0.38515	68.98081	6.52E+01	7.17E+01
47.5283231	17.46347641	0.0002426	0.137168	1.336124	0.38324	68.01238	6.43E+01	7.06E+01
46.7261749	17.02100843	0.0002418	0.132246	1.324064	0.38096	66.30417	6.27E+01	6.92E+01
46.0822027	17.00178193	0.0002382	0.127851	1.313082	0.37878	66.26881	6.26E+01	6.86E+01
45.2449971	16.29507429	0.000234	0.122875	1.297823	0.37402	63.57623	6.00E+01	6.69E+01
44.3770118	15.67984488	0.0002281	0.118005	1.281716	0.36695	62.01242	5.77E+01	6.61E+01
43.6267194	15.33000022	0.0002202	0.113556	1.266476	0.35939	61.24905	5.64E+01	6.55E+01
43.3218447	15.80706112	0.0002104	0.109662	1.253041	0.35227	62.97695	5.82E+01	6.56E+01
42.7660378	17.06151151	0.0001875	0.101906	1.22492	0.33428	66.06291	6.28E+01	6.47E+01
43.0544272	18.02850638	0.000174	0.098474	1.21368	0.32482	69.66901	6.64E+01	6.60E+01
43.3944637	19.23610026	0.000149	0.092845	1.19611	0.30659	74.1568	7.08E+01	6.76E+01
41.9486563	19.34942762	0.000119	0.087773	1.180012	0.28518	74.60346	7.12E+01	6.62E+01
40.9872888	19.72891544	0.0001043	0.08563	1.166643	0.27497	76.22438	7.26E+01	6.58E+01
40.066926	20.11538464	9.251E-05	0.08493	1.152022	0.27782	78.04716	7.41E+01	6.57E+01
39.235459	20.3721073	8.479E-05	0.08434	1.135535	0.28226	79.37588	7.50E+01	6.55E+01
37.7756703	20.22494427	8.569E-05	0.084602	1.115812	0.28783	79.08807	7.45E+01	6.41E+01
37.7640888	23.38540348	8.536E-05	0.084575	1.084774	0.29523	92.13031	8.61E+01	6.86E+01
37.216629	23.04761924	8.548E-05	0.084952	1.062637	0.30228	91.15529	8.49E+01	6.80E+01
36.7253028	22.79617878	8.589E-05	0.084939	1.039378	0.30907	90.46865	8.39E+01	6.75E+01
36.3747281	22.56023403	8.62E-05	0.084511	1.015674	0.31491	89.8168	8.31E+01	6.71E+01
36.3885007	22.46519123	8.636E-05	0.083678	0.99175	0.3193	89.65022	8.27E+01	6.72E+01
36.7725677	22.48393753	8.644E-05	0.082815	0.967305	0.3218	89.9415	8.28E+01	6.78E+01
36.7346931	23.38885723	8.731E-05	0.083368	0.94211	0.32095	93.71169	8.61E+01	6.91E+01
35.7932541	23.40110235	8.964E-05	0.082957	0.914491	0.31802	93.88216	8.62E+01	6.82E+01
34.8107061	23.42607278	9.204E-05	0.082098	0.890074	0.31195	93.95713	8.62E+01	6.72E+01

6039	479645.02	3850891.18	3.24603	12.66424	0.90858	1.53368	1.858	2.152	13.237	12.66424
6040	479557.17	3850848.54	3.17646	12.56935	0.9356	1.49797	1.818	2.06	13.121	12.56935
6041	479469.32	3850805.89	3.1076	12.78816	0.95868	1.46286	1.778	1.942	13.33	12.78816
6042	479381.46	3850763.24	3.01295	12.59734	0.99047	1.4125	1.741	1.81	13.117	12.59734
6043	479293.61	3850720.59	2.87088	12.08757	1.02959	1.35167	1.707	1.673	12.578	12.08757
6044	479205.76	3850677.95	2.71653	11.6543	1.06879	1.29046	1.674	1.531	12.106	11.6543
6045	479117.9	3850635.3	2.65024	11.1322	1.11292	1.23077	1.64	1.397	11.53	11.1322
6046	479030.05	3850592.65	2.6653	10.85387	1.1548	1.17314	1.611	1.271	11.217	10.85387
6047	478942.19	3850550	2.68472	11.05978	1.18223	1.12021	1.591	1.148	11.415	11.05978
6048	478854.34	3850507.36	2.69136	12.09936	1.18769	1.08773	1.562	1.022	12.48	12.09936
6049	478766.49	3850464.71	2.63347	12.28045	1.21321	1.04569	1.356	0.939	12.637	12.28045
6050	478678.63	3850422.06	2.53701	12.29045	1.2449	1.00395	1.313	0.873	12.641	12.29045
6051	478590.78	3850379.41	2.46464	12.3671	1.27385	0.96225	1.267	0.813	12.7	12.3671
6052	478502.93	3850336.77	2.4218	12.33381	1.30838	0.92398	1.24	0.765	12.651	12.33381
6053	478415.07	3850294.12	2.39127	12.26977	1.3451	0.89005	1.223	0.753	12.564	12.26977
6054	478327.22	3850251.47	2.37389	12.37484	1.37305	0.85294	1.19	0.738	12.667	12.37484
6055	478239.36	3850208.82	2.34533	12.41339	1.40807	0.82161	1.167	0.725	12.693	12.41339
6056	478151.51	3850166.18	2.31688	12.4069	1.44297	0.79659	1.152	0.715	12.672	12.4069
6057	478063.66	3850123.53	2.29024	12.34637	1.47584	0.77552	1.143	0.708	12.61	12.34637
6058	477975.8	3850080.88	2.23414	11.80448	1.54117	0.783	1.206	0.722	12.034	11.80448
6059	477887.95	3850038.23	2.21843	11.61663	1.57402	0.7727	1.223	0.726	11.836	11.61663
6060	477800.1	3849995.59	2.20426	11.19939	1.60376	0.76576	1.251	0.733	11.397	11.19939
6061	477712.24	3849952.94	2.20051	11.04303	1.6197	0.75691	1.261	0.737	11.228	11.04303
6062	477624.39	3849910.29	2.19715	10.85674	1.62914	0.74936	1.273	0.743	11.024	10.85674
6063	477536.54	3849867.64	2.17982	10.54884	1.63323	0.74396	1.366	0.752	10.695	10.54884
6064	477448.68	3849825	2.14856	10.43029	1.62816	0.73814	1.294	0.759	10.56	10.43029
6065	477360.83	3849782.35	2.11891	10.24584	1.61742	0.73375	1.301	0.77	10.359	10.24584
6066	477272.97	3849739.7	2.0983	10.02714	1.59718	0.7303	1.308	0.783	10.124	10.02714
6067	477185.12	3849697.05	2.07546	9.71046	1.57569	0.72816	1.317	0.797	9.7902	9.71046
6068	477097.27	3849654.41	2.06049	9.58939	1.55011	0.7266	1.321	0.809	9.6565	9.58939
6069	477009.41	3849611.76	2.05383	9.83724	1.51089	0.72672	1.316	0.817	9.895	9.83724
6070	476841.49	3849530.08	2.02002	9.62076	1.43205	0.72854	1.331	0.843	9.6711	9.62076
6071	476761.41	3849491.05	2.00088	9.45804	1.39199	0.7298	1.341	0.858	9.5002	9.45804
6072	476681.34	3849452.02	2.00245	9.51378	1.345	0.7308	1.348	0.87	9.5489	9.51378
6073	476601.26	3849412.99	2.03191	9.87238	1.29269	0.73178	1.353	0.879	9.9017	9.87238
6074	476456.32	3849353.67	2.10728	11.20686	1.16894	0.74574	1.378	0.904	11.274	11.20686
6075	476305.43	3849318.83	2.04941	10.70658	1.02699	0.77568	1.465	0.961	10.812	10.70658
6076	476129.36	3849289.99	2.0476	10.86499	0.82357	0.81241	1.569	1.01	10.962	10.86499
6077	476039.31	3849275.68	2.05366	10.75281	0.73084	0.82786	1.614	1.021	10.841	10.75281
6078	475949.26	3849261.38	2.09343	11.38193	0.63608	0.8624	1.672	1.027	11.462	11.38193
6079	475859.21	3849247.08	2.12447	11.64741	0.57921	0.87647	1.711	1.023	11.716	11.64741
6080	475769.16	3849232.77	2.2214	12.12031	0.53155	0.89282	1.749	1.011	12.172	12.12031
6081	475585.22	3849219.27	2.02638	11.47754	0.36052	0.97574	1.86	0.932	11.552	11.47754
6082	475444.49	3849150.34	2.71417	14.80565	0.4157	0.93874	1.861	0.941	14.862	14.80565
6083	475334.17	3849118.71	2.71052	14.62984	0.44791	0.92419	1.853	0.915	14.714	14.62984
6084	475230.46	3849060.57	2.74685	15.22652	0.45439	0.91482	1.837	0.899	15.306	15.22652
6085	475110.86	3848960.97	2.43918	14.71568	0.43284	0.90263	1.81	0.891	14.862	14.71568
6086	475037.79	3848896.28	2.50058	12.75351	0.41249	0.90186	1.795	0.885	12.87	12.75351
6087	474964.72	3848831.59	2.57459	13.01017	0.39438	0.90076	1.775	0.877	13.378	13.01017
6088	474891.65	3848766.9	2.53846	13.15594	0.38246	0.8919	1.751	0.87	13.518	13.15594
6089	474818.58	3848702.22	2.4884	13.08985	0.3731	0.88069	1.724	0.864	13.446	13.08985
6090	474745.51	3848637.53	2.29145	12.15371	0.37463	0.84881	1.686	0.859	12.487	12.15371
6091	474672.44	3848572.84	2.12552	11.96825	0.37219	0.83291	1.656	0.849	12.29	11.96825
6092	474599.37	3848508.15	2.11353	12.48449	0.35763	0.82589	1.632	0.844	12.808	12.48449
6093	474526.3	3848443.46	2.07569	12.56153	0.3502	0.81453	1.608	0.836	12.88	12.56153

33.8683281	23.38990998	9.459E-05	0.080785	0.871055	0.30278	93.79204	8.61E+01	6.62E+01
33.1424507	23.2146552	9.74E-05	0.078904	0.852697	0.28981	92.96376	8.55E+01	6.51E+01
32.4239814	23.618781	9.98E-05	0.077055	0.833954	0.27314	94.44892	8.70E+01	6.47E+01
31.4364251	23.26635065	0.0001031	0.074402	0.816506	0.25466	92.93556	8.57E+01	6.31E+01
29.9540995	22.32484335	0.0001072	0.071198	0.800351	0.2353	89.11669	8.22E+01	6.03E+01
28.3436472	21.52462586	0.0001113	0.067974	0.784778	0.21539	85.77779	7.92E+01	5.75E+01
27.6519927	20.56034597	0.0001159	0.06483	0.769018	0.19656	81.69655	7.57E+01	5.52E+01
27.8091252	20.04629115	0.0001202	0.061794	0.755509	0.17886	79.47352	7.38E+01	5.45E+01
28.011749	20.42659161	0.0001231	0.059006	0.745844	0.16151	80.87599	7.52E+01	5.51E+01
28.0810293	22.3466186	0.0001236	0.057295	0.732452	0.14376	88.42559	8.23E+01	5.75E+01
27.4770184	22.68107837	0.0001263	0.055081	0.635747	0.13215	89.53501	8.35E+01	5.70E+01
26.470577	22.69954763	0.0001296	0.052882	0.615808	0.12281	89.56541	8.36E+01	5.60E+01
25.7154851	22.84111448	0.0001326	0.050686	0.594233	0.11439	89.98054	8.41E+01	5.52E+01
25.2685024	22.77963033	0.0001362	0.04867	0.581563	0.10769	89.63371	8.39E+01	5.46E+01
24.9499594	22.66135321	0.00014	0.046883	0.573296	0.1059	89.02026	8.34E+01	5.39E+01
24.7686205	22.85540969	0.0001429	0.044928	0.557976	0.10378	89.74694	8.41E+01	5.39E+01
24.4706321	22.92660867	0.0001466	0.043278	0.547341	0.10198	89.93101	8.44E+01	5.36E+01
24.1737913	22.91462212	0.0001502	0.04196	0.540368	0.10055	89.78229	8.44E+01	5.32E+01
23.8958357	22.80282771	0.0001536	0.04085	0.535801	0.09954	89.34746	8.40E+01	5.28E+01
23.3105013	21.80199716	0.0001604	0.041244	0.565737	0.10163	85.26615	8.03E+01	5.08E+01
23.1465868	21.45505217	0.0001639	0.040701	0.573291	0.10212	83.86311	7.90E+01	5.02E+01
22.9987402	20.6844409	0.000167	0.040336	0.586468	0.10315	80.75214	7.62E+01	4.90E+01
22.9596136	20.39565561	0.0001686	0.03987	0.591401	0.10374	79.55578	7.51E+01	4.86E+01
22.9245561	20.05159182	0.0001696	0.039472	0.596972	0.10456	78.10732	7.38E+01	4.80E+01
22.7437389	19.48292341	0.00017	0.039187	0.640581	0.10573	75.77878	7.17E+01	4.71E+01
22.4175793	19.26397037	0.0001695	0.038881	0.606697	0.10679	74.82099	7.09E+01	4.63E+01
22.108218	18.92330493	0.0001684	0.03865	0.610069	0.10836	73.39392	6.97E+01	4.55E+01
21.8931781	18.51938229	0.0001663	0.038468	0.61337	0.11019	71.73396	6.82E+01	4.47E+01
21.6548708	17.93449786	0.000164	0.038355	0.617717	0.11216	69.36738	6.60E+01	4.37E+01
21.4986772	17.71089057	0.0001614	0.038273	0.61948	0.11385	68.41972	6.52E+01	4.32E+01
21.4291883	18.1686511	0.0001573	0.038279	0.617304	0.11493	70.10936	6.69E+01	4.36E+01
21.0764226	17.76882863	0.0001491	0.038375	0.624042	0.11865	68.52295	6.54E+01	4.27E+01
20.8767203	17.46829689	0.0001449	0.038442	0.629004	0.12072	67.31199	6.43E+01	4.21E+01
20.8931013	17.57124452	0.00014	0.038494	0.632047	0.12233	67.65726	6.47E+01	4.22E+01
21.2004801	18.23355207	0.0001346	0.038546	0.634373	0.12371	70.1569	6.71E+01	4.33E+01
21.9868733	20.69823744	0.0001217	0.039281	0.646124	0.12717	79.88369	7.62E+01	4.72E+01
21.3830711	19.77425746	0.0001069	0.040858	0.686887	0.13525	76.60416	7.28E+01	4.58E+01
21.364186	20.06682896	8.574E-05	0.042793	0.735931	0.14209	77.6732	7.39E+01	4.61E+01
21.4274146	19.85964084	7.608E-05	0.043607	0.757014	0.14363	76.81566	7.31E+01	4.59E+01
21.8423656	21.02157872	6.622E-05	0.045426	0.784188	0.14453	81.2146	7.74E+01	4.77E+01
22.1662298	21.51190054	6.03E-05	0.046167	0.802424	0.1439	83.01343	7.92E+01	4.85E+01
23.1775751	22.38531169	5.534E-05	0.047028	0.820144	0.1422	86.2462	8.24E+01	5.04E+01
21.1427814	21.19816328	3.753E-05	0.051396	0.872405	0.13116	81.85044	7.80E+01	4.72E+01
28.3190235	27.34493508	4.328E-05	0.049447	0.872748	0.13233	105.3053	1.01E+02	6.13E+01
28.2809403	27.02022708	4.663E-05	0.048681	0.8691	0.12875	104.2557	9.95E+01	6.11E+01
28.6599991	28.12225069	4.73E-05	0.048187	0.861601	0.12653	108.4475	1.04E+02	6.27E+01
25.4498413	27.17876718	4.506E-05	0.047545	0.84873	0.12536	105.3026	1.00E+02	5.89E+01
26.0904748	23.55478503	4.294E-05	0.047505	0.841551	0.12454	91.18753	8.67E+01	5.51E+01
26.862678	24.02881697	4.106E-05	0.047447	0.832397	0.12338	94.78484	8.85E+01	5.82E+01
26.4857059	24.29804333	3.982E-05	0.04698	0.820848	0.12243	95.7787	8.95E+01	5.81E+01
25.9633914	24.17598001	3.884E-05	0.04639	0.80836	0.12157	95.27281	8.90E+01	5.74E+01
23.9084606	22.44699901	3.9E-05	0.04471	0.790771	0.12079	88.47511	8.26E+01	5.31E+01
22.1771853	22.10446818	3.875E-05	0.043873	0.776732	0.1195	87.07901	8.14E+01	5.09E+01
22.0520844	23.05792509	3.723E-05	0.043503	0.76537	0.1187	90.74796	8.49E+01	5.19E+01
21.6572705	23.20021224	3.646E-05	0.042905	0.754116	0.11759	91.25725	8.54E+01	5.16E+01

NOx
1hr 1st
Concentration [ug/m^3] at 1 g/s

	X	Y	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex Ma
1	485973.61	3854936.51	5.37511	2.2777	3.77889	3.8919	9.037	2.181	2.6246	2.2777
2	486023.61	3854936.51	5.28668	2.24631	3.67521	3.7277	8.499	2.101	2.5461	2.24631
3	486073.61	3854936.51	5.06475	2.21196	3.57648	3.58835	8.112	2.043	2.4803	2.21196
4	486123.61	3854936.51	4.92576	2.19845	3.54287	3.39736	7.335	1.932	2.4211	2.19845
5	486173.61	3854936.51	4.88452	2.21969	3.59139	3.3062	7.077	1.909	2.4393	2.21969
6	486223.61	3854936.51	4.78707	2.22189	3.49324	3.16422	6.503	1.834	2.4187	2.22189
7	486273.61	3854936.51	4.70859	2.21741	3.37293	3.05024	6.933	1.777	2.4095	2.21741
8	486323.61	3854936.51	4.63817	2.2219	3.45756	2.94747	7.353	1.728	2.4133	2.2219
9	485973.61	3854986.51	5.48931	2.27902	3.7621	4.23154	9.885	2.376	2.7276	2.27902
10	486023.61	3854986.51	5.40367	2.26907	3.62023	4.08277	9.416	2.276	2.67	2.26907
11	486073.61	3854986.51	5.31529	2.24108	3.52367	3.92823	8.878	2.182	2.5952	2.24108
12	486123.61	3854986.51	5.22765	2.20492	3.43598	3.77659	8.34	2.099	2.5182	2.20492
13	486173.61	3854986.51	5.03014	2.18299	3.35373	3.6564	7.966	2.048	2.4786	2.18299
14	486223.61	3854986.51	4.93183	2.18946	3.30656	3.51011	7.298	1.968	2.4554	2.18946
15	486273.61	3854986.51	4.82176	2.19167	3.35825	3.35691	6.976	1.877	2.4333	2.19167
16	486323.61	3854986.51	4.79477	2.20297	3.44437	3.28897	7.75	1.867	2.4705	2.20297
17	485973.61	3855036.51	5.60272	2.25698	3.70536	4.34774	10.82	2.604	2.7512	2.25698
18	486023.61	3855036.51	5.51499	2.26087	3.64686	4.19686	10.27	2.492	2.6963	2.26087
19	486073.61	3855036.51	5.42305	2.2445	3.51927	4.04115	9.64	2.358	2.6286	2.2445
20	486123.61	3855036.51	5.33475	2.22501	3.34354	3.91237	9.143	2.253	2.568	2.22501
21	486173.61	3855036.51	5.26441	2.20773	3.45484	3.80988	8.823	2.188	2.5251	2.20773
22	486223.61	3855036.51	5.05443	2.16082	3.5001	3.66657	8.08	2.092	2.4405	2.16082
23	486273.61	3855036.51	4.99568	2.16521	3.58035	3.57912	7.736	2.054	2.4406	2.16521
24	486323.61	3855036.51	4.90638	2.17151	3.54427	3.45996	7.871	1.981	2.4382	2.17151
25	485973.61	3855086.51	5.71725	2.20488	4.01989	4.68814	11.71	2.721	2.7662	2.20488
26	486023.61	3855086.51	5.62425	2.23006	3.89579	4.45333	11.21	2.627	2.6984	2.23006
27	486073.61	3855086.51	5.53402	2.23032	3.75146	4.1933	10.54	2.492	2.6181	2.23032
28	486123.61	3855086.51	5.44771	2.23458	3.97055	4.00656	10.18	2.409	2.5726	2.23458
29	486173.61	3855086.51	5.36562	2.2153	4.01644	3.834	9.574	2.297	2.5009	2.2153
30	486223.61	3855086.51	5.29335	2.19679	3.98574	3.69303	9.119	2.221	2.456	2.19679
31	485973.61	3855136.51	5.80309	2.14027	4.20786	5.10735	12.8	2.901	2.9896	2.14027
32	486023.61	3855136.51	5.71083	2.173	4.33743	4.92048	12.15	2.758	2.8401	2.173
33	486073.61	3855136.51	5.64102	2.19438	4.47764	4.71101	11.53	2.625	2.7215	2.19438
34	486123.61	3855136.51	5.55222	2.20943	4.48459	4.4702	11.08	2.512	2.6485	2.20943
35	486173.61	3855136.51	5.47281	2.21105	4.39064	4.22978	10.56	2.396	2.5666	2.21105
36	486223.61	3855136.51	5.39629	2.20415	4.28142	4.00534	10.07	2.292	2.5041	2.20415
37	485973.61	3855186.51	5.86865	2.083	4.55273	5.52346	14	3.081	3.1828	2.083
38	486023.61	3855186.51	5.78383	2.10256	4.75913	5.26028	13.27	3.024	3.0989	2.10256
39	486073.61	3855186.51	5.71997	2.13249	4.82742	5.07312	12.5	2.878	2.9533	2.13249
40	486123.61	3855186.51	5.67013	2.15362	4.74831	4.94419	11.83	2.724	2.8099	2.15362
41	486173.61	3855186.51	5.58622	2.17283	4.53822	4.70411	11.38	2.591	2.6964	2.17283
42	486223.61	3855186.51	5.49959	2.18243	4.35998	4.46838	10.92	2.464	2.6211	2.18243
43	486273.61	3855186.51	5.41708	2.17815	4.20975	4.23172	10.34	2.337	2.5381	2.17815
44	486323.61	3855186.51	5.35042	2.19257	4.19605	4.0823	10.3	2.297	2.5155	2.19257
45	485973.61	3855236.51	5.92348	2.02647	5.22734	5.86047	15.13	3.26	3.1967	2.02647
46	486023.61	3855236.51	5.86864	2.04689	5.21424	5.58952	14.26	3.119	3.1485	2.04689
47	486073.61	3855236.51	5.8159	2.06079	4.92596	5.34634	13.41	3.108	3.1446	2.06079
48	486123.61	3855236.51	5.76486	2.08506	4.78338	5.16162	12.77	2.967	3.0446	2.08506
49	486173.61	3855236.51	5.70363	2.11676	4.57892	5.09135	12.26	2.832	2.9419	2.11676
50	486223.61	3855236.51	5.62963	2.13736	4.25384	4.91581	11.77	2.693	2.8284	2.13736
51	486273.61	3855236.51	5.53681	2.13689	3.92973	4.71038	10.95	2.524	2.6858	2.13689
52	486323.61	3855236.51	5.46213	2.17727	3.88735	4.50384	11.26	2.5	2.6799	2.17727
53	485973.61	3855286.51	6.01105	1.95321	6.01399	6.04613	16.04	3.448	3.2404	1.95321

Rates (g/s): 6.97E+00 1.85E+00 1.04E-04 3.52E-02 3.13E-01 9.40E-02 7.09E+00 6.80E+00

Mitigated
Concentration [ug/m^3]

	Equipmen	Rail Haulir	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex	Total
1	3.75E+01	4.21E+00	3.93E-04	1.37E-01	2.83E+00	2.05E-01	1.86E+01	1.55E+01	4.80E+01
2	3.69E+01	4.15E+00	3.83E-04	1.31E-01	2.66E+00	1.97E-01	1.80E+01	1.53E+01	4.68E+01
3	3.53E+01	4.09E+00	3.72E-04	1.26E-01	2.54E+00	1.92E-01	1.76E+01	1.50E+01	4.48E+01
4	3.43E+01	4.06E+00	3.69E-04	1.20E-01	2.30E+00	1.82E-01	1.72E+01	1.49E+01	4.32E+01
5	3.41E+01	4.10E+00	3.74E-04	1.16E-01	2.22E+00	1.79E-01	1.73E+01	1.51E+01	4.29E+01
6	3.34E+01	4.10E+00	3.64E-04	1.11E-01	2.04E+00	1.72E-01	1.71E+01	1.51E+01	4.18E+01
7	3.28E+01	4.10E+00	3.51E-04	1.07E-01	2.17E+00	1.67E-01	1.71E+01	1.51E+01	4.14E+01
8	3.23E+01	4.10E+00	3.60E-04	1.04E-01	2.30E+00	1.62E-01	1.71E+01	1.51E+01	4.10E+01
9	3.83E+01	4.21E+00	3.92E-04	1.49E-01	3.10E+00	2.23E-01	1.93E+01	1.55E+01	4.98E+01
10	3.77E+01	4.19E+00	3.77E-04	1.44E-01	2.95E+00	2.14E-01	1.89E+01	1.54E+01	4.87E+01
11	3.71E+01	4.14E+00	3.67E-04	1.38E-01	2.78E+00	2.05E-01	1.84E+01	1.52E+01	4.75E+01
12	3.64E+01	4.07E+00	3.58E-04	1.33E-01	2.61E+00	1.97E-01	1.78E+01	1.50E+01	4.63E+01
13	3.51E+01	4.03E+00	3.49E-04	1.29E-01	2.50E+00	1.93E-01	1.76E+01	1.48E+01	4.46E+01
14	3.44E+01	4.04E+00	3.44E-04	1.24E-01	2.29E+00	1.85E-01	1.74E+01	1.49E+01	4.35E+01
15	3.36E+01	4.05E+00	3.50E-04	1.18E-01	2.19E+00	1.76E-01	1.72E+01	1.49E+01	4.25E+01
16	3.34E+01	4.07E+00	3.59E-04	1.16E-01	2.43E+00	1.76E-01	1.75E+01	1.50E+01	4.27E+01
17	3.91E+01	4.17E+00	3.86E-04	1.53E-01	3.39E+00	2.45E-01	1.95E+01	1.53E+01	5.12E+01
18	3.84E+01	4.18E+00	3.80E-04	1.48E-01	3.22E+00	2.34E-01	1.91E+01	1.54E+01	5.00E+01
19	3.78E+01	4.15E+00	3.66E-04	1.42E-01	3.02E+00	2.22E-01	1.86E+01	1.53E+01	4.87E+01
20	3.72E+01	4.11E+00	3.48E-04	1.38E-01	2.86E+00	2.12E-01	1.82E+01	1.51E+01	4.76E+01
21	3.67E+01	4.08E+00	3.60E-04	1.34E-01	2.76E+00	2.06E-01	1.79E+01	1.50E+01	4.68E+01
22	3.52E+01	3.99E+00	3.64E-04	1.29E-01	2.53E+00	1.97E-01	1.73E+01	1.47E+01	4.47E+01
23	3.48E+01	4.00E+00	3.73E-04	1.26E-01	2.42E+00	1.93E-01	1.73E+01	1.47E+01	4.41E+01
24	3.42E+01	4.01E+00	3.69E-04	1.22E-01	2.47E+00	1.86E-01	1.73E+01	1.48E+01	4.35E+01
25	3.99E+01	4.07E+00	4.18E-04	1.65E-01	3.67E+00	2.56E-01	1.96E+01	1.50E+01	5.26E+01
26	3.92E+01	4.12E+00	4.06E-04	1.57E-01	3.51E+00	2.47E-01	1.91E+01	1.52E+01	5.12E+01
27	3.86E+01	4.12E+00	3.91E-04	1.48E-01	3.30E+00	2.34E-01	1.85E+01	1.52E+01	4.98E+01
28	3.80E+01	4.13E+00	4.13E-04	1.41E-01	3.19E+00	2.26E-01	1.82E+01	1.52E+01	4.87E+01
29	3.74E+01	4.09E+00	4.18E-04	1.35E-01	3.00E+00	2.16E-01	1.77E+01	1.51E+01	4.75E+01
30	3.69E+01	4.06E+00	4.15E-04	1.30E-01	2.86E+00	2.09E-01	1.74E+01	1.49E+01	4.66E+01
31	4.05E+01	3.95E+00	4.38E-04	1.80E-01	4.01E+00	2.73E-01	2.12E+01	1.46E+01	5.55E+01
32	3.98E+01	4.01E+00	4.52E-04	1.73E-01	3.81E+00	2.59E-01	2.01E+01	1.48E+01	5.34E+01
33	3.93E+01	4.05E+00	4.66E-04	1.66E-01	3.61E+00	2.47E-01	1.93E+01	1.49E+01	5.18E+01
34	3.87E+01	4.08E+00	4.67E-04	1.57E-01	3.47E+00	2.36E-01	1.88E+01	1.50E+01	5.04E+01
35	3.82E+01	4.08E+00	4.57E-04	1.49E-01	3.31E+00	2.25E-01	1.82E+01	1.50E+01	4.91E+01
36	3.76E+01	4.07E+00	4.46E-04	1.41E-01	3.15E+00	2.15E-01	1.77E+01	1.50E+01	4.80E+01
37	4.09E+01	3.85E+00	4.74E-04	1.94E-01	4.39E+00	2.90E-01	2.26E+01	1.42E+01	5.80E+01
38	4.03E+01	3.88E+00	4.95E-04	1.85E-01	4.16E+00	2.84E-01	2.20E+01	1.43E+01	5.65E+01
39	3.99E+01	3.94E+00	5.03E-04	1.79E-01	3.92E+00	2.71E-01	2.09E+01	1.45E+01	5.46E+01
40	3.95E+01	3.98E+00	4.94E-04	1.74E-01	3.71E+00	2.56E-01	1.99E+01	1.46E+01	5.29E+01
41	3.89E+01	4.01E+00	4.72E-04	1.66E-01	3.57E+00	2.44E-01	1.91E+01	1.48E+01	5.13E+01
42	3.83E+01	4.03E+00	4.54E-04	1.57E-01	3.42E+00	2.32E-01	1.86E+01	1.48E+01	4.99E+01
43	3.78E+01	4.02E+00	4.38E-04	1.49E-01	3.24E+00	2.20E-01	1.80E+01	1.48E+01	4.86E+01
44	3.73E+01	4.05E+00	4.37E-04	1.44E-01	3.23E+00	2.16E-01	1.78E+01	1.49E+01	4.79E+01
45	4.13E+01	3.74E+00	5.44E-04	2.06E-01	4.74E+00	3.06E-01	2.26E+01	1.38E+01	5.92E+01
46	4.09E+01	3.78E+00	5.43E-04	1.97E-01	4.47E+00	2.93E-01	2.23E+01	1.39E+01	5.80E+01
47	4.05E+01	3.81E+00	5.13E-04	1.88E-01	4.20E+00	2.92E-01	2.23E+01	1.40E+01	5.73E+01
48	4.02E+01	3.85E+00	4.98E-04	1.82E-01	4.00E+00	2.79E-01	2.16E+01	1.42E+01	5.59E+01
49	3.98E+01	3.91E+00	4.77E-04	1.79E-01	3.84E+00	2.66E-01	2.08E+01	1.44E+01	5.44E+01
50	3.92E+01	3.95E+00	4.43E-04	1.73E-01	3.69E+00	2.53E-01	2.00E+01	1.45E+01	5.28E+01
51	3.86E+01	3.95E+00	4.09E-04	1.66E-01	3.43E+00	2.37E-01	1.90E+01	1.45E+01	5.09E+01
52	3.81E+01	4.02E+00	4.05E-04	1.59E-01	3.53E+00	2.35E-01	1.90E+01	1.48E+01	5.02E+01
53	4.19E+01	3.61E+00	6.26E-04	2.13E-01	5.03E+00	3.24E-01	2.30E+01	1.33E+01	6.08E+01

54	486023.61	3855286.51	5.97086	1.98353	5.65841	5.74356	15.4	3.273	3.1253	1.98353	4.16E+01	3.66E+00	5.89E-04	2.02E-01	4.83E+00	3.08E-01	2.21E+01	1.35E+01	5.93E+01
55	486073.61	3855286.51	5.9117	2.00852	5.35352	5.53622	14.47	3.139	3.0889	2.00852	4.12E+01	3.71E+00	5.57E-04	1.95E-01	4.53E+00	2.95E-01	2.19E+01	1.37E+01	5.82E+01
56	486123.61	3855286.51	5.88509	2.02558	4.91461	5.33646	13.73	3.149	3.1575	2.02558	4.10E+01	3.74E+00	5.12E-04	1.88E-01	4.30E+00	2.96E-01	2.24E+01	1.38E+01	5.82E+01
57	486173.61	3855286.51	5.84045	2.03721	4.42978	5.17942	13.05	3.023	3.0822	2.03721	4.07E+01	3.76E+00	4.61E-04	1.82E-01	4.09E+00	2.84E-01	2.18E+01	1.39E+01	5.70E+01
58	486223.61	3855286.51	5.77695	2.07331	4.09223	5.1216	12.61	2.903	3.0056	2.07331	4.03E+01	3.83E+00	4.26E-04	1.80E-01	3.95E+00	2.73E-01	2.13E+01	1.41E+01	5.57E+01
59	486123.61	3855336.51	6.01069	1.967	4.88868	5.37485	14.63	3.149	3.0383	1.967	4.19E+01	3.63E+00	5.09E-04	1.89E-01	4.59E+00	2.96E-01	2.15E+01	1.34E+01	5.88E+01
60	486173.61	3855336.51	5.96345	1.99002	4.61726	5.23603	14.1	3.129	3.0982	1.99002	4.16E+01	3.68E+00	4.81E-04	1.84E-01	4.42E+00	2.94E-01	2.20E+01	1.35E+01	5.86E+01
61	486223.61	3855336.51	5.91498	2.00794	4.29517	5.09025	13.51	3.047	3.0519	2.00794	4.12E+01	3.71E+00	4.47E-04	1.79E-01	4.23E+00	2.86E-01	2.16E+01	1.37E+01	5.76E+01
62	486123.61	3855386.51	6.11921	1.89567	5.05682	5.38518	15.89	3.211	2.9457	1.89567	4.27E+01	3.50E+00	5.26E-04	1.90E-01	4.98E+00	3.02E-01	2.09E+01	1.29E+01	5.96E+01
63	486173.61	3855386.51	6.08052	1.92971	4.75716	5.22228	15.06	3.113	2.9334	1.92971	4.24E+01	3.56E+00	4.95E-04	1.84E-01	4.72E+00	2.93E-01	2.08E+01	1.31E+01	5.88E+01
64	486223.61	3855386.51	6.03121	1.95742	4.58908	5.05668	14.57	3.063	2.9395	1.95742	4.20E+01	3.62E+00	4.78E-04	1.78E-01	4.57E+00	2.88E-01	2.08E+01	1.33E+01	5.82E+01
65	486533.18	3855443.15	5.76685	2.05405	4.35204	4.48339	13.27	2.701	2.7316	2.05405	4.02E+01	3.79E+00	4.53E-04	1.58E-01	4.16E+00	2.54E-01	1.94E+01	1.40E+01	5.40E+01
66	486583.18	3855443.15	5.70105	2.06836	4.19891	4.4338	13.32	2.63	2.6994	2.06836	3.97E+01	3.82E+00	4.37E-04	1.56E-01	4.17E+00	2.47E-01	1.91E+01	1.41E+01	5.32E+01
67	486633.18	3855443.15	5.62079	2.07414	4.11494	4.34923	13.5	2.557	2.6551	2.07414	3.92E+01	3.83E+00	4.28E-04	1.53E-01	4.23E+00	2.40E-01	1.88E+01	1.41E+01	5.24E+01
68	486683.18	3855443.15	5.54247	2.07623	4.05081	4.26398	13.72	2.491	2.6065	2.07623	3.86E+01	3.83E+00	4.22E-04	1.50E-01	4.30E+00	2.34E-01	1.85E+01	1.41E+01	5.15E+01
69	486533.18	3855493.15	5.8863	1.99195	4.58093	4.37334	14.3	2.725	2.6446	1.99195	4.10E+01	3.68E+00	4.77E-04	1.54E-01	4.48E+00	2.56E-01	1.87E+01	1.35E+01	5.48E+01
70	486583.18	3855493.15	5.81886	2.02007	4.39798	4.30595	13.86	2.669	2.6264	2.02007	4.06E+01	3.73E+00	4.58E-04	1.52E-01	4.34E+00	2.51E-01	1.86E+01	1.37E+01	5.39E+01
71	486633.18	3855493.15	5.75166	2.03906	4.17336	4.27734	14.19	2.608	2.615	2.03906	4.01E+01	3.77E+00	4.34E-04	1.51E-01	4.45E+00	2.45E-01	1.85E+01	1.39E+01	5.34E+01
72	486683.18	3855493.15	5.67707	2.04971	3.97864	4.22259	14.31	2.552	2.5911	2.04971	3.96E+01	3.79E+00	4.14E-04	1.49E-01	4.48E+00	2.40E-01	1.84E+01	1.39E+01	5.27E+01
73	486533.18	3855543.15	5.9888	1.93329	4.52189	4.38667	15.46	2.715	2.5701	1.93329	4.18E+01	3.57E+00	4.71E-04	1.54E-01	4.84E+00	2.55E-01	1.82E+01	1.31E+01	5.56E+01
74	486583.18	3855543.15	5.93836	1.95078	4.3104	4.26953	14.79	2.65	2.552	1.95078	4.14E+01	3.60E+00	4.49E-04	1.50E-01	4.64E+00	2.49E-01	1.81E+01	1.33E+01	5.49E+01
75	486633.18	3855543.15	5.86757	1.98233	4.28559	4.18757	14.66	2.604	2.5333	1.98233	4.09E+01	3.66E+00	4.46E-04	1.47E-01	4.59E+00	2.45E-01	1.79E+01	1.35E+01	5.40E+01
76	486683.18	3855543.15	5.80644	1.99947	4.16736	4.1171	14.61	2.55	2.505	1.99947	4.05E+01	3.69E+00	4.34E-04	1.45E-01	4.58E+00	2.40E-01	1.77E+01	1.36E+01	5.33E+01
77	486533.18	3855593.15	6.09218	1.87932	4.84799	4.45599	16.52	2.714	2.5409	1.87932	4.25E+01	3.47E+00	5.05E-04	1.57E-01	5.18E+00	2.55E-01	1.80E+01	1.28E+01	5.68E+01
78	486583.18	3855593.15	6.0386	1.90135	4.63869	4.29811	15.92	2.649	2.5084	1.90135	4.21E+01	3.51E+00	4.83E-04	1.51E-01	4.99E+00	2.49E-01	1.78E+01	1.29E+01	5.58E+01
79	486633.18	3855593.15	5.9749	1.91483	4.42404	4.16466	15.39	2.59	2.4808	1.91483	4.17E+01	3.54E+00	4.61E-04	1.47E-01	4.82E+00	2.43E-01	1.76E+01	1.30E+01	5.50E+01
80	486683.18	3855593.15	5.90046	1.94607	4.29983	4.08139	15.57	2.535	2.4682	1.94607	4.11E+01	3.59E+00	4.48E-04	1.44E-01	4.88E+00	2.38E-01	1.75E+01	1.32E+01	5.42E+01
81	486533.18	3855643.15	6.18121	1.81914	5.02382	4.62662	17.75	2.752	2.5796	1.81914	4.31E+01	3.36E+00	5.23E-04	1.63E-01	5.56E+00	2.59E-01	1.83E+01	1.24E+01	5.83E+01
82	486583.18	3855643.15	6.12616	1.84591	4.86676	4.42977	17.12	2.67	2.5097	1.84591	4.27E+01	3.41E+00	5.07E-04	1.56E-01	5.36E+00	2.51E-01	1.78E+01	1.26E+01	5.71E+01
83	486633.18	3855643.15	6.06613	1.87078	4.68764	4.26106	16.58	2.597	2.4661	1.87078	4.23E+01	3.46E+00	4.88E-04	1.50E-01	5.19E+00	2.44E-01	1.75E+01	1.27E+01	5.61E+01
84	486683.18	3855643.15	5.99675	1.8884	4.59784	4.13386	16.11	2.543	2.4289	1.8884	4.18E+01	3.49E+00	4.79E-04	1.45E-01	5.05E+00	2.39E-01	1.72E+01	1.28E+01	5.51E+01
85	486533.18	3855693.15	6.24195	1.75135	5.45425	4.82293	19.16	2.84	2.6096	1.75135	4.35E+01	3.23E+00	5.68E-04	1.70E-01	6.00E+00	2.67E-01	1.85E+01	1.19E+01	5.98E+01
86	486583.18	3855693.15	6.21487	1.78252	5.11634	4.60064	18.33	2.713	2.5513	1.78252	4.33E+01	3.29E+00	5.33E-04	1.62E-01	5.74E+00	2.55E-01	1.81E+01	1.21E+01	5.87E+01
87	486633.18	3855693.15	6.17875	1.80845	4.78838	4.38629	17.28	2.587	2.5043	1.80845	4.31E+01	3.34E+00	4.98E-04	1.54E-01	5.41E+00	2.43E-01	1.77E+01	1.23E+01	5.77E+01
88	486683.18	3855693.15	6.08391	1.83813	4.61353	4.24861	17.19	2.547	2.4454	1.83813	4.24E+01	3.39E+00	4.80E-04	1.50E-01	5.39E+00	2.39E-01	1.73E+01	1.25E+01	5.64E+01
89	486733.18	3855693.15	5.97098	1.86695	4.51905	4.13953	17.76	2.539	2.3837	1.86695	4.16E+01	3.45E+00	4.70E-04	1.46E-01	5.57E+00	2.39E-01	1.69E+01	1.27E+01	5.52E+01
90	486783.18	3855693.15	5.85028	1.88797	4.4614	4.07573	18.89	2.546	2.3452	1.88797	4.08E+01	3.49E+00	4.64E-04	1.43E-01	5.92E+00	2.39E-01	1.66E+01	1.28E+01	5.44E+01
91	486533.18	3855743.15	6.31043	1.67363	5.25129	4.95244	20.38	2.911	2.6481	1.67363	4.40E+01	3.09E+00	5.47E-04	1.74E-01	6.39E+00	2.74E-01	1.88E+01	1.14E+01	6.13E+01
92	486583.18	3855743.15	6.30897	1.70827	4.80268	4.71451	19.39	2.751	2.5643	1.70827	4.40E+01	3.16E+00	5.00E-04	1.66E-01	6.07E+00	2.59E-01	1.82E+01	1.16E+01	6.02E+01
93	486633.18	3855743.15	6.25472	1.74318	4.49293	4.53279	18.64	2.646	2.5037	1.74318	4.36E+01	3.22E+00	4.68E-04	1.60E-01	5.84E+00	2.49E-01	1.77E+01	1.19E+01	5.90E+01
94	486683.18	3855743.15	6.14061	1.78079	4.41382	4.4222	18.57	2.62	2.473	1.78079	4.28E+01	3.29E+00	4.60E-04	1.56E-01	5.82E+00	2.46E-01	1.75E+01	1.21E+01	5.77E+01
95	486733.18	3855743.15	6.04756	1.8101	4.30728	4.29042	18.4	2.568	2.4341	1.8101	4.22E+01	3.34E+00	4.48E-04	1.51E-01	5.76E+00	2.41E-01	1.72E+01	1.23E+01	5.66E+01
96	486783.18	3855743.15	5.90453	1.84449	4.40859	4.21612	19.79	2.586	2.3993	1.84449	4.12E+01	3.41E+00	4.59E-04	1.48E-01	6.20E+00	2.43E-01	1.70E+01	1.25E+01	5.56E+01
97	486533.18	3855793.15	6.36451	1.59242	4.97131	5.05189	21.52	2.982	2.7276	1.59242	4.44E+01	2.94E+00	5.18E-04	1.78E-01	6.74E+00	2.80E-01	1.93E+01	1.08E+01	6.30E+01
98	486583.18	3855793.15	6.40877	1.62752	4.60064	4.75924	20.26	2.789	2.5947	1.62752	4.47E+01	3.01E+00	4.79E-04	1.68E-01	6.35E+00	2.62E-01	1.84E+01	1.11E+01	6.18E+01
99	486633.18	3855793.15	6.29145	1.67382	4.57258	4.66856	20.34	2.739	2.5527	1.67382	4.39E+01	3.09E+00	4.76E-04	1.64E-01	6.37E+00	2.57E-01	1.81E+01	1.14E+01	6.05E+01
100	486683.18	3855793.15	6.17078	1.71747	4.5677	4.57689	20.31	2.707	2.5152	1.71747	4.30E+01	3.17E+00	4.76E-04	1.61E-01	6.36E+00	2.54E-01	1.78E+01	1.17E+01	5.91E+01
101	486733.18	3855793.15	6.06684	1.75509	4.56382	4.46266	20.12	2.664	2.4759	1.75509	4.23E+01	3.24E+00	4.75E-04	1.57E-01	6.30E+00	2.50E-01	1.75E+01	1.19E+01	5.79E+01
102	486783.18	3855793.15	5.9555	1.78802	4.59078	4.35562	20.45	2.631	2.4398	1.78802	4.15E+01	3.30E+00	4.78E-04	1.53E-01	6.41E+00	2.47E-01	1.73E+01	1.22E+01	5.68E+01
103	486533.18	3855843.15	6.45299	1.50971	5.19523	5.29796	22.15	2.998	2.8065	1.50971	4.50E+01	2.79E+00	5.41E-04	1.86E-01	6.94E+00	2.82E-01	1.99E+01	1.03E+01	6.48E+01
104	486583.18	3855843.15	6.45344	1.54987	5.01295	4.85126	21.56	2.848	2.6485	1.54987	4.50E+01	2.86E+00	5.22E-04	1.71E-01	6.75E+00	2.68E-01	1.88E+01	1.05E+01	6.33E+01
105	486633.18	3855843.15	6.32828	1.59766	5.04806	4.75543	21.84	2.81	2.5978	1.59766	4.41E+01	2.95E+00	5.26E-04	1.67E-01	6.84E+00	2.64E-01	1.84E+01	1.09E+01	6.19E+01
106	486683.18	3855843.15	6.20427	1.64353	5.06594	4.67776	21.93	2.77	2.5546	1.64353	4.33E+01	3.04E+00	5.27E-04	1.65E-01	6.87E+00	2.60E-01	1.81E+01	1.12E+01	6.05E+01
107	486733.18	3855843.15	6.08423	1.68708	5.06391	4.59076	21.81	2.74	2.5163	1.68708	4.24E+01	3.12E+00	5.27E-04	1.62E-01	6.83E+00	2.58E-01	1.78E+01	1.15E+01	5.91E+01
108	486783.18	3855843.15	5.9748	1.72594	5.03312	4.48903	21.71	2.701	2.4794	1.72594	4.17E+01	3.19E+00	5.24E-04	1.58E-01	6.80E+00	2.54E-01	1.76E+01	1.17E+01	5.79E+01
109	486533.18	3855893.15	6.59078	1.45128	5.72462	5.8692	22.47	3.141	2.9839	1.45128	4.59E+01	2.68E+00	5.96E-04	2.07E-01	7.04E+00	2.95E-01	2.11E+01	9.87E+00	6.74E+01
110	486583.18	3855893.15	6.46853	1.47399	5.63181	5.39925	22.84	2.949	2.8261	1.47399	4.51E+01	2.72E+00	5.86E-04	1.90E-01	7.16E+00	2.77E-01	2.00E+01	1.00E+01	6.54E+01

111	486633.18	3855893.15	6.35419	1.51949	5.514	4.97254	23.21	2.862	2.679	1.51949	4.43E+01	2.81E+00	5.74E-04	1.75E-01	7.27E+00	2.69E-01	1.90E+01	1.03E+01	6.35E+01
112	486683.18	3855893.15	6.2272	1.56589	5.41915	4.76062	23.52	2.828	2.6004	1.56589	4.34E+01	2.89E+00	5.64E-04	1.68E-01	7.37E+00	2.66E-01	1.84E+01	1.06E+01	6.19E+01
113	486733.18	3855893.15	6.1157	1.61124	5.31895	4.67949	23.52	2.795	2.5543	1.61124	4.26E+01	2.98E+00	5.54E-04	1.65E-01	7.37E+00	2.63E-01	1.81E+01	1.10E+01	6.06E+01
114	486783.18	3855893.15	5.99918	1.65369	5.24478	4.60396	23.45	2.776	2.5166	1.65369	4.18E+01	3.05E+00	5.46E-04	1.62E-01	7.35E+00	2.61E-01	1.78E+01	1.12E+01	5.92E+01
115	486533.18	3855943.15	6.66282	1.40265	5.86224	6.55794	24.07	3.438	3.2333	1.40265	4.65E+01	2.59E+00	6.10E-04	2.31E-01	7.54E+00	3.23E-01	2.29E+01	9.54E+00	7.05E+01
116	486583.18	3855943.15	6.49057	1.4236	5.89428	6.13179	23.86	3.266	3.0799	1.4236	4.53E+01	2.63E+00	6.14E-04	2.16E-01	7.48E+00	3.07E-01	2.18E+01	9.68E+00	6.80E+01
117	486633.18	3855943.15	6.38829	1.44567	5.80273	5.63397	24.45	3.065	2.9107	1.44567	4.45E+01	2.67E+00	6.04E-04	1.98E-01	7.66E+00	2.88E-01	2.06E+01	9.83E+00	6.61E+01
118	486683.18	3855943.15	6.25865	1.48719	5.79064	5.24225	25.19	2.901	2.7818	1.48719	4.36E+01	2.75E+00	6.03E-04	1.85E-01	7.89E+00	2.73E-01	1.97E+01	1.01E+01	6.43E+01
119	486733.18	3855943.15	6.15944	1.53147	5.7378	4.86518	25.28	2.842	2.646	1.53147	4.29E+01	2.83E+00	5.97E-04	1.71E-01	7.92E+00	2.67E-01	1.87E+01	1.04E+01	6.25E+01
120	486783.18	3855943.15	6.0377	1.57586	5.72662	4.70559	25.39	2.832	2.5649	1.57586	4.21E+01	2.91E+00	5.96E-04	1.66E-01	7.96E+00	2.66E-01	1.82E+01	1.07E+01	6.08E+01
121	486533.18	3855993.15	6.74125	1.35396	6.2906	7.28995	25.62	3.793	3.5657	1.35396	4.70E+01	2.50E+00	6.55E-04	2.57E-01	8.03E+00	3.56E-01	2.53E+01	9.21E+00	7.42E+01
122	486583.18	3855993.15	6.60113	1.37581	6.18962	6.8027	25.48	3.558	3.3224	1.37581	4.60E+01	2.54E+00	6.44E-04	2.39E-01	7.98E+00	3.34E-01	2.35E+01	9.36E+00	7.13E+01
123	486633.18	3855993.15	6.47805	1.39726	6.07394	6.3253	25.46	3.364	3.1444	1.39726	4.52E+01	2.58E+00	6.32E-04	2.23E-01	7.98E+00	3.16E-01	2.23E+01	9.50E+00	6.90E+01
124	486683.18	3855993.15	6.34893	1.41737	5.98805	5.88974	26.53	3.195	3.007	1.41737	4.43E+01	2.62E+00	6.23E-04	2.07E-01	8.31E+00	3.00E-01	2.13E+01	9.64E+00	6.74E+01
125	486733.18	3855993.15	6.24265	1.45473	5.90776	5.49491	27.04	3.017	2.8631	1.45473	4.35E+01	2.69E+00	6.15E-04	1.93E-01	8.47E+00	2.84E-01	2.03E+01	9.89E+00	6.56E+01
126	486783.18	3855993.15	6.13027	1.49793	5.83957	5.13393	27.23	2.872	2.7364	1.49793	4.27E+01	2.77E+00	6.08E-04	1.81E-01	8.53E+00	2.70E-01	1.94E+01	1.02E+01	6.37E+01
127	486533.18	3856043.15	6.85696	1.31659	5.96961	7.97279	26.51	4.121	3.894	1.31659	4.78E+01	2.43E+00	6.21E-04	2.81E-01	8.31E+00	3.87E-01	2.76E+01	8.95E+00	7.78E+01
128	486583.18	3856043.15	6.70837	1.32928	5.89213	7.47732	27.2	3.899	3.6515	1.32928	4.68E+01	2.46E+00	6.13E-04	2.63E-01	8.52E+00	3.67E-01	2.59E+01	9.04E+00	7.52E+01
129	486633.18	3856043.15	6.59687	1.35119	5.78588	6.97426	26.81	3.65	3.4135	1.35119	4.60E+01	2.50E+00	6.02E-04	2.45E-01	8.40E+00	3.43E-01	2.42E+01	9.19E+00	7.25E+01
130	486683.18	3856043.15	6.45793	1.37131	5.73377	6.54087	27.62	3.489	3.2435	1.37131	4.50E+01	2.53E+00	5.97E-04	2.30E-01	8.65E+00	3.28E-01	2.30E+01	9.32E+00	7.04E+01
131	486733.18	3856043.15	6.35517	1.39066	5.63328	6.08519	28.53	3.303	3.0888	1.39066	4.43E+01	2.57E+00	5.86E-04	2.14E-01	8.94E+00	3.10E-01	2.19E+01	9.46E+00	6.88E+01
132	486783.18	3856043.15	6.22352	1.42368	5.58819	5.72992	29.29	3.148	2.9558	1.42368	4.34E+01	2.63E+00	5.82E-04	2.02E-01	9.18E+00	2.96E-01	2.09E+01	9.68E+00	6.70E+01
133	486533.18	3856093.15	6.97542	1.30687	6.44855	8.69206	26.8	4.486	4.1619	1.30687	4.86E+01	2.41E+00	6.71E-04	3.06E-01	8.40E+00	4.22E-01	2.95E+01	8.89E+00	8.08E+01
134	486583.18	3856093.15	6.83869	1.30169	6.37752	8.11982	28.27	4.231	3.9313	1.30169	4.77E+01	2.40E+00	6.64E-04	2.86E-01	8.86E+00	3.98E-01	2.79E+01	8.85E+00	7.86E+01
135	486633.18	3856093.15	6.71308	1.305	6.29419	7.59469	28.68	3.985	3.7033	1.305	4.68E+01	2.41E+00	6.55E-04	2.67E-01	8.99E+00	3.75E-01	2.62E+01	8.87E+00	7.62E+01
136	486683.18	3856093.15	6.57676	1.32527	6.27124	7.11496	28.38	3.781	3.4849	1.32527	4.59E+01	2.45E+00	6.53E-04	2.50E-01	8.89E+00	3.55E-01	2.47E+01	9.01E+00	7.35E+01
137	486733.18	3856093.15	6.46116	1.34508	6.19683	6.65974	29.8	3.6	3.3057	1.34508	4.50E+01	2.48E+00	6.45E-04	2.34E-01	9.34E+00	3.38E-01	2.34E+01	9.15E+00	7.17E+01
138	486783.18	3856093.15	6.33481	1.36433	6.17852	6.27189	30.96	3.438	3.1705	1.36433	4.42E+01	2.52E+00	6.43E-04	2.21E-01	9.70E+00	3.23E-01	2.25E+01	9.28E+00	7.01E+01
139	486533.18	3856143.15	7.12469	1.29613	6.14967	9.63481	26.06	4.814	4.3946	1.29613	4.97E+01	2.39E+00	6.40E-04	3.39E-01	8.17E+00	4.52E-01	3.11E+01	8.81E+00	8.33E+01
140	486583.18	3856143.15	6.99149	1.2929	6.04086	8.79401	28.47	4.531	4.1754	1.2929	4.87E+01	2.39E+00	6.29E-04	3.10E-01	8.92E+00	4.26E-01	2.96E+01	8.79E+00	8.16E+01
141	486633.18	3856143.15	6.84039	1.2888	6.02299	8.25015	29.98	4.286	3.9602	1.2888	4.77E+01	2.38E+00	6.27E-04	2.90E-01	9.39E+00	4.03E-01	2.81E+01	8.76E+00	7.95E+01
142	486683.18	3856143.15	6.70525	1.28443	5.97766	7.7434	30.37	4.053	3.7479	1.28443	4.67E+01	2.37E+00	6.22E-04	2.73E-01	9.52E+00	3.81E-01	2.66E+01	8.73E+00	7.71E+01
143	486733.18	3856143.15	6.57672	1.30446	5.93282	7.27076	30.6	3.868	3.5396	1.30446	4.59E+01	2.41E+00	6.18E-04	2.56E-01	9.59E+00	3.64E-01	2.51E+01	8.87E+00	7.47E+01
144	486783.18	3856143.15	6.42743	1.32346	5.97573	6.87535	32.6	3.74	3.3796	1.32346	4.48E+01	2.44E+00	6.22E-04	2.42E-01	1.02E+01	3.52E-01	2.39E+01	9.00E+00	7.30E+01
145	486533.18	3856193.15	7.2776	1.28253	6.40451	11.00811	24.68	5.286	4.6098	1.28253	5.07E+01	2.37E+00	6.67E-04	3.87E-01	7.73E+00	4.97E-01	3.27E+01	8.72E+00	8.57E+01
146	486583.18	3856193.15	7.14236	1.28211	6.24467	9.77415	27.88	4.886	4.3817	1.28211	4.98E+01	2.37E+00	6.50E-04	3.44E-01	8.73E+00	4.59E-01	3.10E+01	8.72E+00	8.40E+01
147	486633.18	3856193.15	6.98257	1.28047	6.26758	9.02926	30.46	4.622	4.1595	1.28047	4.87E+01	2.36E+00	6.52E-04	3.18E-01	9.54E+00	4.34E-01	2.95E+01	8.71E+00	8.21E+01
148	486683.18	3856193.15	6.81687	1.2774	6.32914	8.47616	32.04	4.383	3.9504	1.2774	4.75E+01	2.36E+00	6.59E-04	2.98E-01	1.00E+01	4.12E-01	2.80E+01	8.69E+00	7.99E+01
149	486733.18	3856193.15	6.69016	1.27168	6.2749	7.93294	32.22	4.17	3.7599	1.27168	4.66E+01	2.35E+00	6.53E-04	2.79E-01	1.01E+01	3.92E-01	2.66E+01	8.65E+00	7.78E+01
150	486783.18	3856193.15	6.53562	1.28612	6.32282	7.50465	33.66	4.043	3.5739	1.28612	4.56E+01	2.38E+00	6.58E-04	2.64E-01	1.05E+01	3.80E-01	2.53E+01	8.75E+00	7.57E+01
151	486533.18	3856243.15	7.46448	1.26942	6.62349	12.82086	24.39	5.831	4.8955	1.26942	5.20E+01	2.34E+00	6.90E-04	4.51E-01	7.64E+00	5.48E-01	3.47E+01	8.63E+00	8.91E+01
152	486583.18	3856243.15	7.29196	1.26959	6.51732	11.23066	26.55	5.388	4.5947	1.26959	5.08E+01	2.34E+00	6.78E-04	3.95E-01	8.32E+00	5.06E-01	3.26E+01	8.63E+00	8.63E+01
153	486633.18	3856243.15	7.1292	1.2701	6.41549	10.00199	30.1	5.054	4.3437	1.2701	4.97E+01	2.35E+00	6.68E-04	3.52E-01	9.43E+00	4.75E-01	3.08E+01	8.64E+00	8.44E+01
154	486683.18	3856243.15	6.96625	1.26915	6.35774	9.24279	32.68	4.763	4.1221	1.26915	4.86E+01	2.34E+00	6.62E-04	3.25E-01	1.02E+01	4.48E-01	2.92E+01	8.63E+00	8.25E+01
155	486733.18	3856243.15	6.8045	1.26657	6.42222	8.61817	34.15	4.509	3.9458	1.26657	4.74E+01	2.34E+00	6.69E-04	3.03E-01	1.07E+01	4.24E-01	2.80E+01	8.61E+00	8.06E+01
156	486783.18	3856243.15	6.66458	1.26195	6.44177	8.07314	34.3	4.32	3.7724	1.26195	4.65E+01	2.33E+00	6.71E-04	2.84E-01	1.07E+01	4.06E-01	2.67E+01	8.58E+00	7.84E+01
157	486533.18	3856293.15	7.66844	1.27996	6.27693	15.2616	25.64	6.449	5.2248	1.27996	5.35E+01	2.36E+00	6.53E-04	5.37E-01	8.03E+00	6.06E-01	3.70E+01	8.70E+00	9.33E+01
158	486583.18	3856293.15	7.47832	1.26829	6.18343	13.10886	26.51	5.898	4.8718	1.26829	5.21E+01	2.34E+00	6.44E-04	4.61E-01	8.31E+00	5.54E-01	3.45E+01	8.62E+00	8.97E+01
159	486633.18	3856293.15	7.29447	1.26521	6.13864	11.47572	28.71	5.478	4.5838	1.26521	5.09E+01	2.34E+00	6.39E-04	4.04E-01	9.00E+00	5.15E-01	3.25E+01	8.60E+00	8.70E+01
160	486683.18	3856293.15	7.12049	1.26639	6.10174	10.23885	32.48	5.13	4.3689	1.26639	4.96E+01	2.34E+00	6.35E-04	3.60E-01	1.02E+01	4.82E-01	3.10E+01	8.61E+00	8.53E+01
161	486733.18	3856293.15	6.94085	1.26609	6.13802	9.42093	35.17	4.834	4.1662	1.26609	4.84E+01	2.34E+00	6.39E-04	3.32E-01	1.10E+01	4.54E-01	2.95E+01	8.61E+00	8.34E+01
162	486783.18	3856293.15	6.79229	1.2599	6.1287	8.73944	36.39	4.556	3.9934	1.2599	4.74E+01	2.33E+00	6.38E-04	3.08E-01	1.14E+01	4.28E-01	2.83E+01	8.57E+00	8.15E+01
163	486783.18	3856343.15	6.91843	1.26402	5.87129	9.54492	37.86	4.919	4.1771	1.26402	4.82E+01	2.33E+00	6.11E-04	3.36E-01	1.19E+01	4.62E-01	2.96E+01	8.60E+00	8.42E+01
164	486833.18	3856343.15	6.76036	1.25896	5.61829	8.83202	39	4.639	3.9977	1.25896	4.71E+01	2.33E+00	5.85E-04	3.11E-01	1.22E+01	4.36E-01	2.83E+01	8.56E+00	8.22E+01
165	486883.18	3856343.15	6.61036	1.25342	5.63089	8.27699	41.18	4.425	3.8366	1.25342	4.61E+01	2.31E+00	5.86E-04	2.91E-01	1.29E+01	4.16E-01	2.72E+01	8.52E+00	8.07E+01
166	486783.18	3856393.15	7.08633	1.2627	6.43071	10.49227	38.08	5.338	4.3411	1.2627	4.94E+01	2.33E+00	6.69E-04	3.69E-01	1.19E+01	5.02E-01	3.08E+01	8.59E+00	8.67E+01
167	486833.18	3856393.15	6.91065	1.2611	6.04277	9.61098	40.57	4.995	4.1496	1.2611	4.82E+01	2.33E+00	6.29E-04	3.38E-01	1.27E+01	4.70E-01	2.94E+01	8.58E+00	8.49E+01

168	486883.18	3856393.15	6.75951	1.25515	5.76787	8.91535	41.51	4.699	3.9702	1.25515	4.71E+01	2.32E+00	6.00E-04	3.14E-01	1.30E+01	4.42E-01	2.81E+01	8.53E+00	8.28E+01
169	487208.74	3856886.11	7.62692	1.48716	6.41441	13.28676	98.26	6.264	4.4995	1.48716	5.32E+01	2.75E+00	6.68E-04	4.68E-01	3.08E+01	5.89E-01	3.19E+01	1.01E+01	1.10E+02
170	487258.74	3856886.11	7.35528	1.47846	6.57794	11.59513	93.24	5.782	4.2971	1.47846	5.13E+01	2.73E+00	6.85E-04	4.08E-01	2.92E+01	5.43E-01	3.04E+01	1.01E+01	1.05E+02
171	487308.74	3856886.11	7.10579	1.47165	5.92154	10.27043	91.86	5.391	4.1031	1.47165	4.95E+01	2.72E+00	6.16E-04	3.61E-01	2.88E+01	5.07E-01	2.91E+01	1.00E+01	1.01E+02
172	487358.74	3856886.11	6.88088	1.45817	5.82268	9.25373	90.08	5.092	3.9369	1.45817	4.80E+01	2.69E+00	6.06E-04	3.26E-01	2.82E+01	4.79E-01	2.79E+01	9.92E+00	9.77E+01
173	487208.74	3856936.11	7.99697	1.53895	6.97272	15.75744	101	7.044	4.6961	1.53895	5.58E+01	2.84E+00	7.26E-04	5.55E-01	3.16E+01	6.62E-01	3.33E+01	1.05E+01	1.14E+02
174	487258.74	3856936.11	7.6898	1.53123	6.8715	13.4217	96.54	6.343	4.4607	1.53123	5.36E+01	2.83E+00	7.15E-04	4.72E-01	3.02E+01	5.96E-01	3.16E+01	1.04E+01	1.09E+02
175	487308.74	3856936.11	7.41099	1.52648	6.12019	11.7744	91.79	5.817	4.2602	1.52648	5.17E+01	2.82E+00	6.37E-04	4.14E-01	2.88E+01	5.47E-01	3.02E+01	1.04E+01	1.04E+02
176	487358.74	3856936.11	7.15977	1.51633	5.78528	10.41037	89.1	5.42	4.0766	1.51633	4.99E+01	2.80E+00	6.02E-04	3.66E-01	2.79E+01	5.09E-01	2.89E+01	1.03E+01	1.00E+02
177	487208.74	3856986.11	8.41614	1.59068	7.334	20.06551	102.7	8.179	4.9657	1.59068	5.87E+01	2.94E+00	7.64E-04	7.06E-01	3.22E+01	7.69E-01	3.52E+01	1.08E+01	1.20E+02
178	487258.74	3856986.11	8.05912	1.59356	7.12063	15.96681	98.68	7.184	4.6475	1.59356	5.62E+01	2.94E+00	7.41E-04	5.62E-01	3.09E+01	6.75E-01	3.29E+01	1.08E+01	1.13E+02
179	487308.74	3856986.11	7.74856	1.57849	6.32181	13.57053	94.62	6.458	4.4292	1.57849	5.40E+01	2.92E+00	6.58E-04	4.78E-01	2.96E+01	6.07E-01	3.14E+01	1.07E+01	1.08E+02
180	487358.74	3856986.11	7.46329	1.57619	5.80305	11.93838	89.89	5.911	4.2314	1.57619	5.20E+01	2.91E+00	6.04E-04	4.20E-01	2.82E+01	5.56E-01	3.00E+01	1.07E+01	1.03E+02
181	487208.74	3857036.11	8.88735	1.63994	7.57333	29.09275	104.8	9.764	5.2967	1.63994	6.20E+01	3.03E+00	7.88E-04	1.02E+00	3.28E+01	9.18E-01	3.75E+01	1.12E+01	1.26E+02
182	487258.74	3857036.11	8.48383	1.63822	7.31138	20.43658	101.4	8.339	4.9113	1.63822	5.91E+01	3.03E+00	7.61E-04	7.19E-01	3.18E+01	7.84E-01	3.48E+01	1.11E+01	1.19E+02
183	487308.74	3857036.11	8.1205	1.6403	6.3554	16.18652	97.35	7.332	4.6025	1.6403	5.66E+01	3.03E+00	6.62E-04	5.70E-01	3.05E+01	6.89E-01	3.26E+01	1.12E+01	1.13E+02
184	487358.74	3857036.11	7.79872	1.63364	5.51064	13.70369	93.1	6.589	4.3889	1.63364	5.44E+01	3.02E+00	5.74E-04	4.82E-01	2.92E+01	6.19E-01	3.11E+01	1.11E+01	1.08E+02
185	487427.14	3856878.23	6.54845	1.44688	5.7865	8.22067	86.97	4.727	3.6885	1.44688	4.57E+01	2.67E+00	6.02E-04	2.89E-01	2.72E+01	4.44E-01	2.61E+01	9.84E+00	9.26E+01
186	487477.14	3856878.23	6.3559	1.4392	5.72729	7.67671	89.79	4.555	3.5352	1.4392	4.43E+01	2.66E+00	5.96E-04	2.70E-01	2.81E+01	4.28E-01	2.50E+01	9.79E+00	9.11E+01
187	487527.14	3856878.23	6.21187	1.42762	5.68315	7.21653	91.88	4.417	3.3894	1.42762	4.33E+01	2.64E+00	5.92E-04	2.54E-01	2.88E+01	4.15E-01	2.40E+01	9.71E+00	8.97E+01
188	487427.14	3856928.23	6.80157	1.50148	5.66255	8.91365	87.29	4.995	3.828	1.50148	4.74E+01	2.77E+00	5.90E-04	3.14E-01	2.73E+01	4.70E-01	2.71E+01	1.02E+01	9.52E+01
189	487477.14	3856928.23	6.59935	1.48642	5.62032	8.27334	87.24	4.783	3.6776	1.48642	4.60E+01	2.75E+00	5.85E-04	2.91E-01	2.73E+01	4.50E-01	2.61E+01	1.01E+01	9.28E+01
190	487527.14	3856928.23	6.40545	1.47762	5.59788	7.73864	89.38	4.646	3.5299	1.47762	4.47E+01	2.73E+00	5.83E-04	2.72E-01	2.80E+01	4.37E-01	2.50E+01	1.00E+01	9.11E+01
191	487577.14	3856928.23	6.24275	1.46702	5.56427	7.27652	91.99	4.521	3.3875	1.46702	4.35E+01	2.71E+00	5.79E-04	2.56E-01	2.88E+01	4.25E-01	2.40E+01	9.98E+00	8.98E+01
192	487627.14	3856928.23	6.11208	1.44922	5.51135	6.88571	92.55	4.345	3.263	1.44922	4.26E+01	2.68E+00	5.74E-04	2.42E-01	2.90E+01	4.08E-01	2.31E+01	9.85E+00	8.82E+01
193	487677.14	3856928.23	5.97988	1.44146	5.47759	6.59075	91.62	4.226	3.1518	1.44146	4.17E+01	2.66E+00	5.70E-04	2.32E-01	2.87E+01	3.97E-01	2.23E+01	9.80E+00	8.62E+01
194	487727.14	3856928.23	5.85327	1.43551	5.50045	6.35152	90.74	4.087	3.0443	1.43551	4.08E+01	2.65E+00	5.73E-04	2.24E-01	2.84E+01	3.84E-01	2.16E+01	9.76E+00	8.43E+01
195	487777.14	3856928.23	5.73938	1.42656	5.49874	6.14545	91.42	3.979	2.9481	1.42656	4.00E+01	2.63E+00	5.72E-04	2.16E-01	2.86E+01	3.74E-01	2.09E+01	9.70E+00	8.31E+01
196	487427.14	3856978.23	7.07693	1.55047	5.72273	9.93963	86.38	5.297	3.9668	1.55047	4.93E+01	2.86E+00	5.96E-04	3.50E-01	2.71E+01	4.98E-01	2.81E+01	1.05E+01	9.77E+01
197	487477.14	3856978.23	6.85148	1.54242	5.62839	9.00502	86.68	5.069	3.8083	1.54242	4.78E+01	2.85E+00	5.86E-04	3.17E-01	2.72E+01	4.76E-01	2.70E+01	1.05E+01	9.51E+01
198	487527.14	3856978.23	6.64237	1.53262	5.51562	8.31431	87.57	4.881	3.6587	1.53262	4.63E+01	2.83E+00	5.74E-04	2.93E-01	2.74E+01	4.59E-01	2.59E+01	1.04E+01	9.28E+01
199	487577.14	3856978.23	6.44924	1.51947	5.43125	7.78561	89.55	4.752	3.5165	1.51947	4.50E+01	2.81E+00	5.65E-04	2.74E-01	2.81E+01	4.47E-01	2.49E+01	1.03E+01	9.11E+01
200	487627.14	3856978.23	6.26618	1.50003	5.38123	7.33037	92.52	4.566	3.3823	1.50003	4.37E+01	2.77E+00	5.60E-04	2.58E-01	2.90E+01	4.29E-01	2.40E+01	1.02E+01	8.99E+01
201	487677.14	3856978.23	6.07713	1.49094	5.37699	6.95036	93.29	4.413	3.2473	1.49094	4.24E+01	2.75E+00	5.60E-04	2.45E-01	2.92E+01	4.15E-01	2.30E+01	1.01E+01	8.79E+01
202	487727.14	3856978.23	5.90621	1.46279	5.33121	6.59388	93.97	4.227	3.1438	1.46279	4.12E+01	2.70E+00	5.55E-04	2.32E-01	2.94E+01	3.97E-01	2.23E+01	9.95E+00	8.63E+01
203	487777.14	3856978.23	5.7636	1.4754	5.34732	6.39243	92.01	4.14	3.0358	1.4754	4.02E+01	2.72E+00	5.57E-04	2.25E-01	2.88E+01	3.89E-01	2.15E+01	1.00E+01	8.38E+01
204	487427.14	3857028.23	7.36681	1.61065	5.60404	11.2946	88.84	5.73	4.1093	1.61065	5.14E+01	2.97E+00	5.83E-04	3.98E-01	2.78E+01	5.39E-01	2.91E+01	1.10E+01	1.01E+02
205	487477.14	3857028.23	7.12045	1.59917	5.59388	10.07739	85.69	5.369	3.9397	1.59917	4.96E+01	2.95E+00	5.82E-04	3.55E-01	2.68E+01	5.05E-01	2.79E+01	1.09E+01	9.73E+01
206	487527.14	3857028.23	6.89639	1.58419	5.55757	9.13476	86.39	5.151	3.7842	1.58419	4.81E+01	2.93E+00	5.79E-04	3.22E-01	2.71E+01	4.84E-01	2.68E+01	1.08E+01	9.49E+01
207	487577.14	3857028.23	6.68615	1.57224	5.5487	8.39059	86.87	4.986	3.6404	1.57224	4.66E+01	2.90E+00	5.78E-04	2.95E-01	2.72E+01	4.69E-01	2.58E+01	1.07E+01	9.26E+01
208	487627.14	3857028.23	6.48855	1.54969	5.48752	7.8261	88.69	4.789	3.5072	1.54969	4.52E+01	2.86E+00	5.71E-04	2.75E-01	2.78E+01	4.50E-01	2.48E+01	1.05E+01	9.09E+01
209	487677.14	3857028.23	6.24947	1.538	5.3324	7.39835	89.64	4.634	3.3733	1.538	4.36E+01	2.84E+00	5.55E-04	2.60E-01	2.81E+01	4.36E-01	2.39E+01	1.05E+01	8.86E+01
210	487727.14	3857028.23	6.03482	1.53285	5.23716	7.04316	89.3	4.503	3.2405	1.53285	4.21E+01	2.83E+00	5.45E-04	2.48E-01	2.80E+01	4.23E-01	2.30E+01	1.04E+01	8.61E+01
211	487777.14	3857028.23	5.84832	1.52212	5.18826	6.73653	88.43	4.383	3.1181	1.52212	4.08E+01	2.81E+00	5.40E-04	2.37E-01	2.77E+01	4.12E-01	2.21E+01	1.04E+01	8.37E+01
212	487427.14	3857078.23	7.68581	1.66612	5.23231	12.88223	93.58	6.36	4.2569	1.66612	5.36E+01	3.08E+00	5.45E-04	4.53E-01	2.93E+01	5.98E-01	3.02E+01	1.13E+01	1.06E+02
213	487477.14	3857078.23	7.41422	1.65046	5.28815	11.42664	88.4	5.829	4.0809	1.65046	5.17E+01	3.05E+00	5.51E-04	4.02E-01	2.77E+01	5.48E-01	2.89E+01	1.12E+01	1.01E+02
214	487527.14	3857078.23	7.16449	1.63867	5.63132	10.2078	82.5	5.44	3.9152	1.63867	4.99E+01	3.03E+00	5.86E-04	3.59E-01	2.58E+01	5.11E-01	2.77E+01	1.11E+01	9.63E+01
215	487577.14	3857078.23	6.93226	1.6238	5.64047	9.2493	83.08	5.235	3.7611	1.6238	4.83E+01	3.00E+00	5.87E-04	3.26E-01	2.60E+01	4.92E-01	2.66E+01	1.10E+01	9.38E+01
216	487627.14	3857078.23	6.72141	1.60475	5.53642	8.47642	86.63	5.055	3.6238	1.60475	4.69E+01	2.96E+00	5.76E-04	2.98E-01	2.71E+01	4.75E-01	2.57E+01	1.09E+01	9.25E+01
217	487677.14	3857078.23	6.51047	1.59134	5.37374	7.89498	88.13	4.912	3.4906	1.59134	4.54E+01	2.94E+00	5.59E-04	2.78E-01	2.76E+01	4.62E-01	2.47E+01	1.08E+01	9.06E+01
218	487727.14	3857078.23	6.26682	1.58041	5.29814	7.48102	87.63	4.789	3.362	1.58041	4.37E+01	2.92E+00	5.52E-04	2.63E-01	2.75E+01	4.50E-01	2.38E+01	1.07E+01	8.79E+01
219	487777.14	3857078.23	6.0116	1.56385	5.49086	7.1302	88.08	4.621	3.239	1.56385	4.19E+01	2.89E+00	5.72E-04	2.51E-01	2.76E+01	4.34E-01	2.29E+01	1.06E+01	8.54E+01
220	487427.14	3857128.23	8.03916	1.72189	5.14698	15.0723	97.35	7.157	4.4161	1.72189	5.60E+01	3.18E+00	5.36E-04	5.30E-01	3.05E+01	6.73E-01	3.13E+01	1.17E+01	1.11E+02
221	487477.14	3857128.23	7.72347	1.7024	5.24935	12.99109	94.21	6.463	4.2276	1.7024	5.38E+01	3.14E+00	5.46E-04	4.57E-01	2.95E+01	6.08E-01	3.00E+01	1.16E+01	1.06E+02
222	487527.14	3857128.23	7.4226	1.68377	5.75901	11.46998	91.1	5.872	4.0563	1.68377	5.17E+01	3.11E+00	6.00E-04	4.04E-01	2.85E+01	5.52E-01	2.87E+01	1.14E+01	1.02E+02
223	487577.14	3857128.23	7.15476	1.67107	5.65195	10.23769	87.32	5.5	3.8959	1.67107	4.99E+01	3.09E+00	5.88E-04	3.60E-01	2.74E+01	5.17E-01	2.76E+01	1.14E+01	9.74E+01
224	487627.14	3857128.23	6.91522	1.65831	5.35726	9.26491	85.44	5.283	3.7442	1.65831	4.82E+01	3.06E+00	5.58E-04	3.26E-01	2.68E+01	4.97E-01	2.65E+01	1.13E+01	9.41E+01

225	487677.14	3857128.23	6.70282	1.63807	5.21231	8.47052	84.89	5.154	3.6069	1.63807	4.67E+01	3.03E+00	5.43E-04	2.98E-01	2.66E+01	4.84E-01	2.56E+01	1.11E+01	9.16E+01
226	487727.14	3857128.23	6.48538	1.63214	5.13793	7.88097	86.67	5.032	3.4753	1.63214	4.52E+01	3.01E+00	5.35E-04	2.77E-01	2.72E+01	4.73E-01	2.46E+01	1.11E+01	8.97E+01
227	487777.14	3857128.23	6.22995	1.61366	5.70074	7.47071	89.07	4.866	3.3537	1.61366	4.34E+01	2.98E+00	5.93E-04	2.63E-01	2.79E+01	4.57E-01	2.38E+01	1.10E+01	8.78E+01
228	488049.44	3856539.39	4.61015	1.58804	4.70644	3.48401	64.14	2.488	2.089	1.58804	3.21E+01	2.93E+00	4.90E-04	1.23E-01	2.01E+01	2.34E-01	1.48E+01	1.08E+01	5.95E+01
229	488099.44	3856539.39	4.55444	1.58884	4.67384	3.43506	62.46	2.466	2.056	1.58884	3.18E+01	2.93E+00	4.87E-04	1.21E-01	1.96E+01	2.32E-01	1.46E+01	1.08E+01	5.84E+01
230	488149.44	3856539.39	4.49231	1.58624	4.78946	3.42297	60.27	2.438	2.0253	1.58624	3.13E+01	2.93E+00	4.99E-04	1.20E-01	1.89E+01	2.29E-01	1.44E+01	1.08E+01	5.70E+01
231	488049.44	3856589.39	4.63455	1.56568	5.03289	3.55192	69.47	2.53	2.1222	1.56568	3.23E+01	2.89E+00	5.24E-04	1.25E-01	2.18E+01	2.38E-01	1.50E+01	1.06E+01	6.17E+01
232	488099.44	3856589.39	4.57371	1.57047	5.14919	3.46747	67.07	2.517	2.0851	1.57047	3.19E+01	2.90E+00	5.36E-04	1.22E-01	2.10E+01	2.37E-01	1.48E+01	1.07E+01	6.03E+01
233	488149.44	3856589.39	4.51226	1.57195	5.30405	3.45026	65.79	2.482	2.051	1.57195	3.15E+01	2.90E+00	5.52E-04	1.21E-01	2.06E+01	2.33E-01	1.45E+01	1.07E+01	5.92E+01
234	488199.44	3856589.39	4.45766	1.57006	5.18659	3.43128	65.77	2.445	2.0202	1.57006	3.11E+01	2.90E+00	5.40E-04	1.21E-01	2.06E+01	2.30E-01	1.43E+01	1.07E+01	5.86E+01
235	488249.44	3856589.39	4.3814	1.564	4.8584	3.42805	66.37	2.472	1.9893	1.564	3.05E+01	2.89E+00	5.06E-04	1.21E-01	2.08E+01	2.32E-01	1.41E+01	1.06E+01	5.80E+01
236	488049.44	3856639.39	4.69635	1.54006	5.22457	3.63405	74.13	2.582	2.1586	1.54006	3.27E+01	2.84E+00	5.44E-04	1.28E-01	2.32E+01	2.43E-01	1.53E+01	1.05E+01	6.40E+01
237	488099.44	3856639.39	4.63279	1.54839	5.56208	3.5424	73.42	2.564	2.1175	1.54839	3.23E+01	2.86E+00	5.79E-04	1.25E-01	2.30E+01	2.41E-01	1.50E+01	1.05E+01	6.30E+01
238	488149.44	3856639.39	4.57049	1.55371	5.66436	3.4943	74.24	2.527	2.0798	1.55371	3.19E+01	2.87E+00	5.90E-04	1.23E-01	2.33E+01	2.38E-01	1.47E+01	1.06E+01	6.25E+01
239	488199.44	3856639.39	4.50254	1.55626	5.52487	3.47322	73.92	2.501	2.0437	1.55626	3.14E+01	2.87E+00	5.75E-04	1.22E-01	2.32E+01	2.35E-01	1.45E+01	1.06E+01	6.17E+01
240	488249.44	3856639.39	4.4395	1.55476	5.1213	3.45469	73.16	2.529	2.0117	1.55476	3.10E+01	2.87E+00	5.33E-04	1.22E-01	2.29E+01	2.38E-01	1.43E+01	1.06E+01	6.08E+01
241	488299.44	3856639.39	4.37729	1.55382	4.66134	3.44699	71.92	2.524	1.9815	1.55382	3.05E+01	2.87E+00	4.85E-04	1.21E-01	2.25E+01	2.37E-01	1.40E+01	1.06E+01	5.98E+01
242	488349.44	3856639.39	4.32209	1.54564	4.40453	3.44116	70.42	2.556	1.9544	1.54564	3.01E+01	2.85E+00	4.59E-04	1.21E-01	2.21E+01	2.40E-01	1.38E+01	1.05E+01	5.88E+01
243	488399.44	3856639.39	4.25445	1.53134	4.34611	3.45427	67.91	2.726	1.9257	1.53134	2.97E+01	2.83E+00	4.52E-04	1.22E-01	2.13E+01	2.56E-01	1.36E+01	1.04E+01	5.74E+01
244	488099.44	3856689.39	4.69002	1.52335	5.81566	3.62812	82.8	2.621	2.1544	1.52335	3.27E+01	2.81E+00	6.05E-04	1.28E-01	2.59E+01	2.46E-01	1.53E+01	1.04E+01	6.67E+01
245	488149.44	3856689.39	4.62711	1.53154	5.8955	3.55044	81.29	2.581	2.1125	1.53154	3.23E+01	2.83E+00	6.14E-04	1.25E-01	2.55E+01	2.43E-01	1.50E+01	1.04E+01	6.55E+01
246	488199.44	3856689.39	4.55845	1.5368	5.67576	3.52739	79.14	2.564	2.0729	1.5368	3.18E+01	2.84E+00	5.91E-04	1.24E-01	2.48E+01	2.41E-01	1.47E+01	1.05E+01	6.40E+01
247	488249.44	3856689.39	4.49996	1.54137	5.24968	3.49843	77.31	2.616	2.0379	1.54137	3.14E+01	2.85E+00	5.47E-04	1.23E-01	2.42E+01	2.46E-01	1.44E+01	1.05E+01	6.28E+01
248	488299.44	3856689.39	4.42921	1.54839	4.95765	3.48619	74.55	2.663	2.0032	1.54839	3.09E+01	2.86E+00	5.16E-04	1.23E-01	2.34E+01	2.50E-01	1.42E+01	1.05E+01	6.11E+01
249	488349.44	3856689.39	4.37203	1.54668	4.63773	3.47445	72.14	2.74	1.9732	1.54668	3.05E+01	2.86E+00	4.83E-04	1.22E-01	2.26E+01	2.58E-01	1.40E+01	1.05E+01	5.98E+01
250	488399.44	3856689.39	4.32609	1.53732	4.60323	3.46531	69.67	2.914	1.9473	1.53732	3.02E+01	2.84E+00	4.79E-04	1.22E-01	2.18E+01	2.74E-01	1.38E+01	1.05E+01	5.86E+01
251	488099.44	3856739.39	4.74864	1.49611	5.80548	3.82555	86.75	2.689	2.1961	1.49611	3.31E+01	2.76E+00	6.04E-04	1.35E-01	2.72E+01	2.53E-01	1.56E+01	1.02E+01	6.88E+01
252	488149.44	3856739.39	4.6883	1.50603	5.81552	3.62672	84.68	2.659	2.1519	1.50603	3.27E+01	2.78E+00	6.05E-04	1.28E-01	2.65E+01	2.50E-01	1.52E+01	1.02E+01	6.74E+01
253	488199.44	3856739.39	4.61291	1.51432	5.68456	3.59188	81.33	2.685	2.1047	1.51432	3.22E+01	2.80E+00	5.92E-04	1.26E-01	2.55E+01	2.52E-01	1.49E+01	1.03E+01	6.54E+01
254	488249.44	3856739.39	4.55292	1.52536	5.55101	3.57389	78.78	2.747	2.0661	1.52536	3.17E+01	2.82E+00	5.78E-04	1.26E-01	2.47E+01	2.58E-01	1.46E+01	1.04E+01	6.39E+01
255	488299.44	3856739.39	4.50387	1.53394	5.30633	3.53027	76.55	2.767	2.0339	1.53394	3.14E+01	2.83E+00	5.52E-04	1.24E-01	2.40E+01	2.60E-01	1.44E+01	1.04E+01	6.26E+01
256	488349.44	3856739.39	4.42694	1.5418	5.01558	3.53125	72.48	2.985	1.9943	1.5418	3.09E+01	2.85E+00	5.22E-04	1.24E-01	2.27E+01	2.81E-01	1.41E+01	1.05E+01	6.05E+01
257	488399.44	3856739.39	4.35409	1.54353	5.61624	3.55478	68.26	3.315	1.9572	1.54353	3.04E+01	2.85E+00	5.85E-04	1.25E-01	2.14E+01	3.12E-01	1.39E+01	1.05E+01	5.84E+01
258	487999.44	3856789.39	4.98404	1.44562	5.55545	4.54508	95.43	2.914	2.3706	1.44562	3.47E+01	2.67E+00	5.78E-04	1.60E-01	2.99E+01	2.74E-01	1.68E+01	9.83E+00	7.47E+01
259	488049.44	3856789.39	4.90511	1.45721	5.61184	4.31562	93.07	2.787	2.308	1.45721	3.42E+01	2.69E+00	5.84E-04	1.52E-01	2.92E+01	2.62E-01	1.64E+01	9.91E+00	7.29E+01
260	488099.44	3856789.39	4.82087	1.46971	5.53969	4.10176	89.1	2.799	2.246	1.46971	3.36E+01	2.71E+00	5.77E-04	1.44E-01	2.79E+01	2.63E-01	1.59E+01	9.99E+00	7.06E+01
261	488149.44	3856789.39	4.75253	1.47824	5.5496	3.8938	86.02	2.805	2.1942	1.47824	3.31E+01	2.73E+00	5.78E-04	1.37E-01	2.70E+01	2.64E-01	1.55E+01	1.01E+01	6.87E+01
262	488199.44	3856789.39	4.67973	1.48917	5.65951	3.73287	82.11	2.834	2.1437	1.48917	3.26E+01	2.75E+00	5.89E-04	1.31E-01	2.57E+01	2.66E-01	1.52E+01	1.01E+01	6.66E+01
263	488249.44	3856789.39	4.61514	1.50466	5.64589	3.6495	78.8	2.887	2.0997	1.50466	3.22E+01	2.78E+00	5.88E-04	1.28E-01	2.47E+01	2.71E-01	1.49E+01	1.02E+01	6.47E+01
264	488299.44	3856789.39	4.55945	1.518	5.5021	3.61527	75.97	2.971	2.0619	1.518	3.18E+01	2.80E+00	5.73E-04	1.27E-01	2.38E+01	2.79E-01	1.46E+01	1.03E+01	6.31E+01
265	488349.44	3856789.39	4.48108	1.53346	5.92417	3.63208	71.48	3.286	2.017	1.53346	3.12E+01	2.83E+00	6.17E-04	1.28E-01	2.24E+01	3.09E-01	1.43E+01	1.04E+01	6.08E+01
266	488399.44	3856789.39	4.41238	1.54133	6.8408	3.64707	67.24	3.561	1.9785	1.54133	3.08E+01	2.85E+00	7.12E-04	1.28E-01	2.11E+01	3.35E-01	1.40E+01	1.05E+01	5.87E+01
267	487949.44	3856839.39	5.16489	1.41975	5.43701	5.06527	99.32	3.269	2.5096	1.41975	3.60E+01	2.62E+00	5.66E-04	1.78E-01	3.11E+01	3.07E-01	1.78E+01	9.65E+00	7.84E+01
268	487999.44	3856839.39	5.07794	1.42994	5.43953	4.83632	97.68	3.069	2.4363	1.42994	3.54E+01	2.64E+00	5.66E-04	1.70E-01	3.06E+01	2.89E-01	1.73E+01	9.72E+00	7.66E+01
269	488049.44	3856839.39	4.99566	1.43817	5.52741	4.60426	93.88	2.918	2.3692	1.43817	3.48E+01	2.66E+00	5.75E-04	1.62E-01	2.94E+01	2.74E-01	1.68E+01	9.78E+00	7.43E+01
270	488099.44	3856839.39	4.91214	1.44566	5.34143	4.3816	89.56	2.947	2.3042	1.44566	3.42E+01	2.67E+00	5.56E-04	1.54E-01	2.81E+01	2.77E-01	1.63E+01	9.83E+00	7.19E+01
271	488149.44	3856839.39	4.832	1.45309	5.32165	4.16916	85.1	2.969	2.244	1.45309	3.37E+01	2.68E+00	5.54E-04	1.47E-01	2.67E+01	2.79E-01	1.59E+01	9.88E+00	6.95E+01
272	488199.44	3856839.39	4.75591	1.46159	5.46712	3.97262	80.94	3.01	2.1884	1.46159	3.32E+01	2.70E+00	5.69E-04	1.40E-01	2.54E+01	2.83E-01	1.55E+01	9.94E+00	6.72E+01
273	487949.44	3856889.39	5.2901	1.40518	5.41895	5.33457	100.3	3.431	2.5835	1.40518	3.69E+01	2.60E+00	5.64E-04	1.88E-01	3.14E+01	3.23E-01	1.83E+01	9.56E+00	8.02E+01
274	487999.44	3856889.39	5.19016	1.41349	5.58925	5.11978	96.21	3.265	2.504	1.41349	3.62E+01	2.61E+00	5.82E-04	1.80E-01	3.01E+01	3.07E-01	1.77E+01	9.61E+00	7.76E+01
275	488049.44	3856889.39	5.11151	1.42065	5.41046	4.88598	92.42	3.103	2.4364	1.42065	3.56E+01	2.62E+00	5.63E-04	1.72E-01	2.90E+01	2.92E-01	1.73E+01	9.66E+00	7.53E+01
276	488099.44	3856889.39	5.02025	1.4289	5.2262	4.66163	87.78	3.118	2.3655	1.4289	3.50E+01	2.64E+00	5.44E-04	1.64E-01	2.75E+01	2.93E-01	1.68E+01	9.72E+00	7.26E+01
277	488635.86	3857895.05	6.06831	2.18569	13.75391	7.59554	57.19	7.873	3.0077	2.18569	4.23E+01	4.04E+00	1.43E-03	2.67E-01	1.79E+01	7.40E-01	2.13E+01	1.49E+01	7.17E+01
278	489137.64	3857804.15	4.97627	1.77905	10.93466	7.77333	41.64	5.826	2.2755	1.77905	3.47E+01	3.29E+00	1.14E-03	2.74E-01	1.30E+01	5.48E-01	1.61E+01	1.21E+01	5.59E+01
279	488617.32	3857859.41	5.96358	2.12724	13.58691	7.37914	59.54	7.894	2.9806	2.12724	4.16E+01	3.93E+00	1.41E-03	2.60E-01	1.87E+01	7.42E-01	2.11E+01	1.45E+01	7.18E+01
280	488667.32	3857859.41	5.84063	2.09395	13.18882	7.19339	58.8	7.616	2.8955	2.09395	4.07E+01	3.87E+00	1.37E-03	2.53E-01	1.84E+01	7.16E-01	2.05E+01	1.42E+01	7.03E+01
281	488717.32	3857859.41	5.73562	2.05755	12.92017	7.08383	58.4	7.373	2.8146	2.05755	4.00E+01	3.80E+00	1.35E-03	2.49E-01	1.83E+01	6.93E-01	1.99E+01	1.40E+01	6.90E+01

282	488767.32	3857859.41	5.64721	2.01104	12.72262	7.11844	57.41	7.191	2.7427	2.01104	3.94E+01	3.71E+00	1.32E-03	2.51E-01	1.80E+01	6.76E-01	1.94E+01	1.37E+01	6.78E+01
283	488617.32	3857909.41	6.19045	2.23465	14.00951	7.88289	56.34	8.003	3.0648	2.23465	4.32E+01	4.13E+00	1.46E-03	2.77E-01	1.77E+01	7.52E-01	2.17E+01	1.52E+01	7.25E+01
284	488667.32	3857909.41	6.04407	2.18326	13.61191	7.56707	55.8	7.762	2.9831	2.18326	4.21E+01	4.03E+00	1.42E-03	2.66E-01	1.75E+01	7.30E-01	2.11E+01	1.48E+01	7.09E+01
285	488717.32	3857909.41	5.93066	2.15438	13.26621	7.40208	55.16	7.51	2.8945	2.15438	4.13E+01	3.98E+00	1.38E-03	2.61E-01	1.73E+01	7.06E-01	2.05E+01	1.46E+01	6.94E+01
286	488767.32	3857909.41	5.83581	2.11306	12.95217	7.35818	54.87	7.309	2.8243	2.11306	4.07E+01	3.90E+00	1.35E-03	2.59E-01	1.72E+01	6.87E-01	2.00E+01	1.44E+01	6.84E+01
287	488417.32	3857959.41	7.27347	2.54528	16.61326	11.84788	62.86	9.999	3.6463	2.54528	5.07E+01	4.70E+00	1.73E-03	4.17E-01	1.97E+01	9.40E-01	2.58E+01	1.73E+01	8.50E+01
288	488467.32	3857959.41	7.02118	2.49631	16.07866	10.65153	60.34	9.454	3.4922	2.49631	4.89E+01	4.61E+00	1.67E-03	3.75E-01	1.89E+01	8.89E-01	2.47E+01	1.70E+01	8.15E+01
289	488517.32	3857959.41	6.80354	2.44803	15.53923	9.77437	56.81	8.981	3.3568	2.44803	4.74E+01	4.52E+00	1.62E-03	3.44E-01	1.78E+01	8.44E-01	2.38E+01	1.66E+01	7.81E+01
290	488567.32	3857959.41	6.60916	2.40077	15.01866	9.08383	53.22	8.59	3.2616	2.40077	4.61E+01	4.43E+00	1.56E-03	3.20E-01	1.67E+01	8.07E-01	2.31E+01	1.63E+01	7.51E+01
291	488617.32	3857959.41	6.43501	2.35329	14.484	8.50841	51.79	8.254	3.1714	2.35329	4.49E+01	4.35E+00	1.51E-03	2.99E-01	1.62E+01	7.76E-01	2.25E+01	1.60E+01	7.30E+01
292	488667.32	3857959.41	6.28159	2.3081	13.94473	8.04488	52.23	7.953	3.0807	2.3081	4.38E+01	4.26E+00	1.45E-03	2.83E-01	1.64E+01	7.48E-01	2.18E+01	1.57E+01	7.16E+01
293	488717.32	3857959.41	6.15655	2.26257	13.43105	7.78178	52.48	7.675	3.0024	2.26257	4.29E+01	4.18E+00	1.40E-03	2.74E-01	1.64E+01	7.21E-01	2.13E+01	1.54E+01	7.04E+01
294	488767.32	3857959.41	6.05327	2.22114	12.92977	7.6331	52.15	7.43	2.9177	2.22114	4.22E+01	4.10E+00	1.35E-03	2.69E-01	1.63E+01	6.98E-01	2.07E+01	1.51E+01	6.92E+01
295	488417.32	3858009.41	7.59944	2.68754	16.62554	13.75404	61.44	10.56	3.8674	2.68754	5.30E+01	4.96E+00	1.73E-03	4.84E-01	1.93E+01	9.93E-01	2.74E+01	1.83E+01	8.78E+01
296	488467.32	3858009.41	7.32444	2.64674	15.98452	12.01306	58.11	9.881	3.6836	2.64674	5.11E+01	4.89E+00	1.66E-03	4.23E-01	1.82E+01	9.29E-01	2.61E+01	1.80E+01	8.36E+01
297	488517.32	3858009.41	7.08122	2.59629	15.36265	10.80682	54.4	9.4	3.5311	2.59629	4.94E+01	4.80E+00	1.60E-03	3.80E-01	1.70E+01	8.84E-01	2.50E+01	1.77E+01	7.98E+01
298	488567.32	3858009.41	6.86105	2.5517	14.76683	9.91895	50.87	8.975	3.4154	2.5517	4.78E+01	4.71E+00	1.54E-03	3.49E-01	1.59E+01	8.44E-01	2.42E+01	1.74E+01	7.65E+01
299	488617.32	3858009.41	6.66906	2.4952	14.1732	9.23106	47.39	8.608	3.2949	2.4952	4.65E+01	4.61E+00	1.48E-03	3.25E-01	1.48E+01	8.09E-01	2.33E+01	1.70E+01	7.35E+01
300	488667.32	3858009.41	6.50815	2.44225	13.60534	8.63093	47.66	8.269	3.1862	2.44225	4.54E+01	4.51E+00	1.42E-03	3.04E-01	1.49E+01	7.77E-01	2.26E+01	1.66E+01	7.19E+01
301	488717.32	3858009.41	6.38507	2.39499	13.07015	8.23091	48.51	7.953	3.0956	2.39499	4.45E+01	4.42E+00	1.36E-03	2.90E-01	1.52E+01	7.48E-01	2.19E+01	1.63E+01	7.08E+01
302	488767.32	3858009.41	6.27235	2.34707	12.59268	7.96822	48.75	7.658	3.0108	2.34707	4.37E+01	4.33E+00	1.31E-03	2.80E-01	1.53E+01	7.20E-01	2.13E+01	1.60E+01	6.97E+01
303	488417.32	3858059.41	8.01013	2.86288	16.3531	16.5636	61.3	11.11	4.1282	2.86288	5.58E+01	5.29E+00	1.70E-03	5.83E-01	1.92E+01	1.04E+00	2.92E+01	1.95E+01	9.18E+01
304	488467.32	3858059.41	7.66354	2.82034	15.81891	13.89819	57.56	10.39	3.927	2.82034	5.34E+01	5.21E+00	1.65E-03	4.89E-01	1.80E+01	9.77E-01	2.78E+01	1.92E+01	8.68E+01
305	488517.32	3858059.41	7.38722	2.7708	15.33205	12.15507	53.7	9.8	3.7449	2.7708	5.15E+01	5.12E+00	1.60E-03	4.28E-01	1.68E+01	9.21E-01	2.65E+01	1.88E+01	8.25E+01
306	488567.32	3858059.41	7.14118	2.71959	14.87607	10.95504	48.7	9.339	3.6077	2.71959	4.98E+01	5.02E+00	1.55E-03	3.86E-01	1.53E+01	8.78E-01	2.56E+01	1.85E+01	7.84E+01
307	488617.32	3858059.41	6.92272	2.66749	14.44986	10.06752	45.62	8.951	3.445	2.66749	4.83E+01	4.93E+00	1.50E-03	3.54E-01	1.43E+01	8.41E-01	2.44E+01	1.81E+01	7.50E+01
308	488667.32	3858059.41	6.7572	2.60174	14.04872	9.35833	42.68	8.598	3.3103	2.60174	4.71E+01	4.81E+00	1.46E-03	3.29E-01	1.34E+01	8.08E-01	2.35E+01	1.77E+01	7.22E+01
309	488417.32	3858109.41	8.53562	3.02686	15.95978	21.57683	60.31	12.75	4.4041	3.02686	5.95E+01	5.59E+00	1.66E-03	7.59E-01	1.89E+01	1.20E+00	3.12E+01	2.06E+01	9.66E+01
310	488467.32	3858109.41	8.11157	2.98397	15.41414	16.88944	57.92	11.28	4.1819	2.98397	5.66E+01	5.51E+00	1.60E-03	5.94E-01	1.81E+01	1.06E+00	2.96E+01	2.03E+01	9.12E+01
311	488517.32	3858109.41	7.73228	2.95465	14.91438	14.10963	54.07	10.36	3.981	2.95465	5.39E+01	5.46E+00	1.55E-03	4.97E-01	1.69E+01	9.74E-01	2.82E+01	2.01E+01	8.59E+01
312	488567.32	3858109.41	7.4511	2.9059	14.44227	12.34333	49.59	9.827	3.7843	2.9059	5.19E+01	5.37E+00	1.50E-03	4.34E-01	1.55E+01	9.24E-01	2.68E+01	1.98E+01	8.13E+01
313	488617.32	3858109.41	7.21072	2.84883	14.05221	11.11853	44.41	9.358	3.6062	2.84883	5.03E+01	5.26E+00	1.46E-03	3.91E-01	1.39E+01	8.80E-01	2.56E+01	1.94E+01	7.69E+01
314	488667.32	3858109.41	7.04466	2.77101	13.68181	10.26288	41	8.961	3.4569	2.77101	4.91E+01	5.12E+00	1.42E-03	3.61E-01	1.28E+01	8.42E-01	2.45E+01	1.88E+01	7.39E+01
315	488769.93	3858449.27	9.06811	4.23377	11.52794	25.55985	41.47	14.14	4.7228	4.23377	6.32E+01	7.82E+00	1.20E-03	9.00E-01	1.30E+01	1.33E+00	3.35E+01	2.88E+01	9.09E+01
316	488819.93	3858449.27	8.76975	3.99843	11.44182	19.49752	37.77	12.46	4.3669	3.99843	6.11E+01	7.38E+00	1.19E-03	6.86E-01	1.18E+01	1.17E+00	3.09E+01	2.72E+01	8.60E+01
317	488819.93	3858499.27	8.84771	4.43662	10.64564	26.53911	39.1	14.43	4.8266	4.43662	6.17E+01	8.19E+00	1.11E-03	9.34E-01	1.23E+01	1.36E+00	3.42E+01	3.02E+01	8.85E+01
318	488869.93	3858499.27	8.54103	4.20636	10.42701	20.19366	35.56	12.67	4.4662	4.20636	5.95E+01	7.77E+00	1.09E-03	7.11E-01	1.11E+01	1.19E+00	3.16E+01	2.86E+01	8.34E+01
319	488869.93	3858549.27	8.72543	4.62923	10.79759	27.56754	36.95	14.71	4.9316	4.62923	6.08E+01	8.55E+00	1.12E-03	9.70E-01	1.16E+01	1.38E+00	3.49E+01	3.15E+01	8.68E+01
320	489438.17	3859571.48	6.24838	5.32672	23.75561	9.51417	22.42	6.563	5.8635	5.32672	4.36E+01	9.84E+00	2.47E-03	3.35E-01	7.02E+00	6.17E-01	4.15E+01	3.62E+01	6.67E+01
321	489488.17	3859571.48	6.16113	5.68689	18.22502	9.45859	21.92	6.258	6.2382	5.68689	4.30E+01	1.05E+01	1.90E-03	3.33E-01	6.87E+00	5.88E-01	4.42E+01	3.87E+01	6.68E+01
322	489538.17	3859571.48	6.09201	6.12842	22.96327	9.52306	21.49	6.096	6.6241	6.12842	4.25E+01	1.13E+01	2.39E-03	3.35E-01	6.73E+00	5.73E-01	4.69E+01	4.17E+01	6.67E+01
323	489588.17	3859571.48	6.0461	6.61614	28.92794	9.63361	20.88	6.311	7.0022	6.61614	4.22E+01	1.22E+01	3.01E-03	3.39E-01	6.54E+00	5.93E-01	4.96E+01	4.50E+01	6.65E+01
324	489438.17	3859621.48	6.40549	4.78469	15.56975	9.11762	22.01	7.01	5.3115	4.78469	4.47E+01	8.84E+00	1.62E-03	3.21E-01	6.90E+00	6.59E-01	3.76E+01	3.25E+01	6.65E+01
325	489488.17	3859621.48	6.25876	5.03495	18.53502	8.87682	21.68	6.67	5.539	5.03495	4.36E+01	9.30E+00	1.93E-03	3.12E-01	6.79E+00	6.27E-01	3.92E+01	3.42E+01	6.57E+01
326	489538.17	3859621.48	6.15053	5.35044	23.67655	8.90804	21.13	6.369	5.8793	5.35044	4.29E+01	9.88E+00	2.46E-03	3.14E-01	6.62E+00	5.99E-01	4.17E+01	3.64E+01	6.56E+01
327	489588.17	3859621.48	6.06012	5.72715	26.94139	9.05748	20.79	6.183	6.2337	5.72715	4.22E+01	1.06E+01	2.80E-03	3.19E-01	6.51E+00	5.81E-01	4.42E+01	3.89E+01	6.55E+01
328	489238.17	3859671.48	7.67621	3.66696	16.55596	19.98216	20.55	8.098	3.9593	3.66696	5.35E+01	6.77E+00	1.72E-03	7.03E-01	6.44E+00	7.61E-01	2.81E+01	2.49E+01	7.13E+01
329	489288.17	3859671.48	7.38183	3.79438	13.41843	13.28469	20.45	8.001	4.1429	3.79438	5.15E+01	7.01E+00	1.40E-03	4.68E-01	6.41E+00	7.52E-01	2.94E+01	2.58E+01	6.97E+01
330	489338.17	3859671.48	7.05084	3.94107	12.67274	10.8974	20.86	7.789	4.3649	3.94107	4.92E+01	7.28E+00	1.32E-03	3.84E-01	6.53E+00	7.32E-01	3.09E+01	2.68E+01	6.82E+01
331	489388.17	3859671.48	6.771	4.10999	13.52766	9.68343	21.3	7.678	4.5858	4.10999	4.72E+01	7.59E+00	1.41E-03	3.41E-01	6.67E+00	7.22E-01	3.25E+01	2.79E+01	6.71E+01
332	489438.17	3859671.48	6.5451	4.28549	15.49332	8.78475	21.48	7.352	4.7712	4.28549	4.56E+01	7.91E+00	1.61E-03	3.09E-01	6.73E+00	6.91E-01	3.38E+01	2.91E+01	6.59E+01
333	489488.17	3859671.48	6.36505	4.5102	19.62324	8.36434	21.43	7.111	4.9421	4.5102	4.44E+01	8.33E+00	2.04E-03	2.94E-01	6.72E+00	6.68E-01	3.50E+01	3.07E+01	6.47E+01
334	489538.17	3859671.48	6.21305	4.74559	21.98872	8.31341	21.09	6.877	5.1462	4.74559	4.33E+01	8.76E+00	2.29E-03	2.93E-01	6.61E+00	6.46E-01	3.65E+01	3.23E+01	6.38E+01
335	489588.17	3859671.48	6.08436	5.0475	21.08493	8.45492	20.57	6.632	5.4445	5.0475	4.24E+01	9.32E+00	2.20E-03	2.98E-01	6.44E+00	6.23E-01	3.86E+01	3.43E+01	6.34E+01
336	489238.17	3859721.48	7.78764	3.3523	11.06618	19.98106	20.12	7.535	3.5692	3.3523	5.43E+01	6.19E+00	1.15E-03	7.03E-01	6.31E+00	7.08E-01	2.53E+01	2.28E+01	7.07E+01
337	489288.17	3859721.48	7.43694	3.4678	12.06226	13.33178	20.14	7.75	3.7468	3.4678	5.18E+01	6.40E+00	1.26E-03	4.69E-01	6.31E+00	7.28E-01	2.65E+01	2.36E+01	6.87E+01
338	489338.17	3859721.48	7.11649	3.58717	11.91492	10.78883	20.12	7.804	3.9183	3.58717	4.96E+01	6.63E+00	1.24E-03	3.80E-01	6.30E+00	7.34E-01	2.78E+01	2.44E+01	6.70E+01

339	489388.17	3859721.48	6.81337	3.71654	13.39455	9.41443	20.47	7.726	4.1004	3.71654	4.75E+01	6.86E+00	1.39E-03	3.31E-01	6.41E+00	7.26E-01	2.91E+01	2.53E+01	6.56E+01
340	489438.17	3859721.48	6.5509	3.8554	16.42696	8.48751	20.86	7.494	4.2605	3.8554	4.57E+01	7.12E+00	1.71E-03	2.99E-01	6.54E+00	7.04E-01	3.02E+01	2.62E+01	6.43E+01
341	489488.17	3859721.48	6.34451	4.01752	18.81175	7.87241	21.05	7.42	4.4246	4.01752	4.42E+01	7.42E+00	1.96E-03	2.77E-01	6.60E+00	6.97E-01	3.13E+01	2.73E+01	6.33E+01
342	489538.17	3859721.48	6.17609	4.20599	21.21124	7.66232	20.89	7.235	4.5584	4.20599	4.31E+01	7.77E+00	2.21E-03	2.70E-01	6.55E+00	6.80E-01	3.23E+01	2.86E+01	6.20E+01
343	489588.17	3859721.48	6.0363	4.42588	22.01693	7.76406	20.54	7.003	4.7377	4.42588	4.21E+01	8.17E+00	2.29E-03	2.73E-01	6.43E+00	6.58E-01	3.36E+01	3.01E+01	6.11E+01
344	489238.17	3859771.48	7.88918	3.16117	11.25942	20.02438	19.78	7.17	3.2814	3.16117	5.50E+01	5.84E+00	1.17E-03	7.05E-01	6.20E+00	6.74E-01	2.33E+01	2.15E+01	7.02E+01
345	489288.17	3859771.48	7.35083	3.22053	11.04418	13.24914	19.66	7.257	3.4158	3.22053	5.12E+01	5.95E+00	1.15E-03	4.66E-01	6.16E+00	6.82E-01	2.42E+01	2.19E+01	6.68E+01
346	489338.17	3859771.48	7.0334	3.2946	12.63736	10.63644	19.62	7.284	3.5545	3.2946	4.90E+01	6.08E+00	1.32E-03	3.74E-01	6.15E+00	6.85E-01	2.52E+01	2.24E+01	6.51E+01
347	489388.17	3859771.48	6.75905	3.40054	14.39495	9.16547	19.75	7.441	3.7133	3.40054	4.71E+01	6.28E+00	1.50E-03	3.23E-01	6.19E+00	6.99E-01	2.63E+01	2.31E+01	6.38E+01
348	489438.17	3859771.48	6.5043	3.50787	15.86687	8.18987	20.12	7.415	3.8631	3.50787	4.53E+01	6.48E+00	1.65E-03	2.88E-01	6.30E+00	6.97E-01	2.74E+01	2.39E+01	6.26E+01
349	489488.17	3859771.48	6.2933	3.64572	20.04996	7.51406	20.54	7.477	4.0315	3.64572	4.39E+01	6.73E+00	2.09E-03	2.64E-01	6.44E+00	7.03E-01	2.86E+01	2.48E+01	6.18E+01
350	489538.17	3859771.48	6.1209	3.79254	21.30675	7.12042	20.64	7.454	4.1942	3.79254	4.27E+01	7.00E+00	2.22E-03	2.51E-01	6.47E+00	7.01E-01	2.97E+01	2.58E+01	6.10E+01
351	489588.17	3859771.48	5.97346	3.93813	22.49548	7.09314	20.38	7.327	4.3056	3.93813	4.16E+01	7.27E+00	2.34E-03	2.50E-01	6.39E+00	6.89E-01	3.05E+01	2.68E+01	6.00E+01
352	489238.17	3859821.48	7.60453	3.04182	10.56206	19.94645	19.3	6.782	3.1029	3.04182	5.30E+01	5.62E+00	1.10E-03	7.02E-01	6.05E+00	6.37E-01	2.20E+01	2.07E+01	6.73E+01
353	489288.17	3859821.48	7.2936	3.09618	12.16071	13.17268	19.37	7.016	3.2146	3.09618	5.08E+01	5.72E+00	1.27E-03	4.64E-01	6.07E+00	6.60E-01	2.28E+01	2.11E+01	6.55E+01
354	489338.17	3859821.48	6.95725	3.15442	13.2496	10.52294	19.23	6.989	3.3213	3.15442	4.85E+01	5.83E+00	1.38E-03	3.70E-01	6.03E+00	6.57E-01	2.35E+01	2.14E+01	6.35E+01
355	489388.17	3859821.48	6.73266	3.21048	13.88775	9.01084	19.11	6.884	3.4418	3.21048	4.69E+01	5.93E+00	1.45E-03	3.17E-01	5.99E+00	6.47E-01	2.44E+01	2.18E+01	6.24E+01
356	489438.17	3859821.48	6.50984	3.29286	18.11805	7.97869	19.45	7.139	3.5918	3.29286	4.54E+01	6.08E+00	1.89E-03	2.81E-01	6.09E+00	6.71E-01	2.54E+01	2.24E+01	6.16E+01
357	489488.17	3859821.48	6.30182	3.37969	19.57427	7.23137	19.96	7.346	3.7394	3.37969	4.39E+01	6.24E+00	2.04E-03	2.55E-01	6.25E+00	6.91E-01	2.65E+01	2.30E+01	6.09E+01
358	489538.17	3859821.48	6.12466	3.47463	22.73058	6.77279	20.24	7.605	3.9072	3.47463	4.27E+01	6.42E+00	2.37E-03	2.38E-01	6.34E+00	7.15E-01	2.77E+01	2.36E+01	6.05E+01
359	489588.17	3859821.48	5.97967	3.57118	22.81173	6.57934	20.18	7.51	4.0282	3.57118	4.17E+01	6.60E+00	2.37E-03	2.32E-01	6.32E+00	7.06E-01	2.85E+01	2.43E+01	5.98E+01
360	489238.17	3859871.48	7.23484	2.97333	11.44295	19.88607	18.76	6.268	2.936	2.97333	5.04E+01	5.49E+00	1.19E-03	7.00E-01	5.88E+00	5.89E-01	2.08E+01	2.02E+01	6.37E+01
361	489288.17	3859871.48	7.055	3.00941	12.22702	13.11369	18.99	6.524	3.0531	3.00941	4.92E+01	5.56E+00	1.27E-03	4.62E-01	5.95E+00	6.13E-01	2.16E+01	2.05E+01	6.29E+01
362	489338.17	3859871.48	6.8128	3.04191	12.26965	10.46342	18.86	6.703	3.1661	3.04191	4.75E+01	5.62E+00	1.28E-03	3.68E-01	5.91E+00	6.30E-01	2.24E+01	2.07E+01	6.18E+01
363	489388.17	3859871.48	6.64815	3.09229	16.02471	8.853	18.86	6.852	3.2735	3.09229	4.63E+01	5.71E+00	1.67E-03	3.12E-01	5.91E+00	6.44E-01	2.32E+01	2.10E+01	6.11E+01
364	489438.17	3859871.48	6.50476	3.1415	18.27247	7.79067	18.88	6.97	3.3778	3.1415	4.53E+01	5.80E+00	1.90E-03	2.74E-01	5.91E+00	6.55E-01	2.39E+01	2.14E+01	6.06E+01
365	489488.17	3859871.48	6.34024	3.20633	23.1499	6.94313	19.44	7.299	3.5125	3.20633	4.42E+01	5.92E+00	2.41E-03	2.44E-01	6.09E+00	6.86E-01	2.49E+01	2.18E+01	6.02E+01
366	489538.17	3859871.48	6.1531	3.273	22.50631	6.47868	19.78	7.396	3.6463	3.273	4.29E+01	6.04E+00	2.34E-03	2.28E-01	6.20E+00	6.95E-01	2.58E+01	2.23E+01	5.96E+01
367	489588.17	3859871.48	6.00297	3.34279	22.60745	6.19002	19.92	7.532	3.7845	3.34279	4.19E+01	6.17E+00	2.35E-03	2.18E-01	6.24E+00	7.08E-01	2.68E+01	2.27E+01	5.93E+01
368	489238.17	3859921.48	7.0373	2.88781	11.33398	19.7727	18.18	5.663	2.807	2.88781	4.91E+01	5.33E+00	1.18E-03	6.96E-01	5.70E+00	5.32E-01	1.99E+01	1.96E+01	6.16E+01
369	489288.17	3859921.48	6.8929	2.93405	11.42622	12.93551	18.64	6.033	2.9101	2.93405	4.81E+01	5.42E+00	1.19E-03	4.55E-01	5.84E+00	5.67E-01	2.06E+01	2.00E+01	6.10E+01
370	489338.17	3859921.48	6.66889	2.97173	14.2991	10.32555	18.71	6.34	3.0027	2.97173	4.65E+01	5.49E+00	1.49E-03	3.63E-01	5.86E+00	5.96E-01	2.13E+01	2.02E+01	5.99E+01
371	489388.17	3859921.48	6.45953	3.00648	17.02616	8.68819	18.62	6.643	3.098	3.00648	4.50E+01	5.55E+00	1.77E-03	3.06E-01	5.83E+00	6.24E-01	2.20E+01	2.04E+01	5.89E+01
372	489438.17	3859921.48	6.37364	3.05775	20.97895	7.52043	18.73	7.126	3.1873	3.05775	4.44E+01	5.65E+00	2.18E-03	2.65E-01	5.87E+00	6.70E-01	2.26E+01	2.08E+01	5.87E+01
373	489488.17	3859921.48	6.28102	3.0935	23.16285	6.80281	18.8	7.242	3.3096	3.0935	4.38E+01	5.71E+00	2.41E-03	2.39E-01	5.89E+00	6.81E-01	2.34E+01	2.10E+01	5.87E+01
374	489538.17	3859921.48	6.166	3.12687	20.34793	6.30327	19.25	7.144	3.4387	3.12687	4.30E+01	5.78E+00	2.12E-03	2.22E-01	6.03E+00	6.72E-01	2.44E+01	2.13E+01	5.88E+01
375	489588.17	3859921.48	6.04082	3.14953	20.40507	6.00079	19.62	7.159	3.541	3.14953	4.21E+01	5.82E+00	2.12E-03	2.11E-01	6.15E+00	6.73E-01	2.51E+01	2.14E+01	5.86E+01
376	489238.17	3859971.48	6.80346	2.77048	10.77086	19.55654	17.54	5.224	2.6705	2.77048	4.74E+01	5.12E+00	1.12E-03	6.88E-01	5.50E+00	4.91E-01	1.89E+01	1.88E+01	5.93E+01
377	489288.17	3859971.48	6.65905	2.82582	12.76688	12.82427	18.12	5.427	2.7676	2.82582	4.64E+01	5.22E+00	1.33E-03	4.51E-01	5.68E+00	5.10E-01	1.96E+01	1.92E+01	5.87E+01
378	489338.17	3859971.48	6.46021	2.87345	15.39692	10.16233	18.44	5.729	2.8646	2.87345	4.50E+01	5.31E+00	1.60E-03	3.58E-01	5.78E+00	5.39E-01	2.03E+01	1.95E+01	5.78E+01
379	489388.17	3859971.48	6.24341	2.92193	18.39203	8.45268	18.51	6.239	2.9468	2.92193	4.35E+01	5.40E+00	1.91E-03	2.98E-01	5.80E+00	5.86E-01	2.09E+01	1.99E+01	5.66E+01
380	489438.17	3859971.48	6.15772	2.95471	21.53871	7.20269	18.6	6.629	2.9898	2.95471	4.29E+01	5.46E+00	2.24E-03	2.54E-01	5.83E+00	6.23E-01	2.12E+01	2.01E+01	5.62E+01
381	489488.17	3859971.48	6.14534	3.01114	19.73546	6.48146	18.69	6.888	3.4579	3.01114	4.28E+01	5.56E+00	2.05E-03	2.28E-01	5.86E+00	6.47E-01	2.45E+01	2.05E+01	5.92E+01
382	489538.17	3859971.48	6.09834	3.03852	18.30716	6.16912	19.05	7.046	3.6581	3.03852	4.25E+01	5.61E+00	1.91E-03	2.17E-01	5.97E+00	6.62E-01	2.59E+01	2.07E+01	6.02E+01
383	489588.17	3859971.48	6.04366	3.00675	18.17816	5.92072	19.58	7.039	3.7827	3.00675	4.21E+01	5.55E+00	1.89E-03	2.08E-01	6.14E+00	6.62E-01	2.68E+01	2.04E+01	6.11E+01
384	483577.7	3854071	5.93564	2.88209	2.93502	9.14306	4.975	6.653	4.1224	2.88209	4.14E+01	5.32E+00	3.06E-04	3.22E-01	1.56E+00	6.25E-01	2.92E+01	1.96E+01	5.88E+01
385	483627.7	3854071	5.76979	2.89657	2.22478	8.47982	4.974	6.003	3.8851	2.89657	4.02E+01	5.35E+00	2.32E-04	2.98E-01	1.56E+00	5.64E-01	2.75E+01	1.97E+01	5.58E+01
386	483677.7	3854071	5.65364	2.95845	2.66363	7.92394	4.961	5.511	3.7553	2.95845	3.94E+01	5.46E+00	2.77E-04	2.79E-01	1.55E+00	5.18E-01	2.66E+01	2.01E+01	5.37E+01
387	483727.7	3854071	5.57653	2.95573	3.51846	7.28001	4.937	4.992	3.742	2.95573	3.89E+01	5.46E+00	3.66E-04	2.56E-01	1.55E+00	4.69E-01	2.65E+01	2.01E+01	5.30E+01
388	483777.7	3854071	5.54348	2.94484	3.85021	6.7629	4.899	4.629	3.734	2.94484	3.86E+01	5.44E+00	4.01E-04	2.38E-01	1.54E+00	4.35E-01	2.65E+01	2.00E+01	5.27E+01
389	483577.7	3854121	6.11975	3.0261	3.02633	11.02296	5.115	7.728	4.4918	3.0261	4.27E+01	5.59E+00	3.15E-04	3.88E-01	1.60E+00	7.26E-01	3.18E+01	2.06E+01	6.22E+01
390	483627.7	3854121	5.95676	2.75385	2.83315	9.71631	5.098	6.888	4.1355	2.75385	4.15E+01	5.09E+00	2.95E-04	3.42E-01	1.60E+00	6.47E-01	2.93E+01	1.87E+01	5.98E+01
391	483677.7	3854121	5.85917	2.7421	3.31808	8.87866	5.089	5.947	3.9151	2.7421	4.08E+01	5.06E+00	3.45E-04	3.12E-01	1.59E+00	5.59E-01	2.77E+01	1.86E+01	5.75E+01
392	483727.7	3854121	5.80811	2.7817	3.98262	7.94526	5.072	5.109	3.7844	2.7817	4.05E+01	5.14E+00	4.15E-04	2.80E-01	1.59E+00	4.80E-01	2.68E+01	1.89E+01	5.59E+01
393	483777.7	3854121	5.76685	2.77858	3.82263	7.42223	4.97	4.702	3.7109	2.77858	4.02E+01	5.13E+00	3.98E-04	2.61E-01	1.56E+00	4.42E-01	2.63E+01	1.89E+01	5.50E+01
394	483577.7	3854171	6.39598	3.3251	3.27194	13.33381	5.261	8.369	5.1225	3.3251	4.46E+01	6.14E+00	3.41E-04	4.69E-01	1.65E+00	7.87E-01	3.63E+01	2.26E+01	6.73E+01
395	483627.7	3854171	6.24841	2.77681	3.56027	10.93424	5.243	7.103	4.5319	2.77681	4.36E+01	5.13E+00	3.71E-04	3.85E-01	1.64E+00	6.68E-01	3.21E+01	1.89E+01	6.46E+01

396	483677.7	3854171	6.13789	2.5659	4.04093	9.66331	5.221	6.241	4.1674	2.5659	4.28E+01	4.74E+00	4.21E-04	3.40E-01	1.64E+00	5.87E-01	2.95E+01	1.74E+01	6.22E+01
397	483727.7	3854171	6.06084	2.55953	4.21725	8.86549	5.084	5.603	4.019	2.55953	4.23E+01	4.73E+00	4.39E-04	3.12E-01	1.59E+00	5.27E-01	2.85E+01	1.74E+01	6.05E+01
398	483777.7	3854171	6.02199	2.61463	3.5019	8.10804	5.058	4.934	3.8904	2.61463	4.20E+01	4.83E+00	3.65E-04	2.85E-01	1.58E+00	4.64E-01	2.76E+01	1.78E+01	5.89E+01
399	483827.7	3854171	6.03676	2.57575	2.66673	7.67613	5.025	4.369	3.6918	2.57575	4.21E+01	4.76E+00	2.78E-04	2.70E-01	1.57E+00	4.11E-01	2.62E+01	1.75E+01	5.77E+01
400	483877.7	3854171	6.02644	2.54746	5.14653	7.24133	5.017	4.187	3.6337	2.54746	4.20E+01	4.70E+00	5.36E-04	2.55E-01	1.57E+00	3.94E-01	2.57E+01	1.73E+01	5.74E+01
401	483727.7	3854221	6.35207	2.41977	4.0704	9.74265	5.208	5.912	4.3927	2.41977	4.43E+01	4.47E+00	4.24E-04	3.43E-01	1.63E+00	5.56E-01	3.11E+01	1.65E+01	6.60E+01
402	483777.7	3854221	6.29669	2.39754	2.97911	8.82989	5.148	5.275	4.1801	2.39754	4.39E+01	4.43E+00	3.10E-04	3.11E-01	1.61E+00	4.96E-01	2.96E+01	1.63E+01	6.41E+01
403	483827.7	3854221	6.23115	2.4879	5.25611	8.43844	5.147	4.944	4.0325	2.4879	4.34E+01	4.59E+00	5.47E-04	2.97E-01	1.61E+00	4.65E-01	2.86E+01	1.69E+01	6.21E+01
404	483877.7	3854221	6.24115	2.46361	8.5851	8.08064	5.122	4.551	3.7992	2.46361	4.35E+01	4.55E+00	8.94E-04	2.84E-01	1.60E+00	4.28E-01	2.69E+01	1.68E+01	6.05E+01
405	489150.19	3858726.45	7.79542	4.83269	8.02185	26.51079	24.27	12.04	4.6193	4.83269	5.43E+01	8.93E+00	8.35E-04	9.33E-01	7.60E+00	1.13E+00	3.27E+01	3.29E+01	7.28E+01
406	489200.19	3858726.45	7.54167	4.57432	7.96936	40.79316	21.68	11.04	4.2918	4.57432	5.26E+01	8.45E+00	8.30E-04	1.44E+00	6.79E+00	1.04E+00	3.04E+01	3.11E+01	6.96E+01
407	489150.19	3858776.45	7.8587	5.29778	9.20228	27.92436	25.97	13.56	5.1267	5.29778	5.48E+01	9.78E+00	9.58E-04	9.83E-01	8.14E+00	1.27E+00	3.63E+01	3.60E+01	7.53E+01
408	489200.19	3858776.45	7.63111	5.04974	8.16735	42.92785	22.98	12.2	4.7789	5.04974	5.32E+01	9.33E+00	8.50E-04	1.51E+00	7.20E+00	1.15E+00	3.39E+01	3.43E+01	7.19E+01
409	488919.6	3856400.76	3.8964	1.61563	5.06767	2.99262	43.72	2.033	1.7835	1.61563	2.72E+01	2.98E+00	5.28E-04	1.05E-01	1.37E+01	1.91E-01	1.26E+01	1.10E+01	4.58E+01
410	488919.6	3856450.76	3.88435	1.59939	4.81654	3.05169	45.34	2.109	1.7712	1.59939	2.71E+01	2.95E+00	5.01E-04	1.07E-01	1.42E+01	1.98E-01	1.25E+01	1.09E+01	4.62E+01
411	488969.6	3856450.76	3.85788	1.59928	4.19918	3.16523	44.48	2.105	1.7637	1.59928	2.69E+01	2.95E+00	4.37E-04	1.11E-01	1.39E+01	1.98E-01	1.25E+01	1.09E+01	4.57E+01
412	488919.6	3856500.76	3.86984	1.57596	4.53575	3.11831	46.5	2.179	1.752	1.57596	2.70E+01	2.91E+00	4.72E-04	1.10E-01	1.46E+01	2.05E-01	1.24E+01	1.07E+01	4.65E+01
413	488969.6	3856500.76	3.83893	1.57951	4.11365	3.2349	45.5	2.176	1.7471	1.57951	2.68E+01	2.92E+00	4.28E-04	1.14E-01	1.43E+01	2.05E-01	1.24E+01	1.07E+01	4.59E+01
414	488919.6	3856550.76	3.84941	1.54632	4.37504	3.21728	47.12	2.248	1.7303	1.54632	2.68E+01	2.86E+00	4.55E-04	1.13E-01	1.48E+01	2.11E-01	1.23E+01	1.05E+01	4.65E+01
415	488969.6	3856550.76	3.82213	1.55424	4.10867	3.31504	46.22	2.245	1.7269	1.55424	2.66E+01	2.87E+00	4.28E-04	1.17E-01	1.45E+01	2.11E-01	1.22E+01	1.06E+01	4.60E+01
416	488819.6	3856600.76	3.89647	1.49455	4.82744	3.39771	49.95	2.329	1.7471	1.49455	2.72E+01	2.76E+00	5.03E-04	1.20E-01	1.57E+01	2.19E-01	1.24E+01	1.02E+01	4.81E+01
417	488869.6	3856600.76	3.86668	1.50105	4.49536	3.28103	48.54	2.315	1.7324	1.50105	2.70E+01	2.77E+00	4.68E-04	1.15E-01	1.52E+01	2.18E-01	1.23E+01	1.02E+01	4.73E+01
418	488919.6	3856600.76	3.83636	1.5126	4.20979	3.31889	47.51	2.316	1.7163	1.5126	2.67E+01	2.79E+00	4.38E-04	1.17E-01	1.49E+01	2.18E-01	1.22E+01	1.03E+01	4.66E+01
419	488819.6	3856650.76	3.89782	1.46043	4.57745	3.50717	50.56	2.396	1.7508	1.46043	2.72E+01	2.70E+00	4.77E-04	1.23E-01	1.58E+01	2.25E-01	1.24E+01	9.93E+00	4.85E+01
420	488869.6	3856650.76	3.86599	1.46472	4.34146	3.37396	49.71	2.383	1.7361	1.46472	2.70E+01	2.71E+00	4.52E-04	1.19E-01	1.56E+01	2.24E-01	1.23E+01	9.96E+00	4.79E+01
421	488819.6	3856700.76	3.91032	1.44672	4.40028	3.59861	51.65	2.472	1.7544	1.44672	2.73E+01	2.67E+00	4.58E-04	1.27E-01	1.62E+01	2.32E-01	1.24E+01	9.84E+00	4.91E+01
422	488869.6	3856700.76	3.87875	1.44044	4.59157	3.47058	50.72	2.471	1.7399	1.44044	2.70E+01	2.66E+00	4.78E-04	1.22E-01	1.59E+01	2.32E-01	1.23E+01	9.79E+00	4.85E+01
423	488819.6	3856750.76	3.94561	1.4363	4.93604	3.66971	52.41	2.576	1.7589	1.4363	2.75E+01	2.65E+00	5.14E-04	1.29E-01	1.64E+01	2.42E-01	1.25E+01	9.77E+00	4.96E+01
424	488869.6	3856750.76	3.89965	1.43203	5.10879	3.56183	51.21	2.605	1.7418	1.43203	2.72E+01	2.64E+00	5.32E-04	1.25E-01	1.60E+01	2.45E-01	1.23E+01	9.74E+00	4.89E+01
425	488819.6	3857050.76	4.34844	1.45811	6.22958	4.17967	54.11	4.15	1.8285	1.45811	3.03E+01	2.69E+00	6.49E-04	1.47E-01	1.70E+01	3.90E-01	1.30E+01	9.91E+00	5.35E+01
426	488869.6	3857050.76	4.29124	1.43606	6.63597	4.13732	52.16	4.089	1.7942	1.43606	2.99E+01	2.65E+00	6.91E-04	1.46E-01	1.63E+01	3.84E-01	1.27E+01	9.76E+00	5.24E+01
427	488919.6	3857050.76	4.23847	1.41045	7.06523	4.25041	50.53	3.943	1.765	1.41045	2.95E+01	2.60E+00	7.36E-04	1.50E-01	1.58E+01	3.71E-01	1.25E+01	9.59E+00	5.14E+01
428	488819.6	3857100.76	4.42218	1.46672	7.25013	4.28051	57.34	4.277	1.871	1.46672	3.08E+01	2.71E+00	7.55E-04	1.51E-01	1.80E+01	4.02E-01	1.33E+01	9.97E+00	5.53E+01
429	488869.6	3857100.76	4.3669	1.44867	7.58505	4.24679	55.49	4.101	1.8242	1.44867	3.04E+01	2.68E+00	7.90E-04	1.49E-01	1.74E+01	3.86E-01	1.29E+01	9.85E+00	5.41E+01
430	488919.6	3857100.76	4.30921	1.42798	7.76763	4.36665	53.56	3.977	1.791	1.42798	3.00E+01	2.64E+00	8.09E-04	1.54E-01	1.68E+01	3.74E-01	1.27E+01	9.71E+00	5.30E+01
431	488819.6	3857150.76	4.49324	1.48397	7.99175	4.42023	59.77	4.286	1.9308	1.48397	3.13E+01	2.74E+00	8.32E-04	1.56E-01	1.87E+01	4.03E-01	1.37E+01	1.01E+01	5.69E+01
432	488869.6	3857150.76	4.43412	1.47134	8.13204	4.36901	57.68	4.151	1.885	1.47134	3.09E+01	2.72E+00	8.47E-04	1.54E-01	1.81E+01	3.90E-01	1.34E+01	1.00E+01	5.56E+01
433	488919.6	3857150.76	4.37879	1.45209	7.95177	4.48361	55.79	4.064	1.8365	1.45209	3.05E+01	2.68E+00	8.28E-04	1.58E-01	1.75E+01	3.82E-01	1.30E+01	9.87E+00	5.44E+01
434	488969.6	3857150.76	4.32421	1.42911	7.52573	4.63898	53.95	3.923	1.7921	1.42911	3.01E+01	2.64E+00	7.83E-04	1.63E-01	1.69E+01	3.69E-01	1.27E+01	9.72E+00	5.32E+01
435	488819.6	3857200.76	4.55989	1.49983	8.3277	4.60309	60.6	4.331	1.9888	1.49983	3.18E+01	2.77E+00	8.67E-04	1.62E-01	1.90E+01	4.07E-01	1.41E+01	1.02E+01	5.80E+01
436	488869.6	3857200.76	4.49859	1.49285	7.9382	4.55483	58.47	4.247	1.9457	1.49285	3.14E+01	2.76E+00	8.26E-04	1.60E-01	1.83E+01	3.99E-01	1.38E+01	1.02E+01	5.66E+01
437	488919.6	3857200.76	4.44129	1.47821	7.32869	4.63266	56.55	4.093	1.8991	1.47821	3.10E+01	2.73E+00	7.63E-04	1.63E-01	1.77E+01	3.85E-01	1.35E+01	1.01E+01	5.54E+01
438	488969.6	3857200.76	4.38834	1.45676	6.59785	4.76729	54.84	3.893	1.8491	1.45676	3.06E+01	2.69E+00	6.87E-04	1.68E-01	1.72E+01	3.66E-01	1.31E+01	9.91E+00	5.42E+01
439	488819.6	3857250.76	4.62413	1.5254	7.70958	4.8158	60.23	4.401	2.0429	1.5254	3.22E+01	2.82E+00	8.03E-04	1.69E-01	1.89E+01	4.14E-01	1.45E+01	1.04E+01	5.86E+01
440	488869.6	3857250.76	4.56258	1.51727	6.93343	4.7553	58.16	4.237	2.0035	1.51727	3.18E+01	2.80E+00	7.22E-04	1.67E-01	1.82E+01	3.98E-01	1.42E+01	1.03E+01	5.73E+01
441	488919.6	3857250.76	4.5034	1.50182	6.22377	4.79958	56.33	4.043	1.9598	1.50182	3.14E+01	2.77E+00	6.48E-04	1.69E-01	1.76E+01	3.80E-01	1.39E+01	1.02E+01	5.60E+01
442	488969.6	3857250.76	4.44666	1.48379	6.10059	4.93088	54.64	4.135	1.9123	1.48379	3.10E+01	2.74E+00	6.35E-04	1.74E-01	1.71E+01	3.89E-01	1.35E+01	1.01E+01	5.49E+01
443	488819.6	3857300.76	4.68119	1.55397	6.50419	5.0182	61.89	4.393	2.0922	1.55397	3.26E+01	2.87E+00	6.77E-04	1.77E-01	1.94E+01	4.13E-01	1.48E+01	1.06E+01	5.97E+01
444	488869.6	3857300.76	4.61873	1.55132	6.15695	4.96819	59.43	4.291	2.0572	1.55132	3.22E+01	2.87E+00	6.41E-04	1.75E-01	1.86E+01	4.03E-01	1.46E+01	1.05E+01	5.83E+01
445	488919.6	3857300.76	4.55695	1.54269	5.97924	5.00814	57.07	4.481	2.0175	1.54269	3.18E+01	2.85E+00	6.22E-04	1.76E-01	1.79E+01	4.21E-01	1.43E+01	1.05E+01	5.69E+01
446	488819.6	3857450.76	4.82772	1.62541	11.05829	5.62218	68.05	5.779	2.2113	1.62541	3.37E+01	3.00E+00	1.15E-03	1.98E-01	2.13E+01	5.43E-01	1.57E+01	1.11E+01	6.33E+01
447	488869.6	3857450.76	4.76172	1.62772	11.52	5.54506	65.68	5.745	2.1839	1.62772	3.32E+01	3.01E+00	1.20E-03	1.95E-01	2.06E+01	5.40E-01	1.55E+01	1.11E+01	6.19E+01
448	488919.6	3857450.76	4.69327	1.63036	11.60172	5.59704	63.02	5.75	2.1579	1.63036	3.27E+01	3.01E+00	1.21E-03	1.97E-01	1.97E+01	5.40E-01	1.53E+01	1.11E+01	6.04E+01
449	488819.6	3857500.76	4.87206	1.64037	12.39886	5.80397	66.78	6.144	2.2599	1.64037	3.40E+01	3.03E+00	1.29E-03	2.04E-01	2.09E+01	5.78E-01	1.60E+01	1.12E+01	6.36E+01
450	488869.6	3857500.76	4.80056	1.6462	12.06544	5.7216	64.97	6.093	2.2151	1.6462	3.35E+01	3.04E+00	1.26E-03	2.01E-01	2.04E+01	5.73E-01	1.57E+01	1.12E+01	6.21E+01
451	488919.6	3857500.76	4.7411	1.65061	11.54509	5.76947	63.09	5.999	2.1928	1.65061	3.31E+01	3.05E+00	1.20E-03	2.03E-01	1.98E+01	5.64E-01	1.55E+01	1.12E+01	6.10E+01
452	488819.6	3857550.76	4.9152	1.65403	12.32959	5.97694	63.4	6.413	2.3039	1.65403	3.43E+01	3.05E+00	1.28E-03	2.10E-01	1.99E+01	6.03E-01	1.63E+01	1.12E+01	6.31E+01

453	488869.6	3857550.76	4.86598	1.65857	11.97639	5.9016	62.26	6.305	2.2547	1.65857	3.39E+01	3.06E+00	1.25E-03	2.08E-01	1.95E+01	5.93E-01	1.60E+01	1.13E+01	6.20E+01
454	488919.6	3857550.76	4.8183	1.66538	11.38904	5.92663	60.95	6.188	2.2223	1.66538	3.36E+01	3.08E+00	1.19E-03	2.09E-01	1.91E+01	5.82E-01	1.57E+01	1.13E+01	6.10E+01
455	489663.71	3860900.05	5.31481	2.64366	6.36357	4.61167	10.93	3.206	2.6746	2.64366	3.71E+01	4.88E+00	6.62E-04	1.62E-01	3.42E+00	3.01E-01	1.90E+01	1.80E+01	4.68E+01
456	489813.71	3860900.05	4.65911	2.75473	5.60317	3.89978	12.18	3.141	2.8275	2.75473	3.25E+01	5.09E+00	5.83E-04	1.37E-01	3.82E+00	2.95E-01	2.00E+01	1.87E+01	4.31E+01
457	489863.71	3860900.05	4.45068	2.78825	5.10963	3.75637	12.28	3.128	2.8744	2.78825	3.10E+01	5.15E+00	5.32E-04	1.32E-01	3.85E+00	2.94E-01	2.04E+01	1.90E+01	4.19E+01
458	489913.71	3860900.05	4.25383	2.82373	4.78256	3.65928	12.28	3.122	2.9318	2.82373	2.97E+01	5.22E+00	4.98E-04	1.29E-01	3.85E+00	2.93E-01	2.08E+01	1.92E+01	4.07E+01
459	489963.71	3860900.05	4.06314	2.88179	4.2763	3.547	12.08	3.094	3.0068	2.88179	2.83E+01	5.32E+00	4.45E-04	1.25E-01	3.79E+00	2.91E-01	2.13E+01	1.96E+01	3.96E+01
460	490013.71	3860900.05	3.99917	2.93931	4.13667	3.46514	11.96	3.091	3.084	2.93931	2.79E+01	5.43E+00	4.31E-04	1.22E-01	3.75E+00	2.90E-01	2.19E+01	2.00E+01	3.93E+01
461	490063.71	3860900.05	3.96557	3.00167	4.32204	3.37375	11.95	3.073	3.1615	3.00167	2.76E+01	5.54E+00	4.50E-04	1.19E-01	3.74E+00	2.89E-01	2.24E+01	2.04E+01	3.93E+01
462	489663.71	3860950.05	5.30054	2.66585	6.14255	4.61695	10.43	3.225	2.6867	2.66585	3.70E+01	4.92E+00	6.39E-04	1.62E-01	3.27E+00	3.03E-01	1.90E+01	1.81E+01	4.65E+01
463	489813.71	3860950.05	4.67999	2.71948	5.39758	3.88348	11.85	3.123	2.782	2.71948	3.26E+01	5.02E+00	5.62E-04	1.37E-01	3.71E+00	2.94E-01	1.97E+01	1.85E+01	4.30E+01
464	489863.71	3860950.05	4.4787	2.75526	4.93031	3.73223	12.02	3.099	2.8346	2.75526	3.12E+01	5.09E+00	5.13E-04	1.31E-01	3.77E+00	2.91E-01	2.01E+01	1.87E+01	4.19E+01
465	489913.71	3860950.05	4.28897	2.79842	4.64252	3.6278	12.09	3.102	2.8912	2.79842	2.99E+01	5.17E+00	4.83E-04	1.28E-01	3.79E+00	2.92E-01	2.05E+01	1.90E+01	4.07E+01
466	489963.71	3860950.05	4.10405	2.83795	4.19434	3.52151	11.99	3.088	2.9427	2.83795	2.86E+01	5.24E+00	4.37E-04	1.24E-01	3.76E+00	2.90E-01	2.09E+01	1.93E+01	3.96E+01
467	490013.71	3860950.05	3.96129	2.87621	3.98679	3.4332	11.79	3.072	3.0001	2.87621	2.76E+01	5.31E+00	4.15E-04	1.21E-01	3.69E+00	2.89E-01	2.13E+01	1.96E+01	3.87E+01
468	490063.71	3860950.05	3.90428	2.91367	4.19556	3.35005	11.76	3.048	3.0566	2.91367	2.72E+01	5.38E+00	4.37E-04	1.18E-01	3.68E+00	2.86E-01	2.17E+01	1.98E+01	3.85E+01
469	489513.71	3861000.05	6.14114	2.77093	5.2027	5.85471	7.804	3.521	2.6828	2.77093	4.28E+01	5.12E+00	5.42E-04	2.06E-01	2.45E+00	3.31E-01	1.90E+01	1.88E+01	5.11E+01
470	489563.71	3861000.05	5.86494	2.76386	5.89402	5.35609	8.568	3.436	2.7083	2.76386	4.09E+01	5.10E+00	6.14E-04	1.89E-01	2.68E+00	3.23E-01	1.92E+01	1.88E+01	4.96E+01
471	489613.71	3861000.05	5.60377	2.76326	6.13083	4.97379	9.3	3.366	2.7389	2.76326	3.91E+01	5.10E+00	6.38E-04	1.75E-01	2.91E+00	3.16E-01	1.94E+01	1.88E+01	4.82E+01
472	489663.71	3861000.05	5.342	2.75879	5.93671	4.63471	9.953	3.299	2.7684	2.75879	3.72E+01	5.10E+00	6.18E-04	1.63E-01	3.12E+00	3.10E-01	1.96E+01	1.88E+01	4.68E+01
473	489713.71	3861000.05	5.09405	2.76542	5.65457	4.32798	10.52	3.226	2.7942	2.76542	3.55E+01	5.11E+00	5.89E-04	1.52E-01	3.30E+00	3.03E-01	1.98E+01	1.88E+01	4.54E+01
474	489763.71	3861000.05	4.89556	2.78604	5.2767	4.07234	11.05	3.16	2.8257	2.78604	3.41E+01	5.15E+00	5.49E-04	1.43E-01	3.46E+00	2.97E-01	2.00E+01	1.89E+01	4.43E+01
475	489813.71	3861000.05	4.6992	2.81716	5.20572	3.87952	11.49	3.126	2.8663	2.81716	3.28E+01	5.20E+00	5.42E-04	1.37E-01	3.60E+00	2.94E-01	2.03E+01	1.92E+01	4.31E+01
476	489863.71	3861000.05	4.50164	2.82961	4.77437	3.71728	11.74	3.073	2.8935	2.82961	3.14E+01	5.23E+00	4.97E-04	1.31E-01	3.68E+00	2.89E-01	2.05E+01	1.92E+01	4.20E+01
477	489913.71	3861000.05	4.3187	2.85345	4.51538	3.60948	11.89	3.048	2.9313	2.85345	3.01E+01	5.27E+00	4.70E-04	1.27E-01	3.72E+00	2.86E-01	2.08E+01	1.94E+01	4.09E+01
478	489963.71	3861000.05	4.13849	2.86826	4.10312	3.49648	11.85	3.04	2.9563	2.86826	2.89E+01	5.30E+00	4.27E-04	1.23E-01	3.71E+00	2.86E-01	2.09E+01	1.95E+01	3.97E+01
479	490013.71	3861000.05	3.96712	2.88864	3.83455	3.40784	11.72	3.032	2.9917	2.88864	2.77E+01	5.34E+00	3.99E-04	1.20E-01	3.67E+00	2.85E-01	2.12E+01	1.96E+01	3.86E+01
480	490063.71	3861000.05	3.86726	2.91004	4.05119	3.32281	11.53	3.013	3.0253	2.91004	2.70E+01	5.37E+00	4.22E-04	1.17E-01	3.61E+00	2.83E-01	2.14E+01	1.98E+01	3.80E+01
481	489513.71	3861050.05	6.16681	2.80885	5.19783	5.9166	7.301	3.415	2.7016	2.80885	4.30E+01	5.19E+00	5.41E-04	2.08E-01	2.29E+00	3.21E-01	1.91E+01	1.91E+01	5.10E+01
482	489563.71	3861050.05	5.91345	2.81126	5.80166	5.40076	8.061	3.373	2.7341	2.81126	4.12E+01	5.19E+00	6.04E-04	1.90E-01	2.53E+00	3.17E-01	1.94E+01	1.91E+01	4.97E+01
483	489613.71	3861050.05	5.65485	2.81394	5.98807	5.02796	8.814	3.343	2.7697	2.81394	3.94E+01	5.20E+00	6.23E-04	1.77E-01	2.76E+00	3.14E-01	1.96E+01	1.91E+01	4.84E+01
484	489663.71	3861050.05	5.40486	2.81462	5.73785	4.65069	9.469	3.298	2.8028	2.81462	3.77E+01	5.20E+00	5.97E-04	1.64E-01	2.97E+00	3.10E-01	1.99E+01	1.91E+01	4.70E+01
485	489713.71	3861050.05	5.1562	2.81573	5.44533	4.33572	10.05	3.247	2.8341	2.81573	3.59E+01	5.20E+00	5.67E-04	1.53E-01	3.15E+00	3.05E-01	2.01E+01	1.91E+01	4.57E+01
486	489763.71	3861050.05	4.91278	2.83108	5.07192	4.08057	10.61	3.195	2.869	2.83108	3.43E+01	5.23E+00	5.28E-04	1.44E-01	3.32E+00	3.00E-01	2.03E+01	1.93E+01	4.43E+01
487	489813.71	3861050.05	4.71865	2.86029	5.00279	3.86524	11.08	3.143	2.9108	2.86029	3.29E+01	5.28E+00	5.21E-04	1.36E-01	3.47E+00	2.95E-01	2.06E+01	1.94E+01	4.33E+01
488	489863.71	3861050.05	4.53482	2.8862	4.63178	3.70199	11.42	3.098	2.9465	2.8862	3.16E+01	5.33E+00	4.82E-04	1.30E-01	3.58E+00	2.91E-01	2.09E+01	1.96E+01	4.22E+01
489	489913.71	3861050.05	4.35258	2.91293	4.37281	3.58271	11.62	3.051	2.9848	2.91293	3.03E+01	5.38E+00	4.55E-04	1.26E-01	3.64E+00	2.87E-01	2.11E+01	1.98E+01	4.11E+01
490	489963.71	3861050.05	4.17357	2.93687	4.0094	3.47585	11.68	3.009	3.0217	2.93687	2.91E+01	5.42E+00	4.17E-04	1.22E-01	3.66E+00	2.83E-01	2.14E+01	2.00E+01	4.00E+01
491	490013.71	3861050.05	4.00231	2.96686	3.68327	3.39133	11.64	2.995	3.063	2.96686	2.79E+01	5.48E+00	3.83E-04	1.19E-01	3.65E+00	2.82E-01	2.17E+01	2.02E+01	3.90E+01
492	490063.71	3861050.05	3.84822	2.9914	3.89984	3.30366	11.46	2.97	3.1	2.9914	2.68E+01	5.52E+00	4.06E-04	1.16E-01	3.59E+00	2.79E-01	2.20E+01	2.03E+01	3.80E+01
493	489513.71	3861100.05	6.17276	2.79521	5.20335	5.99005	6.83	3.323	2.6687	2.79521	4.30E+01	5.16E+00	5.42E-04	2.11E-01	2.14E+00	3.12E-01	1.89E+01	1.90E+01	5.08E+01
494	489563.71	3861100.05	5.94607	2.80759	5.70396	5.43415	7.562	3.259	2.7121	2.80759	4.15E+01	5.19E+00	5.94E-04	1.91E-01	2.37E+00	3.06E-01	1.92E+01	1.91E+01	4.96E+01
495	489613.71	3861100.05	5.69887	2.81414	5.78109	4.96391	8.263	3.198	2.7486	2.81414	3.97E+01	5.20E+00	6.02E-04	1.75E-01	2.59E+00	3.01E-01	1.95E+01	1.91E+01	4.83E+01
496	489663.71	3861100.05	5.44938	2.8205	5.52219	4.62556	8.954	3.181	2.7865	2.8205	3.80E+01	5.21E+00	5.75E-04	1.63E-01	2.81E+00	2.99E-01	1.97E+01	1.92E+01	4.70E+01
497	489713.71	3861100.05	5.21521	2.82738	5.23713	4.33217	9.58	3.167	2.8249	2.82738	3.64E+01	5.22E+00	5.45E-04	1.52E-01	3.00E+00	2.98E-01	2.00E+01	1.92E+01	4.58E+01
498	489763.71	3861100.05	4.98163	2.83489	4.862	4.07361	10.13	3.146	2.863	2.83489	3.47E+01	5.24E+00	5.06E-04	1.43E-01	3.17E+00	2.96E-01	2.03E+01	1.93E+01	4.46E+01
499	489813.71	3861100.05	4.75128	2.85572	4.80652	3.85698	10.66	3.122	2.9058	2.85572	3.31E+01	5.27E+00	5.00E-04	1.36E-01	3.34E+00	2.93E-01	2.06E+01	1.94E+01	4.33E+01
500	489863.71	3861100.05	4.56151	2.88963	4.50066	3.69426	11.08	3.095	2.9517	2.88963	3.18E+01	5.34E+00	4.69E-04	1.30E-01	3.47E+00	2.91E-01	2.09E+01	1.96E+01	4.23E+01
501	489913.71	3861100.05	4.37792	2.92013	4.23702	3.56354	11.33	3.051	2.9922	2.92013	3.05E+01	5.39E+00	4.41E-04	1.25E-01	3.55E+00	2.87E-01	2.12E+01	1.99E+01	4.12E+01
502	489963.71	3861100.05	4.20918	2.95204	3.91156	3.45795	11.47	3.009	3.0349	2.95204	2.93E+01	5.45E+00	4.07E-04	1.22E-01	3.59E+00	2.83E-01	2.15E+01	2.01E+01	4.02E+01
503	490013.71	3861100.05	4.04145	2.98226	3.55751	3.35715	11.47	2.963	3.0749	2.98226	2.82E+01	5.51E+00	3.70E-04	1.18E-01	3.59E+00	2.79E-01	2.18E+01	2.03E+01	3.92E+01
504	490063.71	3861100.05	3.87951	3.01361	3.7292	3.27339	11.35	2.943	3.1159	3.01361	2.70E+01	5.57E+00	3.88E-04	1.15E-01	3.56E+00	2.77E-01	2.21E+01	2.05E+01	3.81E+01
505	489713.71	3861150.05	5.26534	2.79803	5.04543	4.33509	9.109	3.109	2.7755	2.79803	3.67E+01	5.17E+00	5.25E-04	1.53E-01	2.85E+00	2.92E-01	1.97E+01	1.90E+01	4.58E+01
506	489763.71	3861150.05	5.0412	2.80867	4.68683	4.08116	9.687	3.078	2.8164	2.80867	3.51E+01	5.19E+00	4.88E-04	1.44E-01	3.04E+00	2.89E-01	2.00E+01	1.91E+01	4.47E+01
507	489813.71	3861150.05	4.81994	2.81923	4.63064	3.86029	10.22	3.048	2.857	2.81923	3.36E+01	5.21E+00	4.82E-04	1.36E-01	3.20E+00	2.87E-01	2.02E+01	1.92E+01	4.35E+01
508	489863.71	3861150.05	4.59925	2.84334	4.34063	3.66694	10.68	3.029	2.9043	2.84334	3.21E+01	5.25E+00	4.52E-04	1.29E-01	3.35E+00	2.85E-01	2.06E+01	1.93E+01	4.23E+01
509	489913.71	3861150.05	4.41091	2.87994	4.09837	3.5412	11.01	3	2.9518	2.87994	3.08E+01	5.32E+00	4.27E-04	1.25E-01	3.45E+00	2.82E-01	2.09E+01	1.96E+01	4.13E+01

510	489963.71	3861150.05	4.23649	2.91545	3.79702	3.42821	11.2	2.964	2.9969	2.91545	2.95E+01	5.38E+00	3.95E-04	1.21E-01	3.51E+00	2.79E-01	2.12E+01	1.98E+01	4.02E+01
511	490013.71	3861150.05	4.0682	2.95118	3.47335	3.32889	11.27	2.924	3.0416	2.95118	2.84E+01	5.45E+00	3.62E-04	1.17E-01	3.53E+00	2.75E-01	2.16E+01	2.01E+01	3.92E+01
512	490063.71	3861150.05	3.91422	2.98698	3.5588	3.24962	11.24	2.884	3.0874	2.98698	2.73E+01	5.52E+00	3.70E-04	1.14E-01	3.52E+00	2.71E-01	2.19E+01	2.03E+01	3.83E+01
513	489613.71	3861200.05	5.75319	2.70682	5.45907	4.9559	7.271	3.108	2.6022	2.70682	4.01E+01	5.00E+00	5.68E-04	1.74E-01	2.28E+00	2.92E-01	1.84E+01	1.84E+01	4.79E+01
514	489663.71	3861200.05	5.54457	2.71865	5.15586	4.62737	7.975	3.061	2.6445	2.71865	3.87E+01	5.02E+00	5.37E-04	1.63E-01	2.50E+00	2.88E-01	1.87E+01	1.85E+01	4.69E+01
515	489713.71	3861200.05	5.32256	2.73054	4.86783	4.34084	8.639	3.042	2.687	2.73054	3.71E+01	5.04E+00	5.07E-04	1.53E-01	2.71E+00	2.86E-01	1.90E+01	1.86E+01	4.58E+01
516	489763.71	3861200.05	5.09411	2.74306	4.52009	4.08532	9.243	3.024	2.7299	2.74306	3.55E+01	5.07E+00	4.71E-04	1.44E-01	2.90E+00	2.84E-01	1.93E+01	1.87E+01	4.46E+01
517	489813.71	3861200.05	4.87802	2.75626	4.46109	3.86191	9.776	3	2.7729	2.75626	3.40E+01	5.09E+00	4.64E-04	1.36E-01	3.06E+00	2.82E-01	1.96E+01	1.87E+01	4.35E+01
518	489863.71	3861200.05	4.66748	2.76822	4.211	3.6702	10.29	2.971	2.8172	2.76822	3.25E+01	5.11E+00	4.38E-04	1.29E-01	3.22E+00	2.79E-01	2.00E+01	1.88E+01	4.24E+01
519	489913.71	3861200.05	4.4553	2.79664	3.9735	3.52922	10.67	2.931	2.8675	2.79664	3.11E+01	5.17E+00	4.14E-04	1.24E-01	3.34E+00	2.75E-01	2.03E+01	1.90E+01	4.13E+01
520	489963.71	3861200.05	4.26933	2.83644	3.69541	3.41245	10.93	2.883	2.9164	2.83644	2.98E+01	5.24E+00	3.85E-04	1.20E-01	3.42E+00	2.71E-01	2.07E+01	1.93E+01	4.02E+01
521	490013.71	3861200.05	4.10642	2.87542	3.39914	3.3167	11.08	2.848	2.9646	2.87542	2.86E+01	5.31E+00	3.54E-04	1.17E-01	3.47E+00	2.68E-01	2.10E+01	1.96E+01	3.92E+01
522	490063.71	3861200.05	3.9446	2.91454	3.3864	3.22682	11.09	2.812	3.0127	2.91454	2.75E+01	5.38E+00	3.53E-04	1.14E-01	3.48E+00	2.64E-01	2.13E+01	1.98E+01	3.83E+01
523	489513.71	3861250.05	6.10981	2.57876	5.00033	5.8045	5.522	3.168	2.4047	2.57876	4.26E+01	4.76E+00	5.21E-04	2.04E-01	1.73E+00	2.98E-01	1.70E+01	1.75E+01	4.91E+01
524	489563.71	3861250.05	5.95767	2.5927	5.33484	5.35966	6.097	3.141	2.4424	2.5927	4.15E+01	4.79E+00	5.55E-04	1.89E-01	1.91E+00	2.95E-01	1.73E+01	1.76E+01	4.84E+01
525	489613.71	3861250.05	5.77541	2.60578	5.322	4.97771	6.81	3.104	2.4825	2.60578	4.03E+01	4.81E+00	5.54E-04	1.75E-01	2.13E+00	2.92E-01	1.76E+01	1.77E+01	4.75E+01
526	489663.71	3861250.05	5.57273	2.62106	4.99462	4.63657	7.505	3.057	2.5253	2.62106	3.89E+01	4.84E+00	5.20E-04	1.63E-01	2.35E+00	2.87E-01	1.79E+01	1.78E+01	4.66E+01
527	489713.71	3861250.05	5.36891	2.63414	4.70437	4.34816	8.177	3.005	2.5685	2.63414	3.74E+01	4.87E+00	4.90E-04	1.53E-01	2.56E+00	2.82E-01	1.82E+01	1.79E+01	4.56E+01
528	489763.71	3861250.05	5.15378	2.64728	4.36707	4.09269	8.799	2.949	2.6121	2.64728	3.59E+01	4.89E+00	4.55E-04	1.44E-01	2.76E+00	2.77E-01	1.85E+01	1.80E+01	4.45E+01
529	489813.71	3861250.05	4.93368	2.66083	4.30289	3.86501	9.353	2.908	2.656	2.66083	3.44E+01	4.91E+00	4.48E-04	1.36E-01	2.93E+00	2.73E-01	1.88E+01	1.81E+01	4.34E+01
530	489863.71	3861250.05	4.72374	2.67555	4.06888	3.66312	9.861	2.888	2.7005	2.67555	3.29E+01	4.94E+00	4.24E-04	1.29E-01	3.09E+00	2.71E-01	1.91E+01	1.82E+01	4.23E+01
531	489913.71	3861250.05	4.52106	2.69059	3.84924	3.51548	10.31	2.862	2.7491	2.69059	3.15E+01	4.97E+00	4.01E-04	1.24E-01	3.23E+00	2.69E-01	1.95E+01	1.83E+01	4.13E+01
532	489963.71	3861250.05	4.31862	2.71904	3.6027	3.40482	10.64	2.828	2.7989	2.71904	3.01E+01	5.02E+00	3.75E-04	1.20E-01	3.33E+00	2.66E-01	1.98E+01	1.85E+01	4.02E+01
533	490013.71	3861250.05	4.13601	2.76128	3.32179	3.3044	10.85	2.786	2.8485	2.76128	2.88E+01	5.10E+00	3.46E-04	1.16E-01	3.40E+00	2.62E-01	2.02E+01	1.88E+01	3.91E+01
534	490063.71	3861250.05	3.98005	2.80346	3.2324	3.20776	10.92	2.736	2.9003	2.80346	2.77E+01	5.18E+00	3.37E-04	1.13E-01	3.42E+00	2.57E-01	2.05E+01	1.91E+01	3.82E+01
535	489528.13	3861308.47	6.04989	2.43914	5.04843	5.66262	5.255	3.074	2.2536	2.43914	4.22E+01	4.50E+00	5.26E-04	1.99E-01	1.65E+00	2.89E-01	1.60E+01	1.66E+01	4.82E+01
536	489578.13	3861308.47	5.91459	2.45564	5.20935	5.22868	5.789	3.053	2.2916	2.45564	4.12E+01	4.54E+00	5.42E-04	1.84E-01	1.81E+00	2.87E-01	1.62E+01	1.67E+01	4.76E+01
537	489628.13	3861308.47	5.75267	2.47112	5.08374	4.86261	6.475	3.035	2.3317	2.47112	4.01E+01	4.56E+00	5.29E-04	1.71E-01	2.03E+00	2.85E-01	1.65E+01	1.68E+01	4.69E+01
538	489678.13	3861308.47	5.5662	2.48468	4.66955	4.55361	7.165	3.011	2.3734	2.48468	3.88E+01	4.59E+00	4.86E-04	1.60E-01	2.25E+00	2.83E-01	1.68E+01	1.69E+01	4.60E+01
539	489728.13	3861308.47	5.35805	2.4988	4.45039	4.27801	7.83	2.977	2.4155	2.4988	3.74E+01	4.62E+00	4.63E-04	1.51E-01	2.45E+00	2.80E-01	1.71E+01	1.70E+01	4.50E+01
540	489778.13	3861308.47	5.15136	2.51362	4.16801	4.02498	8.448	2.932	2.4601	2.51362	3.59E+01	4.64E+00	4.34E-04	1.42E-01	2.65E+00	2.76E-01	1.74E+01	1.71E+01	4.40E+01
541	489678.13	3861358.47	5.60397	2.35095	4.52409	4.55191	6.716	2.944	2.2191	2.35095	3.91E+01	4.34E+00	4.71E-04	1.60E-01	2.10E+00	2.77E-01	1.57E+01	1.60E+01	4.57E+01
542	489728.13	3861358.47	5.41671	2.36562	4.3048	4.27441	7.378	2.927	2.2609	2.36562	3.78E+01	4.37E+00	4.48E-04	1.50E-01	2.31E+00	2.75E-01	1.60E+01	1.61E+01	4.48E+01
543	489528.13	3861408.47	5.99393	2.16089	4.8904	5.65644	4.608	2.965	1.9493	2.16089	4.18E+01	3.99E+00	5.09E-04	1.99E-01	1.44E+00	2.79E-01	1.38E+01	1.47E+01	4.68E+01
544	489578.13	3861408.47	5.89298	2.17872	4.96683	5.22167	5.071	2.894	1.9839	2.17872	4.11E+01	4.02E+00	5.17E-04	1.84E-01	1.59E+00	2.72E-01	1.41E+01	1.48E+01	4.64E+01
545	489628.13	3861408.47	5.77492	2.19246	4.82014	4.88624	5.63	2.859	2.0178	2.19246	4.03E+01	4.05E+00	5.02E-04	1.72E-01	1.76E+00	2.69E-01	1.43E+01	1.49E+01	4.59E+01
546	489678.13	3861408.47	5.62878	2.209	4.39098	4.55813	6.286	2.851	2.0587	2.209	3.92E+01	4.08E+00	4.57E-04	1.60E-01	1.97E+00	2.68E-01	1.46E+01	1.50E+01	4.53E+01
547	489728.13	3861408.47	5.46057	2.22498	4.16906	4.27165	6.935	2.847	2.1001	2.22498	3.81E+01	4.11E+00	4.34E-04	1.50E-01	2.17E+00	2.68E-01	1.49E+01	1.51E+01	4.45E+01
548	489528.13	3861458.47	5.96025	2.01466	4.8154	5.6742	4.329	2.954	1.7916	2.01466	4.16E+01	3.72E+00	5.01E-04	2.00E-01	1.36E+00	2.78E-01	1.27E+01	1.37E+01	4.61E+01
549	489578.13	3861458.47	5.87324	2.03267	4.86405	5.23758	4.754	2.901	1.8245	2.03267	4.09E+01	3.75E+00	5.06E-04	1.84E-01	1.49E+00	2.73E-01	1.29E+01	1.38E+01	4.58E+01
550	489628.13	3861458.47	5.76729	2.04917	4.68382	4.87127	5.24	2.847	1.8594	2.04917	4.02E+01	3.78E+00	4.88E-04	1.71E-01	1.64E+00	2.68E-01	1.32E+01	1.39E+01	4.53E+01
551	489678.13	3861458.47	5.63979	2.06559	4.25849	4.55063	5.865	2.813	1.8972	2.06559	3.93E+01	3.81E+00	4.43E-04	1.60E-01	1.84E+00	2.64E-01	1.34E+01	1.40E+01	4.48E+01
552	489728.13	3861458.47	5.48892	2.08234	4.03395	4.25524	6.498	2.785	1.9378	2.08234	3.83E+01	3.85E+00	4.20E-04	1.50E-01	2.04E+00	2.62E-01	1.37E+01	1.42E+01	4.41E+01
553	489528.13	3861508.47	5.9208	1.87008	4.73344	5.67924	4.07	2.988	1.6379	1.87008	4.13E+01	3.45E+00	4.93E-04	2.00E-01	1.28E+00	2.81E-01	1.16E+01	1.27E+01	4.54E+01
554	489578.13	3861508.47	5.84437	1.88894	4.75206	5.22641	4.453	2.933	1.6699	1.88894	4.07E+01	3.49E+00	4.95E-04	1.84E-01	1.40E+00	2.76E-01	1.18E+01	1.28E+01	4.51E+01
555	489628.13	3861508.47	5.75133	1.9064	4.55163	4.85335	4.901	2.879	1.7029	1.9064	4.01E+01	3.52E+00	4.74E-04	1.71E-01	1.54E+00	2.71E-01	1.21E+01	1.30E+01	4.47E+01
556	489678.13	3861508.47	5.63908	1.92299	4.12698	4.5307	5.457	2.828	1.739	1.92299	3.93E+01	3.55E+00	4.30E-04	1.59E-01	1.71E+00	2.66E-01	1.23E+01	1.31E+01	4.42E+01
557	489728.13	3861508.47	5.50729	1.93869	3.91306	4.24866	6.082	2.799	1.7763	1.93869	3.84E+01	3.58E+00	4.07E-04	1.50E-01	1.91E+00	2.63E-01	1.26E+01	1.32E+01	4.37E+01
558	489628.13	3861558.47	5.7327	1.776	4.43719	4.86446	4.595	2.917	1.5488	1.776	4.00E+01	3.28E+00	4.62E-04	1.71E-01	1.44E+00	2.74E-01	1.10E+01	1.21E+01	4.40E+01
559	489678.13	3861558.47	5.63796	1.79117	4.02647	4.55917	5.091	2.867	1.5804	1.79117	3.93E+01	3.31E+00	4.19E-04	1.60E-01	1.60E+00	2.70E-01	1.12E+01	1.22E+01	4.37E+01
560	489728.13	3861558.47	5.52185	1.80402	3.82053	4.27774	5.702	2.824	1.6149	1.80402	3.85E+01	3.33E+00	3.98E-04	1.51E-01	1.79E+00	2.65E-01	1.14E+01	1.23E+01	4.32E+01
561	489357.08	3861015.81	6.8539	2.78824	5.30439	8.70922	5.663	3.661	2.6062	2.78824	4.78E+01	5.15E+00	5.52E-04	3.07E-01	1.77E+00	3.44E-01	1.85E+01	1.90E+01	5.49E+01
562	489407.08	3861015.81	6.63907	2.78813	4.58824	7.3887	6.189	3.606	2.6324	2.78813	4.63E+01	5.15E+00	4.78E-04	2.60E-01	1.94E+00	3.39E-01	1.87E+01	1.90E+01	5.37E+01
563	489457.08	3861015.81	6.43157	2.78645	4.25602	6.53045	6.792	3.559	2.659	2.78645	4.48E+01	5.15E+00	4.43E-04	2.30E-01	2.13E+00	3.35E-01	1.88E+01	1.89E+01	5.26E+01
564	489357.08	3861065.81	6.81082	2.79228	4.97758	8.80455	5.319	3.546	2.5961	2.79228	4.75E+01	5.16E+00	5.18E-04	3.10E-01	1.67E+00	3.33E-01	1.84E+01	1.90E+01	5.44E+01
565	489407.08	3861065.81	6.56803	2.79988	4.28052	7.462	5.799	3.444	2.6289	2.79988	4.58E+01	5.17E+00	4.46E-04	2.63E-01	1.82E+00	3.24E-01	1.86E+01	1.90E+01	5.30E+01
566	489457.08	3861065.81	6.40268	2.80554	4.16981	6.5878	6.364	3.385	2.6609	2.80554	4.46E+01	5.18E+00	4.34E-04	2.32E-01	1.99E+00	3.18E-01	1.89E+01	1.91E+01	5.21E+01

567	489357.08	3861115.81	6.76176	2.75544	4.65645	8.83495	4.997	3.523	2.5469	2.75544	4.71E+01	5.09E+00	4.85E-04	3.11E-01	1.57E+00	3.31E-01	1.80E+01	1.87E+01	5.37E+01
568	489407.08	3861115.81	6.54482	2.76702	4.00977	7.55677	5.447	3.417	2.5811	2.76702	4.56E+01	5.11E+00	4.17E-04	2.66E-01	1.71E+00	3.21E-01	1.83E+01	1.88E+01	5.25E+01
569	489457.08	3861115.81	6.35822	2.77783	4.23625	6.67535	5.975	3.344	2.6162	2.77783	4.43E+01	5.13E+00	4.41E-04	2.35E-01	1.87E+00	3.14E-01	1.85E+01	1.89E+01	5.15E+01
570	489407.08	3861165.81	6.51756	2.69634	3.88797	7.5981	5.12	3.42	2.4967	2.69634	4.54E+01	4.98E+00	4.05E-04	2.67E-01	1.60E+00	3.21E-01	1.77E+01	1.83E+01	5.20E+01
571	489457.08	3861165.81	6.32528	2.7137	4.27767	6.68662	5.596	3.331	2.537	2.7137	4.41E+01	5.01E+00	4.45E-04	2.35E-01	1.75E+00	3.13E-01	1.80E+01	1.85E+01	5.09E+01
572	489407.08	3861215.81	6.47116	2.61142	3.73001	7.49604	4.778	3.343	2.4016	2.61142	4.51E+01	4.82E+00	3.88E-04	2.64E-01	1.50E+00	3.14E-01	1.70E+01	1.78E+01	5.13E+01
573	489457.08	3861215.81	6.28423	2.6299	4.2782	6.60759	5.216	3.278	2.4394	2.6299	4.38E+01	4.86E+00	4.45E-04	2.33E-01	1.63E+00	3.08E-01	1.73E+01	1.79E+01	5.02E+01
574	489407.08	3861265.81	6.42107	2.50375	3.61839	7.31788	4.468	3.249	2.2827	2.50375	4.48E+01	4.62E+00	3.77E-04	2.58E-01	1.40E+00	3.05E-01	1.62E+01	1.70E+01	5.05E+01
575	489457.08	3861265.81	6.24669	2.52212	4.27304	6.50713	4.868	3.204	2.3198	2.52212	4.36E+01	4.66E+00	4.45E-04	2.29E-01	1.53E+00	3.01E-01	1.64E+01	1.72E+01	4.96E+01
576	489309.86	3861110.14	6.95232	2.74976	5.20491	10.69066	4.678	3.612	2.5237	2.74976	4.85E+01	5.08E+00	5.42E-04	3.76E-01	1.47E+00	3.40E-01	1.79E+01	1.87E+01	5.49E+01
577	489407.08	3861315.81	6.3767	2.3731	3.57593	7.32674	4.214	3.147	2.1438	2.3731	4.45E+01	4.38E+00	3.72E-04	2.58E-01	1.32E+00	2.96E-01	1.52E+01	1.61E+01	4.98E+01
578	489457.08	3861315.81	6.21765	2.39308	4.2815	6.51959	4.569	3.117	2.1782	2.39308	4.33E+01	4.42E+00	4.46E-04	2.29E-01	1.43E+00	2.93E-01	1.54E+01	1.63E+01	4.89E+01
579	488906.03	3861006.75	7.99194	2.65132	7.58333	6.93035	5.221	4.774	2.3453	2.65132	5.57E+01	4.90E+00	7.89E-04	2.44E-01	1.64E+00	4.49E-01	1.66E+01	1.80E+01	6.15E+01
580	488956.03	3861006.75	7.96069	2.66994	7.31207	7.91514	5.21	4.598	2.3651	2.66994	5.55E+01	4.93E+00	7.61E-04	2.79E-01	1.63E+00	4.32E-01	1.68E+01	1.82E+01	6.14E+01
581	488904.24	3861051.87	7.87061	2.54829	7.7129	6.72714	5.248	4.755	2.2614	2.54829	5.49E+01	4.71E+00	8.03E-04	2.37E-01	1.64E+00	4.47E-01	1.60E+01	1.73E+01	6.06E+01
582	488954.24	3861051.87	7.81786	2.61336	6.96904	7.79409	5.17	4.593	2.3117	2.61336	5.45E+01	4.83E+00	7.26E-04	2.74E-01	1.62E+00	4.32E-01	1.64E+01	1.78E+01	6.03E+01
583	489004.24	3861051.87	7.78817	2.61348	6.20617	8.91401	5.137	4.448	2.3157	2.61348	5.43E+01	4.83E+00	6.46E-04	3.14E-01	1.61E+00	4.18E-01	1.64E+01	1.78E+01	6.01E+01
584	488804.24	3861101.87	7.66895	2.44316	7.22584	5.59507	5.303	5.162	2.1611	2.44316	5.35E+01	4.51E+00	7.52E-04	1.97E-01	1.66E+00	4.85E-01	1.53E+01	1.66E+01	5.90E+01
585	488854.24	3861101.87	7.67894	2.46426	7.37937	5.96714	5.224	4.917	2.1763	2.46426	5.35E+01	4.55E+00	7.68E-04	2.10E-01	1.64E+00	4.62E-01	1.54E+01	1.68E+01	5.91E+01
586	488904.24	3861101.87	7.63519	2.54739	6.77026	6.88184	5.035	4.534	2.2571	2.54739	5.32E+01	4.70E+00	7.05E-04	2.42E-01	1.58E+00	4.26E-01	1.60E+01	1.73E+01	5.89E+01
587	488954.24	3861101.87	7.60676	2.59017	6.06088	7.77106	4.988	4.337	2.2987	2.59017	5.30E+01	4.78E+00	6.31E-04	2.74E-01	1.56E+00	4.08E-01	1.63E+01	1.76E+01	5.87E+01
588	489004.24	3861101.87	7.57472	2.61946	5.19849	8.96028	4.933	4.229	2.3285	2.61946	5.28E+01	4.84E+00	5.41E-04	3.15E-01	1.55E+00	3.98E-01	1.65E+01	1.78E+01	5.86E+01
589	488804.24	3861151.87	7.45684	2.39004	6.70895	5.65678	5.141	4.998	2.1284	2.39004	5.20E+01	4.41E+00	6.98E-04	1.99E-01	1.61E+00	4.70E-01	1.51E+01	1.63E+01	5.75E+01
590	488854.24	3861151.87	7.44004	2.4332	6.55792	6.11149	5.023	4.757	2.1613	2.4332	5.19E+01	4.49E+00	6.83E-04	2.15E-01	1.57E+00	4.47E-01	1.53E+01	1.65E+01	5.74E+01
591	489129.49	3861187.55	7.19264	2.54801	5.26329	15.07958	4.553	3.716	2.2727	2.54801	5.01E+01	4.71E+00	5.48E-04	5.31E-01	1.43E+00	3.49E-01	1.61E+01	1.73E+01	5.59E+01
592	489179.49	3861187.55	7.12241	2.57595	5.43261	26.02761	4.478	3.657	2.3073	2.57595	4.97E+01	4.76E+00	5.66E-04	9.16E-01	1.40E+00	3.44E-01	1.63E+01	1.75E+01	5.59E+01
593	488804.24	3861201.87	7.30757	2.2711	6.47656	5.61993	5.083	4.93	2.0256	2.2711	5.09E+01	4.19E+00	6.74E-04	1.98E-01	1.59E+00	4.63E-01	1.44E+01	1.54E+01	5.63E+01
594	488854.24	3861201.87	7.27245	2.31742	6.13144	6.05181	4.97	4.721	2.0611	2.31742	5.07E+01	4.28E+00	6.38E-04	2.13E-01	1.56E+00	4.44E-01	1.46E+01	1.58E+01	5.60E+01
595	489129.49	3861237.55	7.07736	2.42491	5.22288	15.22415	4.497	3.662	2.15	2.42491	4.93E+01	4.48E+00	5.44E-04	5.36E-01	1.41E+00	3.44E-01	1.52E+01	1.65E+01	5.49E+01
596	489179.49	3861237.55	7.01316	2.45965	5.24659	26.28629	4.411	3.517	2.1896	2.45965	4.89E+01	4.54E+00	5.46E-04	9.25E-01	1.38E+00	3.31E-01	1.55E+01	1.67E+01	5.49E+01
597	488804.24	3861251.87	7.16495	2.14321	6.19445	5.61522	5.028	4.868	1.9025	2.14321	5.00E+01	3.96E+00	6.45E-04	1.98E-01	1.58E+00	4.58E-01	1.35E+01	1.46E+01	5.50E+01
598	488854.24	3861251.87	7.13446	2.18551	5.71141	6.0871	4.932	4.677	1.944	2.18551	4.97E+01	4.04E+00	5.95E-04	2.14E-01	1.55E+00	4.40E-01	1.38E+01	1.49E+01	5.49E+01
599	488804.24	3861301.87	7.01419	2.01279	5.80958	5.65622	4.951	4.783	1.7788	2.01279	4.89E+01	3.72E+00	6.05E-04	1.99E-01	1.55E+00	4.50E-01	1.26E+01	1.37E+01	5.37E+01
600	488854.24	3861301.87	6.99909	2.05018	5.26464	6.15862	4.888	4.614	1.8146	2.05018	4.88E+01	3.79E+00	5.48E-04	2.17E-01	1.53E+00	4.34E-01	1.29E+01	1.39E+01	5.37E+01
601	490943.5	3860181.97	5.12226	6.88849	13.36877	7.15967	7.351	5.288	6.1536	6.88849	3.57E+01	1.27E+01	1.39E-03	2.52E-01	2.30E+00	4.97E-01	4.36E+01	4.68E+01	4.82E+01
602	490993.5	3860181.97	5.2114	7.38116	13.63804	7.46526	7.414	5.507	6.6177	7.38116	3.63E+01	1.36E+01	1.42E-03	2.63E-01	2.32E+00	5.18E-01	4.69E+01	5.02E+01	4.98E+01
603	491043.5	3860181.97	5.29557	7.85986	13.5676	8.11956	7.499	5.811	7.0891	7.85986	3.69E+01	1.45E+01	1.41E-03	2.86E-01	2.35E+00	5.46E-01	5.02E+01	5.34E+01	5.14E+01
604	491093.5	3860181.97	5.37642	8.64516	13.29723	8.81126	7.494	6.168	7.7253	8.64516	3.75E+01	1.60E+01	1.38E-03	3.10E-01	2.35E+00	5.80E-01	5.47E+01	5.88E+01	5.26E+01
605	490943.5	3860231.97	4.8816	6.09042	11.80591	6.81442	7.159	4.858	5.3248	6.09042	3.40E+01	1.12E+01	1.23E-03	2.40E-01	2.24E+00	4.57E-01	3.77E+01	4.14E+01	4.45E+01
606	490993.5	3860231.97	4.97402	6.41455	12.65122	6.77517	7.203	5.023	5.7314	6.41455	3.47E+01	1.18E+01	1.32E-03	2.38E-01	2.26E+00	4.72E-01	4.06E+01	4.36E+01	4.65E+01
607	491043.5	3860231.97	5.04958	6.81034	13.03118	6.9021	7.241	5.143	6.1697	6.81034	3.52E+01	1.26E+01	1.36E-03	2.43E-01	2.27E+00	4.83E-01	4.37E+01	4.63E+01	4.82E+01
608	491093.5	3860231.97	5.12191	7.27464	13.10463	7.41935	7.316	5.336	6.5823	7.27464	3.57E+01	1.34E+01	1.36E-03	2.61E-01	2.29E+00	5.02E-01	4.66E+01	4.95E+01	4.94E+01
609	490943.5	3860281.97	4.67716	5.42836	10.11921	6.44523	7.131	4.555	4.7895	5.42836	3.26E+01	1.00E+01	1.05E-03	2.27E-01	2.23E+00	4.28E-01	3.39E+01	3.69E+01	4.25E+01
610	490993.5	3860281.97	4.75572	5.74293	11.04055	6.45775	7.014	4.588	4.9987	5.74293	3.32E+01	1.06E+01	1.15E-03	2.27E-01	2.20E+00	4.31E-01	3.54E+01	3.91E+01	4.30E+01
611	491043.5	3860281.97	4.82814	5.99546	11.77199	6.39031	7.026	4.603	5.3105	5.99546	3.37E+01	1.11E+01	1.23E-03	2.25E-01	2.20E+00	4.33E-01	3.76E+01	4.08E+01	4.45E+01
612	491093.5	3860281.97	4.89944	6.29153	12.30945	6.49742	7.059	4.713	5.72	6.29153	3.42E+01	1.16E+01	1.28E-03	2.29E-01	2.21E+00	4.43E-01	4.05E+01	4.28E+01	4.64E+01
613	490943.5	3860331.97	4.52684	4.81508	8.83397	6.29262	7.04	4.449	4.4619	4.81508	3.16E+01	8.89E+00	9.20E-04	2.21E-01	2.21E+00	4.18E-01	3.16E+01	3.27E+01	4.22E+01
614	490993.5	3860331.97	4.56751	5.09071	9.34834	6.19609	6.956	4.452	4.5763	5.09071	3.18E+01	9.40E+00	9.73E-04	2.18E-01	2.18E+00	4.18E-01	3.24E+01	3.46E+01	4.19E+01
615	491043.5	3860331.97	4.62541	5.36593	10.16071	6.14809	6.837	4.455	4.7111	5.36593	3.22E+01	9.91E+00	1.06E-03	2.16E-01	2.14E+00	4.19E-01	3.34E+01	3.65E+01	4.18E+01
616	491093.5	3860331.97	4.69181	5.63651	10.87967	6.09459	6.845	4.463	4.9237	5.63651	3.27E+01	1.04E+01	1.13E-03	2.15E-01	2.14E+00	4.20E-01	3.49E+01	3.83E+01	4.25E+01
617	490086.72	3859935.12	5.16723	4.50145	14.73423	7.08912	14.18	5.644	4.8011	4.50145	3.60E+01	8.31E+00	1.53E-03	2.50E-01	4.44E+00	5.31E-01	3.40E+01	3.06E+01	5.30E+01
618	490136.72	3859935.12	5.1383	4.74935	16.90255	7.32879	13.54	5.708	4.9699	4.74935	3.58E+01	8.77E+00	1.76E-03	2.58E-01	4.24E+00	5.37E-01	3.52E+01	3.23E+01	5.26E+01
619	490186.72	3859935.12	5.12119	5.01643	15.80822	7.57904	12.75	5.804	5.1083	5.01643	3.57E+01	9.26E+00	1.65E-03	2.67E-01	3.99E+00	5.46E-01	3.62E+01	3.41E+01	5.19E+01
620	490236.72	3859935.12	5.13783	5.36189	15.09223	7.83708	11.84	6.039	5.2254	5.36189	3.58E+01	9.90E+00	1.57E-03	2.76E-01	3.71E+00	5.68E-01	3.70E+01	3.65E+01	5.08E+01
621	490286.72	3859935.12	5.17291	5.84535	14.96139	8.28187	10.84	6.296	5.35	5.84535	3.61E+01	1.08E+01	1.56E-03	2.91E-01	3.40E+00	5.92E-01	3.79E+01	3.97E+01	4.93E+01
622	490336.72	3859935.12	5.241	6.39693	14.16655	8.64179	9.996	6.61	5.6778	6.39693	3.65E+01	1.18E+01	1.47E-03	3.04E-01	3.13E+00	6.21E-01	4.02E+01	4.35E+01	4.91E+01
623	490386.72	3859935.12	5.33438	7.04461	14.22295	9.09611	9.467	6.943	6.2475	7.04461	3.72E+01	1.30E+01	1.48E-03	3.20E-01	2.97E+00	6.53E-01	4.43E+01	4.79E+01	5.05E+01

624	490436.72	3859935.12	5.44854	7.72789	13.99571	9.45983	9.049	7.26	6.7453	7.72789	3.80E+01	1.43E+01	1.46E-03	3.33E-01	2.84E+00	6.82E-01	4.78E+01	5.25E+01	5.14E+01
625	490486.72	3859935.12	5.58228	8.39516	14.5465	9.81473	8.807	7.572	7.4886	8.39516	3.89E+01	1.55E+01	1.51E-03	3.45E-01	2.76E+00	7.12E-01	5.31E+01	5.71E+01	5.42E+01
626	490536.72	3859935.12	5.7644	9.33414	16.04092	10.16112	8.744	7.967	8.3078	9.33414	4.02E+01	1.72E+01	1.67E-03	3.58E-01	2.74E+00	7.49E-01	5.89E+01	6.35E+01	5.67E+01
627	490586.72	3859935.12	5.96342	10.43	17.02499	10.48541	8.63	8.413	9.1189	10.43	4.16E+01	1.93E+01	1.77E-03	3.69E-01	2.70E+00	7.91E-01	6.46E+01	7.09E+01	5.84E+01
628	490636.72	3859935.12	6.1465	11.38331	16.99324	10.76436	8.422	8.826	9.9204	11.38331	4.29E+01	2.10E+01	1.77E-03	3.79E-01	2.64E+00	8.30E-01	7.03E+01	7.74E+01	6.06E+01
629	490686.72	3859935.12	6.34567	12.60641	16.74737	12.19801	8.47	9.425	11.268	12.60641	4.42E+01	2.33E+01	1.74E-03	4.29E-01	2.65E+00	8.86E-01	7.98E+01	8.57E+01	6.56E+01
630	490736.72	3859935.12	6.55343	13.9335	16.16689	13.5824	8.65	10.06	12.625	13.9335	4.57E+01	2.57E+01	1.68E-03	4.78E-01	2.71E+00	9.46E-01	8.95E+01	9.47E+01	7.03E+01
631	490086.72	3859985.12	5.10858	4.01653	11.70068	6.84933	14.24	5.461	4.3608	4.01653	3.56E+01	7.42E+00	1.22E-03	2.41E-01	4.46E+00	5.13E-01	3.09E+01	2.73E+01	5.18E+01
632	490136.72	3859985.12	5.07178	4.21545	14.27219	6.96803	13.77	5.418	4.5349	4.21545	3.54E+01	7.79E+00	1.49E-03	2.45E-01	4.31E+00	5.09E-01	3.21E+01	2.87E+01	5.17E+01
633	490186.72	3859985.12	5.04629	4.43961	15.09103	7.1958	13.15	5.376	4.6992	4.43961	3.52E+01	8.20E+00	1.57E-03	2.53E-01	4.12E+00	5.05E-01	3.33E+01	3.02E+01	5.14E+01
634	490236.72	3859985.12	5.03155	4.69905	14.14412	7.43351	12.39	5.381	4.8424	4.69905	3.51E+01	8.68E+00	1.47E-03	2.62E-01	3.88E+00	5.06E-01	3.43E+01	3.20E+01	5.08E+01
635	490286.72	3859985.12	5.03641	4.986	13.88111	7.6268	11.48	5.601	4.9348	4.986	3.51E+01	9.21E+00	1.45E-03	2.68E-01	3.60E+00	5.26E-01	3.50E+01	3.39E+01	4.98E+01
636	490336.72	3859985.12	5.05716	5.40376	13.77303	8.00689	10.5	5.839	5.0327	5.40376	3.53E+01	9.98E+00	1.43E-03	2.82E-01	3.29E+00	5.49E-01	3.57E+01	3.67E+01	4.83E+01
637	490386.72	3859985.12	5.08977	5.86817	13.15224	8.26825	9.696	6.105	5.2493	5.86817	3.55E+01	1.08E+01	1.37E-03	2.91E-01	3.04E+00	5.74E-01	3.72E+01	3.99E+01	4.75E+01
638	490436.72	3859985.12	5.15998	6.39638	13.24274	8.62466	9.186	6.393	5.6477	6.39638	3.60E+01	1.18E+01	1.38E-03	3.04E-01	2.88E+00	6.01E-01	4.00E+01	4.35E+01	4.81E+01
639	490486.72	3859985.12	5.25679	6.98962	13.18073	9.00686	8.791	6.683	6.0985	6.98962	3.66E+01	1.29E+01	1.37E-03	3.17E-01	2.75E+00	6.28E-01	4.32E+01	4.75E+01	4.89E+01
640	490536.72	3859985.12	5.37449	7.60903	13.52733	9.3015	8.576	6.988	6.6413	7.60903	3.75E+01	1.41E+01	1.41E-03	3.27E-01	2.69E+00	6.57E-01	4.71E+01	5.17E+01	5.05E+01
641	490586.72	3859985.12	5.52265	8.23824	14.87523	9.52638	8.516	7.311	7.3724	8.23824	3.85E+01	1.52E+01	1.55E-03	3.35E-01	2.67E+00	6.87E-01	5.22E+01	5.60E+01	5.36E+01
642	490636.72	3859985.12	5.69341	9.12671	16.14651	9.69237	8.409	7.663	8.0566	9.12671	3.97E+01	1.69E+01	1.68E-03	3.41E-01	2.63E+00	7.20E-01	5.71E+01	6.21E+01	5.53E+01
643	490686.72	3859985.12	5.8756	10.10896	16.98747	9.99753	8.273	8.086	8.8611	10.10896	4.10E+01	1.87E+01	1.77E-03	3.52E-01	2.59E+00	7.60E-01	6.28E+01	6.87E+01	5.74E+01
644	490736.72	3859985.12	6.02647	10.90412	16.70292	10.68319	8.26	8.414	9.5818	10.90412	4.20E+01	2.01E+01	1.74E-03	3.76E-01	2.59E+00	7.91E-01	6.79E+01	7.41E+01	5.97E+01
645	490786.72	3859985.12	6.16991	11.70627	16.09657	11.65124	8.394	8.769	10.513	11.70627	4.30E+01	2.16E+01	1.68E-03	4.10E-01	2.63E+00	8.24E-01	7.45E+01	7.96E+01	6.34E+01
646	490086.72	3860035.12	5.0628	3.59901	12.34986	6.45949	14.48	5.297	4.0612	3.59901	3.53E+01	6.65E+00	1.29E-03	2.27E-01	4.54E+00	4.98E-01	2.88E+01	2.45E+01	5.15E+01
647	490136.72	3860035.12	5.01184	3.77414	10.89811	6.60369	13.86	5.254	4.1714	3.77414	3.49E+01	6.97E+00	1.13E-03	2.32E-01	4.34E+00	4.94E-01	2.96E+01	2.57E+01	5.09E+01
648	490186.72	3860035.12	4.97243	3.96308	13.52579	6.69129	13.39	5.202	4.3298	3.96308	3.47E+01	7.32E+00	1.41E-03	2.36E-01	4.20E+00	4.89E-01	3.07E+01	2.69E+01	5.06E+01
649	490236.72	3860035.12	4.94753	4.16545	13.79446	6.87513	12.76	5.142	4.4674	4.16545	3.45E+01	7.69E+00	1.44E-03	2.42E-01	4.00E+00	4.83E-01	3.17E+01	2.83E+01	5.02E+01
650	490286.72	3860035.12	4.93473	4.38767	12.45846	7.03362	11.97	5.113	4.5707	4.38767	3.44E+01	8.10E+00	1.30E-03	2.48E-01	3.75E+00	4.81E-01	3.24E+01	2.98E+01	4.95E+01
651	490336.72	3860035.12	4.9391	4.66571	12.72355	7.22539	11.12	5.213	4.6608	4.66571	3.44E+01	8.62E+00	1.32E-03	2.54E-01	3.48E+00	4.90E-01	3.30E+01	3.17E+01	4.86E+01
652	490386.72	3860035.12	4.94574	5.00761	12.55613	7.54554	10.14	5.295	4.7521	5.00761	3.45E+01	9.25E+00	1.31E-03	2.66E-01	3.18E+00	4.98E-01	3.37E+01	3.41E+01	4.73E+01
653	490436.72	3860035.12	4.96921	5.42237	12.20199	7.80433	9.403	5.522	4.9078	5.42237	3.46E+01	1.00E+01	1.27E-03	2.75E-01	2.95E+00	5.19E-01	3.48E+01	3.69E+01	4.63E+01
654	490486.72	3860035.12	5.00906	5.87372	12.34643	8.10293	8.926	5.774	5.1797	5.87372	3.49E+01	1.08E+01	1.29E-03	2.85E-01	2.80E+00	5.43E-01	3.67E+01	3.99E+01	4.62E+01
655	490536.72	3860035.12	5.08371	6.3962	12.45752	8.4597	8.559	6.038	5.605	6.3962	3.54E+01	1.18E+01	1.30E-03	2.98E-01	2.68E+00	5.68E-01	3.97E+01	4.35E+01	4.70E+01
656	490586.72	3860035.12	5.18325	6.93466	12.48529	8.69094	8.344	6.283	5.9798	6.93466	3.61E+01	1.28E+01	1.30E-03	3.06E-01	2.61E+00	5.91E-01	4.24E+01	4.72E+01	4.77E+01
657	490636.72	3860035.12	5.30545	7.41058	13.57645	8.74146	8.258	6.488	6.515	7.41058	3.70E+01	1.37E+01	1.41E-03	3.08E-01	2.59E+00	6.10E-01	4.62E+01	5.04E+01	5.00E+01
658	490686.72	3860035.12	5.45125	7.99053	14.92867	8.822	8.157	6.766	7.1243	7.99053	3.80E+01	1.48E+01	1.55E-03	3.11E-01	2.56E+00	6.36E-01	5.05E+01	5.43E+01	5.24E+01
659	490736.72	3860035.12	5.61474	8.86475	16.01899	9.06441	8.041	7.137	7.7823	8.86475	3.91E+01	1.64E+01	1.67E-03	3.19E-01	2.52E+00	6.71E-01	5.51E+01	6.03E+01	5.39E+01
660	490786.72	3860035.12	5.7479	9.55528	16.12021	9.46388	8.027	7.401	8.3482	9.55528	4.01E+01	1.76E+01	1.68E-03	3.33E-01	2.52E+00	6.96E-01	5.92E+01	6.50E+01	5.54E+01
661	490836.72	3860035.12	5.87081	10.18482	15.73544	10.32343	8.137	7.678	8.9525	10.18482	4.09E+01	1.88E+01	1.64E-03	3.63E-01	2.55E+00	7.22E-01	6.34E+01	6.93E+01	5.76E+01
662	490086.72	3860085.12	5.05926	3.36445	12.84828	6.09362	14.85	5.317	3.8978	3.36445	3.53E+01	6.21E+00	1.34E-03	2.14E-01	4.65E+00	5.00E-01	2.76E+01	2.29E+01	5.16E+01
663	490136.72	3860085.12	4.98964	3.41283	10.33046	6.23512	13.96	5.115	3.9799	3.41283	3.48E+01	6.30E+00	1.08E-03	2.19E-01	4.37E+00	4.81E-01	2.82E+01	2.32E+01	5.12E+01
664	490186.72	3860085.12	4.94528	3.5908	10.97782	6.38362	13.53	5.092	4.0862	3.5908	3.45E+01	6.63E+00	1.14E-03	2.25E-01	4.24E+00	4.79E-01	2.90E+01	2.44E+01	5.06E+01
665	490236.72	3860085.12	4.90198	3.74812	12.63274	6.4503	13.03	5.053	4.2087	3.74812	3.42E+01	6.92E+00	1.32E-03	2.27E-01	4.08E+00	4.75E-01	2.98E+01	2.55E+01	5.02E+01
666	490286.72	3860085.12	4.87062	3.92799	12.59701	6.61574	12.39	5.003	4.3214	3.92799	3.40E+01	7.25E+00	1.31E-03	2.33E-01	3.88E+00	4.70E-01	3.06E+01	2.67E+01	4.97E+01
667	490336.72	3860085.12	4.85175	4.1195	11.15832	6.74829	11.6	4.942	4.4075	4.1195	3.38E+01	7.61E+00	1.16E-03	2.38E-01	3.64E+00	4.65E-01	3.12E+01	2.80E+01	4.90E+01
668	490386.72	3860085.12	4.84367	4.35632	11.61618	6.86223	10.74	4.991	4.4537	4.35632	3.38E+01	8.05E+00	1.21E-03	2.42E-01	3.36E+00	4.69E-01	3.16E+01	2.96E+01	4.78E+01
669	490436.72	3860085.12	4.84611	4.6653	11.53538	7.15591	9.816	5.046	4.537	4.6653	3.38E+01	8.62E+00	1.20E-03	2.52E-01	3.08E+00	4.74E-01	3.21E+01	3.17E+01	4.66E+01
670	490486.72	3860085.12	4.85898	5.03114	11.32101	7.3706	9.115	5.121	4.6232	5.03114	3.39E+01	9.29E+00	1.18E-03	2.59E-01	2.86E+00	4.81E-01	3.28E+01	3.42E+01	4.53E+01
671	490536.72	3860085.12	4.89007	5.43184	11.51341	7.6419	8.677	5.232	4.8166	5.43184	3.41E+01	1.00E+01	1.20E-03	2.69E-01	2.72E+00	4.92E-01	3.41E+01	3.69E+01	4.48E+01
672	490586.72	3860085.12	4.93315	5.87513	11.69611	7.91873	8.32	5.396	5.1861	5.87513	3.44E+01	1.09E+01	1.22E-03	2.79E-01	2.61E+00	5.07E-01	3.67E+01	4.00E+01	4.54E+01
673	490636.72	3860085.12	5.01715	6.33574	11.59547	8.11317	8.1	5.558	5.5201	6.33574	3.50E+01	1.17E+01	1.21E-03	2.86E-01	2.54E+00	5.22E-01	3.91E+01	4.31E+01	4.61E+01
674	490686.72	3860085.12	5.13072	6.80652	12.59433	8.25581	8.049	5.753	5.8624	6.80652	3.58E+01	1.26E+01	1.31E-03	2.91E-01	2.52E+00	5.41E-01	4.15E+01	4.63E+01	4.69E+01
675	490736.72	3860085.12	5.25772	7.26977	13.86713	8.35513	7.958	5.976	6.429	7.26977	3.67E+01	1.34E+01	1.44E-03	2.94E-01	2.49E+00	5.62E-01	4.56E+01	4.94E+01	4.96E+01
676	490786.72	3860085.12	5.38796	7.83906	14.92006	8.42975	7.813	6.227	6.944	7.83906	3.76E+01	1.45E+01	1.55E-03	2.97E-01	2.45E+00	5.85E-01	4.92E+01	5.33E+01	5.13E+01
677	490836.72	3860085.12	5.50433	8.44537	15.29374	8.50665	7.793	6.432	7.4113	8.44537	3.84E+01	1.56E+01	1.59E-03	2.99E-01	2.44E+00	6.05E-01	5.25E+01	5.74E+01	5.24E+01
678	490086.72	3860135.12	5.011	3.22371	11.72628	5.62115	14.84	5.113	3.6532	3.22371	3.49E+01	5.95E+00	1.22E-03	1.98E-01	4.65E+00	4.81E-01	2.59E+01	2.19E+01	5.02E+01
679	490136.72	3860135.12	4.96158	3.28323	10.86413	5.83046	14.21	5.033	3.7852	3.28323	3.46E+01	6.06E+00	1.13E-03	2.05E-01	4.45E+00	4.73E-01	2.68E+01	2.23E+01	5.03E+01
680	490186.72	3860135.12	4.91533	3.33822	8.92993	6.0053	13.48	4.95	3.9008	3.33822	3.43E+01	6.17E+00	9.30E-04	2.11E-01	4.22E+00	4.65E-01	2.76E+01	2.27E+01	5.03E+01

681	490236.72	3860135.12	4.86745	3.39448	10.61351	6.10818	13.13	4.929	3.9822	3.39448	3.39E+01	6.27E+00	1.10E-03	2.15E-01	4.12E+00	4.63E-01	2.82E+01	2.31E+01	5.01E+01
682	490286.72	3860135.12	4.82672	3.55019	11.55051	6.15014	12.65	4.892	4.1102	3.55019	3.37E+01	6.56E+00	1.20E-03	2.16E-01	3.96E+00	4.60E-01	2.91E+01	2.41E+01	4.98E+01
683	490336.72	3860135.12	4.7941	3.72888	11.41678	6.29528	12.01	4.838	4.2188	3.72888	3.34E+01	6.89E+00	1.19E-03	2.22E-01	3.76E+00	4.55E-01	2.99E+01	2.54E+01	4.93E+01
684	490386.72	3860135.12	4.77195	3.90626	10.14196	6.40357	11.24	4.769	4.2937	3.90626	3.33E+01	7.21E+00	1.06E-03	2.25E-01	3.52E+00	4.48E-01	3.04E+01	2.66E+01	4.85E+01
685	490436.72	3860135.12	4.7568	4.09206	10.68799	6.47844	10.38	4.743	4.332	4.09206	3.32E+01	7.56E+00	1.11E-03	2.28E-01	3.25E+00	4.46E-01	3.07E+01	2.78E+01	4.75E+01
686	490486.72	3860135.12	4.75345	4.35925	10.63202	6.74761	9.518	4.793	4.4137	4.35925	3.31E+01	8.05E+00	1.11E-03	2.37E-01	2.98E+00	4.51E-01	3.13E+01	2.96E+01	4.65E+01
687	490536.72	3860135.12	4.76442	4.70182	10.60489	6.98373	8.86	4.88	4.4826	4.70182	3.32E+01	8.68E+00	1.10E-03	2.46E-01	2.78E+00	4.59E-01	3.18E+01	3.20E+01	4.52E+01
688	490586.72	3860135.12	4.78364	5.0558	10.74894	7.21093	8.439	4.979	4.5694	5.0558	3.34E+01	9.34E+00	1.12E-03	2.54E-01	2.64E+00	4.68E-01	3.24E+01	3.44E+01	4.41E+01
689	490636.72	3860135.12	4.8127	5.43718	10.98703	7.45216	8.088	5.069	4.8293	5.43718	3.36E+01	1.00E+01	1.14E-03	2.62E-01	2.53E+00	4.76E-01	3.42E+01	3.70E+01	4.41E+01
690	490686.72	3860135.12	4.8764	5.84122	10.95741	7.6126	7.876	5.189	5.1467	5.84122	3.40E+01	1.08E+01	1.14E-03	2.68E-01	2.47E+00	4.88E-01	3.65E+01	3.97E+01	4.48E+01
691	490736.72	3860135.12	4.97106	6.25939	11.53925	7.7215	7.826	5.295	5.4341	6.25939	3.47E+01	1.16E+01	1.20E-03	2.72E-01	2.45E+00	4.98E-01	3.85E+01	4.26E+01	4.54E+01
692	490786.72	3860135.12	5.08148	6.68131	12.74861	7.79399	7.745	5.413	5.8072	6.68131	3.54E+01	1.23E+01	1.33E-03	2.74E-01	2.43E+00	5.09E-01	4.11E+01	4.54E+01	4.67E+01
693	490836.72	3860135.12	5.18601	7.01848	13.71729	7.78476	7.586	5.531	6.2236	7.01848	3.62E+01	1.30E+01	1.43E-03	2.74E-01	2.38E+00	5.20E-01	4.41E+01	4.77E+01	4.87E+01
694	490086.72	3860185.12	4.96567	3.06395	10.49821	5.26612	14.86	4.947	3.4592	3.06395	3.46E+01	5.66E+00	1.09E-03	1.85E-01	4.65E+00	4.65E-01	2.45E+01	2.08E+01	4.93E+01
695	490136.72	3860185.12	4.92081	3.14673	10.93196	5.42552	14.36	4.941	3.6045	3.14673	3.43E+01	5.81E+00	1.14E-03	1.91E-01	4.50E+00	4.64E-01	2.55E+01	2.14E+01	4.94E+01
696	490186.72	3860185.12	4.87798	3.2262	9.49315	5.62541	13.74	4.894	3.7351	3.2262	3.40E+01	5.96E+00	9.88E-04	1.98E-01	4.30E+00	4.60E-01	2.65E+01	2.19E+01	4.95E+01
697	490236.72	3860185.12	4.83289	3.29954	8.39776	5.74951	13.12	4.811	3.833	3.29954	3.37E+01	6.09E+00	8.74E-04	2.02E-01	4.11E+00	4.52E-01	2.72E+01	2.24E+01	4.93E+01
698	490286.72	3860185.12	4.79007	3.37143	10.16485	5.80852	12.77	4.781	3.9167	3.37143	3.34E+01	6.23E+00	1.06E-03	2.04E-01	4.00E+00	4.49E-01	2.78E+01	2.29E+01	4.91E+01
699	490336.72	3860185.12	4.74997	3.44464	10.5407	5.82222	12.27	4.752	4.0341	3.44464	3.31E+01	6.36E+00	1.10E-03	2.05E-01	3.84E+00	4.47E-01	2.86E+01	2.34E+01	4.91E+01
700	490386.72	3860185.12	4.71864	3.56653	10.32659	5.9547	11.63	4.707	4.1356	3.56653	3.29E+01	6.59E+00	1.08E-03	2.10E-01	3.64E+00	4.42E-01	2.93E+01	2.43E+01	4.88E+01
701	490436.72	3860185.12	4.6948	3.73229	9.39604	6.05987	10.88	4.659	4.2078	3.73229	3.27E+01	6.89E+00	9.78E-04	2.13E-01	3.41E+00	4.38E-01	2.98E+01	2.54E+01	4.81E+01
702	490486.72	3860185.12	4.67779	3.89826	9.90774	6.13444	10.05	4.648	4.2465	3.89826	3.26E+01	7.20E+00	1.03E-03	2.16E-01	3.15E+00	4.37E-01	3.01E+01	2.65E+01	4.72E+01
703	490536.72	3860185.12	4.67137	4.09233	9.89069	6.40056	9.249	4.653	4.3205	4.09233	3.26E+01	7.56E+00	1.03E-03	2.25E-01	2.90E+00	4.37E-01	3.06E+01	2.78E+01	4.65E+01
704	490586.72	3860185.12	4.67678	4.406	9.94484	6.63051	8.611	4.728	4.3854	4.406	3.26E+01	8.14E+00	1.04E-03	2.33E-01	2.70E+00	4.44E-01	3.11E+01	3.00E+01	4.52E+01
705	490636.72	3860185.12	4.68512	4.71989	10.02234	6.80986	8.204	4.801	4.4331	4.71989	3.27E+01	8.72E+00	1.04E-03	2.40E-01	2.57E+00	4.51E-01	3.14E+01	3.21E+01	4.40E+01
706	490686.72	3860185.12	4.7068	5.06634	10.32516	7.04974	7.872	4.881	4.5852	5.06634	3.28E+01	9.36E+00	1.07E-03	2.48E-01	2.47E+00	4.59E-01	3.25E+01	3.45E+01	4.34E+01
707	490736.72	3860185.12	4.75001	5.4157	10.3032	7.16943	7.659	4.927	4.8187	5.4157	3.31E+01	1.00E+01	1.07E-03	2.52E-01	2.40E+00	4.63E-01	3.41E+01	3.68E+01	4.36E+01
708	490786.72	3860185.12	4.83102	5.79704	10.61655	7.24677	7.617	5.009	5.0961	5.79704	3.37E+01	1.07E+01	1.11E-03	2.55E-01	2.39E+00	4.71E-01	3.61E+01	3.94E+01	4.42E+01
709	490836.72	3860185.12	4.92042	6.16062	11.70207	7.24496	7.526	5.072	5.3346	6.16062	3.43E+01	1.14E+01	1.22E-03	2.55E-01	2.36E+00	4.77E-01	3.78E+01	4.19E+01	4.47E+01
710	490086.72	3860235.12	4.92326	2.91744	9.14716	5.01183	14.82	4.701	3.3378	2.91744	3.43E+01	5.39E+00	9.52E-04	1.76E-01	4.64E+00	4.42E-01	2.36E+01	1.98E+01	4.88E+01
711	490136.72	3860235.12	4.88462	2.99045	10.38216	5.15077	14.42	4.705	3.412	2.99045	3.41E+01	5.52E+00	1.08E-03	1.81E-01	4.52E+00	4.42E-01	2.42E+01	2.03E+01	4.86E+01
712	490186.72	3860235.12	4.84402	3.09023	9.83353	5.31119	13.9	4.724	3.5495	3.09023	3.38E+01	5.71E+00	1.02E-03	1.87E-01	4.36E+00	4.44E-01	2.51E+01	2.10E+01	4.86E+01
713	490236.72	3860235.12	4.80006	3.18347	8.22898	5.47718	13.26	4.704	3.6747	3.18347	3.35E+01	5.88E+00	8.57E-04	1.93E-01	4.15E+00	4.42E-01	2.60E+01	2.16E+01	4.85E+01
714	490286.72	3860235.12	4.75657	3.26132	8.34286	5.58279	12.78	4.649	3.7843	3.26132	3.32E+01	6.02E+00	8.69E-04	1.96E-01	4.00E+00	4.37E-01	2.68E+01	2.22E+01	4.85E+01
715	490336.72	3860235.12	4.71669	3.34651	9.60817	5.62889	12.42	4.599	3.8708	3.34651	3.29E+01	6.18E+00	1.00E-03	1.98E-01	3.89E+00	4.32E-01	2.74E+01	2.28E+01	4.83E+01
716	490386.72	3860235.12	4.68061	3.4222	9.81147	5.62786	11.92	4.582	3.9772	3.4222	3.26E+01	6.32E+00	1.02E-03	1.98E-01	3.73E+00	4.31E-01	2.82E+01	2.33E+01	4.82E+01
717	490436.72	3860235.12	4.65044	3.49836	9.41975	5.75509	11.29	4.558	4.0731	3.49836	3.24E+01	6.46E+00	9.81E-04	2.03E-01	3.54E+00	4.28E-01	2.89E+01	2.38E+01	4.81E+01
718	490486.72	3860235.12	4.62384	3.59341	8.8643	5.84452	10.55	4.531	4.1409	3.59341	3.22E+01	6.64E+00	9.23E-04	2.06E-01	3.31E+00	4.26E-01	2.93E+01	2.44E+01	4.77E+01
719	490536.72	3860235.12	4.60608	3.74096	9.25393	5.91347	9.751	4.537	4.1786	3.74096	3.21E+01	6.91E+00	9.63E-04	2.08E-01	3.06E+00	4.26E-01	2.96E+01	2.54E+01	4.69E+01
720	490586.72	3860235.12	4.59629	3.90671	9.31009	6.16189	8.996	4.531	4.2434	3.90671	3.20E+01	7.22E+00	9.69E-04	2.17E-01	2.82E+00	4.26E-01	3.01E+01	2.66E+01	4.62E+01
721	490636.72	3860235.12	4.59306	4.1414	9.32027	6.35342	8.362	4.574	4.3018	4.1414	3.20E+01	7.65E+00	9.70E-04	2.24E-01	2.62E+00	4.30E-01	3.05E+01	2.82E+01	4.53E+01
722	490686.72	3860235.12	4.59807	4.4285	9.38418	6.51723	7.989	4.653	4.3717	4.4285	3.21E+01	8.18E+00	9.77E-04	2.29E-01	2.50E+00	4.37E-01	3.10E+01	3.01E+01	4.43E+01
723	490736.72	3860235.12	4.60917	4.7349	9.68561	6.71893	7.661	4.715	4.442	4.7349	3.21E+01	8.75E+00	1.01E-03	2.36E-01	2.40E+00	4.43E-01	3.15E+01	3.22E+01	4.32E+01
724	490786.72	3860235.12	4.6424	5.06179	9.71204	6.83863	7.459	4.76	4.5792	5.06179	3.24E+01	9.35E+00	1.01E-03	2.41E-01	2.34E+00	4.47E-01	3.24E+01	3.44E+01	4.28E+01
725	490086.72	3860285.12	4.85083	2.79854	7.88044	4.77221	14.79	4.611	3.1815	2.79854	3.38E+01	5.17E+00	8.20E-04	1.68E-01	4.64E+00	4.33E-01	2.25E+01	1.90E+01	4.77E+01
726	490136.72	3860285.12	4.82801	2.87631	9.47588	4.90391	14.4	4.543	3.272	2.87631	3.37E+01	5.31E+00	9.86E-04	1.73E-01	4.51E+00	4.27E-01	2.32E+01	1.96E+01	4.77E+01
727	490186.72	3860285.12	4.79669	2.9386	9.70273	5.03664	13.97	4.537	3.3508	2.9386	3.34E+01	5.43E+00	1.01E-03	1.77E-01	4.38E+00	4.26E-01	2.37E+01	2.00E+01	4.76E+01
728	490236.72	3860285.12	4.76341	3.00406	8.91417	5.19546	13.45	4.533	3.4932	3.00406	3.32E+01	5.55E+00	9.28E-04	1.83E-01	4.21E+00	4.26E-01	2.48E+01	2.04E+01	4.79E+01
729	490286.72	3860285.12	4.7233	3.10452	7.22962	5.33507	12.8	4.53	3.6221	3.10452	3.29E+01	5.73E+00	7.53E-04	1.88E-01	4.01E+00	4.26E-01	2.57E+01	2.11E+01	4.78E+01
730	490336.72	3860285.12	4.6838	3.20578	8.14519	5.42301	12.44	4.493	3.732	3.20578	3.27E+01	5.92E+00	8.48E-04	1.91E-01	3.90E+00	4.22E-01	2.64E+01	2.18E+01	4.77E+01
731	490386.72	3860285.12	4.64834	3.30636	9.01474	5.46264	12.09	4.449	3.8195	3.30636	3.24E+01	6.11E+00	9.38E-04	1.92E-01	3.79E+00	4.18E-01	2.71E+01	2.25E+01	4.75E+01
732	490436.72	3860285.12	4.61341	3.39401	9.11733	5.45248	11.58	4.427	3.9144	3.39401	3.22E+01	6.27E+00	9.49E-04	1.92E-01	3.63E+00	4.16E-01	2.77E+01	2.31E+01	4.73E+01
733	490486.72	3860285.12	4.58307	3.47417	8.6024	5.54344	10.96	4.409	4.0111	3.47417	3.20E+01	6.42E+00	8.96E-04	1.95E-01	3.43E+00	4.14E-01	2.84E+01	2.36E+01	4.72E+01
734	490536.72	3860285.12	4.55551	3.54362	8.37589	5.61331	10.23	4.392	4.079	3.54362	3.18E+01	6.54E+00	8.72E-04	1.98E-01	3.21E+00	4.13E-01	2.89E+01	2.41E+01	4.69E+01
735	490586.72	3860285.12	4.53461	3.6288	8.69053	5.65401	9.447	4.394	4.1173	3.6288	3.16E+01	6.70E+00	9.05E-04	1.99E-01	2.96E+00	4.13E-01	2.92E+01	2.47E+01	4.64E+01
736	490636.72	3860285.12	4.52128	3.76541	8.74596	5.86805	8.736	4.383	4.1771	3.76541	3.15E+01	6.95E+00	9.11E-04	2.07E-01	2.74E+00	4.12E-01	2.96E+01	2.56E+01	4.58E+01
737	490686.72	3860285.12	4.51551	3.94538	8.7638	6.06918	8.124	4.375	4.2548	3.94538	3.15E+01	7.29E+00	9.12E-04	2.14E-01	2.55E+00	4.11E-01	3.01E+01	2.68E+01	4.53E+01

738	490736.72	3860285.12	4.51451	4.18234	8.78708	6.21397	7.773	4.43	4.3209	4.18234	3.15E+01	7.72E+00	9.15E-04	2.19E-01	2.44E+00	4.16E-01	3.06E+01	2.84E+01	4.44E+01
739	490786.72	3860285.12	4.53035	4.44548	9.11199	6.41525	7.465	4.486	4.3896	4.44548	3.16E+01	8.21E+00	9.49E-04	2.26E-01	2.34E+00	4.22E-01	3.11E+01	3.02E+01	4.37E+01
740	490086.72	3860335.12	4.78119	2.80092	6.91739	4.55329	14.82	4.516	3.1	2.80092	3.33E+01	5.17E+00	7.20E-04	1.60E-01	4.64E+00	4.24E-01	2.20E+01	1.90E+01	4.67E+01
741	490136.72	3860335.12	4.75858	2.78767	8.37608	4.67534	14.35	4.494	3.0772	2.78767	3.32E+01	5.15E+00	8.72E-04	1.65E-01	4.50E+00	4.22E-01	2.18E+01	1.90E+01	4.63E+01
742	490186.72	3860335.12	4.7288	2.84624	9.25532	4.79197	13.97	4.43	3.1769	2.84624	3.30E+01	5.26E+00	9.64E-04	1.69E-01	4.38E+00	4.16E-01	2.25E+01	1.94E+01	4.63E+01
743	490236.72	3860335.12	4.70869	2.90356	9.09365	4.9306	13.55	4.396	3.2667	2.90356	3.28E+01	5.36E+00	9.47E-04	1.74E-01	4.25E+00	4.13E-01	2.31E+01	1.97E+01	4.64E+01
744	490286.72	3860335.12	4.67855	2.96642	7.88508	5.07696	13	4.405	3.4105	2.96642	3.26E+01	5.48E+00	8.21E-04	1.79E-01	4.07E+00	4.14E-01	2.42E+01	2.02E+01	4.68E+01
745	490336.72	3860335.12	4.64491	3.03148	6.70253	5.19999	12.36	4.418	3.5376	3.03148	3.24E+01	5.60E+00	6.98E-04	1.83E-01	3.87E+00	4.15E-01	2.51E+01	2.06E+01	4.69E+01
746	490386.72	3860335.12	4.61138	3.11863	7.90848	5.27694	12.13	4.407	3.6539	3.11863	3.21E+01	5.76E+00	8.23E-04	1.86E-01	3.80E+00	4.14E-01	2.59E+01	2.12E+01	4.70E+01
747	490436.72	3860335.12	4.57795	3.22252	8.39451	5.29909	11.76	4.378	3.7491	3.22252	3.19E+01	5.95E+00	8.74E-04	1.87E-01	3.68E+00	4.12E-01	2.66E+01	2.19E+01	4.68E+01
748	490486.72	3860335.12	4.54541	3.31911	8.45379	5.28568	11.25	4.377	3.8475	3.31911	3.17E+01	6.13E+00	8.80E-04	1.86E-01	3.52E+00	4.11E-01	2.73E+01	2.26E+01	4.66E+01
749	490536.72	3860335.12	4.51748	3.41986	7.97065	5.36724	10.64	4.363	3.9508	3.41986	3.15E+01	6.32E+00	8.30E-04	1.89E-01	3.33E+00	4.10E-01	2.80E+01	2.33E+01	4.65E+01
750	490586.72	3860335.12	4.48975	3.50974	7.93324	5.40693	9.928	4.364	4.0221	3.50974	3.13E+01	6.48E+00	8.26E-04	1.90E-01	3.11E+00	4.10E-01	2.85E+01	2.39E+01	4.61E+01
751	490636.72	3860335.12	4.46861	3.60582	8.20597	5.42224	9.167	4.377	4.076	3.60582	3.12E+01	6.66E+00	8.54E-04	1.91E-01	2.87E+00	4.11E-01	2.89E+01	2.45E+01	4.56E+01
752	490686.72	3860335.12	4.4529	3.70688	8.26533	5.65894	8.497	4.374	4.1292	3.70688	3.10E+01	6.85E+00	8.60E-04	1.99E-01	2.66E+00	4.11E-01	2.93E+01	2.52E+01	4.52E+01
753	490736.72	3860335.12	4.44267	3.81398	8.26309	5.85075	7.897	4.362	4.233	3.81398	3.10E+01	7.04E+00	8.60E-04	2.06E-01	2.47E+00	4.10E-01	3.00E+01	2.59E+01	4.52E+01
754	490786.72	3860335.12	4.44175	3.98714	8.34342	5.99369	7.581	4.387	4.3136	3.98714	3.10E+01	7.36E+00	8.69E-04	2.11E-01	2.38E+00	4.12E-01	3.06E+01	2.71E+01	4.48E+01
755	490086.72	3860385.12	4.6948	3.12374	6.10255	4.36067	14.76	4.344	3.2782	3.12374	3.27E+01	5.77E+00	6.35E-04	1.53E-01	4.63E+00	4.08E-01	2.32E+01	2.12E+01	4.57E+01
756	490136.72	3860385.12	4.68853	3.02221	7.31751	4.46913	14.42	4.374	3.2089	3.02221	3.27E+01	5.58E+00	7.62E-04	1.57E-01	4.52E+00	4.11E-01	2.27E+01	2.06E+01	4.55E+01
757	490186.72	3860385.12	4.66762	2.95175	8.50833	4.56988	13.91	4.368	3.1315	2.95175	3.25E+01	5.45E+00	8.86E-04	1.61E-01	4.36E+00	4.11E-01	2.22E+01	2.01E+01	4.50E+01
758	490236.72	3860385.12	4.64363	2.89184	8.80109	4.6981	13.56	4.328	3.1216	2.89184	3.24E+01	5.34E+00	9.16E-04	1.65E-01	4.25E+00	4.07E-01	2.21E+01	1.97E+01	4.50E+01
759	490286.72	3860385.12	4.61349	2.88725	8.31696	4.80874	13.11	4.269	3.1407	2.88725	3.22E+01	5.33E+00	8.66E-04	1.69E-01	4.11E+00	4.01E-01	2.23E+01	1.96E+01	4.48E+01
760	490336.72	3860385.12	4.59153	2.9471	6.87566	4.96075	12.56	4.301	3.2911	2.9471	3.20E+01	5.44E+00	7.16E-04	1.75E-01	3.94E+00	4.04E-01	2.33E+01	2.00E+01	4.52E+01
761	490386.72	3860385.12	4.56492	2.99445	6.60599	5.07074	12.06	4.317	3.4292	2.99445	3.18E+01	5.53E+00	6.88E-04	1.78E-01	3.78E+00	4.06E-01	2.43E+01	2.04E+01	4.57E+01
762	490436.72	3860385.12	4.53648	3.05238	7.58581	5.1334	11.82	4.329	3.5596	3.05238	3.16E+01	5.64E+00	7.90E-04	1.81E-01	3.70E+00	4.07E-01	2.52E+01	2.08E+01	4.60E+01
763	490486.72	3860385.12	4.50836	3.14695	7.81649	5.14894	11.45	4.345	3.6703	3.14695	3.14E+01	5.81E+00	8.14E-04	1.81E-01	3.59E+00	4.08E-01	2.60E+01	2.14E+01	4.60E+01
764	490536.72	3860385.12	4.47966	3.24284	7.86305	5.13541	10.94	4.37	3.7684	3.24284	3.12E+01	5.99E+00	8.19E-04	1.81E-01	3.43E+00	4.11E-01	2.67E+01	2.21E+01	4.59E+01
765	490586.72	3860385.12	4.4521	3.33733	7.42642	5.20085	10.33	4.37	3.88	3.33733	3.10E+01	6.16E+00	7.73E-04	1.83E-01	3.24E+00	4.11E-01	2.75E+01	2.27E+01	4.58E+01
766	490636.72	3860385.12	4.4258	3.45927	7.53029	5.23408	9.64	4.388	3.9608	3.45927	3.09E+01	6.39E+00	7.84E-04	1.84E-01	3.02E+00	4.12E-01	2.81E+01	2.35E+01	4.54E+01
767	490686.72	3860385.12	4.40551	3.5768	7.77315	5.25056	8.903	4.421	4.0415	3.5768	3.07E+01	6.61E+00	8.09E-04	1.85E-01	2.79E+00	4.16E-01	2.86E+01	2.43E+01	4.50E+01
768	490736.72	3860385.12	4.38642	3.67797	7.82123	5.46594	8.265	4.431	4.0983	3.67797	3.06E+01	6.79E+00	8.14E-04	1.92E-01	2.59E+00	4.16E-01	2.90E+01	2.50E+01	4.46E+01
769	490786.72	3860385.12	4.37368	3.77553	7.81796	5.64794	7.679	4.433	4.1962	3.77553	3.05E+01	6.97E+00	8.14E-04	1.99E-01	2.41E+00	4.17E-01	2.97E+01	2.57E+01	4.45E+01
770	490136.72	3860435.12	4.59608	3.46749	6.47132	4.27206	14.37	4.197	3.4941	3.46749	3.20E+01	6.40E+00	6.74E-04	1.50E-01	4.50E+00	3.95E-01	2.48E+01	2.36E+01	4.47E+01
771	490186.72	3860435.12	4.592	3.35769	7.63063	4.37248	14	4.228	3.3948	3.35769	3.20E+01	6.20E+00	7.94E-04	1.54E-01	4.39E+00	3.97E-01	2.41E+01	2.28E+01	4.44E+01
772	490236.72	3860435.12	4.57977	3.25581	8.29847	4.47531	13.52	4.252	3.2982	3.25581	3.19E+01	6.01E+00	8.64E-04	1.58E-01	4.24E+00	4.00E-01	2.34E+01	2.21E+01	4.40E+01
773	490286.72	3860435.12	4.55968	3.1622	8.36169	4.59914	13.15	4.251	3.2713	3.1622	3.18E+01	5.84E+00	8.71E-04	1.62E-01	4.12E+00	4.00E-01	2.32E+01	2.15E+01	4.40E+01
774	490336.72	3860435.12	4.53186	3.08445	7.46064	4.7073	12.68	4.221	3.2489	3.08445	3.16E+01	5.70E+00	7.77E-04	1.66E-01	3.97E+00	3.97E-01	2.30E+01	2.10E+01	4.39E+01
775	490386.72	3860435.12	4.50337	3.02108	6.20084	4.84745	12.15	4.207	3.2868	3.02108	3.14E+01	5.58E+00	6.46E-04	1.71E-01	3.81E+00	3.95E-01	2.33E+01	2.05E+01	4.41E+01
776	490436.72	3860435.12	4.48348	3.00058	6.48585	4.94556	11.77	4.237	3.373	3.00058	3.13E+01	5.54E+00	6.75E-04	1.74E-01	3.69E+00	3.98E-01	2.39E+01	2.04E+01	4.46E+01
777	490486.72	3860435.12	4.46058	3.04048	7.22211	4.99611	11.52	4.254	3.4918	3.04048	3.11E+01	5.62E+00	7.52E-04	1.76E-01	3.61E+00	4.00E-01	2.47E+01	2.07E+01	4.50E+01
778	490536.72	3860435.12	4.43679	3.11908	7.38198	5.00103	11.14	4.312	3.5893	3.11908	3.09E+01	5.76E+00	7.69E-04	1.76E-01	3.49E+00	4.05E-01	2.54E+01	2.12E+01	4.50E+01
779	490586.72	3860435.12	4.41058	3.2136	7.29207	4.98141	10.63	4.356	3.6885	3.2136	3.07E+01	5.94E+00	7.59E-04	1.75E-01	3.33E+00	4.09E-01	2.61E+01	2.19E+01	4.49E+01
780	490636.72	3860435.12	4.38434	3.31611	6.9757	5.0329	10.03	4.376	3.8111	3.31611	3.06E+01	6.12E+00	7.26E-04	1.77E-01	3.14E+00	4.11E-01	2.70E+01	2.25E+01	4.49E+01
781	490686.72	3860435.12	4.36134	3.41827	7.15006	5.06561	9.357	4.406	3.9105	3.41827	3.04E+01	6.31E+00	7.44E-04	1.78E-01	2.93E+00	4.14E-01	2.77E+01	2.32E+01	4.47E+01
782	490736.72	3860435.12	4.34226	3.51959	7.36597	5.08633	8.642	4.454	3.9931	3.51959	3.03E+01	6.50E+00	7.67E-04	1.79E-01	2.71E+00	4.19E-01	2.83E+01	2.39E+01	4.44E+01
783	490786.72	3860435.12	4.32291	3.63509	7.42342	5.28815	8.045	4.476	4.0536	3.63509	3.01E+01	6.71E+00	7.73E-04	1.86E-01	2.52E+00	4.21E-01	2.87E+01	2.47E+01	4.40E+01
784	490136.72	3860485.12	4.50351	3.95208	5.77107	4.11059	14.29	4.044	3.9633	3.95208	3.14E+01	7.30E+00	6.01E-04	1.45E-01	4.48E+00	3.80E-01	2.81E+01	2.69E+01	4.49E+01
785	490186.72	3860485.12	4.50453	3.85193	6.71569	4.19206	14.01	4.105	3.8579	3.85193	3.14E+01	7.11E+00	6.99E-04	1.48E-01	4.39E+00	3.86E-01	2.73E+01	2.62E+01	4.46E+01
786	490236.72	3860485.12	4.49778	3.75211	7.67809	4.27868	13.58	4.14	3.7452	3.75211	3.14E+01	6.93E+00	7.99E-04	1.51E-01	4.25E+00	3.89E-01	2.65E+01	2.55E+01	4.41E+01
787	490286.72	3860485.12	4.49135	3.64059	8.0775	4.39149	13.13	4.171	3.6374	3.64059	3.13E+01	6.72E+00	8.41E-04	1.55E-01	4.12E+00	3.92E-01	2.58E+01	2.48E+01	4.37E+01
788	490336.72	3860485.12	4.47526	3.5416	7.74191	4.50018	12.74	4.181	3.5978	3.5416	3.12E+01	6.54E+00	8.06E-04	1.58E-01	3.99E+00	3.93E-01	2.55E+01	2.41E+01	4.37E+01
789	490386.72	3860485.12	4.45616	3.43426	6.62908	4.6202	12.29	4.17	3.5445	3.43426	3.11E+01	6.34E+00	6.90E-04	1.63E-01	3.85E+00	3.92E-01	2.51E+01	2.34E+01	4.36E+01
790	490436.72	3860485.12	4.43477	3.32458	5.79072	4.75523	11.78	4.14	3.5489	3.32458	3.09E+01	6.14E+00	6.03E-04	1.67E-01	3.69E+00	3.89E-01	2.51E+01	2.26E+01	4.38E+01
791	490486.72	3860485.12	4.40469	3.2372	6.36374	4.8345	11.51	4.153	3.5689	3.2372	3.07E+01	5.98E+00	6.63E-04	1.70E-01	3.61E+00	3.90E-01	2.53E+01	2.20E+01	4.41E+01
792	490536.72	3860485.12	4.38436	3.15638	6.84248	4.86586	11.23	4.173	3.5806	3.15638	3.06E+01	5.83E+00	7.12E-04	1.71E-01	3.52E+00	3.92E-01	2.54E+01	2.15E+01	4.44E+01
793	490586.72	3860485.12	4.36254	3.15809	6.94234	4.8519	10.83	4.227	3.6244	3.15809	3.04E+01	5.83E+00	7.23E-04	1.71E-01	3.39E+00	3.97E-01	2.57E+01	2.15E+01	4.44E+01
794	490636.72	3860485.12	4.34175	3.23358	6.77612	4.83674	10.34	4.287	3.7017	3.23358	3.03E+01	5.97E+00	7.05E-04	1.70E-01	3.24E+00	4.03E-01	2.62E+01	2.20E+01	4.43E+01

795	490686.72	3860485.12	4.31776	3.30687	6.57108	4.87769	9.739	4.319	3.7966	3.30687	3.01E+01	6.11E+00	6.84E-04	1.72E-01	3.05E+00	4.06E-01	2.69E+01	2.25E+01	4.43E+01
796	490736.72	3860485.12	4.29722	3.40247	6.79896	4.90592	9.086	4.358	3.893	3.40247	3.00E+01	6.28E+00	7.08E-04	1.73E-01	2.85E+00	4.10E-01	2.76E+01	2.31E+01	4.41E+01
797	490786.72	3860485.12	4.27754	3.50748	6.97593	4.92325	8.383	4.407	3.9758	3.50748	2.98E+01	6.48E+00	7.26E-04	1.73E-01	2.63E+00	4.14E-01	2.82E+01	2.39E+01	4.38E+01
798	490136.72	3860535.12	4.40547	4.38997	5.32586	3.95897	14.11	3.913	4.4009	4.38997	3.07E+01	8.11E+00	5.54E-04	1.39E-01	4.42E+00	3.68E-01	3.12E+01	2.99E+01	4.51E+01
799	490186.72	3860535.12	4.41832	4.31162	6.07594	4.04598	13.99	3.982	4.3223	4.31162	3.08E+01	7.96E+00	6.33E-04	1.42E-01	4.38E+00	3.74E-01	3.06E+01	2.93E+01	4.50E+01
800	490236.72	3860535.12	4.41327	4.25418	6.95771	4.10628	13.62	4.007	4.2581	4.25418	3.08E+01	7.86E+00	7.24E-04	1.45E-01	4.27E+00	3.77E-01	3.02E+01	2.89E+01	4.47E+01
801	490286.72	3860535.12	4.40925	4.17241	7.52437	4.18941	13.17	4.042	4.1602	4.17241	3.07E+01	7.71E+00	7.83E-04	1.47E-01	4.13E+00	3.80E-01	2.95E+01	2.84E+01	4.42E+01
802	490336.72	3860535.12	4.40363	4.07261	7.71588	4.30812	12.75	4.069	4.0581	4.07261	3.07E+01	7.52E+00	8.03E-04	1.52E-01	3.99E+00	3.82E-01	2.88E+01	2.77E+01	4.38E+01
803	490386.72	3860535.12	4.39722	3.95791	7.07905	4.4189	12.39	4.094	3.9966	3.95791	3.07E+01	7.31E+00	7.37E-04	1.56E-01	3.88E+00	3.85E-01	2.83E+01	2.69E+01	4.38E+01
804	490436.72	3860535.12	4.38469	3.84096	5.87365	4.54674	11.95	4.095	3.9315	3.84096	3.06E+01	7.09E+00	6.11E-04	1.60E-01	3.74E+00	3.85E-01	2.79E+01	2.61E+01	4.37E+01
805	490486.72	3860535.12	4.36576	3.72721	5.5918	4.66151	11.42	4.075	3.8937	3.72721	3.04E+01	6.88E+00	5.82E-04	1.64E-01	3.58E+00	3.83E-01	2.76E+01	2.53E+01	4.37E+01
806	490536.72	3860535.12	4.35177	3.58345	6.28242	4.76219	11.31	4.06	3.8586	3.58345	3.03E+01	6.62E+00	6.54E-04	1.68E-01	3.55E+00	3.82E-01	2.73E+01	2.44E+01	4.40E+01
807	490586.72	3860535.12	4.31113	3.51503	6.4697	4.74612	10.96	4.071	3.8719	3.51503	3.01E+01	6.49E+00	6.74E-04	1.67E-01	3.43E+00	3.83E-01	2.74E+01	2.39E+01	4.41E+01
808	490636.72	3860535.12	4.29105	3.40526	6.54857	4.72105	10.55	4.083	3.8334	3.40526	2.99E+01	6.29E+00	6.82E-04	1.66E-01	3.31E+00	3.84E-01	2.72E+01	2.32E+01	4.41E+01
809	490686.72	3860535.12	4.27293	3.32804	6.37855	4.70009	10.06	4.134	3.7826	3.32804	2.98E+01	6.15E+00	6.64E-04	1.65E-01	3.15E+00	3.89E-01	2.68E+01	2.26E+01	4.38E+01
810	490736.72	3860535.12	4.25204	3.35717	6.20608	4.73395	9.467	4.174	3.8463	3.35717	2.96E+01	6.20E+00	6.46E-04	1.67E-01	2.97E+00	3.92E-01	2.73E+01	2.28E+01	4.38E+01
811	490786.72	3860535.12	4.23375	3.43122	6.47801	4.7569	8.828	4.22	3.9209	3.43122	2.95E+01	6.34E+00	6.74E-04	1.67E-01	2.77E+00	3.97E-01	2.78E+01	2.33E+01	4.36E+01
812	490136.72	3860585.12	4.31773	4.62912	5.04376	3.83602	13.92	3.776	4.6395	4.62912	3.01E+01	8.55E+00	5.25E-04	1.35E-01	4.36E+00	3.55E-01	3.29E+01	3.15E+01	4.49E+01
813	490186.72	3860585.12	4.30748	4.66655	5.32764	3.85368	13.71	3.833	4.6784	4.66655	3.00E+01	8.62E+00	5.55E-04	1.36E-01	4.30E+00	3.60E-01	3.31E+01	3.17E+01	4.49E+01
814	490236.72	3860585.12	4.31792	4.64609	6.13666	3.93488	13.54	3.906	4.6568	4.64609	3.01E+01	8.58E+00	6.39E-04	1.38E-01	4.24E+00	3.67E-01	3.30E+01	3.16E+01	4.48E+01
815	490286.72	3860585.12	4.32471	4.6086	6.95274	4.0215	13.23	3.956	4.6108	4.6086	3.02E+01	8.51E+00	7.24E-04	1.42E-01	4.15E+00	3.72E-01	3.27E+01	3.13E+01	4.47E+01
816	490336.72	3860585.12	4.32501	4.55909	7.42254	4.11654	12.78	3.982	4.5448	4.55909	3.02E+01	8.42E+00	7.73E-04	1.45E-01	4.00E+00	3.74E-01	3.22E+01	3.10E+01	4.43E+01
817	490386.72	3860585.12	4.32065	4.49386	7.21616	4.22898	12.38	3.986	4.4806	4.49386	3.01E+01	8.30E+00	7.51E-04	1.49E-01	3.88E+00	3.75E-01	3.17E+01	3.06E+01	4.40E+01
818	490436.72	3860585.12	4.32498	4.37964	6.41683	4.35156	12.07	4.007	4.4173	4.37964	3.02E+01	8.09E+00	6.68E-04	1.53E-01	3.78E+00	3.77E-01	3.13E+01	2.98E+01	4.41E+01
819	490486.72	3860585.12	4.32458	4.25216	5.49961	4.5024	11.67	4.028	4.3396	4.25216	3.01E+01	7.85E+00	5.73E-04	1.58E-01	3.66E+00	3.79E-01	3.07E+01	2.89E+01	4.40E+01
820	490536.72	3860585.12	4.30519	4.15826	5.58146	4.5932	11.22	4.011	4.2911	4.15826	3.00E+01	7.68E+00	5.81E-04	1.62E-01	3.52E+00	3.77E-01	3.04E+01	2.83E+01	4.39E+01
821	490586.72	3860585.12	4.26747	4.0955	5.97683	4.59946	10.96	3.952	4.3003	4.0955	2.98E+01	7.56E+00	6.22E-04	1.62E-01	3.43E+00	3.72E-01	3.05E+01	2.78E+01	4.39E+01
822	490636.72	3860585.12	4.24553	3.968	6.07356	4.61697	10.68	3.947	4.2635	3.968	2.96E+01	7.33E+00	6.32E-04	1.62E-01	3.34E+00	3.71E-01	3.02E+01	2.70E+01	4.40E+01
823	490686.72	3860585.12	4.22076	3.84155	6.1933	4.58908	10.27	3.966	4.2049	3.84155	2.94E+01	7.10E+00	6.45E-04	1.62E-01	3.22E+00	3.73E-01	2.98E+01	2.61E+01	4.39E+01
824	490736.72	3860585.12	4.20276	3.71238	6.01075	4.56554	9.779	3.977	4.1271	3.71238	2.93E+01	6.86E+00	6.26E-04	1.61E-01	3.06E+00	3.74E-01	2.92E+01	2.52E+01	4.38E+01
825	490786.72	3860585.12	4.18503	3.60192	5.86997	4.59357	9.2	3.981	4.0786	3.60192	2.92E+01	6.65E+00	6.11E-04	1.62E-01	2.88E+00	3.74E-01	2.89E+01	2.45E+01	4.37E+01
826	490136.72	3860635.12	4.26344	4.56376	4.82382	3.7388	13.8	3.663	4.5753	4.56376	2.97E+01	8.43E+00	5.02E-04	1.32E-01	4.32E+00	3.44E-01	3.24E+01	3.10E+01	4.43E+01
827	490186.72	3860635.12	4.24017	4.68028	5.05904	3.76136	13.63	3.73	4.6978	4.68028	2.96E+01	8.64E+00	5.27E-04	1.32E-01	4.27E+00	3.51E-01	3.33E+01	3.18E+01	4.44E+01
828	490236.72	3860635.12	4.22954	4.76132	5.51895	3.79328	13.44	3.765	4.7792	4.76132	2.95E+01	8.79E+00	5.75E-04	1.34E-01	4.21E+00	3.54E-01	3.39E+01	3.24E+01	4.45E+01
829	490286.72	3860635.12	4.23375	4.81804	6.3133	3.85792	13.19	3.83	4.8313	4.81804	2.95E+01	8.90E+00	6.57E-04	1.36E-01	4.13E+00	3.60E-01	3.42E+01	3.28E+01	4.45E+01
830	490336.72	3860635.12	4.24007	4.84413	6.92621	3.94091	12.85	3.882	4.8466	4.84413	2.96E+01	8.95E+00	7.21E-04	1.39E-01	4.03E+00	3.65E-01	3.43E+01	3.29E+01	4.44E+01
831	490386.72	3860635.12	4.24339	4.84921	7.13617	4.05062	12.4	3.914	4.8347	4.84921	2.96E+01	8.96E+00	7.43E-04	1.43E-01	3.89E+00	3.68E-01	3.43E+01	3.30E+01	4.42E+01
832	490436.72	3860635.12	4.24146	4.8374	6.63942	4.15315	12.03	3.922	4.8279	4.8374	2.96E+01	8.93E+00	6.91E-04	1.46E-01	3.77E+00	3.69E-01	3.42E+01	3.29E+01	4.41E+01
833	490486.72	3860635.12	4.23722	4.80038	5.65627	4.24655	11.66	3.919	4.8387	4.80038	2.95E+01	8.87E+00	5.89E-04	1.49E-01	3.65E+00	3.68E-01	3.43E+01	3.26E+01	4.42E+01
834	490536.72	3860635.12	4.23538	4.73189	5.08066	4.38127	11.24	3.922	4.817	4.73189	2.95E+01	8.74E+00	5.29E-04	1.54E-01	3.52E+00	3.69E-01	3.41E+01	3.22E+01	4.43E+01
835	490586.72	3860635.12	4.21792	4.67398	5.40032	4.45072	10.9	3.882	4.8005	4.67398	2.94E+01	8.63E+00	5.62E-04	1.57E-01	3.41E+00	3.65E-01	3.40E+01	3.18E+01	4.42E+01
836	490636.72	3860635.12	4.20347	4.57911	5.77681	4.5014	10.72	3.842	4.745	4.57911	2.93E+01	8.46E+00	6.01E-04	1.58E-01	3.36E+00	3.61E-01	3.36E+01	3.11E+01	4.41E+01
837	490686.72	3860635.12	4.18389	4.47239	5.83958	4.50525	10.42	3.784	4.7082	4.47239	2.92E+01	8.26E+00	6.08E-04	1.59E-01	3.27E+00	3.56E-01	3.34E+01	3.04E+01	4.42E+01
838	490736.72	3860635.12	4.15925	4.3503	5.8832	4.45952	10	3.789	4.6506	4.3503	2.90E+01	8.03E+00	6.12E-04	1.57E-01	3.13E+00	3.56E-01	3.30E+01	2.96E+01	4.40E+01
839	490786.72	3860635.12	4.13679	4.21713	5.70271	4.43595	9.511	3.795	4.5597	4.21713	2.88E+01	7.79E+00	5.94E-04	1.56E-01	2.98E+00	3.57E-01	3.23E+01	2.87E+01	4.38E+01
840	490136.72	3860685.12	4.19656	4.24504	4.69696	3.63907	13.49	3.5	4.2552	4.24504	2.93E+01	7.84E+00	4.89E-04	1.28E-01	4.23E+00	3.29E-01	3.01E+01	2.89E+01	4.31E+01
841	490186.72	3860685.12	4.19421	4.36089	4.84469	3.67987	13.56	3.601	4.382	4.36089	2.92E+01	8.05E+00	5.04E-04	1.30E-01	4.25E+00	3.38E-01	3.10E+01	2.97E+01	4.34E+01
842	490236.72	3860685.12	4.16682	4.54531	5.10999	3.6953	13.37	3.651	4.5705	4.54531	2.90E+01	8.39E+00	5.32E-04	1.30E-01	4.19E+00	3.43E-01	3.24E+01	3.09E+01	4.36E+01
843	490286.72	3860685.12	4.14503	4.70458	5.62723	3.70763	13.08	3.652	4.7278	4.70458	2.89E+01	8.69E+00	5.86E-04	1.30E-01	4.10E+00	3.43E-01	3.35E+01	3.20E+01	4.37E+01
844	490336.72	3860685.12	4.15554	4.80866	6.31488	3.79034	12.87	3.716	4.8267	4.80866	2.90E+01	8.88E+00	6.57E-04	1.33E-01	4.03E+00	3.49E-01	3.42E+01	3.27E+01	4.39E+01
845	490386.72	3860685.12	4.16153	4.90205	6.84458	3.87458	12.5	3.759	4.9087	4.90205	2.90E+01	9.05E+00	7.13E-04	1.36E-01	3.92E+00	3.53E-01	3.48E+01	3.33E+01	4.39E+01
846	490436.72	3860685.12	4.16186	4.98242	6.70355	3.97801	12.03	3.781	4.9706	4.98242	2.90E+01	9.20E+00	6.98E-04	1.40E-01	3.77E+00	3.55E-01	3.52E+01	3.39E+01	4.38E+01
847	490486.72	3860685.12	4.15952	5.04213	6.00098	4.06454	11.66	3.783	5.0368	5.04213	2.90E+01	9.31E+00	6.25E-04	1.43E-01	3.65E+00	3.56E-01	3.57E+01	3.43E+01	4.39E+01
848	490536.72	3860685.12	4.15819	5.07228	5.05328	4.1625	11.29	3.775	5.1126	5.07228	2.90E+01	9.37E+00	5.26E-04	1.47E-01	3.54E+00	3.55E-01	3.62E+01	3.45E+01	4.41E+01
849	490586.72	3860685.12	4.15277	5.07939	4.79098	4.27322	10.85	3.763	5.1646	5.07939	2.90E+01	9.38E+00	4.99E-04	1.50E-01	3.40E+00	3.54E-01	3.66E+01	3.45E+01	4.43E+01
850	490636.72	3860685.12	4.14751	5.06087	5.28875	4.35593	10.66	3.741	5.1868	5.06087	2.89E+01	9.35E+00	5.51E-04	1.53E-01	3.34E+00	3.52E-01	3.68E+01	3.44E+01	4.44E+01
851	490686.72	3860685.12	4.13881	5.0174	5.55799	4.40293	10.48	3.706	5.1782	5.0174	2.89E+01	9.27E+00	5.79E-04	1.55E-01	3.28E+00	3.48E-01	3.67E+01	3.41E+01	4.45E+01

852	490736.72	3860685.12	4.1214	4.95599	5.61727	4.39423	10.17	3.658	5.1428	4.95599	2.87E+01	9.15E+00	5.85E-04	1.55E-01	3.19E+00	3.44E-01	3.64E+01	3.37E+01	4.43E+01
853	490786.72	3860685.12	4.10784	4.86453	5.6453	4.368	9.785	3.638	5.11	4.86453	2.86E+01	8.98E+00	5.88E-04	1.54E-01	3.07E+00	3.42E-01	3.62E+01	3.31E+01	4.43E+01
854	490136.72	3860735.12	4.12237	3.91253	4.62329	3.51361	13.03	3.242	3.9012	3.91253	2.87E+01	7.23E+00	4.81E-04	1.24E-01	4.08E+00	3.05E-01	2.76E+01	2.66E+01	4.15E+01
855	490186.72	3860735.12	4.10194	4.02064	4.3657	3.49851	13.03	3.29	4.0214	4.02064	2.86E+01	7.43E+00	4.54E-04	1.23E-01	4.08E+00	3.09E-01	2.85E+01	2.73E+01	4.17E+01
856	490236.72	3860735.12	4.08733	4.13289	4.64424	3.53119	12.97	3.36	4.144	4.13289	2.85E+01	7.63E+00	4.83E-04	1.24E-01	4.06E+00	3.16E-01	2.94E+01	2.81E+01	4.19E+01
857	490286.72	3860735.12	4.07659	4.28064	5.04592	3.58549	12.93	3.429	4.3092	4.28064	2.84E+01	7.91E+00	5.25E-04	1.26E-01	4.05E+00	3.22E-01	3.05E+01	2.91E+01	4.23E+01
858	490336.72	3860735.12	4.06934	4.45198	5.74973	3.63959	12.77	3.493	4.48	4.45198	2.84E+01	8.22E+00	5.99E-04	1.28E-01	4.00E+00	3.28E-01	3.17E+01	3.03E+01	4.25E+01
859	490386.72	3860735.12	4.0776	4.60962	6.38005	3.71792	12.52	3.56	4.6329	4.60962	2.84E+01	8.51E+00	6.64E-04	1.31E-01	3.92E+00	3.35E-01	3.28E+01	3.13E+01	4.28E+01
860	490436.72	3860735.12	4.09239	4.74668	6.6581	3.83681	12.2	3.624	4.7581	4.74668	2.85E+01	8.77E+00	6.93E-04	1.35E-01	3.82E+00	3.41E-01	3.37E+01	3.23E+01	4.30E+01
861	490486.72	3860735.12	4.09102	4.89732	6.24946	3.92706	11.74	3.646	4.8904	4.89732	2.85E+01	9.04E+00	6.51E-04	1.38E-01	3.68E+00	3.43E-01	3.46E+01	3.33E+01	4.31E+01
862	490536.72	3860735.12	4.08327	5.03328	5.39213	3.98618	11.32	3.647	5.0379	5.03328	2.85E+01	9.30E+00	5.61E-04	1.40E-01	3.55E+00	3.43E-01	3.57E+01	3.42E+01	4.33E+01
863	490586.72	3860735.12	4.08123	5.14025	4.67135	4.07951	10.93	3.651	5.1881	5.14025	2.85E+01	9.49E+00	4.86E-04	1.44E-01	3.43E+00	3.43E-01	3.68E+01	3.50E+01	4.37E+01
864	490636.72	3860735.12	4.07769	5.22312	4.68857	4.17777	10.49	3.647	5.3134	5.22312	2.84E+01	9.65E+00	4.88E-04	1.47E-01	3.29E+00	3.43E-01	3.76E+01	3.55E+01	4.40E+01
865	490686.72	3860735.12	4.0766	5.28198	5.14465	4.25881	10.42	3.652	5.4089	5.28198	2.84E+01	9.76E+00	5.36E-04	1.50E-01	3.26E+00	3.43E-01	3.83E+01	3.59E+01	4.43E+01
866	490736.72	3860735.12	4.07329	5.31369	5.32589	4.30295	10.24	3.64	5.474	5.31369	2.84E+01	9.81E+00	5.54E-04	1.51E-01	3.21E+00	3.42E-01	3.88E+01	3.61E+01	4.46E+01
867	490136.72	3860785.12	4.05725	3.70549	4.54609	3.41013	12.6	3.145	3.6862	3.70549	2.83E+01	6.84E+00	4.73E-04	1.20E-01	3.95E+00	2.96E-01	2.61E+01	2.52E+01	4.04E+01
868	490186.72	3860785.12	4.0383	3.8134	4.25286	3.40683	12.71	3.144	3.8048	3.8134	2.82E+01	7.04E+00	4.43E-04	1.20E-01	3.98E+00	2.96E-01	2.70E+01	2.59E+01	4.06E+01
869	490236.72	3860785.12	4.02226	3.92265	4.30043	3.42941	12.71	3.159	3.9239	3.92265	2.80E+01	7.24E+00	4.48E-04	1.21E-01	3.98E+00	2.97E-01	2.78E+01	2.67E+01	4.08E+01
870	490286.72	3860785.12	4.00989	4.02934	4.63926	3.47585	12.68	3.222	4.0382	4.02934	2.80E+01	7.44E+00	4.83E-04	1.22E-01	3.97E+00	3.03E-01	2.86E+01	2.74E+01	4.10E+01
871	490336.72	3860785.12	3.99939	4.13504	5.14792	3.5149	12.6	3.299	4.1481	4.13504	2.79E+01	7.64E+00	5.36E-04	1.24E-01	3.95E+00	3.10E-01	2.94E+01	2.81E+01	4.12E+01
872	490386.72	3860785.12	3.99691	4.22848	5.81386	3.57507	12.46	3.382	4.2414	4.22848	2.79E+01	7.81E+00	6.05E-04	1.26E-01	3.90E+00	3.18E-01	3.01E+01	2.88E+01	4.13E+01
873	490436.72	3860785.12	4.0016	4.32878	6.28349	3.64591	12.17	3.444	4.3366	4.32878	2.79E+01	7.99E+00	6.54E-04	1.28E-01	3.81E+00	3.24E-01	3.07E+01	2.94E+01	4.14E+01
874	490486.72	3860785.12	4.01234	4.42625	6.2619	3.76523	11.81	3.505	4.4396	4.42625	2.80E+01	8.17E+00	6.52E-04	1.33E-01	3.70E+00	3.29E-01	3.15E+01	3.01E+01	4.17E+01
875	490536.72	3860785.12	4.01277	4.62229	5.69534	3.84999	11.39	3.536	4.619	4.62229	2.80E+01	8.54E+00	5.93E-04	1.36E-01	3.57E+00	3.32E-01	3.27E+01	3.14E+01	4.18E+01
876	490586.72	3860785.12	4.00718	4.81308	4.80423	3.90175	10.98	3.538	4.8236	4.81308	2.79E+01	8.89E+00	5.00E-04	1.37E-01	3.44E+00	3.33E-01	3.42E+01	3.27E+01	4.22E+01
877	490636.72	3860785.12	4.00671	4.98065	4.4039	3.99781	10.59	3.538	5.0341	4.98065	2.79E+01	9.20E+00	4.58E-04	1.41E-01	3.32E+00	3.33E-01	3.57E+01	3.39E+01	4.27E+01
878	490686.72	3860785.12	4.00715	5.13335	4.61074	4.09087	10.25	3.529	5.2282	5.13335	2.79E+01	9.48E+00	4.80E-04	1.44E-01	3.21E+00	3.32E-01	3.70E+01	3.49E+01	4.32E+01
879	490736.72	3860785.12	4.00771	5.27159	4.9831	4.16324	10.19	3.523	5.4023	5.27159	2.79E+01	9.74E+00	5.19E-04	1.47E-01	3.19E+00	3.31E-01	3.83E+01	3.58E+01	4.38E+01
880	490086.72	3860835.12	4.02392	3.3329	4.50675	3.38351	12.01	3.097	3.4022	3.3329	2.81E+01	6.16E+00	4.69E-04	1.19E-01	3.76E+00	2.91E-01	2.41E+01	2.27E+01	3.98E+01
881	490136.72	3860835.12	4.00134	3.43537	4.47046	3.34156	12.22	3.08	3.4889	3.43537	2.79E+01	6.34E+00	4.65E-04	1.18E-01	3.83E+00	2.90E-01	2.47E+01	2.34E+01	3.98E+01
882	490186.72	3860835.12	3.97872	3.55052	4.24001	3.32636	12.37	3.087	3.5757	3.55052	2.77E+01	6.56E+00	4.41E-04	1.17E-01	3.88E+00	2.90E-01	2.53E+01	2.41E+01	3.98E+01
883	490236.72	3860835.12	3.96058	3.6644	4.00128	3.33705	12.44	3.096	3.6608	3.6644	2.76E+01	6.77E+00	4.17E-04	1.17E-01	3.90E+00	2.91E-01	2.59E+01	2.49E+01	3.97E+01
884	490286.72	3860835.12	3.94748	3.77563	4.28413	3.38055	12.43	3.11	3.7807	3.77563	2.75E+01	6.97E+00	4.46E-04	1.19E-01	3.89E+00	2.92E-01	2.68E+01	2.57E+01	3.99E+01
885	490336.72	3860835.12	3.9351	3.89226	4.64385	3.4093	12.4	3.117	3.9034	3.89226	2.74E+01	7.19E+00	4.83E-04	1.20E-01	3.88E+00	2.93E-01	2.77E+01	2.65E+01	4.01E+01
886	490386.72	3860835.12	3.92594	4.00694	5.2082	3.43554	12.3	3.152	4.0218	4.00694	2.74E+01	7.40E+00	5.42E-04	1.21E-01	3.85E+00	2.96E-01	2.85E+01	2.72E+01	4.03E+01
887	490436.72	3860835.12	3.92206	4.11799	5.84208	3.50035	12.12	3.223	4.131	4.11799	2.73E+01	7.61E+00	6.08E-04	1.23E-01	3.80E+00	3.03E-01	2.93E+01	2.80E+01	4.04E+01
888	490486.72	3860835.12	3.92863	4.23074	6.06638	3.58885	11.83	3.286	4.2375	4.23074	2.74E+01	7.81E+00	6.32E-04	1.26E-01	3.71E+00	3.09E-01	3.00E+01	2.88E+01	4.06E+01
889	490536.72	3860835.12	3.93358	4.34667	5.7984	3.68927	11.42	3.331	4.3417	4.34667	2.74E+01	8.03E+00	6.04E-04	1.30E-01	3.58E+00	3.13E-01	3.08E+01	2.96E+01	4.07E+01
890	490586.72	3860835.12	3.93506	4.46212	5.1349	3.76662	11.03	3.354	4.4404	4.46212	2.74E+01	8.24E+00	5.35E-04	1.33E-01	3.46E+00	3.15E-01	3.15E+01	3.03E+01	4.07E+01
891	490636.72	3860835.12	3.93586	4.57284	4.39025	3.82623	10.66	3.36	4.5709	4.57284	2.74E+01	8.45E+00	4.57E-04	1.35E-01	3.34E+00	3.16E-01	3.24E+01	3.11E+01	4.10E+01
892	490686.72	3860835.12	3.93905	4.67777	4.19184	3.93092	10.29	3.357	4.7179	4.67777	2.75E+01	8.64E+00	4.36E-04	1.38E-01	3.22E+00	3.16E-01	3.34E+01	3.18E+01	4.14E+01
893	490736.72	3860835.12	3.94358	4.83425	4.54795	4.02131	10.07	3.376	4.9297	4.83425	2.75E+01	8.93E+00	4.73E-04	1.42E-01	3.15E+00	3.17E-01	3.49E+01	3.29E+01	4.21E+01
894	490086.72	3860885.12	3.97003	3.08097	4.4134	3.33805	11.94	3.074	3.2533	3.08097	2.77E+01	5.69E+00	4.59E-04	1.17E-01	3.74E+00	2.89E-01	2.31E+01	2.10E+01	3.96E+01
895	490136.72	3860885.12	3.94424	3.15599	4.39594	3.29215	11.81	3.041	3.3467	3.15599	2.75E+01	5.83E+00	4.58E-04	1.16E-01	3.70E+00	2.86E-01	2.37E+01	2.15E+01	3.97E+01
896	490186.72	3860885.12	3.92131	3.26473	4.20152	3.25172	12.01	3.005	3.4394	3.26473	2.73E+01	6.03E+00	4.37E-04	1.14E-01	3.76E+00	2.82E-01	2.44E+01	2.22E+01	3.97E+01
897	490236.72	3860885.12	3.90247	3.3745	3.90316	3.25563	12.15	3.008	3.5276	3.3745	2.72E+01	6.23E+00	4.06E-04	1.15E-01	3.81E+00	2.83E-01	2.50E+01	2.29E+01	3.97E+01
898	490286.72	3860885.12	3.88661	3.48601	3.96191	3.28951	12.18	3.009	3.6114	3.48601	2.71E+01	6.44E+00	4.12E-04	1.16E-01	3.82E+00	2.83E-01	2.56E+01	2.37E+01	3.96E+01
899	490336.72	3860885.12	3.87276	3.6031	4.27913	3.31131	12.15	3.005	3.687	3.6031	2.70E+01	6.65E+00	4.45E-04	1.17E-01	3.81E+00	2.82E-01	2.61E+01	2.45E+01	3.95E+01
900	490386.72	3860885.12	3.86383	3.71662	4.75036	3.33438	12.13	3.007	3.7563	3.71662	2.69E+01	6.86E+00	4.95E-04	1.17E-01	3.80E+00	2.83E-01	2.66E+01	2.53E+01	3.93E+01
901	490436.72	3860885.12	3.85793	3.83201	5.3443	3.37422	12.03	3.024	3.8448	3.83201	2.69E+01	7.08E+00	5.56E-04	1.19E-01	3.77E+00	2.84E-01	2.72E+01	2.61E+01	3.93E+01
902	490486.72	3860885.12	3.85429	3.95238	5.77324	3.44019	11.81	3.058	3.9625	3.95238	2.69E+01	7.30E+00	6.01E-04	1.21E-01	3.70E+00	2.87E-01	2.81E+01	2.69E+01	3.95E+01
903	490536.72	3860885.12	3.8579	4.07566	5.75842	3.53331	11.49	3.083	4.0798	4.07566	2.69E+01	7.53E+00	5.99E-04	1.24E-01	3.60E+00	2.90E-01	2.89E+01	2.77E+01	3.96E+01
904	490586.72	3860885.12	3.86101	4.20361	5.32922	3.62225	11.07	3.106	4.1958	4.20361	2.69E+01	7.76E+00	5.55E-04	1.27E-01	3.47E+00	2.92E-01	2.97E+01	2.86E+01	3.97E+01
905	490636.72	3860885.12	3.8636	4.33298	4.61622	3.69372	10.71	3.149	4.3061	4.33298	2.69E+01	8.00E+00	4.81E-04	1.30E-01	3.35E+00	2.96E-01	3.05E+01	2.95E+01	3.98E+01
906	490686.72	3860885.12	3.86744	4.45893	4.07879	3.76401	10.36	3.181	4.4551	4.45893	2.70E+01	8.24E+00	4.25E-04	1.32E-01	3.25E+00	2.99E-01	3.16E+01	3.03E+01	4.01E+01
907	490736.72	3860885.12	3.87129	4.58296	4.05462	3.85824	9.987	3.208	4.6243	4.58296	2.70E+01	8.46E+00	4.22E-04	1.36E-01	3.13E+00	3.02E-01	3.28E+01	3.12E+01	4.06E+01
908	490086.72	3860935.12	3.91066	2.93553	4.31584	3.31484	11.78	3.031	3.0911	2.93553	2.73E+01	5.42E+00	4.49E-04	1.17E-01	3.69E+00	2.85E-01	2.19E+01	2.00E+01	3.87E+01

909	490136.72	3860935.12	3.88389	2.99044	4.33375	3.23551	11.61	2.983	3.1685	2.99044	2.71E+01	5.52E+00	4.51E-04	1.14E-01	3.64E+00	2.80E-01	2.24E+01	2.03E+01	3.87E+01
910	490186.72	3860935.12	3.86248	3.06792	4.16938	3.19778	11.61	2.939	3.2629	3.06792	2.69E+01	5.67E+00	4.34E-04	1.13E-01	3.64E+00	2.76E-01	2.31E+01	2.09E+01	3.89E+01
911	490236.72	3860935.12	3.84366	3.14585	3.88914	3.17276	11.81	2.894	3.3569	3.14585	2.68E+01	5.81E+00	4.05E-04	1.12E-01	3.70E+00	2.72E-01	2.38E+01	2.14E+01	3.91E+01
912	490286.72	3860935.12	3.82802	3.2235	3.67913	3.20655	11.92	2.875	3.4481	3.2235	2.67E+01	5.95E+00	3.83E-04	1.13E-01	3.74E+00	2.70E-01	2.44E+01	2.19E+01	3.93E+01
913	490336.72	3860935.12	3.813	3.30263	3.94551	3.22209	11.92	2.86	3.5335	3.30263	2.66E+01	6.10E+00	4.11E-04	1.13E-01	3.73E+00	2.69E-01	2.50E+01	2.25E+01	3.94E+01
914	490386.72	3860935.12	3.80352	3.40246	4.31016	3.24077	11.93	2.872	3.6144	3.40246	2.65E+01	6.28E+00	4.49E-04	1.14E-01	3.74E+00	2.70E-01	2.56E+01	2.31E+01	3.94E+01
915	490436.72	3860935.12	3.79628	3.51324	4.81797	3.26045	11.89	2.887	3.6879	3.51324	2.65E+01	6.49E+00	5.02E-04	1.15E-01	3.73E+00	2.71E-01	2.61E+01	2.39E+01	3.93E+01
916	490486.72	3860935.12	3.789	3.6314	5.38829	3.31563	11.74	2.896	3.7524	3.6314	2.64E+01	6.71E+00	5.61E-04	1.17E-01	3.68E+00	2.72E-01	2.66E+01	2.47E+01	3.91E+01
917	490536.72	3860935.12	3.78815	3.75243	5.59819	3.38661	11.51	2.941	3.8089	3.75243	2.64E+01	6.93E+00	5.83E-04	1.19E-01	3.61E+00	2.76E-01	2.70E+01	2.55E+01	3.88E+01
918	490586.72	3860935.12	3.79008	3.88098	5.39605	3.47924	11.16	2.976	3.8801	3.88098	2.64E+01	7.17E+00	5.62E-04	1.22E-01	3.50E+00	2.80E-01	2.75E+01	2.64E+01	3.86E+01
919	490636.72	3860935.12	3.79282	4.009	4.86363	3.56017	10.73	3.004	3.9981	4.009	2.64E+01	7.40E+00	5.06E-04	1.25E-01	3.36E+00	2.82E-01	2.83E+01	2.73E+01	3.87E+01
920	490686.72	3860935.12	3.79725	4.14035	4.16561	3.62878	10.41	3.062	4.1116	4.14035	2.65E+01	7.65E+00	4.34E-04	1.28E-01	3.26E+00	2.88E-01	2.91E+01	2.82E+01	3.88E+01
921	490736.72	3860935.12	3.80146	4.27499	3.88856	3.70273	10.07	3.127	4.2735	4.27499	2.65E+01	7.90E+00	4.05E-04	1.30E-01	3.15E+00	2.94E-01	3.03E+01	2.91E+01	3.92E+01
922	490786.72	3860935.12	3.80565	4.41082	3.99465	3.78679	9.695	3.179	4.4521	4.41082	2.65E+01	8.15E+00	4.16E-04	1.33E-01	3.04E+00	2.99E-01	3.15E+01	3.00E+01	3.97E+01
923	490836.72	3860935.12	3.81205	4.55533	4.32749	3.85745	9.648	3.222	4.6309	4.55533	2.66E+01	8.41E+00	4.51E-04	1.36E-01	3.02E+00	3.03E-01	3.28E+01	3.10E+01	4.03E+01
924	490086.72	3860985.12	3.84582	2.90329	4.20141	3.2938	11.61	3.016	3.0435	2.90329	2.68E+01	5.36E+00	4.37E-04	1.16E-01	3.64E+00	2.84E-01	2.16E+01	1.97E+01	3.80E+01
925	490136.72	3860985.12	3.82383	2.94561	4.28697	3.20385	11.53	2.978	3.1047	2.94561	2.67E+01	5.44E+00	4.46E-04	1.13E-01	3.61E+00	2.80E-01	2.20E+01	2.00E+01	3.81E+01
926	490186.72	3860985.12	3.80465	3.00109	4.17872	3.15914	11.35	2.937	3.1778	3.00109	2.65E+01	5.54E+00	4.35E-04	1.11E-01	3.56E+00	2.76E-01	2.25E+01	2.04E+01	3.81E+01
927	490236.72	3860985.12	3.78462	3.05916	3.8968	3.12211	11.46	2.88	3.2479	3.05916	2.64E+01	5.65E+00	4.06E-04	1.10E-01	3.59E+00	2.71E-01	2.30E+01	2.08E+01	3.82E+01
928	490286.72	3860985.12	3.76785	3.113	3.57302	3.1201	11.61	2.821	3.3154	3.113	2.63E+01	5.75E+00	3.72E-04	1.10E-01	3.64E+00	2.65E-01	2.35E+01	2.12E+01	3.84E+01
929	490336.72	3860985.12	3.75384	3.16596	3.64171	3.13692	11.68	2.79	3.3792	3.16596	2.62E+01	5.85E+00	3.79E-04	1.10E-01	3.66E+00	2.62E-01	2.39E+01	2.15E+01	3.85E+01
930	490386.72	3860985.12	3.74283	3.22049	3.95665	3.14761	11.69	2.795	3.437	3.22049	2.61E+01	5.95E+00	4.12E-04	1.11E-01	3.66E+00	2.63E-01	2.44E+01	2.19E+01	3.85E+01
931	490436.72	3860985.12	3.73623	3.27811	4.42843	3.16129	11.71	2.804	3.5039	3.27811	2.60E+01	6.05E+00	4.61E-04	1.11E-01	3.67E+00	2.64E-01	2.48E+01	2.23E+01	3.87E+01
932	490486.72	3860985.12	3.72821	3.36127	4.9481	3.20437	11.64	2.811	3.5796	3.36127	2.60E+01	6.21E+00	5.15E-04	1.13E-01	3.65E+00	2.64E-01	2.54E+01	2.29E+01	3.87E+01
933	490536.72	3860985.12	3.72152	3.4445	5.32443	3.25737	11.46	2.825	3.6467	3.4445	2.59E+01	6.36E+00	5.54E-04	1.15E-01	3.59E+00	2.66E-01	2.58E+01	2.34E+01	3.87E+01
934	490586.72	3860985.12	3.7221	3.53271	5.336	3.33648	11.19	2.861	3.7059	3.53271	2.59E+01	6.52E+00	5.56E-04	1.17E-01	3.51E+00	2.69E-01	2.63E+01	2.40E+01	3.86E+01
935	490636.72	3860985.12	3.72588	3.65361	5.00787	3.42891	10.85	2.908	3.7589	3.65361	2.60E+01	6.75E+00	5.21E-04	1.21E-01	3.40E+00	2.73E-01	2.66E+01	2.48E+01	3.83E+01
936	490686.72	3860985.12	3.72875	3.77999	4.41923	3.50365	10.44	2.95	3.8032	3.77999	2.60E+01	6.98E+00	4.60E-04	1.23E-01	3.27E+00	2.77E-01	2.69E+01	2.57E+01	3.79E+01
937	490736.72	3860985.12	3.73225	3.90936	3.85705	3.56182	10.12	3.026	3.8768	3.90936	2.60E+01	7.22E+00	4.02E-04	1.25E-01	3.17E+00	2.84E-01	2.75E+01	2.66E+01	3.77E+01
938	490786.72	3860985.12	3.73766	4.04509	3.70035	3.6419	9.785	3.098	4.041	4.04509	2.61E+01	7.47E+00	3.85E-04	1.28E-01	3.07E+00	2.91E-01	2.86E+01	2.75E+01	3.81E+01
939	490836.72	3860985.12	3.74467	4.18375	3.94536	3.7245	9.494	3.161	4.2209	4.18375	2.61E+01	7.73E+00	4.11E-04	1.31E-01	2.97E+00	2.97E-01	2.99E+01	2.84E+01	3.87E+01
940	490086.72	3861035.12	3.81998	2.98186	4.06472	3.2696	11.4	2.954	3.1006	2.98186	2.66E+01	5.51E+00	4.23E-04	1.15E-01	3.57E+00	2.78E-01	2.20E+01	2.03E+01	3.78E+01
941	490136.72	3861035.12	3.7525	3.00387	4.20526	3.18607	11.4	2.924	3.1373	3.00387	2.62E+01	5.55E+00	4.38E-04	1.12E-01	3.57E+00	2.75E-01	2.22E+01	2.04E+01	3.75E+01
942	490186.72	3861035.12	3.73675	3.02838	4.15751	3.11082	11.27	2.882	3.1771	3.02838	2.61E+01	5.59E+00	4.33E-04	1.09E-01	3.53E+00	2.71E-01	2.25E+01	2.06E+01	3.75E+01
943	490236.72	3861035.12	3.72204	3.0609	3.94229	3.08445	11.13	2.835	3.2283	3.0609	2.59E+01	5.65E+00	4.10E-04	1.09E-01	3.49E+00	2.66E-01	2.29E+01	2.08E+01	3.75E+01
944	490286.72	3861035.12	3.70634	3.08979	3.60388	3.05528	11.29	2.78	3.2657	3.08979	2.58E+01	5.71E+00	3.75E-04	1.08E-01	3.54E+00	2.61E-01	2.31E+01	2.10E+01	3.76E+01
945	490336.72	3861035.12	3.69256	3.11824	3.3669	3.05257	11.41	2.754	3.3093	3.11824	2.57E+01	5.76E+00	3.51E-04	1.07E-01	3.57E+00	2.59E-01	2.34E+01	2.12E+01	3.77E+01
946	490386.72	3861035.12	3.68341	3.17152	3.64474	3.06524	11.47	2.732	3.3798	3.17152	2.57E+01	5.86E+00	3.79E-04	1.08E-01	3.59E+00	2.57E-01	2.39E+01	2.16E+01	3.79E+01
947	490436.72	3861035.12	3.6762	3.23238	4.0255	3.07273	11.5	2.742	3.4436	3.23238	2.56E+01	5.97E+00	4.19E-04	1.08E-01	3.60E+00	2.58E-01	2.44E+01	2.20E+01	3.80E+01
948	490486.72	3861035.12	3.66841	3.29117	4.47708	3.10377	11.48	2.75	3.5006	3.29117	2.56E+01	6.08E+00	4.66E-04	1.09E-01	3.60E+00	2.58E-01	2.48E+01	2.24E+01	3.80E+01
949	490536.72	3861035.12	3.66165	3.35029	4.98684	3.15091	11.38	2.76	3.5486	3.35029	2.55E+01	6.19E+00	5.19E-04	1.11E-01	3.57E+00	2.59E-01	2.51E+01	2.28E+01	3.80E+01
950	490586.72	3861035.12	3.6601	3.40326	5.17975	3.20453	11.18	2.769	3.5867	3.40326	2.55E+01	6.29E+00	5.39E-04	1.13E-01	3.50E+00	2.60E-01	2.54E+01	2.31E+01	3.80E+01
951	490636.72	3861035.12	3.6603	3.45688	5.03357	3.293	10.9	2.787	3.6152	3.45688	2.55E+01	6.38E+00	5.24E-04	1.16E-01	3.42E+00	2.62E-01	2.56E+01	2.35E+01	3.78E+01
952	490686.72	3861035.12	3.66211	3.50744	4.60042	3.37402	10.54	2.844	3.6317	3.50744	2.55E+01	6.48E+00	4.79E-04	1.19E-01	3.30E+00	2.67E-01	2.57E+01	2.39E+01	3.76E+01
953	490736.72	3861035.12	3.66546	3.56715	4.01576	3.44338	10.16	2.918	3.6699	3.56715	2.56E+01	6.59E+00	4.18E-04	1.21E-01	3.18E+00	2.74E-01	2.60E+01	2.43E+01	3.75E+01
954	490786.72	3861035.12	3.67129	3.65505	3.61179	3.50128	9.851	3.001	3.7175	3.65505	2.56E+01	6.75E+00	3.76E-04	1.23E-01	3.09E+00	2.82E-01	2.63E+01	2.49E+01	3.73E+01
955	490836.72	3861035.12	3.67803	3.78456	3.56763	3.58892	9.525	3.078	3.8172	3.78456	2.56E+01	6.99E+00	3.71E-04	1.26E-01	2.98E+00	2.89E-01	2.70E+01	2.57E+01	3.73E+01
956	490086.72	3861085.12	3.8084	3.02667	3.91435	3.24735	11.32	2.941	3.1368	3.02667	2.66E+01	5.59E+00	4.08E-04	1.14E-01	3.55E+00	2.76E-01	2.22E+01	2.06E+01	3.77E+01
957	490136.72	3861085.12	3.73579	3.05879	4.10448	3.17209	11.24	2.915	3.1827	3.05879	2.60E+01	5.65E+00	4.27E-04	1.12E-01	3.52E+00	2.74E-01	2.26E+01	2.08E+01	3.74E+01
958	490186.72	3861085.12	3.66667	3.09329	4.12665	3.09763	11.21	2.882	3.2257	3.09329	2.56E+01	5.71E+00	4.30E-04	1.09E-01	3.51E+00	2.71E-01	2.29E+01	2.10E+01	3.70E+01
959	490236.72	3861085.12	3.65244	3.12426	3.96444	3.04902	11.03	2.829	3.278	3.12426	2.55E+01	5.77E+00	4.13E-04	1.07E-01	3.46E+00	2.66E-01	2.32E+01	2.12E+01	3.70E+01
960	490286.72	3861085.12	3.64006	3.15521	3.67912	3.0162	10.98	2.791	3.3286	3.15521	2.54E+01	5.83E+00	3.83E-04	1.06E-01	3.44E+00	2.62E-01	2.36E+01	2.15E+01	3.71E+01
961	490336.72	3861085.12	3.62901	3.19417	3.33111	2.99168	11.13	2.762	3.3778	3.19417	2.53E+01	5.90E+00	3.47E-04	1.05E-01	3.49E+00	2.60E-01	2.39E+01	2.17E+01	3.73E+01
962	490386.72	3861085.12	3.62122	3.23862	3.36033	2.98752	11.24	2.738	3.4305	3.23862	2.52E+01	5.98E+00	3.50E-04	1.05E-01	3.52E+00	2.57E-01	2.43E+01	2.20E+01	3.74E+01
963	490436.72	3861085.12	3.61318	3.27838	3.66053	2.98443	11.27	2.703	3.4754	3.27838	2.52E+01	6.05E+00	3.81E-04	1.05E-01	3.53E+00	2.54E-01	2.46E+01	2.23E+01	3.75E+01
964	490486.72	3861085.12	3.60682	3.31665	4.10326	3.00534	11.27	2.682	3.5141	3.31665	2.51E+01	6.13E+00	4.27E-04	1.06E-01	3.53E+00	2.52E-01	2.49E+01	2.26E+01	3.75E+01
965	490536.72	3861085.12	3.60503	3.35709	4.59814	3.05404	11.26	2.698	3.5469	3.35709	2.51E+01	6.20E+00	4.79E-04	1.07E-01	3.53E+00	2.54E-01	2.51E+01	2.28E+01	3.75E+01

966	490586.72	3861085.12	3.60158	3.38573	4.93772	3.10026	11.12	2.709	3.5669	3.38573	2.51E+01	6.25E+00	5.14E-04	1.09E-01	3.49E+00	2.55E-01	2.53E+01	2.30E+01	3.75E+01
967	490636.72	3861085.12	3.59848	3.40257	4.95955	3.16161	10.9	2.717	3.5645	3.40257	2.51E+01	6.28E+00	5.16E-04	1.11E-01	3.41E+00	2.55E-01	2.53E+01	2.31E+01	3.73E+01
968	490686.72	3861085.12	3.59876	3.44187	4.69265	3.24534	10.6	2.772	3.5978	3.44187	2.51E+01	6.36E+00	4.89E-04	1.14E-01	3.32E+00	2.61E-01	2.55E+01	2.34E+01	3.72E+01
969	490736.72	3861085.12	3.60188	3.50418	4.2155	3.32409	10.24	2.861	3.6272	3.50418	2.51E+01	6.47E+00	4.39E-04	1.17E-01	3.21E+00	2.69E-01	2.57E+01	2.38E+01	3.71E+01
970	490786.72	3861085.12	3.60655	3.56531	3.6756	3.39066	9.9	2.948	3.6511	3.56531	2.51E+01	6.58E+00	3.83E-04	1.19E-01	3.10E+00	2.77E-01	2.59E+01	2.42E+01	3.69E+01
971	490836.72	3861085.12	3.61218	3.62776	3.45011	3.45611	9.589	3.029	3.674	3.62776	2.52E+01	6.70E+00	3.59E-04	1.22E-01	3.00E+00	2.85E-01	2.60E+01	2.47E+01	3.67E+01
972	490086.72	3861135.12	3.83459	3.01651	3.75273	3.22275	11.21	2.9	3.1213	3.01651	2.67E+01	5.57E+00	3.91E-04	1.13E-01	3.51E+00	2.73E-01	2.21E+01	2.05E+01	3.78E+01
973	490136.72	3861135.12	3.72778	3.04957	3.97503	3.14866	11.08	2.875	3.1679	3.04957	2.60E+01	5.63E+00	4.14E-04	1.11E-01	3.47E+00	2.70E-01	2.24E+01	2.07E+01	3.72E+01
974	490186.72	3861135.12	3.65995	3.08563	4.04677	3.07647	11.05	2.842	3.2154	3.08563	2.55E+01	5.70E+00	4.21E-04	1.08E-01	3.46E+00	2.67E-01	2.28E+01	2.10E+01	3.69E+01
975	490236.72	3861135.12	3.59106	3.1237	3.95378	3.01188	10.97	2.822	3.2639	3.1237	2.50E+01	5.77E+00	4.12E-04	1.06E-01	3.44E+00	2.65E-01	2.31E+01	2.12E+01	3.65E+01
976	490286.72	3861135.12	3.57969	3.16098	3.72475	2.9855	10.77	2.8	3.3242	3.16098	2.50E+01	5.84E+00	3.88E-04	1.05E-01	3.37E+00	2.63E-01	2.36E+01	2.15E+01	3.66E+01
977	490336.72	3861135.12	3.57049	3.20175	3.41543	2.95284	10.84	2.768	3.3824	3.20175	2.49E+01	5.91E+00	3.56E-04	1.04E-01	3.40E+00	2.60E-01	2.40E+01	2.18E+01	3.68E+01
978	490386.72	3861135.12	3.56314	3.24949	3.16989	2.92868	10.98	2.734	3.4398	3.24949	2.48E+01	6.00E+00	3.30E-04	1.03E-01	3.44E+00	2.57E-01	2.44E+01	2.21E+01	3.69E+01
979	490436.72	3861135.12	3.5561	3.29647	3.36472	2.90937	11.05	2.699	3.4935	3.29647	2.48E+01	6.09E+00	3.50E-04	1.02E-01	3.46E+00	2.54E-01	2.48E+01	2.24E+01	3.70E+01
980	490486.72	3861135.12	3.55099	3.34251	3.73723	2.91852	11.07	2.681	3.5435	3.34251	2.48E+01	6.17E+00	3.89E-04	1.03E-01	3.47E+00	2.52E-01	2.51E+01	2.27E+01	3.71E+01
981	490536.72	3861135.12	3.54721	3.38787	4.16783	2.95746	11.07	2.664	3.5875	3.38787	2.47E+01	6.26E+00	4.34E-04	1.04E-01	3.47E+00	2.50E-01	2.54E+01	2.30E+01	3.72E+01
982	490586.72	3861135.12	3.54382	3.43059	4.62305	2.99981	11.01	2.672	3.6212	3.43059	2.47E+01	6.34E+00	4.81E-04	1.06E-01	3.45E+00	2.51E-01	2.57E+01	2.33E+01	3.72E+01
983	490636.72	3861135.12	3.54022	3.46077	4.80207	3.04401	10.85	2.702	3.6444	3.46077	2.47E+01	6.39E+00	5.00E-04	1.07E-01	3.40E+00	2.54E-01	2.58E+01	2.35E+01	3.71E+01
984	490686.72	3861135.12	3.5402	3.4995	4.70184	3.12481	10.63	2.753	3.6605	3.4995	2.47E+01	6.46E+00	4.89E-04	1.10E-01	3.33E+00	2.59E-01	2.59E+01	2.38E+01	3.70E+01
985	490736.72	3861135.12	3.54241	3.53744	4.3521	3.20845	10.34	2.806	3.6709	3.53744	2.47E+01	6.53E+00	4.53E-04	1.13E-01	3.24E+00	2.64E-01	2.60E+01	2.41E+01	3.68E+01
986	490786.72	3861135.12	3.54578	3.57243	3.86451	3.29004	9.976	2.876	3.6775	3.57243	2.47E+01	6.60E+00	4.02E-04	1.16E-01	3.13E+00	2.70E-01	2.61E+01	2.43E+01	3.66E+01
987	490836.72	3861135.12	3.54978	3.60549	3.42326	3.35971	9.651	2.95	3.6716	3.60549	2.47E+01	6.66E+00	3.56E-04	1.18E-01	3.02E+00	2.77E-01	2.60E+01	2.45E+01	3.63E+01
988	490086.72	3861185.12	3.86289	2.95778	3.58506	3.19866	11.11	2.821	3.0605	2.95778	2.69E+01	5.46E+00	3.73E-04	1.13E-01	3.48E+00	2.65E-01	2.17E+01	2.01E+01	3.78E+01
989	490136.72	3861185.12	3.71633	2.99539	3.82609	3.11629	10.97	2.796	3.1076	2.99539	2.59E+01	5.53E+00	3.98E-04	1.10E-01	3.44E+00	2.63E-01	2.20E+01	2.04E+01	3.69E+01
990	490186.72	3861185.12	3.64562	3.03207	3.93878	3.04481	10.84	2.793	3.1574	3.03207	2.54E+01	5.60E+00	4.10E-04	1.07E-01	3.40E+00	2.62E-01	2.24E+01	2.06E+01	3.65E+01
991	490236.72	3861185.12	3.58222	3.07201	3.90124	2.98555	10.83	2.782	3.2078	3.07201	2.50E+01	5.67E+00	4.06E-04	1.05E-01	3.39E+00	2.61E-01	2.27E+01	2.09E+01	3.62E+01
992	490286.72	3861185.12	3.51925	3.11326	3.73425	2.94799	10.72	2.767	3.2632	3.11326	2.45E+01	5.75E+00	3.89E-04	1.04E-01	3.36E+00	2.60E-01	2.31E+01	2.12E+01	3.60E+01
993	490336.72	3861185.12	3.50304	3.15289	3.45946	2.9125	10.52	2.738	3.3253	3.15289	2.44E+01	5.82E+00	3.60E-04	1.03E-01	3.30E+00	2.57E-01	2.36E+01	2.14E+01	3.60E+01
994	490386.72	3861185.12	3.49944	3.19657	3.16145	2.88606	10.67	2.711	3.3875	3.19657	2.44E+01	5.90E+00	3.29E-04	1.02E-01	3.34E+00	2.55E-01	2.40E+01	2.17E+01	3.63E+01
995	490436.72	3861185.12	3.49688	3.24834	3.16793	2.87189	10.8	2.695	3.4481	3.24834	2.44E+01	6.00E+00	3.30E-04	1.01E-01	3.38E+00	2.53E-01	2.44E+01	2.21E+01	3.65E+01
996	490486.72	3861185.12	3.49267	3.3003	3.37825	2.8573	10.84	2.68	3.5047	3.3003	2.43E+01	6.10E+00	3.52E-04	1.01E-01	3.40E+00	2.52E-01	2.48E+01	2.24E+01	3.66E+01
997	490536.72	3861185.12	3.49285	3.34963	3.81861	2.88981	10.89	2.699	3.5576	3.34963	2.44E+01	6.19E+00	3.98E-04	1.02E-01	3.41E+00	2.54E-01	2.52E+01	2.28E+01	3.67E+01
998	490586.72	3861185.12	3.48861	3.40051	4.27469	2.92217	10.87	2.722	3.6058	3.40051	2.43E+01	6.28E+00	4.45E-04	1.03E-01	3.41E+00	2.56E-01	2.55E+01	2.31E+01	3.68E+01
999	490636.72	3861185.12	3.48298	3.44576	4.57076	2.95648	10.76	2.749	3.6404	3.44576	2.43E+01	6.36E+00	4.76E-04	1.04E-01	3.37E+00	2.58E-01	2.58E+01	2.34E+01	3.67E+01
1000	490686.72	3861185.12	3.48205	3.48975	4.6196	3.01735	10.6	2.783	3.6694	3.48975	2.43E+01	6.45E+00	4.81E-04	1.06E-01	3.32E+00	2.62E-01	2.60E+01	2.37E+01	3.67E+01
1001	490736.72	3861185.12	3.48494	3.54107	4.42051	3.11189	10.38	2.819	3.7001	3.54107	2.43E+01	6.54E+00	4.60E-04	1.10E-01	3.25E+00	2.65E-01	2.62E+01	2.41E+01	3.66E+01
1002	490786.72	3861185.12	3.48803	3.58858	4.0281	3.1983	10.09	2.849	3.7199	3.58858	2.43E+01	6.63E+00	4.19E-04	1.13E-01	3.16E+00	2.68E-01	2.64E+01	2.44E+01	3.64E+01
1003	490836.72	3861185.12	3.49143	3.63234	3.53015	3.27256	9.716	2.877	3.7322	3.63234	2.43E+01	6.71E+00	3.68E-04	1.15E-01	3.04E+00	2.70E-01	2.64E+01	2.47E+01	3.62E+01
1004	490086.72	3861235.12	3.89873	2.85908	3.41294	3.17213	10.96	2.728	2.96	2.85908	2.72E+01	5.28E+00	3.55E-04	1.12E-01	3.43E+00	2.56E-01	2.10E+01	1.94E+01	3.78E+01
1005	490136.72	3861235.12	3.7459	2.89906	3.67533	3.0933	10.85	2.711	3.007	2.89906	2.61E+01	5.35E+00	3.83E-04	1.09E-01	3.40E+00	2.55E-01	2.13E+01	1.97E+01	3.68E+01
1006	490186.72	3861235.12	3.62404	2.93807	3.82559	3.02511	10.75	2.719	3.0583	2.93807	2.53E+01	5.43E+00	3.98E-04	1.06E-01	3.37E+00	2.56E-01	2.17E+01	2.00E+01	3.61E+01
1007	490236.72	3861235.12	3.56557	2.97819	3.8287	2.96022	10.66	2.713	3.1093	2.97819	2.49E+01	5.50E+00	3.99E-04	1.04E-01	3.34E+00	2.55E-01	2.20E+01	2.03E+01	3.58E+01
1008	490386.72	3861235.12	3.42861	3.10835	3.21147	2.84955	10.36	2.662	3.2844	3.10835	2.39E+01	5.74E+00	3.34E-04	1.00E-01	3.25E+00	2.50E-01	2.33E+01	2.11E+01	3.54E+01
1009	490436.72	3861235.12	3.42813	3.15149	2.99938	2.82277	10.49	2.662	3.3478	3.15149	2.39E+01	5.82E+00	3.12E-04	9.94E-02	3.29E+00	2.50E-01	2.37E+01	2.14E+01	3.56E+01
1010	490486.72	3861235.12	3.42727	3.2055	3.16873	2.80944	10.58	2.693	3.4088	3.2055	2.39E+01	5.92E+00	3.30E-04	9.89E-02	3.32E+00	2.53E-01	2.42E+01	2.18E+01	3.58E+01
1011	490536.72	3861235.12	3.43146	3.25804	3.48027	2.82444	10.67	2.737	3.4679	3.25804	2.39E+01	6.02E+00	3.62E-04	9.94E-02	3.34E+00	2.57E-01	2.46E+01	2.22E+01	3.61E+01
1012	490586.72	3861235.12	3.43355	3.30459	3.90836	2.86776	10.7	2.772	3.5193	3.30459	2.39E+01	6.10E+00	4.07E-04	1.01E-01	3.35E+00	2.61E-01	2.49E+01	2.25E+01	3.62E+01
1013	490636.72	3861235.12	3.42561	3.36601	4.28581	2.8878	10.62	2.777	3.5698	3.36601	2.39E+01	6.22E+00	4.46E-04	1.02E-01	3.33E+00	2.61E-01	2.53E+01	2.29E+01	3.62E+01
1014	490686.72	3861235.12	3.42524	3.41833	4.46688	2.9368	10.53	2.793	3.6107	3.41833	2.39E+01	6.31E+00	4.65E-04	1.03E-01	3.30E+00	2.63E-01	2.56E+01	2.32E+01	3.62E+01
1015	490736.72	3861235.12	3.42796	3.47131	4.40825	3.01771	10.38	2.808	3.6494	3.47131	2.39E+01	6.41E+00	4.59E-04	1.06E-01	3.25E+00	2.64E-01	2.59E+01	2.36E+01	3.62E+01
1016	490786.72	3861235.12	3.43181	3.52505	4.12611	3.1078	10.15	2.815	3.681	3.52505	2.39E+01	6.51E+00	4.30E-04	1.09E-01	3.18E+00	2.65E-01	2.61E+01	2.40E+01	3.61E+01
1017	490836.72	3861235.12	3.43456	3.57753	3.71301	3.18428	9.838	2.809	3.7045	3.57753	2.39E+01	6.61E+00	3.87E-04	1.12E-01	3.08E+00	2.64E-01	2.62E+01	2.43E+01	3.59E+01
1018	490086.72	3861285.12	3.93079	2.7282	3.24858	3.1583	10.8	2.7	2.8268	2.7282	2.74E+01	5.04E+00	3.38E-04	1.11E-01	3.38E+00	2.54E-01	2.00E+01	1.86E+01	3.77E+01
1019	490136.72	3861285.12	3.78687	2.76651	3.53316	3.09123	10.78	2.692	2.8725	2.76651	2.64E+01	5.11E+00	3.68E-04	1.09E-01	3.38E+00	2.53E-01	2.04E+01	1.88E+01	3.68E+01
1020	490186.72	3861285.12	3.64057	2.8111	3.70242	3.0091	10.66	2.686	2.9235	2.8111	2.54E+01	5.19E+00	3.85E-04	1.06E-01	3.34E+00	2.52E-01	2.07E+01	1.91E+01	3.59E+01
1021	490236.72	3861285.12	3.54714	2.85263	3.74818	2.94654	10.52	2.676	2.9772	2.85263	2.47E+01	5.27E+00	3.90E-04	1.04E-01	3.30E+00	2.52E-01	2.11E+01	1.94E+01	3.53E+01
1022	490386.72	3861285.12	3.37544	2.9884	3.24698	2.82019	10.17	2.693	3.1473	2.9884	2.35E+01	5.52E+00	3.38E-04	9.93E-02	3.19E+00	2.53E-01	2.23E+01	2.03E+01	3.46E+01

1023	490436.72	3861285.12	3.35688	3.0319	2.99427	2.80074	10.22	2.719	3.2114	3.0319	2.34E+01	5.60E+00	3.12E-04	9.86E-02	3.20E+00	2.56E-01	2.28E+01	2.06E+01	3.47E+01
1024	490486.72	3861285.12	3.3602	3.07825	3.0069	2.77932	10.34	2.733	3.2749	3.07825	2.34E+01	5.69E+00	3.13E-04	9.78E-02	3.24E+00	2.57E-01	2.32E+01	2.09E+01	3.50E+01
1025	490536.72	3861285.12	3.3633	3.13274	3.22054	2.77312	10.41	2.75	3.3364	3.13274	2.34E+01	5.79E+00	3.35E-04	9.76E-02	3.26E+00	2.58E-01	2.36E+01	2.13E+01	3.52E+01
1026	490586.72	3861285.12	3.36654	3.18591	3.52585	2.79207	10.46	2.765	3.3944	3.18591	2.35E+01	5.88E+00	3.67E-04	9.83E-02	3.28E+00	2.60E-01	2.41E+01	2.17E+01	3.54E+01
1027	490636.72	3861285.12	3.36471	3.24438	3.95816	2.82025	10.44	2.76	3.449	3.24438	2.35E+01	5.99E+00	4.12E-04	9.93E-02	3.27E+00	2.59E-01	2.44E+01	2.21E+01	3.55E+01
1028	490686.72	3861285.12	3.36609	3.29916	4.2479	2.8656	10.4	2.756	3.4979	3.29916	2.35E+01	6.09E+00	4.42E-04	1.01E-01	3.26E+00	2.59E-01	2.48E+01	2.24E+01	3.55E+01
1029	490736.72	3861285.12	3.37191	3.35178	4.329	2.93032	10.33	2.758	3.541	3.35178	2.35E+01	6.19E+00	4.51E-04	1.03E-01	3.24E+00	2.59E-01	2.51E+01	2.28E+01	3.56E+01
1030	490786.72	3861285.12	3.37393	3.40821	4.1633	3.01329	10.15	2.743	3.5804	3.40821	2.35E+01	6.29E+00	4.33E-04	1.06E-01	3.18E+00	2.58E-01	2.54E+01	2.32E+01	3.56E+01
1031	490836.72	3861285.12	3.37494	3.46296	3.82928	3.08575	9.886	2.721	3.6096	3.46296	2.35E+01	6.40E+00	3.99E-04	1.09E-01	3.10E+00	2.56E-01	2.56E+01	2.35E+01	3.54E+01
1032	490061.24	3859716.13	5.94787	9.43518	23.64388	11.41396	12.74	7.551	8.5583	9.43518	4.15E+01	1.74E+01	2.46E-03	4.02E-01	3.99E+00	7.10E-01	6.06E+01	6.42E+01	6.05E+01
1033	490111.24	3859716.13	6.1586	10.84116	21.29064	11.97637	11.6	8.141	9.923	10.84116	4.29E+01	2.00E+01	2.22E-03	4.22E-01	3.64E+00	7.65E-01	7.03E+01	7.37E+01	6.44E+01
1034	490161.24	3859716.13	6.43731	12.68683	19.79811	12.62979	10.87	8.729	11.946	12.68683	4.49E+01	2.34E+01	2.06E-03	4.45E-01	3.41E+00	8.21E-01	8.46E+01	8.63E+01	7.14E+01
1035	490211.24	3859716.13	6.86628	15.36128	20.99915	13.17712	10.37	9.259	13.752	15.36128	4.79E+01	2.84E+01	2.19E-03	4.64E-01	3.25E+00	8.70E-01	9.74E+01	1.04E+02	7.38E+01
1036	490061.24	3859766.13	5.593	7.47508	21.87883	10.53327	13.41	6.997	6.9764	7.47508	3.90E+01	1.38E+01	2.28E-03	3.71E-01	4.20E+00	6.58E-01	4.94E+01	5.08E+01	5.66E+01
1037	490111.24	3859766.13	5.70395	8.31183	21.06803	11.06241	12.32	7.259	7.4987	8.31183	3.98E+01	1.54E+01	2.19E-03	3.89E-01	3.86E+00	6.82E-01	5.31E+01	5.65E+01	5.67E+01
1038	490161.24	3859766.13	5.85219	9.32907	19.03274	11.56925	11.23	7.705	8.4466	9.32907	4.08E+01	1.72E+01	1.98E-03	4.07E-01	3.52E+00	7.24E-01	5.98E+01	6.34E+01	5.91E+01
1039	490211.24	3859766.13	6.0529	10.59352	18.0488	12.24541	10.53	8.209	9.8369	10.59352	4.22E+01	1.96E+01	1.88E-03	4.31E-01	3.30E+00	7.72E-01	6.97E+01	7.20E+01	6.39E+01
1040	490061.24	3859816.13	5.39279	6.12488	21.90894	9.12429	13.91	6.71	6.0899	6.12488	3.76E+01	1.13E+01	2.28E-03	3.21E-01	4.36E+00	6.31E-01	4.31E+01	4.16E+01	5.57E+01
1041	490111.24	3859816.13	5.43778	6.69262	19.31515	9.64882	12.95	6.925	6.2739	6.69262	3.79E+01	1.24E+01	2.01E-03	3.40E-01	4.06E+00	6.51E-01	4.45E+01	4.55E+01	5.43E+01
1042	490161.24	3859816.13	5.5179	7.3558	18.92734	10.18124	11.89	7.202	6.6016	7.3558	3.85E+01	1.36E+01	1.97E-03	3.58E-01	3.73E+00	6.77E-01	4.68E+01	5.00E+01	5.36E+01
1043	490211.24	3859816.13	5.63304	8.16855	17.3781	10.68995	10.88	7.56	7.3913	8.16855	3.93E+01	1.51E+01	1.81E-03	3.76E-01	3.41E+00	7.11E-01	5.24E+01	5.55E+01	5.57E+01
1044	490061.24	3859866.13	5.2693	5.26043	19.2074	7.90231	14.24	6.265	5.4426	5.26043	3.67E+01	9.72E+00	2.00E-03	2.78E-01	4.46E+00	5.89E-01	3.86E+01	3.58E+01	5.46E+01
1045	490111.24	3859866.13	5.27199	5.58318	19.08882	8.22079	13.45	6.388	5.6129	5.58318	3.68E+01	1.03E+01	1.99E-03	2.89E-01	4.21E+00	6.00E-01	3.98E+01	3.80E+01	5.40E+01
1046	490161.24	3859866.13	5.30778	6.0383	17.24532	8.52383	12.53	6.622	5.768	6.0383	3.70E+01	1.12E+01	1.80E-03	3.00E-01	3.93E+00	6.22E-01	4.09E+01	4.11E+01	5.28E+01
1047	490211.24	3859866.13	5.36927	6.59369	17.21312	9.11627	11.51	6.918	5.9921	6.59369	3.74E+01	1.22E+01	1.79E-03	3.21E-01	3.61E+00	6.50E-01	4.25E+01	4.48E+01	5.18E+01
1048	490061.24	3859916.13	5.20444	4.58762	14.09265	7.19228	14.4	5.772	4.8809	4.58762	3.63E+01	8.47E+00	1.47E-03	2.53E-01	4.51E+00	5.43E-01	3.46E+01	3.12E+01	5.35E+01
1049	490111.24	3859916.13	5.17651	4.85559	17.59009	7.43204	13.8	5.863	5.0747	4.85559	3.61E+01	8.97E+00	1.83E-03	2.62E-01	4.32E+00	5.51E-01	3.60E+01	3.30E+01	5.31E+01
1050	490161.24	3859916.13	5.15911	5.13537	16.89518	7.69957	13.02	5.967	5.2254	5.13537	3.60E+01	9.48E+00	1.76E-03	2.71E-01	4.08E+00	5.61E-01	3.70E+01	3.49E+01	5.25E+01
1051	490211.24	3859916.13	5.17661	5.4735	15.46903	7.92979	12.11	6.175	5.3439	5.4735	3.61E+01	1.01E+01	1.61E-03	2.79E-01	3.80E+00	5.80E-01	3.79E+01	3.72E+01	5.15E+01
1052	490229.25	3859815.26	5.69215	8.55969	17.00773	11.0034	10.58	7.718	7.7587	8.55969	3.97E+01	1.58E+01	1.77E-03	3.87E-01	3.31E+00	7.25E-01	5.50E+01	5.82E+01	5.67E+01
1053	490279.25	3859815.26	5.86023	9.55292	16.66109	11.65674	10.06	8.061	8.7702	9.55292	4.09E+01	1.76E+01	1.73E-03	4.10E-01	3.15E+00	7.58E-01	6.21E+01	6.50E+01	6.00E+01
1054	490329.25	3859815.26	6.09105	10.74784	17.12573	12.25593	9.576	8.481	9.8491	10.74784	4.25E+01	1.99E+01	1.78E-03	4.31E-01	3.00E+00	7.97E-01	6.98E+01	7.31E+01	6.32E+01
1055	490379.25	3859815.26	6.37893	12.38816	17.93485	12.94079	9.416	8.997	10.923	12.38816	4.45E+01	2.29E+01	1.87E-03	4.55E-01	2.95E+00	8.46E-01	7.74E+01	8.42E+01	6.48E+01
1056	490429.25	3859815.26	6.67445	14.12615	18.13078	13.84858	9.297	9.623	12.506	14.12615	4.65E+01	2.61E+01	1.89E-03	4.87E-01	2.91E+00	9.05E-01	8.86E+01	9.61E+01	6.95E+01
1057	490229.25	3859865.26	5.40245	6.84031	16.95491	9.3499	11.11	7.059	6.1614	6.84031	3.77E+01	1.26E+01	1.77E-03	3.29E-01	3.48E+00	6.64E-01	4.37E+01	4.65E+01	5.19E+01
1058	490279.25	3859865.26	5.50209	7.54216	15.74287	9.9022	10.25	7.419	6.8278	7.54216	3.84E+01	1.39E+01	1.64E-03	3.49E-01	3.21E+00	6.97E-01	4.84E+01	5.13E+01	5.36E+01
1059	490329.25	3859865.26	5.63241	8.39298	15.51609	10.492	9.761	7.778	7.5097	8.39298	3.93E+01	1.55E+01	1.62E-03	3.69E-01	3.06E+00	7.31E-01	5.32E+01	5.71E+01	5.51E+01
1060	490379.25	3859865.26	5.79469	9.27646	15.86277	10.99204	9.313	8.152	8.4345	9.27646	4.04E+01	1.71E+01	1.65E-03	3.87E-01	2.92E+00	7.66E-01	5.98E+01	6.31E+01	5.83E+01
1061	490429.25	3859865.26	6.01236	10.46452	16.7369	11.39591	9.157	8.54	9.3183	10.46452	4.19E+01	1.93E+01	1.74E-03	4.01E-01	2.87E+00	8.03E-01	6.60E+01	7.12E+01	6.02E+01
1062	490229.25	3859915.26	5.19192	5.6578	15.84844	8.13251	11.76	6.29	5.3994	5.6578	3.62E+01	1.04E+01	1.65E-03	2.86E-01	3.68E+00	5.91E-01	3.83E+01	3.85E+01	5.10E+01
1063	490279.25	3859915.26	5.24666	6.18185	15.35019	8.57087	10.72	6.562	5.6104	6.18185	3.66E+01	1.14E+01	1.60E-03	3.02E-01	3.36E+00	6.17E-01	3.98E+01	4.20E+01	5.00E+01
1064	490329.25	3859915.26	5.32753	6.79682	14.51513	8.97143	9.924	6.899	6.0716	6.79682	3.71E+01	1.26E+01	1.51E-03	3.16E-01	3.11E+00	6.48E-01	4.30E+01	4.62E+01	5.06E+01
1065	490379.25	3859915.26	5.43449	7.51527	14.59814	9.44377	9.478	7.243	6.6639	7.51527	3.79E+01	1.39E+01	1.52E-03	3.32E-01	2.97E+00	6.81E-01	4.72E+01	5.11E+01	5.19E+01
1066	490429.25	3859915.26	5.56397	8.24657	14.57666	9.78812	9.047	7.573	7.2783	8.24657	3.88E+01	1.52E+01	1.52E-03	3.45E-01	2.83E+00	7.12E-01	5.16E+01	5.61E+01	5.34E+01
1067	490451.43	3859872.59	6.03181	10.57911	16.88574	11.25778	9.081	8.566	9.3481	10.57911	4.21E+01	1.95E+01	1.76E-03	3.96E-01	2.85E+00	8.05E-01	6.62E+01	7.19E+01	5.99E+01
1068	490501.43	3859872.59	6.26655	11.83918	17.52184	11.87423	8.955	9.042	10.282	11.83918	4.37E+01	2.19E+01	1.82E-03	4.18E-01	2.81E+00	8.50E-01	7.29E+01	8.05E+01	6.20E+01
1069	490551.43	3859872.59	6.50647	13.36727	17.34035	12.8472	8.792	9.699	11.842	13.36727	4.54E+01	2.47E+01	1.81E-03	4.52E-01	2.75E+00	9.12E-01	8.39E+01	9.09E+01	6.72E+01
1070	490601.43	3859872.59	6.76035	15.12169	16.50225	13.91833	8.681	10.7	13.725	15.12169	4.71E+01	2.79E+01	1.72E-03	4.90E-01	2.72E+00	1.01E+00	9.72E+01	1.03E+02	7.37E+01
1071	490451.43	3859922.59	5.57397	8.32287	14.60488	9.78844	8.904	7.581	7.3681	8.32287	3.89E+01	1.54E+01	1.52E-03	3.45E-01	2.79E+00	7.13E-01	5.22E+01	5.66E+01	5.37E+01
1072	490501.43	3859922.59	5.73793	9.12965	15.64676	10.11018	8.832	7.926	8.1803	9.12965	4.00E+01	1.69E+01	1.63E-03	3.56E-01	2.77E+00	7.45E-01	5.80E+01	6.21E+01	5.66E+01
1073	490551.43	3859922.59	5.94105	10.25213	16.83935	10.42146	8.735	8.356	8.9768	10.25213	4.14E+01	1.89E+01	1.75E-03	3.67E-01	2.74E+00	7.85E-01	6.36E+01	6.97E+01	5.81E+01
1074	490601.43	3859922.59	6.1466	11.3785	17.26582	10.79857	8.586	8.864	9.9124	11.3785	4.29E+01	2.10E+01	1.80E-03	3.80E-01	2.69E+00	8.33E-01	7.02E+01	7.74E+01	6.06E+01
1075	482129.67	3852241.07	4.31329	9.03372	1.99087	1.90447	2.892	2.132	9.1951	9.03372	3.01E+01	1.67E+01	2.07E-04	6.70E-02	9.06E-01	2.00E-01	6.52E+01	6.14E+01	5.17E+01
1076	482029.67	3852291.07	4.71119	11.83855	1.75823	2.26452	2.956	2.279	11.694	11.83855	3.28E+01	2.19E+01	1.83E-04	7.97E-02	9.26E-01	2.14E-01	8.29E+01	8.05E+01	5.83E+01
1077	482079.67	3852291.07	4.55582	10.86852	1.78147	2.11424	2.963	2.219	10.865	10.86852	3.18E+01	2.01E+01	1.85E-04	7.44E-02	9.28E-01	2.09E-01	7.70E+01	7.39E+01	5.61E+01
1078	482129.67	3852291.07	4.45034	9.85447	1.92775	1.97939	2.955	2.178	9.9722	9.85447	3.10E+01	1.82E+01	2.01E-04	6.97E-02	9.26E-01	2.05E-01	7.07E+01	6.70E+01	5.41E+01
1079	482179.67	3852291.07	4.32063	8.68295	2.15484	1.97301	2.933	2.16	8.8838	8.68295	3.01E+01	1.60E+01	2.24E-04	6.94E-02	9.19E-01	2.03E-01	6.29E+01	5.90E+01	5.13E+01

1080	482229.67	3852291.07	4.16883	7.64689	2.4498	2.04735	2.896	2.145	7.7046	7.64689	2.91E+01	1.41E+01	2.55E-04	7.21E-02	9.07E-01	2.02E-01	5.46E+01	5.20E+01	4.70E+01
1081	482029.67	3852341.07	5.03826	12.98478	1.82032	2.44053	2.958	2.374	12.855	12.98478	3.51E+01	2.40E+01	1.90E-04	8.59E-02	9.27E-01	2.23E-01	9.11E+01	8.83E+01	6.31E+01
1082	482079.67	3852341.07	4.71356	11.6316	1.78075	2.28774	2.986	2.299	11.563	11.6316	3.29E+01	2.15E+01	1.85E-04	8.05E-02	9.36E-01	2.16E-01	8.19E+01	7.91E+01	5.84E+01
1083	482129.67	3852341.07	4.58936	10.61695	1.88873	2.13233	2.997	2.246	10.683	10.61695	3.20E+01	1.96E+01	1.97E-04	7.50E-02	9.39E-01	2.11E-01	7.57E+01	7.22E+01	5.63E+01
1084	482179.67	3852341.07	4.46165	9.59416	2.08497	1.99767	2.993	2.208	9.7576	9.59416	3.11E+01	1.77E+01	2.17E-04	7.03E-02	9.38E-01	2.08E-01	6.91E+01	6.52E+01	5.39E+01
1085	482259.06	3852400.14	4.32503	8.65994	2.5313	2.05632	3.018	2.233	8.8528	8.65994	3.02E+01	1.60E+01	2.64E-04	7.24E-02	9.46E-01	2.10E-01	6.27E+01	5.89E+01	5.12E+01
1086	482309.06	3852400.14	4.15025	7.73235	2.84719	2.1481	3.002	2.221	7.7649	7.73235	2.89E+01	1.43E+01	2.96E-04	7.56E-02	9.41E-01	2.09E-01	5.50E+01	5.26E+01	4.69E+01
1087	482209.06	3852450.14	4.70998	10.61024	2.17129	2.2461	3.052	2.33	10.75	10.61024	3.28E+01	1.96E+01	2.26E-04	7.91E-02	9.56E-01	2.19E-01	7.62E+01	7.21E+01	5.77E+01
1088	482259.06	3852450.14	4.51313	9.46677	2.43549	2.09494	3.063	2.295	9.6718	9.46677	3.15E+01	1.75E+01	2.54E-04	7.37E-02	9.60E-01	2.16E-01	6.85E+01	6.44E+01	5.44E+01
1089	482309.06	3852450.14	4.30713	8.28111	2.75158	2.14967	3.065	2.264	8.4943	8.28111	3.00E+01	1.53E+01	2.86E-04	7.57E-02	9.60E-01	2.13E-01	6.02E+01	5.63E+01	5.04E+01
1090	482209.06	3852500.14	4.95124	11.73014	2.12158	2.44513	3.054	2.406	11.82	11.73014	3.45E+01	2.17E+01	2.21E-04	8.61E-02	9.57E-01	2.26E-01	8.37E+01	7.98E+01	6.14E+01
1091	482259.06	3852500.14	4.73398	10.44018	2.34279	2.27378	3.088	2.362	10.638	10.44018	3.30E+01	1.93E+01	2.44E-04	8.00E-02	9.67E-01	2.22E-01	7.54E+01	7.10E+01	5.79E+01
1092	482309.06	3852500.14	4.49777	9.15712	2.65251	2.16152	3.106	2.331	9.3885	9.15712	3.14E+01	1.69E+01	2.76E-04	7.61E-02	9.73E-01	2.19E-01	6.65E+01	6.23E+01	5.38E+01
1093	482283.91	3852513.62	4.67992	10.07383	2.46767	2.24372	3.103	2.364	10.297	10.07383	3.26E+01	1.86E+01	2.57E-04	7.90E-02	9.72E-01	2.22E-01	7.30E+01	6.85E+01	5.70E+01
1094	482333.91	3852513.62	4.42023	8.74773	2.82034	2.19267	3.116	2.331	8.9758	8.74773	3.08E+01	1.62E+01	2.94E-04	7.72E-02	9.76E-01	2.19E-01	6.36E+01	5.95E+01	5.24E+01
1095	482283.91	3852563.62	4.94331	11.30493	2.40576	2.43637	3.101	2.433	11.431	11.30493	3.45E+01	2.09E+01	2.50E-04	8.58E-02	9.72E-01	2.29E-01	8.10E+01	7.69E+01	6.08E+01
1096	482333.91	3852563.62	4.64359	9.69759	2.73865	2.25945	3.134	2.396	9.9483	9.69759	3.24E+01	1.79E+01	2.85E-04	7.95E-02	9.82E-01	2.25E-01	7.05E+01	6.59E+01	5.61E+01
1097	482383.91	3852563.62	4.33309	8.62868	3.13454	2.25722	3.147	2.36	8.4941	8.62868	3.02E+01	1.59E+01	3.26E-04	7.94E-02	9.86E-01	2.22E-01	6.02E+01	5.87E+01	4.89E+01
1098	482283.91	3852613.62	5.31004	13.09323	2.30328	2.67129	3.083	2.519	13.13	13.09323	3.70E+01	2.42E+01	2.40E-04	9.40E-02	9.66E-01	2.37E-01	9.30E+01	8.90E+01	6.65E+01
1099	482333.91	3852613.62	4.9452	11.15725	2.63895	2.4635	3.133	2.468	11.383	11.15725	3.45E+01	2.06E+01	2.75E-04	8.67E-02	9.82E-01	2.32E-01	8.07E+01	7.59E+01	6.12E+01
1100	482383.91	3852613.62	4.57357	9.31799	3.0387	2.27536	3.165	2.427	9.4786	9.31799	3.19E+01	1.72E+01	3.16E-04	8.01E-02	9.92E-01	2.28E-01	6.72E+01	6.34E+01	5.42E+01
1101	482602.38	3852600.87	3.73876	7.3452	3.63766	2.51445	3.088	2.278	6.741	7.3452	2.61E+01	1.36E+01	3.79E-04	8.85E-02	9.67E-01	2.14E-01	4.78E+01	4.99E+01	3.87E+01
1102	482652.38	3852600.87	3.65549	6.8119	3.1616	2.49615	3.016	2.271	6.2983	6.8119	2.55E+01	1.26E+01	3.29E-04	8.79E-02	9.45E-01	2.13E-01	4.46E+01	4.63E+01	3.76E+01
1103	482702.38	3852600.87	3.60938	6.35274	2.81115	2.46478	2.961	2.251	6.1226	6.35274	2.52E+01	1.17E+01	2.93E-04	8.68E-02	9.28E-01	2.12E-01	4.34E+01	4.32E+01	3.83E+01
1104	482552.38	3852650.87	3.88585	8.21845	3.94648	2.48132	3.214	2.341	7.6526	8.21845	2.71E+01	1.52E+01	4.11E-04	8.73E-02	1.01E+00	2.20E-01	5.42E+01	5.59E+01	4.19E+01
1105	482602.38	3852650.87	3.7971	7.67172	3.80759	2.55681	3.183	2.317	7.1235	7.67172	2.65E+01	1.42E+01	3.96E-04	9.00E-02	9.97E-01	2.18E-01	5.05E+01	5.22E+01	4.03E+01
1106	482652.38	3852650.87	3.70911	7.13717	3.41262	2.55624	3.13	2.305	6.6762	7.13717	2.59E+01	1.32E+01	3.55E-04	9.00E-02	9.81E-01	2.17E-01	4.73E+01	4.85E+01	3.91E+01
1107	482702.38	3852650.87	3.62272	6.54791	2.84761	2.51099	3.059	2.297	6.1569	6.54791	2.53E+01	1.21E+01	2.96E-04	8.84E-02	9.58E-01	2.16E-01	4.36E+01	4.45E+01	3.77E+01
1108	482552.38	3852700.87	3.97505	8.80601	3.98199	2.50947	3.267	2.417	8.1329	8.80601	2.77E+01	1.63E+01	4.15E-04	8.83E-02	1.02E+00	2.27E-01	5.76E+01	5.99E+01	4.31E+01
1109	482602.38	3852700.87	3.8553	8.06021	3.9458	2.5797	3.254	2.364	7.5131	8.06021	2.69E+01	1.49E+01	4.11E-04	9.08E-02	1.02E+00	2.22E-01	5.32E+01	5.48E+01	4.15E+01
1110	482652.38	3852700.87	3.73755	7.47412	3.64607	2.58331	3.214	2.337	7.0199	7.47412	2.61E+01	1.38E+01	3.80E-04	9.09E-02	1.01E+00	2.20E-01	4.97E+01	5.08E+01	4.01E+01
1111	482702.38	3852700.87	3.66206	6.89708	3.13161	2.56328	3.167	2.329	6.5085	6.89708	2.55E+01	1.27E+01	3.26E-04	9.02E-02	9.92E-01	2.19E-01	4.61E+01	4.69E+01	3.88E+01
1112	482452.38	3852750.87	4.94659	11.03754	3.2764	2.6263	3.201	2.596	11.271	11.03754	3.45E+01	2.04E+01	3.41E-04	9.24E-02	1.00E+00	2.44E-01	7.99E+01	7.51E+01	6.10E+01
1113	482521.29	3852749.74	4.28499	10.07388	3.82573	2.53501	3.272	2.527	9.0771	10.07388	2.99E+01	1.86E+01	3.98E-04	8.92E-02	1.03E+00	2.38E-01	6.43E+01	6.85E+01	4.56E+01
1114	482571.29	3852749.74	4.01318	9.04285	4.03781	2.55463	3.296	2.47	8.3988	9.04285	2.80E+01	1.67E+01	4.20E-04	8.99E-02	1.03E+00	2.32E-01	5.95E+01	6.15E+01	4.41E+01
1115	482521.29	3852799.74	4.58005	10.97472	3.75486	2.57351	3.253	2.612	9.8393	10.97472	3.19E+01	2.03E+01	3.91E-04	9.06E-02	1.02E+00	2.46E-01	6.97E+01	7.46E+01	4.86E+01
1116	482571.29	3852799.74	4.1441	9.92277	4.04109	2.60753	3.303	2.552	9.1159	9.92277	2.89E+01	1.83E+01	4.21E-04	9.18E-02	1.03E+00	2.40E-01	6.46E+01	6.75E+01	4.57E+01
1117	482621.29	3852799.74	3.97943	8.70818	4.09334	2.63538	3.332	2.491	8.1004	8.70818	2.77E+01	1.61E+01	4.26E-04	9.28E-02	1.04E+00	2.34E-01	5.74E+01	5.92E+01	4.34E+01
1118	482571.29	3852849.74	4.40825	11.09635	4.01376	2.67512	3.285	2.649	10.105	11.09635	3.07E+01	2.05E+01	4.18E-04	9.42E-02	1.03E+00	2.49E-01	7.16E+01	7.55E+01	4.87E+01
1119	482621.29	3852849.74	4.12541	9.33617	4.16248	2.69584	3.342	2.582	8.7351	9.33617	2.88E+01	1.72E+01	4.33E-04	9.49E-02	1.05E+00	2.43E-01	6.19E+01	6.35E+01	4.58E+01
1120	482577.42	3852901.55	4.79276	12.53813	3.99166	2.84597	3.263	2.754	11.397	12.53813	3.34E+01	2.32E+01	4.16E-04	1.00E-01	1.02E+00	2.59E-01	8.08E+01	8.53E+01	5.34E+01
1121	482627.42	3852901.55	4.27565	10.23149	4.20885	2.7991	3.332	2.685	9.57	10.23149	2.98E+01	1.89E+01	4.38E-04	9.85E-02	1.04E+00	2.52E-01	6.78E+01	6.96E+01	4.83E+01
1122	482629.96	3852955.85	4.56734	11.79178	4.22231	2.90451	3.299	2.806	10.99	11.79178	3.18E+01	2.18E+01	4.40E-04	1.02E-01	1.03E+00	2.64E-01	7.79E+01	8.02E+01	5.27E+01
1123	482679.96	3852955.85	4.23033	9.90005	4.25084	2.90174	3.372	2.72	9.1695	9.90005	2.95E+01	1.83E+01	4.43E-04	1.02E-01	1.06E+00	2.56E-01	6.50E+01	6.73E+01	4.68E+01
1124	482781.63	3853034.48	4.14498	8.2923	3.75506	3.19923	3.469	2.808	8.0302	8.2923	2.89E+01	1.53E+01	3.91E-04	1.13E-01	1.09E+00	2.64E-01	5.69E+01	5.64E+01	4.62E+01
1125	482831.63	3853034.48	4.03603	7.09374	3.67937	3.15965	3.528	2.706	7.1577	7.09374	2.81E+01	1.31E+01	3.83E-04	1.11E-01	1.11E+00	2.54E-01	5.07E+01	4.82E+01	4.52E+01
1126	482881.63	3853034.48	3.93782	6.66097	3.8457	3.03983	3.567	2.582	6.7154	6.66097	2.75E+01	1.23E+01	4.00E-04	1.07E-01	1.12E+00	2.43E-01	4.76E+01	4.53E+01	4.35E+01
1127	482781.63	3853084.48	4.29001	9.07796	3.96773	3.28267	3.434	2.93	8.882	9.07796	2.99E+01	1.68E+01	4.13E-04	1.16E-01	1.08E+00	2.75E-01	6.29E+01	6.17E+01	4.93E+01
1128	482831.63	3853084.48	4.15704	7.68433	3.68843	3.30902	3.513	2.812	7.7511	7.68433	2.90E+01	1.42E+01	3.84E-04	1.16E-01	1.10E+00	2.64E-01	5.49E+01	5.23E+01	4.73E+01
1129	482881.63	3853084.48	4.0422	7.06064	3.92522	3.19849	3.57	2.671	7.0857	7.06064	2.82E+01	1.30E+01	4.09E-04	1.13E-01	1.12E+00	2.51E-01	5.02E+01	4.80E+01	4.49E+01
1130	482781.63	3853134.48	4.4334	9.8288	4.16181	3.32449	3.419	3.058	9.6975	9.8288	3.09E+01	1.82E+01	4.33E-04	1.17E-01	1.07E+00	2.87E-01	6.87E+01	6.68E+01	5.24E+01
1131	482831.63	3853134.48	4.28671	8.40772	3.72646	3.43346	3.47	2.927	8.5044	8.40772	2.99E+01	1.55E+01	3.88E-04	1.21E-01	1.09E+00	2.75E-01	6.03E+01	5.72E+01	5.00E+01
1132	482881.63	3853134.48	4.15315	7.48332	3.99301	3.35306	3.551	2.768	7.5648	7.48332	2.90E+01	1.38E+01	4.16E-04	1.18E-01	1.11E+00	2.60E-01	5.36E+01	5.09E+01	4.70E+01
1133	482831.63	3853184.48	4.41152	8.64373	3.9001	3.52282	3.454	3.055	8.7734	8.64373	3.08E+01	1.60E+01	4.06E-04	1.24E-01	1.08E+00	2.87E-01	6.22E+01	5.88E+01	5.16E+01
1134	482881.63	3853184.48	4.27261	7.92074	4.05127	3.51534	3.501	2.886	8.0316	7.92074	2.98E+01	1.46E+01	4.22E-04	1.24E-01	1.10E+00	2.71E-01	5.69E+01	5.39E+01	4.90E+01
1135	484154.84	3854250.98	6.36098	2.2504	5.16051	6.63368	5.665	4.135	4.3028	2.2504	4.43E+01	4.16E+00	5.37E-04	2.33E-01	1.78E+00	3.89E-01	3.05E+01	1.53E+01	6.61E+01
1136	484204.84	3854250.98	6.32183	2.24152	5.38696	6.60886	5.795	4.049	4.1781	2.24152	4.41E+01	4.14E+00	5.61E-04	2.33E-01	1.82E+00	3.81E-01	2.96E+01	1.52E+01	6.50E+01

1137	484154.84	3854300.98	6.73231	2.13643	4.85152	6.82795	5.442	4.123	4.3017	2.13643	4.69E+01	3.95E+00	5.05E-04	2.40E-01	1.71E+00	3.88E-01	3.05E+01	1.45E+01	6.92E+01
1138	484204.84	3854300.98	6.64661	2.15707	5.65539	6.95046	5.685	4.137	4.3207	2.15707	4.63E+01	3.98E+00	5.89E-04	2.45E-01	1.78E+00	3.89E-01	3.06E+01	1.47E+01	6.87E+01
1139	484074.19	3854519.8	8.32079	1.69133	7.46757	12.65804	5.476	5.826	5.6593	1.69133	5.80E+01	3.12E+00	7.77E-04	4.46E-01	1.72E+00	5.48E-01	4.01E+01	1.15E+01	9.24E+01
1140	484124.19	3854519.8	8.37669	1.76585	6.93904	10.73843	5.368	5.61	5.2414	1.76585	5.84E+01	3.26E+00	7.22E-04	3.78E-01	1.68E+00	5.27E-01	3.71E+01	1.20E+01	8.94E+01
1141	484074.19	3854569.8	8.64436	1.61783	7.58918	18.1924	5.693	7.273	6.485	1.61783	6.03E+01	2.99E+00	7.90E-04	6.40E-01	1.78E+00	6.84E-01	4.59E+01	1.10E+01	1.01E+02
1142	484124.19	3854569.8	8.78366	1.61856	7.57902	13.86943	5.502	5.761	5.7282	1.61856	6.12E+01	2.99E+00	7.89E-04	4.88E-01	1.72E+00	5.41E-01	4.06E+01	1.10E+01	9.66E+01
1143	485205.11	3855188.89	7.8037	1.68528	6.34295	16.69869	9.248	7.481	6.904	1.68528	5.44E+01	3.11E+00	6.60E-04	5.88E-01	2.90E+00	7.03E-01	4.89E+01	1.15E+01	9.92E+01
1144	485255.11	3855188.89	7.70075	1.67169	5.8213	13.66096	9.091	6.471	6.0909	1.67169	5.37E+01	3.09E+00	6.06E-04	4.81E-01	2.85E+00	6.08E-01	4.32E+01	1.14E+01	9.25E+01
1145	485205.11	3855238.89	8.1321	1.65333	7.27075	20.74254	9.498	8.836	8.0146	1.65333	5.67E+01	3.05E+00	7.57E-04	7.30E-01	2.98E+00	8.31E-01	5.68E+01	1.12E+01	1.10E+02
1146	485255.11	3855238.89	7.92155	1.6556	7.01186	17.03857	9.531	7.578	6.9288	1.6556	5.52E+01	3.06E+00	7.30E-04	6.00E-01	2.99E+00	7.12E-01	4.91E+01	1.13E+01	1.00E+02
1147	485205.11	3855288.89	8.23467	1.68014	8.3142	30.20454	10	11.23	9.9181	1.68014	5.74E+01	3.10E+00	8.66E-04	1.06E+00	3.13E+00	1.06E+00	7.03E+01	1.14E+01	1.25E+02
1148	485255.11	3855288.89	8.05642	1.6506	7.77775	22.41368	10.03	9.273	8.3307	1.6506	5.62E+01	3.05E+00	8.10E-04	7.89E-01	3.14E+00	8.72E-01	5.90E+01	1.12E+01	1.12E+02
1149	485255.11	3855338.89	8.23852	1.66489	9.17134	32.27088	10.47	11.67	10.148	1.66489	5.74E+01	3.07E+00	9.55E-04	1.14E+00	3.28E+00	1.10E+00	7.19E+01	1.13E+01	1.27E+02
1150	485305.11	3855338.89	8.0492	1.63815	9.1891	23.59364	10.51	9.542	8.5713	1.63815	5.61E+01	3.03E+00	9.57E-04	8.30E-01	3.29E+00	8.97E-01	6.07E+01	1.11E+01	1.14E+02
1151	485852.5	3855635.28	7.15704	1.49792	10.02572	12.69549	12.7	6.148	5.5106	1.49792	4.99E+01	2.77E+00	1.04E-03	4.47E-01	3.98E+00	5.78E-01	3.90E+01	1.02E+01	8.65E+01
1152	485902.5	3855635.28	7.02775	1.49486	8.89035	11.38653	12.36	5.578	5.1605	1.49486	4.90E+01	2.76E+00	9.26E-04	4.01E-01	3.87E+00	5.24E-01	3.66E+01	1.02E+01	8.30E+01
1153	485852.5	3855685.28	7.3691	1.49192	9.89637	14.35301	13.91	6.801	6.0729	1.49192	5.14E+01	2.76E+00	1.03E-03	5.05E-01	4.36E+00	6.39E-01	4.30E+01	1.01E+01	9.25E+01
1154	485902.5	3855685.28	7.22078	1.47383	9.10591	12.76086	13.29	6.18	5.5209	1.47383	5.03E+01	2.72E+00	9.48E-04	4.49E-01	4.16E+00	5.81E-01	3.91E+01	1.00E+01	8.74E+01
1155	485852.5	3855735.28	7.60463	1.49398	10.41208	16.71352	15.04	7.52	6.7033	1.49398	5.30E+01	2.76E+00	1.08E-03	5.88E-01	4.71E+00	7.07E-01	4.75E+01	1.02E+01	9.91E+01
1156	485902.5	3855735.28	7.40749	1.47364	9.90272	14.6027	14.63	6.804	6.1109	1.47364	5.16E+01	2.72E+00	1.03E-03	5.14E-01	4.58E+00	6.40E-01	4.33E+01	1.00E+01	9.34E+01
1157	485852.5	3855785.28	7.84144	1.49651	11.6088	20.54705	15.94	8.58	7.2909	1.49651	5.47E+01	2.76E+00	1.21E-03	7.23E-01	5.00E+00	8.06E-01	5.17E+01	1.02E+01	1.05E+02
1158	485902.5	3855785.28	7.65344	1.47642	10.85972	17.11111	15.79	7.565	6.6885	1.47642	5.34E+01	2.73E+00	1.13E-03	6.02E-01	4.95E+00	7.11E-01	4.74E+01	1.00E+01	9.97E+01
1159	486809.46	3856465.28	7.23536	1.26341	7.39508	11.91244	38.91	5.729	4.5774	1.26341	5.04E+01	2.33E+00	7.70E-04	4.19E-01	1.22E+01	5.39E-01	3.24E+01	8.59E+00	8.98E+01
1160	486859.46	3856465.28	7.04871	1.2598	7.08675	10.65519	42.93	5.333	4.3311	1.2598	4.91E+01	2.33E+00	7.38E-04	3.75E-01	1.35E+01	5.01E-01	3.07E+01	8.57E+00	8.79E+01
1161	486909.46	3856465.28	6.88517	1.25592	6.94492	9.68059	44.9	4.994	4.1331	1.25592	4.80E+01	2.32E+00	7.23E-04	3.41E-01	1.41E+01	4.69E-01	2.93E+01	8.54E+00	8.59E+01
1162	486809.46	3856515.28	7.42756	1.27315	7.90538	13.79275	39.85	6.199	4.8793	1.27315	5.18E+01	2.35E+00	8.23E-04	4.85E-01	1.25E+01	5.83E-01	3.46E+01	8.66E+00	9.36E+01
1163	486859.46	3856515.28	7.21286	1.2645	7.64407	12.11724	42.49	5.743	4.6148	1.2645	5.03E+01	2.34E+00	7.96E-04	4.26E-01	1.33E+01	5.40E-01	3.27E+01	8.60E+00	9.10E+01
1164	486909.46	3856515.28	7.0243	1.25772	7.31023	10.81322	46.5	5.366	4.3694	1.25772	4.90E+01	2.32E+00	7.61E-04	3.81E-01	1.46E+01	5.04E-01	3.10E+01	8.55E+00	8.92E+01
1165	486980.94	3856357.95	6.40421	1.2659	5.35971	7.46034	45.18	4.158	3.5826	1.2659	4.46E+01	2.34E+00	5.58E-04	2.63E-01	1.42E+01	3.91E-01	2.54E+01	8.61E+00	7.86E+01
1166	487030.94	3856357.95	6.28353	1.27338	5.35831	7.02008	45.63	3.999	3.4701	1.27338	4.38E+01	2.35E+00	5.58E-04	2.47E-01	1.43E+01	3.76E-01	2.46E+01	8.66E+00	7.70E+01
1167	486980.94	3856407.95	6.51383	1.26473	5.59774	7.99432	47.48	4.405	3.7111	1.26473	4.54E+01	2.34E+00	5.83E-04	2.81E-01	1.49E+01	4.14E-01	2.63E+01	8.60E+00	8.10E+01
1168	487030.94	3856407.95	6.38663	1.27144	5.33199	7.50512	48.66	4.23	3.5701	1.27144	4.45E+01	2.35E+00	5.55E-04	2.64E-01	1.52E+01	3.98E-01	2.53E+01	8.65E+00	7.94E+01
1169	487447.18	3856437.45	5.53838	1.43834	4.46749	4.84578	44.52	3.04	2.7235	1.43834	3.86E+01	2.66E+00	4.65E-04	1.71E-01	1.40E+01	2.86E-01	1.93E+01	9.78E+00	6.52E+01
1170	487497.18	3856437.45	5.44666	1.46715	4.4388	4.59209	44.24	2.944	2.6401	1.46715	3.80E+01	2.71E+00	4.62E-04	1.62E-01	1.39E+01	2.77E-01	1.87E+01	9.98E+00	6.37E+01
1171	487547.18	3856437.45	5.35538	1.49474	4.42975	4.36367	44.76	2.879	2.5584	1.49474	3.73E+01	2.76E+00	4.61E-04	1.54E-01	1.40E+01	2.71E-01	1.81E+01	1.02E+01	6.25E+01
1172	487447.18	3856487.45	5.5887	1.39705	4.98797	5.20464	48.93	3.222	2.8151	1.39705	3.90E+01	2.58E+00	5.19E-04	1.83E-01	1.53E+01	3.03E-01	1.99E+01	9.50E+00	6.78E+01
1173	487497.18	3856487.45	5.49458	1.42491	4.76109	4.93611	48.54	3.125	2.7229	1.42491	3.83E+01	2.63E+00	4.96E-04	1.74E-01	1.52E+01	2.94E-01	1.93E+01	9.69E+00	6.62E+01
1174	487547.18	3856487.45	5.39867	1.45316	4.57233	4.6948	49.01	3.029	2.6352	1.45316	3.76E+01	2.68E+00	4.76E-04	1.65E-01	1.54E+01	2.85E-01	1.87E+01	9.88E+00	6.49E+01
1175	487447.18	3856537.45	5.63958	1.36345	5.66742	5.53736	52.72	3.399	2.9088	1.36345	3.93E+01	2.52E+00	5.90E-04	1.95E-01	1.65E+01	3.19E-01	2.06E+01	9.27E+00	7.02E+01
1176	487497.18	3856537.45	5.54276	1.38453	5.49087	5.27118	51.71	3.297	2.8168	1.38453	3.86E+01	2.56E+00	5.72E-04	1.86E-01	1.62E+01	3.10E-01	2.00E+01	9.41E+00	6.84E+01
1177	487547.18	3856537.45	5.43999	1.41308	5.35327	5.02937	52.03	3.209	2.7249	1.41308	3.79E+01	2.61E+00	5.57E-04	1.77E-01	1.63E+01	3.02E-01	1.93E+01	9.61E+00	6.70E+01
1178	489285.89	3858826.54	7.35102	5.05462	8.04261	25.61474	20.37	11.6	4.755	5.05462	5.12E+01	9.34E+00	8.37E-04	9.02E-01	6.38E+00	1.09E+00	3.37E+01	3.44E+01	6.83E+01
1179	489335.89	3858826.54	7.15527	4.7751	7.75669	21.20283	19.13	10.73	4.4137	4.7751	4.99E+01	8.82E+00	8.08E-04	7.46E-01	5.99E+00	1.01E+00	3.13E+01	3.25E+01	6.53E+01
1180	489385.89	3858826.54	6.96853	4.55566	7.66611	18.28646	18.34	10.01	4.0726	4.55566	4.86E+01	8.41E+00	7.98E-04	6.44E-01	5.75E+00	9.41E-01	2.89E+01	3.10E+01	6.22E+01
1181	489435.89	3858826.54	6.78756	4.39981	7.28134	16.21102	17.49	9.417	3.7498	4.39981	4.73E+01	8.13E+00	7.58E-04	5.71E-01	5.48E+00	8.85E-01	2.66E+01	2.99E+01	5.90E+01
1182	489485.89	3858826.54	6.61312	4.25689	7.68245	14.64768	16.68	8.907	3.5327	4.25689	4.61E+01	7.86E+00	8.00E-04	5.16E-01	5.22E+00	8.37E-01	2.50E+01	2.89E+01	5.66E+01
1183	489535.89	3858826.54	6.44587	4.12066	10.16215	13.41252	16.42	8.456	3.4127	4.12066	4.49E+01	7.61E+00	1.06E-03	4.72E-01	5.15E+00	7.95E-01	2.42E+01	2.80E+01	5.51E+01
1184	489585.89	3858826.54	6.28443	3.98685	11.63534	12.40937	17	8.058	3.3227	3.98685	4.38E+01	7.36E+00	1.21E-03	4.37E-01	5.33E+00	7.57E-01	2.35E+01	2.71E+01	5.41E+01
1185	489635.89	3858826.54	6.13007	3.83759	11.98003	11.57051	17.46	7.692	3.215	3.83759	4.27E+01	7.09E+00	1.25E-03	4.07E-01	5.47E+00	7.23E-01	2.28E+01	2.61E+01	5.31E+01
1186	489685.89	3858826.54	5.98149	3.69818	9.8753	10.86318	18.43	7.357	3.1436	3.69818	4.17E+01	6.83E+00	1.03E-03	3.82E-01	5.78E+00	6.92E-01	2.23E+01	2.51E+01	5.25E+01
1187	489735.89	3858826.54	5.83825	3.56389	10.3898	10.25162	19.27	7.047	3.0547	3.56389	4.07E+01	6.58E+00	1.08E-03	3.61E-01	6.04E+00	6.62E-01	2.16E+01	2.42E+01	5.18E+01
1188	489785.89	3858826.54	5.69737	3.45146	7.84579	9.73413	20.01	6.762	2.9414	3.45146	3.97E+01	6.37E+00	8.17E-04	3.43E-01	6.27E+00	6.36E-01	2.08E+01	2.35E+01	5.07E+01
1189	489835.89	3858826.54	5.56439	3.32959	6.82082	9.25109	21.07	6.55	2.8071	3.32959	3.88E+01	6.15E+00	7.10E-04	3.26E-01	6.60E+00	6.16E-01	1.99E+01	2.26E+01	4.97E+01
1190	489885.89	3858826.54	5.43207	3.22796	7.91629	8.85622	21.89	6.412	2.7343	3.22796	3.79E+01	5.96E+00	8.24E-04	3.12E-01	6.86E+00	6.03E-01	1.94E+01	2.19E+01	4.90E+01
1191	489935.89	3858826.54	5.30497	3.12602	7.82674	8.50697	22.51	6.239	2.691	3.12602	3.70E+01	5.77E+00	8.15E-04	2.99E-01	7.05E+00	5.86E-01	1.91E+01	2.13E+01	4.85E+01
1192	489985.89	3858826.54	5.18335	3.0227	6.52402	8.24445	22.95	6.078	2.6641	3.0227	3.61E+01	5.58E+00	6.79E-04	2.90E-01	7.19E+00	5.71E-01	1.89E+01	2.06E+01	4.81E+01
1193	490035.89	3858826.54	5.07028	2.92292	7.89172	8.17269	23.54	5.882	2.6284	2.92292	3.53E+01	5.40E+00	8.22E-04	2.88E-01	7.38E+00	5.53E-01	1.86E+01	1.99E+01	4.77E+01

1194	489285.89	3858876.54	7.4565	5.55708	8.65286	28.47062	21.41	12.85	5.334	5.55708	5.20E+01	1.03E+01	9.01E-04	1.00E+00	6.71E+00	1.21E+00	3.78E+01	3.78E+01	7.12E+01
1195	489335.89	3858876.54	7.27517	5.26522	8.30436	23.34988	19.55	11.72	4.9834	5.26522	5.07E+01	9.72E+00	8.65E-04	8.22E-01	6.13E+00	1.10E+00	3.53E+01	3.58E+01	6.80E+01
1196	489385.89	3858876.54	7.09489	4.97425	7.88224	19.91331	18.4	10.84	4.6337	4.97425	4.95E+01	9.19E+00	8.21E-04	7.01E-01	5.77E+00	1.02E+00	3.28E+01	3.38E+01	6.51E+01
1197	489435.89	3858876.54	6.9184	4.67403	7.62295	17.43763	17.67	10.13	4.2929	4.67403	4.82E+01	8.63E+00	7.94E-04	6.14E-01	5.54E+00	9.52E-01	3.04E+01	3.18E+01	6.26E+01
1198	489485.89	3858876.54	6.74661	4.49883	7.31252	15.5834	16.88	9.53	3.9468	4.49883	4.70E+01	8.31E+00	7.61E-04	5.48E-01	5.29E+00	8.96E-01	2.80E+01	3.06E+01	5.95E+01
1199	489535.89	3858876.54	6.58053	4.34885	9.35205	14.15245	16.1	9.015	3.6205	4.34885	4.59E+01	8.03E+00	9.74E-04	4.98E-01	5.05E+00	8.47E-01	2.57E+01	2.96E+01	5.64E+01
1200	489585.89	3858876.54	6.42185	4.2147	11.71656	13.02139	15.82	8.556	3.4595	4.2147	4.48E+01	7.78E+00	1.22E-03	4.58E-01	4.96E+00	8.04E-01	2.45E+01	2.87E+01	5.46E+01
1201	489635.89	3858876.54	6.26558	4.07783	12.54633	12.10158	16.24	8.168	3.4019	4.07783	4.37E+01	7.53E+00	1.31E-03	4.26E-01	5.09E+00	7.68E-01	2.41E+01	2.77E+01	5.39E+01
1202	489685.89	3858876.54	6.11605	3.93938	9.90323	11.31611	16.71	7.81	3.3033	3.93938	4.26E+01	7.28E+00	1.03E-03	3.98E-01	5.23E+00	7.34E-01	2.34E+01	2.68E+01	5.29E+01
1203	489735.89	3858876.54	5.97291	3.80076	10.50566	10.64108	17.45	7.476	3.215	3.80076	4.16E+01	7.02E+00	1.09E-03	3.75E-01	5.47E+00	7.03E-01	2.28E+01	2.58E+01	5.21E+01
1204	489785.89	3858876.54	5.83133	3.67762	7.75635	10.07315	18.29	7.182	3.1323	3.67762	4.07E+01	6.79E+00	8.07E-04	3.55E-01	5.73E+00	6.75E-01	2.22E+01	2.50E+01	5.14E+01
1205	489835.89	3858876.54	5.69679	3.5506	7.59093	9.55856	18.95	6.882	3.0091	3.5506	3.97E+01	6.56E+00	7.90E-04	3.36E-01	5.94E+00	6.47E-01	2.13E+01	2.41E+01	5.04E+01
1206	489885.89	3858876.54	5.5613	3.45165	8.59692	9.13452	19.8	6.66	2.8833	3.45165	3.88E+01	6.37E+00	8.95E-04	3.21E-01	6.20E+00	6.26E-01	2.04E+01	2.35E+01	4.93E+01
1207	489935.89	3858876.54	5.43633	3.32953	7.69349	8.71548	20.71	6.446	2.7948	3.32953	3.79E+01	6.15E+00	8.01E-04	3.07E-01	6.49E+00	6.06E-01	1.98E+01	2.26E+01	4.86E+01
1208	489985.89	3858876.54	5.31668	3.20605	7.07743	8.33771	21.45	6.321	2.737	3.20605	3.71E+01	5.92E+00	7.37E-04	2.93E-01	6.72E+00	5.94E-01	1.94E+01	2.18E+01	4.82E+01
1209	490035.89	3858876.54	5.20029	3.09234	8.94371	8.28238	21.99	6.143	2.7005	3.09234	3.63E+01	5.71E+00	9.31E-04	2.92E-01	6.89E+00	5.77E-01	1.91E+01	2.10E+01	4.78E+01
1210	489285.89	3858926.54	7.58372	6.13288	11.00639	33.79599	22.93	14.64	5.9197	6.13288	5.29E+01	1.13E+01	1.15E-03	1.19E+00	7.18E+00	1.38E+00	4.19E+01	4.17E+01	7.42E+01
1211	489335.89	3858926.54	7.40783	5.80804	8.54297	25.88166	20.52	13.08	5.5446	5.80804	5.16E+01	1.07E+01	8.89E-04	9.11E-01	6.43E+00	1.23E+00	3.93E+01	3.95E+01	7.07E+01
1212	489385.89	3858926.54	7.23651	5.50152	8.51191	21.54693	18.76	11.91	5.1942	5.50152	5.05E+01	1.02E+01	8.86E-04	7.58E-01	5.88E+00	1.12E+00	3.68E+01	3.74E+01	6.78E+01
1213	489435.89	3858926.54	7.06556	5.19931	8.08184	18.63965	17.71	11.01	4.8446	5.19931	4.93E+01	9.60E+00	8.41E-04	6.56E-01	5.55E+00	1.03E+00	3.43E+01	3.54E+01	6.51E+01
1214	489485.89	3858926.54	6.89814	4.88161	7.73185	16.53657	17.04	10.27	4.5028	4.88161	4.81E+01	9.02E+00	8.05E-04	5.82E-01	5.34E+00	9.66E-01	3.19E+01	3.32E+01	6.27E+01
1215	489535.89	3858926.54	6.73431	4.62059	8.25568	14.92601	16.32	9.693	4.1465	4.62059	4.69E+01	8.53E+00	8.59E-04	5.25E-01	5.11E+00	9.11E-01	2.94E+01	3.14E+01	6.00E+01
1216	489585.89	3858926.54	6.57496	4.45654	11.40885	13.64083	15.58	9.19	3.7839	4.45654	4.58E+01	8.23E+00	1.19E-03	4.80E-01	4.88E+00	8.64E-01	2.68E+01	3.03E+01	5.68E+01
1217	489635.89	3858926.54	6.41954	4.29761	13.01257	12.5996	15.24	8.747	3.5434	4.29761	4.48E+01	7.94E+00	1.35E-03	4.43E-01	4.77E+00	8.22E-01	2.51E+01	2.92E+01	5.46E+01
1218	489685.89	3858926.54	6.27058	4.15983	10.88624	11.72104	15.53	8.336	3.4356	4.15983	4.37E+01	7.68E+00	1.13E-03	4.13E-01	4.87E+00	7.84E-01	2.43E+01	2.83E+01	5.35E+01
1219	489735.89	3858926.54	6.12244	4.02675	10.67446	10.99392	15.99	7.984	3.3336	4.02675	4.27E+01	7.44E+00	1.11E-03	3.87E-01	5.01E+00	7.50E-01	2.36E+01	2.74E+01	5.25E+01
1220	489785.89	3858926.54	5.97812	3.90531	7.96761	10.37354	16.47	7.664	3.2925	3.90531	4.17E+01	7.21E+00	8.29E-04	3.65E-01	5.16E+00	7.20E-01	2.33E+01	2.66E+01	5.19E+01
1221	489835.89	3858926.54	5.84217	3.78578	8.70329	9.81587	17.35	7.351	3.2166	3.78578	4.07E+01	6.99E+00	9.06E-04	3.45E-01	5.44E+00	6.91E-01	2.28E+01	2.57E+01	5.12E+01
1222	489885.89	3858926.54	5.70694	3.67049	9.33172	9.34735	18.02	7.075	3.0974	3.67049	3.98E+01	6.78E+00	9.71E-04	3.29E-01	5.65E+00	6.65E-01	2.19E+01	2.50E+01	5.02E+01
1223	489935.89	3858926.54	5.5782	3.5483	7.67685	8.91421	18.65	6.802	2.9524	3.5483	3.89E+01	6.55E+00	7.99E-04	3.14E-01	5.84E+00	6.39E-01	2.09E+01	2.41E+01	4.90E+01
1224	489985.89	3858926.54	5.4572	3.41174	8.11982	8.4986	19.6	6.564	2.8504	3.41174	3.80E+01	6.30E+00	8.45E-04	2.99E-01	6.14E+00	6.17E-01	2.02E+01	2.32E+01	4.84E+01
1225	490035.89	3858926.54	5.34577	3.25356	9.98074	8.31615	20.45	6.398	2.7646	3.25356	3.73E+01	6.01E+00	1.04E-03	2.93E-01	6.41E+00	6.01E-01	1.96E+01	2.21E+01	4.80E+01
1226	489335.89	3858976.54	7.55527	6.47555	11.06401	37.66222	21.78	16.84	6.1937	6.47555	5.27E+01	1.20E+01	1.15E-03	1.33E+00	6.83E+00	1.58E+00	4.39E+01	4.40E+01	7.42E+01
1227	489385.89	3858976.54	7.40103	6.1102	8.6587	26.17052	19.74	14.28	5.7977	6.1102	5.16E+01	1.13E+01	9.01E-04	9.21E-01	6.18E+00	1.34E+00	4.11E+01	4.15E+01	7.09E+01
1228	489435.89	3858976.54	7.23779	5.77547	8.56597	21.17777	17.99	12.66	5.4343	5.77547	5.05E+01	1.07E+01	8.92E-04	7.45E-01	5.64E+00	1.19E+00	3.85E+01	3.93E+01	6.79E+01
1229	489485.89	3858976.54	7.07604	5.44359	8.06005	18.17857	17.05	11.54	5.0712	5.44359	4.93E+01	1.01E+01	8.39E-04	6.40E-01	5.34E+00	1.08E+00	3.59E+01	3.70E+01	6.54E+01
1230	489535.89	3858976.54	6.91624	5.13103	7.8452	16.06009	16.45	10.7	4.7049	5.13103	4.82E+01	9.48E+00	8.17E-04	5.65E-01	5.15E+00	1.01E+00	3.33E+01	3.49E+01	6.29E+01
1231	489585.89	3858976.54	6.75545	4.78785	10.64644	14.54281	15.77	10.04	4.3496	4.78785	4.71E+01	8.84E+00	1.11E-03	5.12E-01	4.94E+00	9.44E-01	3.08E+01	3.26E+01	6.06E+01
1232	489635.89	3858976.54	6.59943	4.57981	13.24046	13.32228	15.07	9.487	3.9715	4.57981	4.60E+01	8.46E+00	1.38E-03	4.69E-01	4.72E+00	8.92E-01	2.81E+01	3.11E+01	5.75E+01
1233	489685.89	3858976.54	6.44793	4.41729	11.93193	12.32111	14.69	9.002	3.6247	4.41729	4.50E+01	8.16E+00	1.24E-03	4.34E-01	4.60E+00	8.46E-01	2.57E+01	3.00E+01	5.46E+01
1234	489735.89	3858976.54	6.2976	4.25437	10.72386	11.49914	14.84	8.583	3.4636	4.25437	4.39E+01	7.86E+00	1.12E-03	4.05E-01	4.65E+00	8.07E-01	2.45E+01	2.89E+01	5.32E+01
1235	489785.89	3858976.54	6.14864	4.10732	8.14744	10.81068	15.28	8.219	3.3458	4.10732	4.29E+01	7.59E+00	8.48E-04	3.80E-01	4.79E+00	7.73E-01	2.37E+01	2.79E+01	5.22E+01
1236	489835.89	3858976.54	6.00529	3.97042	10.19169	10.21048	15.58	7.883	3.3196	3.97042	4.19E+01	7.33E+00	1.06E-03	3.59E-01	4.88E+00	7.41E-01	2.35E+01	2.70E+01	5.17E+01
1237	489885.89	3858976.54	5.87306	3.86164	10.04225	9.65081	16.46	7.548	3.2862	3.86164	4.09E+01	7.13E+00	1.05E-03	3.40E-01	5.16E+00	7.10E-01	2.33E+01	2.63E+01	5.13E+01
1238	489935.89	3858976.54	5.74256	3.74687	8.0623	9.16596	17.19	7.241	3.1614	3.74687	4.00E+01	6.92E+00	8.39E-04	3.23E-01	5.39E+00	6.81E-01	2.24E+01	2.55E+01	5.03E+01
1239	489985.89	3858976.54	5.61514	3.62282	9.49948	8.73774	17.75	6.938	3.011	3.62282	3.91E+01	6.69E+00	9.89E-04	3.08E-01	5.56E+00	6.52E-01	2.13E+01	2.46E+01	4.91E+01
1240	490035.89	3858976.54	5.52046	3.37055	10.40939	8.36182	18.76	6.622	2.8094	3.37055	3.85E+01	6.23E+00	1.08E-03	2.94E-01	5.88E+00	6.22E-01	1.99E+01	2.29E+01	4.85E+01
1241	489385.89	3859026.54	7.71922	6.85519	11.549	49.35667	20.73	19.48	6.4675	6.85519	5.38E+01	1.27E+01	1.20E-03	1.74E+00	6.50E+00	1.83E+00	4.58E+01	4.66E+01	7.58E+01
1242	489435.89	3859026.54	7.56519	6.46126	8.977	29.00131	18.96	15.75	6.058	6.46126	5.27E+01	1.19E+01	9.35E-04	1.02E+00	5.94E+00	1.48E+00	4.29E+01	4.39E+01	7.21E+01
1243	489485.89	3859026.54	7.35411	6.09443	8.46867	22.3997	17.31	13.84	5.6859	6.09443	5.13E+01	1.13E+01	8.82E-04	7.88E-01	5.42E+00	1.30E+00	4.03E+01	4.14E+01	6.89E+01
1244	489535.89	3859026.54	7.15794	5.73166	7.90182	18.73004	16.43	12.46	5.3242	5.73166	4.99E+01	1.06E+01	8.23E-04	6.59E-01	5.15E+00	1.17E+00	3.77E+01	3.90E+01	6.62E+01
1245	489585.89	3859026.54	6.97877	5.39846	9.36974	16.32485	15.89	11.4	4.9556	5.39846	4.87E+01	9.97E+00	9.75E-04	5.75E-01	4.98E+00	1.07E+00	3.51E+01	3.67E+01	6.37E+01
1246	489635.89	3859026.54	6.80757	5.03569	13.53942	14.59611	15.27	10.59	4.5748	5.03569	4.75E+01	9.30E+00	1.41E-03	5.14E-01	4.78E+00	9.95E-01	3.24E+01	3.42E+01	6.12E+01
1247	489685.89	3859026.54	6.64454	4.74302	13.55699	13.31851	14.59	9.925	4.1804	4.74302	4.63E+01	8.76E+00	1.41E-03	4.69E-01	4.57E+00	9.33E-01	2.96E+01	3.23E+01	5.84E+01
1248	489735.89	3859026.54	6.4856	4.54311	10.97969	12.29651	14.21	9.385	3.8154	4.54311	4.52E+01	8.39E+00	1.14E-03	4.33E-01	4.45E+00	8.82E-01	2.70E+01	3.09E+01	5.55E+01
1249	489785.89	3859026.54	6.33249	4.35752	9.18049	11.44906	14.3	8.921	3.5873	4.35752	4.41E+01	8.05E+00	9.56E-04	4.03E-01	4.48E+00	8.39E-01	2.54E+01	2.96E+01	5.37E+01
1250	489835.89	3859026.54	6.19039	4.21344	11.81494	10.7157	14.65	8.49	3.4059	4.21344	4.32E+01	7.78E+00	1.23E-03	3.77E-01	4.59E+00	7.98E-01	2.41E+01	2.87E+01	5.22E+01

1251	489885.89	3859026.54	6.05028	4.06815	10.20772	10.08557	14.99	8.117	3.3589	4.06815	4.22E+01	7.51E+00	1.06E-03	3.55E-01	4.70E+00	7.63E-01	2.38E+01	2.77E+01	5.16E+01
1252	489935.89	3859026.54	5.91699	3.94601	8.89076	9.52354	15.64	7.764	3.3396	3.94601	4.13E+01	7.29E+00	9.26E-04	3.35E-01	4.90E+00	7.30E-01	2.37E+01	2.68E+01	5.13E+01
1253	489985.89	3859026.54	5.78822	3.8198	11.13048	9.06659	16.4	7.426	3.2258	3.8198	4.04E+01	7.05E+00	1.16E-03	3.19E-01	5.14E+00	6.98E-01	2.29E+01	2.60E+01	5.04E+01
1254	490035.89	3859026.54	5.69735	3.52487	10.85953	8.46421	17.23	7.003	2.9359	3.52487	3.97E+01	6.51E+00	1.13E-03	2.98E-01	5.40E+00	6.58E-01	2.08E+01	2.40E+01	4.94E+01
1255	489485.89	3859076.54	7.61888	6.83675	9.69604	36.02425	18.25	17.24	6.3503	6.83675	5.31E+01	1.26E+01	1.01E-03	1.27E+00	5.72E+00	1.62E+00	4.50E+01	4.65E+01	7.29E+01
1256	489535.89	3859076.54	7.35302	6.44915	8.35735	24.9455	16.65	14.78	5.9678	6.44915	5.13E+01	1.19E+01	8.70E-04	8.78E-01	5.22E+00	1.39E+00	4.23E+01	4.39E+01	6.91E+01
1257	489585.89	3859076.54	7.14361	6.07247	8.83722	20.10329	15.86	13.28	5.6038	6.07247	4.98E+01	1.12E+01	9.20E-04	7.08E-01	4.97E+00	1.25E+00	3.97E+01	4.13E+01	6.64E+01
1258	489635.89	3859076.54	6.96349	5.68673	12.96116	17.12893	15.33	12.13	5.2367	5.68673	4.85E+01	1.05E+01	1.35E-03	6.03E-01	4.80E+00	1.14E+00	3.71E+01	3.87E+01	6.40E+01
1259	489685.89	3859076.54	6.80016	5.30838	15.75764	15.11844	14.76	11.21	4.8534	5.30838	4.74E+01	9.80E+00	1.64E-03	5.32E-01	4.62E+00	1.05E+00	3.44E+01	3.61E+01	6.17E+01
1260	489735.89	3859076.54	6.64578	4.92033	11.50534	13.6167	14.1	10.46	4.4563	4.92033	4.63E+01	9.09E+00	1.20E-03	4.79E-01	4.42E+00	9.83E-01	3.16E+01	3.35E+01	5.94E+01
1261	489785.89	3859076.54	6.49684	4.68581	11.11429	12.48151	13.76	9.832	4.0646	4.68581	4.53E+01	8.65E+00	1.16E-03	4.39E-01	4.31E+00	9.24E-01	2.88E+01	3.19E+01	5.66E+01
1262	489835.89	3859076.54	6.35524	4.50316	13.38824	11.56172	13.83	9.295	3.7036	4.50316	4.43E+01	8.32E+00	1.39E-03	4.07E-01	4.33E+00	8.74E-01	2.62E+01	3.06E+01	5.39E+01
1263	489885.89	3859076.54	6.21813	4.32467	10.14251	10.78945	14.05	8.821	3.5189	4.32467	4.34E+01	7.99E+00	1.06E-03	3.80E-01	4.40E+00	8.29E-01	2.49E+01	2.94E+01	5.25E+01
1264	489935.89	3859076.54	6.08266	4.17344	11.09418	10.11968	14.4	8.412	3.4448	4.17344	4.24E+01	7.71E+00	1.15E-03	3.56E-01	4.51E+00	7.91E-01	2.44E+01	2.84E+01	5.18E+01
1265	489985.89	3859076.54	5.95593	4.03873	12.24966	9.52862	14.86	8.019	3.3861	4.03873	4.15E+01	7.46E+00	1.28E-03	3.35E-01	4.66E+00	7.54E-01	2.40E+01	2.75E+01	5.13E+01
1266	490035.89	3859076.54	5.8588	3.76284	15.8228	8.96741	15.8	7.571	3.1748	3.76284	4.08E+01	6.95E+00	1.65E-03	3.16E-01	4.95E+00	7.12E-01	2.25E+01	2.56E+01	5.07E+01
1267	489585.89	3859126.54	7.47213	6.82961	8.86703	29.14589	16.07	15.72	6.3424	6.82961	5.21E+01	1.26E+01	9.23E-04	1.03E+00	5.03E+00	1.48E+00	4.49E+01	4.64E+01	7.07E+01
1268	489635.89	3859126.54	7.23086	6.43447	12.71095	22.20824	15.27	13.94	5.9631	6.43447	5.04E+01	1.19E+01	1.32E-03	7.82E-01	4.79E+00	1.31E+00	4.23E+01	4.38E+01	6.77E+01
1269	489685.89	3859126.54	7.02336	6.03247	18.03581	18.39816	14.8	12.71	5.583	6.03247	4.90E+01	1.11E+01	1.88E-03	6.48E-01	4.64E+00	1.19E+00	3.96E+01	4.10E+01	6.51E+01
1270	489735.89	3859126.54	6.84282	5.61527	12.3267	15.90388	14.28	11.72	5.1863	5.61527	4.77E+01	1.04E+01	1.28E-03	5.60E-01	4.47E+00	1.10E+00	3.67E+01	3.82E+01	6.28E+01
1271	489785.89	3859126.54	6.67937	5.20001	13.84519	14.14378	13.64	10.92	4.7697	5.20001	4.66E+01	9.60E+00	1.44E-03	4.98E-01	4.27E+00	1.03E+00	3.38E+01	3.54E+01	6.04E+01
1272	489835.89	3859126.54	6.52957	4.83185	14.87956	12.81903	13.35	10.24	4.3419	4.83185	4.55E+01	8.92E+00	1.55E-03	4.51E-01	4.18E+00	9.63E-01	3.08E+01	3.29E+01	5.80E+01
1273	489885.89	3859126.54	6.38937	4.65588	11.21418	11.75727	13.4	9.656	3.8958	4.65588	4.45E+01	8.60E+00	1.17E-03	4.14E-01	4.20E+00	9.08E-01	2.76E+01	3.17E+01	5.46E+01
1274	489935.89	3859126.54	6.25113	4.46463	13.48617	10.93165	13.49	9.153	3.6505	4.46463	4.36E+01	8.25E+00	1.40E-03	3.85E-01	4.23E+00	8.60E-01	2.59E+01	3.04E+01	5.28E+01
1275	489985.89	3859126.54	6.1307	4.27851	14.96111	10.20682	13.92	8.645	3.5438	4.27851	4.27E+01	7.90E+00	1.56E-03	3.59E-01	4.36E+00	8.13E-01	2.51E+01	2.91E+01	5.22E+01
1276	490035.89	3859126.54	6.01604	4.05909	23.80212	9.60212	14.24	8.117	3.3987	4.05909	4.19E+01	7.50E+00	2.48E-03	3.38E-01	4.46E+00	7.63E-01	2.41E+01	2.76E+01	5.15E+01
1277	489585.89	3859176.54	8.00594	7.72284	12.5936	49.59261	16.92	29.09	7.2917	7.72284	5.58E+01	1.43E+01	1.31E-03	1.75E+00	5.30E+00	2.73E+00	5.17E+01	5.25E+01	7.90E+01
1278	489635.89	3859176.54	7.81336	7.24862	13.00996	37.38243	15.51	17.01	6.8038	7.24862	5.45E+01	1.34E+01	1.35E-03	1.32E+00	4.86E+00	1.60E+00	4.82E+01	4.93E+01	7.46E+01
1279	489685.89	3859176.54	7.44357	6.83098	20.22128	25.1366	14.73	14.45	6.3849	6.83098	5.19E+01	1.26E+01	2.11E-03	8.85E-01	4.61E+00	1.36E+00	4.52E+01	4.64E+01	7.02E+01
1280	489735.89	3859176.54	7.15145	6.41984	14.89145	20.01741	14.29	13.13	5.9861	6.41984	4.99E+01	1.19E+01	1.55E-03	7.05E-01	4.48E+00	1.23E+00	4.24E+01	4.37E+01	6.69E+01
1281	489785.89	3859176.54	6.92425	5.98118	18.12746	16.97183	13.83	12.1	5.5678	5.98118	4.83E+01	1.10E+01	1.89E-03	5.97E-01	4.33E+00	1.14E+00	3.94E+01	4.07E+01	6.42E+01
1282	489835.89	3859176.54	6.73396	5.52953	15.66938	14.86111	13.23	11.26	5.1283	5.52953	4.69E+01	1.02E+01	1.63E-03	5.23E-01	4.15E+00	1.06E+00	3.63E+01	3.76E+01	6.16E+01
1283	489885.89	3859176.54	6.57007	5.05053	14.01777	13.29935	12.97	10.55	4.6654	5.05053	4.58E+01	9.33E+00	1.46E-03	4.68E-01	4.06E+00	9.92E-01	3.31E+01	3.43E+01	5.94E+01
1284	489935.89	3859176.54	6.41825	4.79201	16.2668	12.12068	13.02	9.962	4.1961	4.79201	4.47E+01	8.85E+00	1.69E-03	4.27E-01	4.08E+00	9.36E-01	2.97E+01	3.26E+01	5.62E+01
1285	489985.89	3859176.54	6.29028	4.59934	25.35708	11.09177	13.09	9.379	3.8048	4.59934	4.39E+01	8.49E+00	2.64E-03	3.90E-01	4.10E+00	8.82E-01	2.70E+01	3.13E+01	5.34E+01
1286	490035.89	3859176.54	6.15578	4.40855	20.0603	10.31065	13.37	8.915	3.6486	4.40855	4.29E+01	8.14E+00	2.09E-03	3.63E-01	4.19E+00	8.38E-01	2.59E+01	3.00E+01	5.23E+01
1287	489685.89	3859226.54	7.73762	7.72668	23.85454	52.41234	14.98	20.29	7.3047	7.72668	5.39E+01	1.43E+01	2.48E-03	1.84E+00	4.69E+00	1.91E+00	5.18E+01	5.25E+01	7.59E+01
1288	489735.89	3859226.54	7.46828	7.27325	20.69032	29.68761	14.21	15.33	6.8416	7.27325	5.21E+01	1.34E+01	2.15E-03	1.04E+00	4.45E+00	1.44E+00	4.85E+01	4.95E+01	7.15E+01
1289	489785.89	3859226.54	7.1784	6.82913	24.36716	22.32564	13.83	13.5	6.4074	6.82913	5.00E+01	1.26E+01	2.54E-03	7.86E-01	4.33E+00	1.27E+00	4.54E+01	4.64E+01	6.80E+01
1290	489835.89	3859226.54	6.94492	6.36609	16.92314	18.32546	13.42	12.37	5.9705	6.36609	4.84E+01	1.18E+01	1.76E-03	6.45E-01	4.20E+00	1.16E+00	4.23E+01	4.33E+01	6.52E+01
1291	489885.89	3859226.54	6.74981	5.90111	17.89802	15.7501	12.87	11.48	5.5145	5.90111	4.71E+01	1.09E+01	1.86E-03	5.54E-01	4.03E+00	1.08E+00	3.91E+01	4.01E+01	6.26E+01
1292	489935.89	3859226.54	6.5828	5.38393	27.09486	13.93046	12.6	10.75	5.0145	5.38393	4.59E+01	9.94E+00	2.82E-03	4.90E-01	3.95E+00	1.01E+00	3.55E+01	3.66E+01	6.02E+01
1293	489985.89	3859226.54	6.44851	4.96156	23.41581	12.43467	12.76	10.03	4.4235	4.96156	4.50E+01	9.16E+00	2.44E-03	4.38E-01	4.00E+00	9.43E-01	3.13E+01	3.37E+01	5.71E+01
1294	490035.89	3859226.54	6.30402	4.73597	24.13559	11.39836	12.71	9.54	3.9885	4.73597	4.39E+01	8.75E+00	2.51E-03	4.01E-01	3.98E+00	8.97E-01	2.83E+01	3.22E+01	5.40E+01
1295	489735.89	3859276.54	7.94266	8.2805	32.78503	46.99958	14.47	28.66	7.8735	8.2805	5.54E+01	1.53E+01	3.41E-03	1.65E+00	4.53E+00	2.69E+00	5.58E+01	5.63E+01	7.90E+01
1296	489785.89	3859276.54	7.73751	7.74712	33.25722	38.7719	13.73	16.98	7.3344	7.74712	5.39E+01	1.43E+01	3.46E-03	1.36E+00	4.30E+00	1.60E+00	5.20E+01	5.27E+01	7.48E+01
1297	489835.89	3859276.54	7.38326	7.2507	20.65024	25.78305	13.41	14.15	6.8482	7.2507	5.15E+01	1.34E+01	2.15E-03	9.07E-01	4.20E+00	1.33E+00	4.85E+01	4.93E+01	7.05E+01
1298	489885.89	3859276.54	7.07841	6.78252	34.26574	20.12849	13.01	12.62	6.4036	6.78252	4.93E+01	1.25E+01	3.57E-03	7.08E-01	4.08E+00	1.19E+00	4.54E+01	4.61E+01	6.71E+01
1299	489935.89	3859276.54	6.83675	6.29604	31.10504	16.86246	12.53	11.63	5.9337	6.29604	4.77E+01	1.16E+01	3.24E-03	5.93E-01	3.92E+00	1.09E+00	4.20E+01	4.28E+01	6.41E+01
1300	489985.89	3859276.54	6.65458	5.66783	33.91965	14.4312	12.33	10.7	5.2936	5.66783	4.64E+01	1.05E+01	3.53E-03	5.08E-01	3.86E+00	1.01E+00	3.75E+01	3.85E+01	6.12E+01
1301	490035.89	3859276.54	6.46793	5.17986	31.08273	13.06359	12.38	10.2	4.7935	5.17986	4.51E+01	9.57E+00	3.24E-03	4.60E-01	3.88E+00	9.59E-01	3.40E+01	3.52E+01	5.87E+01
1302	490458.06	3859590.74	6.45296	7.2962	22.58619	23.50845	10.27	13.18	7.321	7.2962	4.50E+01	1.35E+01	2.35E-03	8.27E-01	3.22E+00	1.24E+00	5.19E+01	4.96E+01	6.60E+01
1303	490508.06	3859590.74	6.22505	6.25267	22.13492	19.26842	10.14	11.82	6.2614	6.25267	4.34E+01	1.15E+01	2.30E-03	6.78E-01	3.18E+00	1.11E+00	4.44E+01	4.25E+01	6.18E+01
1304	490558.06	3859590.74	6.0408	5.71952	21.69072	16.29878	10.24	10.74	5.4885	5.71952	4.21E+01	1.06E+01	2.26E-03	5.74E-01	3.21E+00	1.01E+00	3.89E+01	3.89E+01	5.75E+01
1305	490608.06	3859590.74	5.89072	5.46976	20.98942	13.89717	10.39	9.76	5.0742	5.46976	4.11E+01	1.01E+01	2.19E-03	4.89E-01	3.26E+00	9.17E-01	3.60E+01	3.72E+01	5.46E+01
1306	490658.06	3859590.74	5.76581	5.02717	20.02451	12.34876	10.69	8.946	4.6718	5.02717	4.02E+01	9.28E+00	2.08E-03	4.35E-01	3.35E+00	8.41E-01	3.31E+01	3.42E+01	5.30E+01
1307	490708.06	3859590.74	5.65824	4.63093	19.21964	10.92728	11.22	8.283	4.337	4.63093	3.94E+01	8.55E+00	2.00E-03	3.85E-01	3.51E+00	7.79E-01	3.07E+01	3.15E+01	5.19E+01

1308	490758.06	3859590.74	5.567	4.29729	18.33081	9.72065	11.7	7.637	4.0092	4.29729	3.88E+01	7.94E+00	1.91E-03	3.42E-01	3.67E+00	7.18E-01	2.84E+01	2.92E+01	5.07E+01
1309	490808.06	3859590.74	5.47601	4.03307	17.32432	8.85326	12.09	7.187	3.7027	4.03307	3.82E+01	7.45E+00	1.80E-03	3.12E-01	3.79E+00	6.76E-01	2.62E+01	2.74E+01	4.92E+01
1310	490858.06	3859590.74	5.39562	3.78349	16.44197	8.10331	12.42	6.766	3.4015	3.78349	3.76E+01	6.99E+00	1.71E-03	2.85E-01	3.89E+00	6.36E-01	2.41E+01	2.57E+01	4.78E+01
1311	490458.06	3859640.74	7.1619	9.54493	19.7813	47.46932	10.04	18.06	9.6389	9.54493	4.99E+01	1.76E+01	2.06E-03	1.67E+00	3.14E+00	1.70E+00	6.83E+01	6.49E+01	7.75E+01
1312	490508.06	3859640.74	6.75458	8.53433	19.25467	30.85677	10.02	14.99	8.6388	8.53433	4.71E+01	1.58E+01	2.00E-03	1.09E+00	3.14E+00	1.41E+00	6.12E+01	5.80E+01	7.17E+01
1313	490558.06	3859640.74	6.43409	7.39949	19.11786	24.19408	9.891	13.17	7.4681	7.39949	4.49E+01	1.37E+01	1.99E-03	8.52E-01	3.10E+00	1.24E+00	5.29E+01	5.03E+01	6.63E+01
1314	490608.06	3859640.74	6.19414	6.18936	18.62357	19.71615	9.905	11.74	6.0751	6.18936	4.32E+01	1.14E+01	1.94E-03	6.94E-01	3.10E+00	1.10E+00	4.30E+01	4.21E+01	6.05E+01
1315	490658.06	3859640.74	6.00747	5.88158	18.12428	16.80535	10.08	10.54	5.5017	5.88158	4.19E+01	1.09E+01	1.89E-03	5.91E-01	3.16E+00	9.91E-01	3.90E+01	4.00E+01	5.65E+01
1316	490708.06	3859640.74	5.85187	5.39282	17.7837	14.51857	10.23	9.59	5.0331	5.39282	4.08E+01	9.96E+00	1.85E-03	5.11E-01	3.21E+00	9.01E-01	3.57E+01	3.67E+01	5.44E+01
1317	490758.06	3859640.74	5.72529	4.95412	17.60933	12.3454	10.76	8.689	4.6668	4.95412	3.99E+01	9.15E+00	1.83E-03	4.35E-01	3.37E+00	8.17E-01	3.31E+01	3.37E+01	5.31E+01
1318	490808.06	3859640.74	5.60487	4.63477	17.44123	10.97987	11.21	8.091	4.378	4.63477	3.91E+01	8.56E+00	1.82E-03	3.86E-01	3.51E+00	7.61E-01	3.10E+01	3.15E+01	5.18E+01
1319	490858.06	3859640.74	5.49686	4.34668	17.0467	9.89277	11.6	7.591	4.0487	4.34668	3.83E+01	8.03E+00	1.77E-03	3.48E-01	3.63E+00	7.13E-01	2.87E+01	2.96E+01	5.02E+01
1320	490608.06	3859690.74	6.71125	8.79713	17.89115	31.37454	9.704	15.02	8.9073	8.79713	4.68E+01	1.62E+01	1.86E-03	1.10E+00	3.04E+00	1.41E+00	6.31E+01	5.98E+01	7.19E+01
1321	490658.06	3859690.74	6.38892	6.98053	16.6647	24.12025	9.614	12.99	7.0428	6.98053	4.45E+01	1.29E+01	1.73E-03	8.49E-01	3.01E+00	1.22E+00	4.99E+01	4.75E+01	6.50E+01
1322	490708.06	3859690.74	6.14261	6.3733	16.07209	20.39979	9.777	11.57	6.0934	6.3733	4.28E+01	1.18E+01	1.67E-03	7.18E-01	3.06E+00	1.09E+00	4.32E+01	4.33E+01	5.93E+01
1323	490758.06	3859690.74	5.95297	5.83457	15.79855	16.83983	9.893	10.28	5.6048	5.83457	4.15E+01	1.08E+01	1.64E-03	5.93E-01	3.10E+00	9.66E-01	3.97E+01	3.97E+01	5.70E+01
1324	490808.06	3859690.74	5.79231	5.38442	15.53308	14.29253	10.31	9.288	5.1512	5.38442	4.04E+01	9.94E+00	1.62E-03	5.03E-01	3.23E+00	8.73E-01	3.65E+01	3.66E+01	5.48E+01
1325	490858.06	3859690.74	5.63897	5.10359	15.33615	12.95062	10.72	8.805	4.9128	5.10359	3.93E+01	9.43E+00	1.60E-03	4.56E-01	3.36E+00	8.28E-01	3.48E+01	3.47E+01	5.35E+01
1326	490708.06	3859740.74	6.66498	8.51826	16.02784	31.86928	9.36	15.01	8.6873	8.51826	4.65E+01	1.57E+01	1.67E-03	1.12E+00	2.93E+00	1.41E+00	6.16E+01	5.79E+01	7.13E+01
1327	490758.06	3859740.74	6.2887	7.27874	15.5912	24.90322	9.442	13.2	7.2572	7.27874	4.38E+01	1.34E+01	1.62E-03	8.76E-01	2.96E+00	1.24E+00	5.14E+01	4.95E+01	6.43E+01
1328	490808.06	3859740.74	6.026	6.61382	14.84164	21.01976	9.537	11.82	6.4813	6.61382	4.20E+01	1.22E+01	1.55E-03	7.40E-01	2.99E+00	1.11E+00	4.59E+01	4.50E+01	6.00E+01
1329	490858.06	3859740.74	5.82152	6.10112	14.29578	18.30469	9.796	10.8	6.0397	6.10112	4.06E+01	1.13E+01	1.49E-03	6.44E-01	3.07E+00	1.02E+00	4.28E+01	4.15E+01	5.79E+01
1330	490786.56	3859749.39	6.20526	7.20144	15.24184	23.95998	9.426	12.91	7.1912	7.20144	4.33E+01	1.33E+01	1.59E-03	8.43E-01	2.95E+00	1.21E+00	5.10E+01	4.90E+01	6.36E+01
1331	490836.56	3859749.39	5.95165	6.55153	14.52903	20.41967	9.5	11.62	6.446	6.55153	4.15E+01	1.21E+01	1.51E-03	7.19E-01	2.98E+00	1.09E+00	4.57E+01	4.45E+01	5.95E+01
1332	490786.56	3859799.39	6.91988	10.80186	15.44725	48.63554	9.011	17.99	11.131	10.80186	4.82E+01	2.00E+01	1.61E-03	1.71E+00	2.82E+00	1.69E+00	7.89E+01	7.35E+01	7.98E+01
1333	490836.56	3859799.39	6.46278	8.92315	14.49926	31.39901	9.109	14.82	9.0984	8.92315	4.51E+01	1.65E+01	1.51E-03	1.11E+00	2.85E+00	1.39E+00	6.45E+01	6.07E+01	7.07E+01
1334	492307.84	3854508.36	2.19242	0.78876	1.61375	1.12065	8.162	0.879	0.8643	0.78876	1.53E+01	1.46E+00	1.68E-04	3.94E-02	2.56E+00	8.26E-02	6.12E+00	5.36E+00	2.02E+01
1335	486445.7	3854753.6	4.13632	2.21837	3.19883	2.08217	8.093	1.391	2.3973	2.21837	2.88E+01	4.10E+00	3.33E-04	7.33E-02	2.54E+00	1.31E-01	1.70E+01	1.51E+01	3.76E+01
1336	472599.75	3877830.11	0.37258	0.21171	0.31564	0.25706	0.657	0.295	0.2129	0.21171	2.60E+00	3.91E-01	3.29E-05	9.05E-03	2.06E-01	2.77E-02	1.51E+00	1.44E+00	3.30E+00
1337	493107.48	3866840.19	2.88319	0.8125	0.67241	1.03086	4.153	1.368	0.7691	0.8125	2.01E+01	1.50E+00	7.00E-05	3.63E-02	1.30E+00	1.29E-01	5.45E+00	5.52E+00	2.30E+01
1338	495815.79	3861662.87	1.94013	3.63512	2.67699	2.25783	5.315	2.599	3.6432	3.63512	1.35E+01	6.71E+00	2.79E-04	7.95E-02	1.67E+00	2.44E-01	2.58E+01	2.47E+01	2.33E+01
1339	480272.33	3841389.2	0.43479	0.13308	0.22946	0.22307	0.379	0.245	0.1421	0.13308	3.03E+00	2.46E-01	2.39E-05	7.85E-03	1.19E-01	2.30E-02	1.01E+00	9.05E-01	3.53E+00
1340	497005.18	3862813.64	1.973	4.33998	2.37506	1.88541	4.552	1.792	4.4084	4.33998	1.38E+01	8.02E+00	2.47E-04	6.64E-02	1.43E+00	1.68E-01	3.12E+01	2.95E+01	2.52E+01
1341	493677.33	3860302.55	2.80347	2.1202	5.48192	4.27908	7.571	18.8	1.8756	2.1202	1.95E+01	3.92E+00	5.71E-04	1.51E-01	2.37E+00	1.77E+00	1.33E+01	1.44E+01	2.66E+01
1342	493727.33	3860302.55	2.78761	2.08944	5.3911	4.18913	7.309	18.72	1.8468	2.08944	1.94E+01	3.86E+00	5.61E-04	1.47E-01	2.29E+00	1.76E+00	1.31E+01	1.42E+01	2.64E+01
1343	493777.33	3860302.55	2.77477	2.07518	5.304	4.10209	7.057	18.79	1.8221	2.07518	1.93E+01	3.83E+00	5.52E-04	1.44E-01	2.21E+00	1.77E+00	1.29E+01	1.41E+01	2.61E+01
1344	493827.33	3860302.55	2.76262	2.07274	5.23875	4.03355	6.809	18.82	1.8101	2.07274	1.93E+01	3.83E+00	5.45E-04	1.42E-01	2.13E+00	1.77E+00	1.28E+01	1.41E+01	2.59E+01
1345	493877.33	3860302.55	2.74471	2.04469	5.1873	3.96298	6.641	18.52	1.7834	2.04469	1.91E+01	3.78E+00	5.40E-04	1.39E-01	2.08E+00	1.74E+00	1.26E+01	1.39E+01	2.56E+01
1346	493927.33	3860302.55	2.72375	2.00558	5.14136	3.88056	6.485	18.08	1.7516	2.00558	1.90E+01	3.70E+00	5.35E-04	1.37E-01	2.03E+00	1.70E+00	1.24E+01	1.36E+01	2.53E+01
1347	493977.33	3860302.55	2.72834	1.99693	5.03111	3.88246	6.371	18.45	1.735	1.99693	1.90E+01	3.69E+00	5.24E-04	1.37E-01	2.00E+00	1.73E+00	1.23E+01	1.36E+01	2.53E+01
1348	494027.33	3860302.55	2.7208	1.9688	4.94989	3.83754	6.237	18.29	1.7067	1.9688	1.90E+01	3.64E+00	5.15E-04	1.35E-01	1.95E+00	1.72E+00	1.21E+01	1.34E+01	2.51E+01
1349	493677.33	3860352.55	2.80628	2.16036	5.62207	4.43159	7.849	12.84	1.9336	2.16036	1.96E+01	3.99E+00	5.85E-04	1.56E-01	2.46E+00	1.21E+00	1.37E+01	1.47E+01	2.64E+01
1350	493727.33	3860352.55	2.77315	2.12242	5.55911	4.29463	7.584	12.8	1.8913	2.12242	1.93E+01	3.92E+00	5.79E-04	1.51E-01	2.38E+00	1.20E+00	1.34E+01	1.44E+01	2.60E+01
1351	493777.33	3860352.55	2.75373	2.08448	5.49191	4.16771	7.322	12.75	1.8511	2.08448	1.92E+01	3.85E+00	5.72E-04	1.47E-01	2.29E+00	1.20E+00	1.31E+01	1.42E+01	2.56E+01
1352	493827.33	3860352.55	2.73829	2.05314	5.41327	4.04783	7.07	12.77	1.8166	2.05314	1.91E+01	3.79E+00	5.64E-04	1.42E-01	2.22E+00	1.20E+00	1.29E+01	1.40E+01	2.54E+01
1353	493877.33	3860352.55	2.72682	2.02524	5.3228	3.93643	6.829	12.89	1.7863	2.02524	1.90E+01	3.74E+00	5.54E-04	1.39E-01	2.14E+00	1.21E+00	1.27E+01	1.38E+01	2.51E+01
1354	493927.33	3860352.55	2.72165	2.01008	5.21253	3.87765	6.609	13.12	1.7601	2.01008	1.90E+01	3.71E+00	5.43E-04	1.36E-01	2.07E+00	1.23E+00	1.25E+01	1.37E+01	2.49E+01
1355	493977.33	3860352.55	2.72105	2.03241	5.08828	3.83934	6.49	13.36	1.7634	2.03241	1.90E+01	3.75E+00	5.30E-04	1.35E-01	2.03E+00	1.26E+00	1.25E+01	1.38E+01	2.48E+01
1356	494027.33	3860352.55	2.70553	2.0047	5.01819	3.77931	6.347	13.34	1.7349	2.0047	1.89E+01	3.70E+00	5.22E-04	1.33E-01	1.99E+00	1.25E+00	1.23E+01	1.36E+01	2.46E+01
1357	493677.33	3860402.55	2.80827	2.24939	5.68679	4.85672	8.148	10.5	2.0559	2.24939	1.96E+01	4.15E+00	5.92E-04	1.71E-01	2.55E+00	9.87E-01	1.46E+01	1.53E+01	2.67E+01
1358	493727.33	3860402.55	2.7751	2.20433	5.63657	4.67153	7.821	10.43	2.0019	2.20433	1.93E+01	4.07E+00	5.87E-04	1.64E-01	2.45E+00	9.81E-01	1.42E+01	1.50E+01	2.62E+01
1359	493777.33	3860402.55	2.75838	2.14869	5.54653	4.47688	7.611	10.59	1.9436	2.14869	1.92E+01	3.97E+00	5.77E-04	1.58E-01	2.38E+00	9.96E-01	1.38E+01	1.46E+01	2.59E+01
1360	493827.33	3860402.55	2.72562	2.11159	5.5042	4.32116	7.343	10.47	1.8962	2.11159	1.90E+01	3.90E+00	5.73E-04	1.52E-01	2.30E+00	9.84E-01	1.34E+01	1.44E+01	2.54E+01
1361	493877.33	3860402.55	2.7081	2.07268	5.44415	4.19072	7.092	10.43	1.8554	2.07268	1.89E+01	3.83E+00	5.67E-04	1.47E-01	2.22E+00	9.80E-01	1.31E+01	1.41E+01	2.51E+01
1362	493927.33	3860402.55	2.70583	2.03509	5.34834	4.08602	6.877	10.61	1.8127	2.03509	1.89E+01	3.76E+00	5.57E-04	1.44E-01	2.15E+00	9.97E-01	1.28E+01	1.38E+01	2.49E+01
1363	493977.33	3860402.55	2.70955	2.01994	5.23006	4.04186	6.672	10.83	1.7875	2.01994	1.89E+01	3.73E+00	5.44E-04	1.42E-01	2.09E+00	1.02E+00	1.27E+01	1.37E+01	2.48E+01
1364	494027.33	3860402.55	2.69011	1.98959	5.17383	3.9118	6.446	10.77	1.7508	1.98959	1.88E+01	3.67E+00	5.39E-04	1.38E-01	2.02E+00	1.01E+00	1.24E+01	1.35E+01	2.45E+01

1365	493677.33	3860452.55	2.81688	2.35424	5.56713	5.25193	8.531	9.454	2.1849	2.35424	1.96E+01	4.35E+00	5.80E-04	1.85E-01	2.67E+00	8.89E-01	1.55E+01	1.60E+01	2.72E+01
1366	493727.33	3860452.55	2.77453	2.31307	5.474	5.06683	8.189	9.24	2.1297	2.31307	1.93E+01	4.27E+00	5.70E-04	1.78E-01	2.57E+00	8.69E-01	1.51E+01	1.57E+01	2.66E+01
1367	493777.33	3860452.55	2.74441	2.26349	5.44154	4.89643	7.873	9.167	2.0725	2.26349	1.91E+01	4.18E+00	5.66E-04	1.72E-01	2.47E+00	8.62E-01	1.47E+01	1.54E+01	2.61E+01
1368	493827.33	3860452.55	2.72425	2.20888	5.45545	4.73646	7.583	9.226	2.0158	2.20888	1.90E+01	4.08E+00	5.68E-04	1.67E-01	2.38E+00	8.67E-01	1.43E+01	1.50E+01	2.57E+01
1369	493877.33	3860452.55	2.70133	2.15673	5.44659	4.57821	7.362	9.237	1.9613	2.15673	1.88E+01	3.98E+00	5.67E-04	1.61E-01	2.31E+00	8.68E-01	1.39E+01	1.47E+01	2.54E+01
1370	493927.33	3860452.55	2.70004	2.09762	5.36862	4.41944	7.167	9.376	1.9031	2.09762	1.88E+01	3.87E+00	5.59E-04	1.56E-01	2.25E+00	8.81E-01	1.35E+01	1.43E+01	2.52E+01
1371	493977.33	3860452.55	2.68512	2.05907	5.31676	4.26328	6.927	9.355	1.855	2.05907	1.87E+01	3.80E+00	5.54E-04	1.50E-01	2.17E+00	8.79E-01	1.31E+01	1.40E+01	2.49E+01
1372	494027.33	3860452.55	2.66961	2.0228	5.26406	4.11556	6.686	9.329	1.8168	2.0228	1.86E+01	3.74E+00	5.48E-04	1.45E-01	2.09E+00	8.77E-01	1.29E+01	1.38E+01	2.46E+01
1373	493677.33	3860502.55	2.81593	2.45658	5.30457	5.44829	8.828	8.773	2.3117	2.45658	1.96E+01	4.54E+00	5.52E-04	1.92E-01	2.77E+00	8.25E-01	1.64E+01	1.67E+01	2.76E+01
1374	493727.33	3860502.55	2.77878	2.40531	5.25683	5.29968	8.536	8.577	2.2519	2.40531	1.94E+01	4.44E+00	5.47E-04	1.87E-01	2.67E+00	8.06E-01	1.60E+01	1.64E+01	2.71E+01
1375	493777.33	3860502.55	2.74964	2.35365	5.24707	5.1544	8.252	8.468	2.1923	2.35365	1.92E+01	4.35E+00	5.46E-04	1.81E-01	2.59E+00	7.96E-01	1.55E+01	1.60E+01	2.66E+01
1376	493827.33	3860502.55	2.72174	2.3037	5.23806	5.00909	7.958	8.381	2.1348	2.3037	1.90E+01	4.25E+00	5.45E-04	1.76E-01	2.49E+00	7.88E-01	1.51E+01	1.57E+01	2.61E+01
1377	493877.33	3860502.55	2.70251	2.25282	5.2687	4.86936	7.678	8.399	2.0782	2.25282	1.88E+01	4.16E+00	5.49E-04	1.71E-01	2.41E+00	7.89E-01	1.47E+01	1.53E+01	2.58E+01
1378	493927.33	3860502.55	2.68795	2.19315	5.31203	4.73839	7.399	8.48	2.0198	2.19315	1.87E+01	4.05E+00	5.53E-04	1.67E-01	2.32E+00	7.97E-01	1.43E+01	1.49E+01	2.55E+01
1379	493977.33	3860502.55	2.658	2.15159	5.27461	4.59355	7.161	8.392	1.9697	2.15159	1.85E+01	3.97E+00	5.49E-04	1.62E-01	2.24E+00	7.89E-01	1.40E+01	1.46E+01	2.50E+01
1380	494027.33	3860502.55	2.64498	2.10618	5.25343	4.45552	6.932	8.361	1.9195	2.10618	1.84E+01	3.89E+00	5.47E-04	1.57E-01	2.17E+00	7.86E-01	1.36E+01	1.43E+01	2.47E+01
1381	493627.33	3860552.55	2.83826	2.59558	5.09247	5.45695	9.236	9.101	2.4869	2.59558	1.98E+01	4.79E+00	5.30E-04	1.92E-01	2.89E+00	8.55E-01	1.76E+01	1.76E+01	2.85E+01
1382	493677.33	3860552.55	2.80174	2.54147	5.02486	5.37929	9.009	8.793	2.4248	2.54147	1.95E+01	4.69E+00	5.23E-04	1.89E-01	2.82E+00	8.27E-01	1.72E+01	1.73E+01	2.80E+01
1383	493727.33	3860552.55	2.76811	2.48675	4.96686	5.28932	8.769	8.528	2.362	2.48675	1.93E+01	4.59E+00	5.17E-04	1.86E-01	2.75E+00	8.02E-01	1.67E+01	1.69E+01	2.75E+01
1384	493777.33	3860552.55	2.74306	2.43494	4.95259	5.20077	8.538	8.327	2.3025	2.43494	1.91E+01	4.50E+00	5.16E-04	1.83E-01	2.68E+00	7.83E-01	1.63E+01	1.66E+01	2.70E+01
1385	493827.33	3860552.55	2.72375	2.38591	5.0061	5.10867	8.307	8.229	2.2464	2.38591	1.90E+01	4.41E+00	5.21E-04	1.80E-01	2.60E+00	7.73E-01	1.59E+01	1.62E+01	2.66E+01
1386	493877.33	3860552.55	2.69388	2.33678	4.99555	4.99672	8.022	8.102	2.1894	2.33678	1.88E+01	4.32E+00	5.20E-04	1.76E-01	2.51E+00	7.62E-01	1.55E+01	1.59E+01	2.62E+01
1387	493927.33	3860552.55	2.67426	2.28897	5.03332	4.88973	7.756	8	2.1346	2.28897	1.86E+01	4.23E+00	5.24E-04	1.72E-01	2.43E+00	7.52E-01	1.51E+01	1.56E+01	2.58E+01
1388	493977.33	3860552.55	2.65719	2.23991	5.07655	4.77879	7.484	7.852	2.0794	2.23991	1.85E+01	4.14E+00	5.28E-04	1.68E-01	2.35E+00	7.38E-01	1.47E+01	1.52E+01	2.54E+01
1389	494027.33	3860552.55	2.62896	2.19625	5.05709	4.65871	7.171	7.754	2.0285	2.19625	1.83E+01	4.06E+00	5.26E-04	1.64E-01	2.25E+00	7.29E-01	1.44E+01	1.49E+01	2.50E+01
1390	493627.33	3860602.55	2.82615	2.65869	4.86326	5.02396	9.303	8.851	2.5752	2.65869	1.97E+01	4.91E+00	5.06E-04	1.77E-01	2.91E+00	8.32E-01	1.82E+01	1.81E+01	2.87E+01
1391	493727.33	3860602.55	2.7507	2.53963	4.7352	4.99667	8.902	8.396	2.4411	2.53963	1.92E+01	4.69E+00	4.93E-04	1.76E-01	2.79E+00	7.89E-01	1.73E+01	1.73E+01	2.76E+01
1392	493777.33	3860602.55	2.73446	2.50128	4.79248	4.99958	8.75	8.29	2.3928	2.50128	1.91E+01	4.62E+00	4.99E-04	1.76E-01	2.74E+00	7.79E-01	1.70E+01	1.70E+01	2.73E+01
1393	493827.33	3860602.55	2.70897	2.4533	4.78036	4.96337	8.537	8.124	2.3376	2.4533	1.89E+01	4.53E+00	4.98E-04	1.75E-01	2.67E+00	7.64E-01	1.66E+01	1.67E+01	2.69E+01
1394	493877.33	3860602.55	2.69163	2.40955	4.80465	4.92579	8.333	7.953	2.2893	2.40955	1.88E+01	4.45E+00	5.00E-04	1.73E-01	2.61E+00	7.48E-01	1.62E+01	1.64E+01	2.66E+01
1395	493927.33	3860602.55	2.66974	2.36265	4.79883	4.86635	8.091	7.805	2.2352	2.36265	1.86E+01	4.36E+00	5.00E-04	1.71E-01	2.54E+00	7.34E-01	1.58E+01	1.61E+01	2.62E+01
1396	493977.33	3860602.55	2.64968	2.31614	4.80857	4.79772	7.839	7.696	2.1817	2.31614	1.85E+01	4.28E+00	5.01E-04	1.69E-01	2.46E+00	7.23E-01	1.55E+01	1.57E+01	2.58E+01
1397	494027.33	3860602.55	2.61982	2.27132	4.79479	4.71116	7.542	7.546	2.1296	2.27132	1.83E+01	4.19E+00	4.99E-04	1.66E-01	2.36E+00	7.09E-01	1.51E+01	1.54E+01	2.53E+01
1398	493627.33	3860652.55	2.80852	2.68566	4.59205	4.50301	9.342	8.058	2.6227	2.68566	1.96E+01	4.96E+00	4.78E-04	1.58E-01	2.93E+00	7.57E-01	1.86E+01	1.83E+01	2.87E+01
1399	493727.33	3860652.55	2.73705	2.58164	4.49301	4.47172	8.969	7.985	2.5055	2.58164	1.91E+01	4.77E+00	4.68E-04	1.57E-01	2.81E+00	7.51E-01	1.78E+01	1.76E+01	2.78E+01
1400	493777.33	3860652.55	2.717	2.54299	4.52984	4.54343	8.852	7.947	2.4598	2.54299	1.89E+01	4.70E+00	4.72E-04	1.60E-01	2.77E+00	7.47E-01	1.74E+01	1.73E+01	2.75E+01
1401	493827.33	3860652.55	2.69758	2.50106	4.5744	4.59262	8.709	7.838	2.4122	2.50106	1.88E+01	4.62E+00	4.76E-04	1.62E-01	2.73E+00	7.37E-01	1.71E+01	1.70E+01	2.71E+01
1402	493877.33	3860652.55	2.68126	2.46373	4.62895	4.6258	8.551	7.666	2.3669	2.46373	1.87E+01	4.55E+00	4.82E-04	1.63E-01	2.68E+00	7.21E-01	1.68E+01	1.68E+01	2.68E+01
1403	493927.33	3860652.55	2.65852	2.42201	4.63384	4.62736	8.345	7.567	2.3178	2.42201	1.85E+01	4.47E+00	4.82E-04	1.63E-01	2.61E+00	7.11E-01	1.64E+01	1.65E+01	2.65E+01
1404	493977.33	3860652.55	2.63521	2.37819	4.62885	4.61213	8.116	7.463	2.2677	2.37819	1.84E+01	4.39E+00	4.82E-04	1.62E-01	2.54E+00	7.02E-01	1.61E+01	1.62E+01	2.61E+01
1405	494027.33	3860652.55	2.61829	2.33576	4.64908	4.59167	7.891	7.375	2.2196	2.33576	1.83E+01	4.31E+00	4.84E-04	1.62E-01	2.47E+00	6.93E-01	1.57E+01	1.59E+01	2.57E+01
1406	494311.06	3858401.99	1.99316	0.47762	1.1106	1.18642	5.327	1.049	0.5184	0.47762	1.39E+01	8.82E-01	1.16E-04	4.18E-02	1.67E+00	9.86E-02	3.67E+00	3.25E+00	1.70E+01
1407	494361.06	3858401.99	1.9528	0.4777	1.08902	1.17245	5.23	1.052	0.5135	0.4777	1.36E+01	8.82E-01	1.13E-04	4.13E-02	1.64E+00	9.88E-02	3.64E+00	3.25E+00	1.67E+01
1408	494411.06	3858401.99	1.92943	0.4777	1.06733	1.16192	5.144	1.057	0.5093	0.4777	1.35E+01	8.82E-01	1.11E-04	4.09E-02	1.61E+00	9.93E-02	3.61E+00	3.25E+00	1.64E+01
1409	494461.06	3858401.99	1.9238	0.47761	1.0457	1.15375	5.076	1.069	0.5064	0.47761	1.34E+01	8.82E-01	1.09E-04	4.06E-02	1.59E+00	1.01E-01	3.59E+00	3.25E+00	1.64E+01
1410	494511.06	3858401.99	1.89757	0.47733	1.02344	1.13043	5.003	1.086	0.5012	0.47733	1.32E+01	8.82E-01	1.07E-04	3.98E-02	1.57E+00	1.02E-01	3.55E+00	3.25E+00	1.61E+01
1411	494561.06	3858401.99	1.89055	0.47694	1.00321	1.12134	4.939	1.099	0.4981	0.47694	1.32E+01	8.81E-01	1.04E-04	3.95E-02	1.55E+00	1.03E-01	3.53E+00	3.24E+00	1.60E+01
1412	494611.06	3858401.99	1.54203	0.47629	0.98579	1.10672	4.864	1.117	0.4917	0.47629	1.08E+01	8.80E-01	1.03E-04	3.90E-02	1.52E+00	1.05E-01	3.48E+00	3.24E+00	1.35E+01
1413	494661.06	3858401.99	1.52143	0.47555	0.86522	1.09689	3.797	1.134	0.4862	0.47555	1.06E+01	8.78E-01	9.01E-05	3.86E-02	1.19E+00	1.07E-01	3.44E+00	3.23E+00	1.30E+01
1414	494711.06	3858401.99	1.48531	0.47453	0.85509	1.09128	3.756	1.155	0.4766	0.47453	1.04E+01	8.76E-01	8.90E-05	3.84E-02	1.18E+00	1.09E-01	3.38E+00	3.23E+00	1.27E+01
1415	494761.06	3858401.99	1.47146	0.47351	0.84826	1.08687	3.726	1.171	0.4715	0.47351	1.03E+01	8.75E-01	8.83E-05	3.83E-02	1.17E+00	1.10E-01	3.34E+00	3.22E+00	1.26E+01
1416	494811.06	3858401.99	1.44646	0.47233	0.83841	1.08218	3.688	1.192	0.4649	0.47233	1.01E+01	8.72E-01	8.73E-05	3.81E-02	1.16E+00	1.12E-01	3.29E+00	3.21E+00	1.23E+01
1417	494861.06	3858401.99	1.42597	0.47103	0.82811	1.06956	3.651	1.214	0.4594	0.47103	9.94E+00	8.70E-01	8.62E-05	3.76E-02	1.14E+00	1.14E-01	3.25E+00	3.20E+00	1.22E+01
1418	494911.06	3858401.99	1.407	0.46959	0.81666	1.06284	3.613	1.238	0.4543	0.46959	9.81E+00	8.67E-01	8.50E-05	3.74E-02	1.13E+00	1.16E-01	3.22E+00	3.19E+00	1.20E+01
1419	494961.06	3858401.99	1.39452	0.46803	0.80428	1.0563	3.572	1.26	0.4451	0.46803	9.72E+00	8.64E-01	8.37E-05	3.72E-02	1.12E+00	1.18E-01	3.15E+00	3.18E+00	1.18E+01
1420	495011.06	3858401.99	1.38574	0.4663	0.78967	1.04863	3.527	1.293	0.4357	0.4663	9.66E+00	8.61E-01	8.22E-05	3.69E-02	1.10E+00	1.22E-01	3.09E+00	3.17E+00	1.17E+01
1421	495061.06	3858401.99	1.3824	0.46443	0.77643	1.04084	3.485	1.338	0.4274	0.46443	9.64E+00	8.58E-01	8.08E-05	3.66E-02	1.09E+00	1.26E-01	3.03E+00	3.16E+00	1.16E+01

1422	495111.06	3858401.99	1.3793	0.46226	0.76489	1.01673	3.426	1.403	0.4251	0.46226	9.62E+00	8.54E-01	7.96E-05	3.58E-02	1.07E+00	1.32E-01	3.01E+00	3.14E+00	1.16E+01
1423	495161.06	3858401.99	1.37739	0.46025	0.76135	1.00925	3.392	1.443	0.4231	0.46025	9.60E+00	8.50E-01	7.93E-05	3.55E-02	1.06E+00	1.36E-01	3.00E+00	3.13E+00	1.16E+01
1424	495211.06	3858401.99	1.37441	0.45489	0.73232	0.98766	3.342	1.511	0.4204	0.45489	9.58E+00	8.40E-01	7.62E-05	3.48E-02	1.05E+00	1.42E-01	2.98E+00	3.09E+00	1.15E+01
1425	495261.06	3858401.99	1.37198	0.44905	0.72779	0.97512	3.307	1.581	0.418	0.44905	9.57E+00	8.29E-01	7.58E-05	3.43E-02	1.04E+00	1.49E-01	2.96E+00	3.05E+00	1.15E+01
1426	495311.06	3858401.99	1.36949	0.44126	0.72514	0.9615	3.277	1.66	0.4156	0.44126	9.55E+00	8.15E-01	7.55E-05	3.38E-02	1.03E+00	1.56E-01	2.94E+00	3.00E+00	1.15E+01
1427	495361.06	3858401.99	1.36722	0.43857	0.72286	0.9533	3.249	1.731	0.4126	0.43857	9.53E+00	8.10E-01	7.53E-05	3.36E-02	1.02E+00	1.63E-01	2.92E+00	2.98E+00	1.15E+01
1428	495411.06	3858401.99	1.36514	0.4359	0.72378	0.94915	3.225	1.795	0.4097	0.4359	9.52E+00	8.05E-01	7.53E-05	3.34E-02	1.01E+00	1.69E-01	2.90E+00	2.96E+00	1.15E+01
1429	495461.06	3858401.99	1.36313	0.43319	0.72578	0.94694	3.202	1.853	0.4073	0.43319	9.50E+00	8.00E-01	7.56E-05	3.33E-02	1.00E+00	1.74E-01	2.89E+00	2.95E+00	1.15E+01
1430	495511.06	3858401.99	1.36103	0.43061	0.72855	0.94323	3.176	1.912	0.4043	0.43061	9.49E+00	7.95E-01	7.58E-05	3.32E-02	9.95E-01	1.80E-01	2.86E+00	2.93E+00	1.14E+01
1431	495561.06	3858401.99	1.35904	0.42878	0.72712	0.94173	3.135	1.97	0.4021	0.42878	9.47E+00	7.92E-01	7.57E-05	3.31E-02	9.82E-01	1.85E-01	2.85E+00	2.92E+00	1.14E+01
1432	495611.06	3858401.99	1.35692	0.42752	0.7288	0.93891	3.108	2.057	0.401	0.42752	9.46E+00	7.90E-01	7.59E-05	3.30E-02	9.74E-01	1.93E-01	2.84E+00	2.91E+00	1.14E+01
1433	495661.06	3858401.99	1.35473	0.42614	0.73452	0.93512	3.1	2.154	0.3996	0.42614	9.44E+00	7.87E-01	7.65E-05	3.29E-02	9.71E-01	2.03E-01	2.83E+00	2.90E+00	1.14E+01
1434	494311.06	3858451.99	2.10141	0.48407	1.08017	1.19244	5.632	1.097	0.5367	0.48407	1.47E+01	8.94E-01	1.12E-04	4.20E-02	1.76E+00	1.03E-01	3.80E+00	3.29E+00	1.80E+01
1435	494361.06	3858451.99	2.06967	0.47756	1.06126	1.18167	5.542	1.095	0.5265	0.47756	1.44E+01	8.82E-01	1.10E-04	4.16E-02	1.74E+00	1.03E-01	3.73E+00	3.25E+00	1.77E+01
1436	494411.06	3858451.99	2.04438	0.47698	1.04384	1.17125	5.467	1.097	0.5215	0.47698	1.43E+01	8.81E-01	1.09E-04	4.12E-02	1.71E+00	1.03E-01	3.69E+00	3.24E+00	1.74E+01
1437	494461.06	3858451.99	2.02352	0.47686	1.0273	1.16205	5.394	1.1	0.5182	0.47686	1.41E+01	8.81E-01	1.07E-04	4.09E-02	1.69E+00	1.03E-01	3.67E+00	3.24E+00	1.73E+01
1438	494511.06	3858451.99	2.01489	0.4769	1.01126	1.1541	5.329	1.105	0.5156	0.4769	1.40E+01	8.81E-01	1.05E-04	4.06E-02	1.67E+00	1.04E-01	3.65E+00	3.24E+00	1.72E+01
1439	494561.06	3858451.99	1.98525	0.47701	0.99045	1.14228	5.244	1.111	0.5111	0.47701	1.38E+01	8.81E-01	1.03E-04	4.02E-02	1.64E+00	1.04E-01	3.62E+00	3.24E+00	1.69E+01
1440	494611.06	3858451.99	1.96546	0.47645	0.97003	1.13204	5.166	1.123	0.5076	0.47645	1.37E+01	8.80E-01	1.01E-04	3.98E-02	1.62E+00	1.06E-01	3.60E+00	3.24E+00	1.67E+01
1441	494661.06	3858451.99	1.94326	0.47605	0.94818	1.12151	5.083	1.139	0.5032	0.47605	1.35E+01	8.79E-01	9.87E-05	3.95E-02	1.59E+00	1.07E-01	3.57E+00	3.24E+00	1.65E+01
1442	494711.06	3858451.99	1.91191	0.47575	0.92399	1.10869	4.993	1.157	0.4975	0.47575	1.33E+01	8.79E-01	9.62E-05	3.90E-02	1.56E+00	1.09E-01	3.52E+00	3.24E+00	1.62E+01
1443	494761.06	3858451.99	1.88004	0.4747	0.89895	1.08283	4.915	1.175	0.4911	0.4747	1.31E+01	8.77E-01	9.36E-05	3.81E-02	1.54E+00	1.10E-01	3.48E+00	3.23E+00	1.59E+01
1444	494811.06	3858451.99	1.53574	0.4738	0.87462	1.07095	4.846	1.199	0.4849	0.4738	1.07E+01	8.75E-01	9.11E-05	3.77E-02	1.52E+00	1.13E-01	3.44E+00	3.22E+00	1.35E+01
1445	494861.06	3858451.99	1.50834	0.47275	0.83139	1.06166	3.755	1.231	0.4782	0.47275	1.05E+01	8.73E-01	8.66E-05	3.74E-02	1.18E+00	1.16E-01	3.39E+00	3.21E+00	1.29E+01
1446	494911.06	3858451.99	1.4769	0.47184	0.8181	1.05206	3.703	1.264	0.4713	0.47184	1.03E+01	8.71E-01	8.52E-05	3.70E-02	1.16E+00	1.19E-01	3.34E+00	3.21E+00	1.26E+01
1447	494961.06	3858451.99	1.44643	0.47012	0.80773	1.03031	3.676	1.299	0.4617	0.47012	1.01E+01	8.68E-01	8.41E-05	3.63E-02	1.15E+00	1.22E-01	3.27E+00	3.20E+00	1.23E+01
1448	495011.06	3858451.99	1.41506	0.46863	0.79709	1.01299	3.637	1.338	0.4548	0.46863	9.87E+00	8.66E-01	8.30E-05	3.57E-02	1.14E+00	1.26E-01	3.22E+00	3.19E+00	1.21E+01
1449	495061.06	3858451.99	1.40523	0.46713	0.78943	1.00519	3.608	1.384	0.4493	0.46713	9.80E+00	8.63E-01	8.22E-05	3.54E-02	1.13E+00	1.30E-01	3.18E+00	3.18E+00	1.20E+01
1450	495111.06	3858451.99	1.39201	0.46565	0.78375	0.99601	3.567	1.431	0.4375	0.46565	9.70E+00	8.60E-01	8.16E-05	3.51E-02	1.12E+00	1.35E-01	3.10E+00	3.17E+00	1.18E+01
1451	495161.06	3858451.99	1.38353	0.4635	0.77782	0.98286	3.522	1.489	0.4283	0.4635	9.65E+00	8.56E-01	8.10E-05	3.46E-02	1.10E+00	1.40E-01	3.03E+00	3.15E+00	1.17E+01
1452	495211.06	3858451.99	1.38085	0.46188	0.77253	0.96566	3.477	1.551	0.4267	0.46188	9.63E+00	8.53E-01	8.04E-05	3.40E-02	1.09E+00	1.46E-01	3.02E+00	3.14E+00	1.16E+01
1453	495261.06	3858451.99	1.3785	0.4593	0.77279	0.95703	3.439	1.623	0.4244	0.4593	9.61E+00	8.48E-01	8.05E-05	3.37E-02	1.08E+00	1.53E-01	3.01E+00	3.12E+00	1.16E+01
1454	495311.06	3858451.99	1.37624	0.4566	0.73838	0.9502	3.403	1.692	0.422	0.4566	9.59E+00	8.43E-01	7.69E-05	3.34E-02	1.07E+00	1.59E-01	2.99E+00	3.10E+00	1.16E+01
1455	495361.06	3858451.99	1.37408	0.45375	0.73973	0.94375	3.367	1.756	0.4198	0.45375	9.58E+00	8.38E-01	7.70E-05	3.32E-02	1.06E+00	1.65E-01	2.97E+00	3.09E+00	1.16E+01
1456	495411.06	3858451.99	1.37212	0.45143	0.74131	0.94105	3.337	1.811	0.4175	0.45143	9.57E+00	8.34E-01	7.72E-05	3.31E-02	1.05E+00	1.70E-01	2.96E+00	3.07E+00	1.15E+01
1457	495461.06	3858451.99	1.37018	0.4494	0.74256	0.93906	3.306	1.867	0.4151	0.4494	9.55E+00	8.30E-01	7.73E-05	3.31E-02	1.04E+00	1.75E-01	2.94E+00	3.06E+00	1.15E+01
1458	495511.06	3858451.99	1.36782	0.44517	0.74222	0.93216	3.267	1.954	0.4127	0.44517	9.54E+00	8.22E-01	7.73E-05	3.28E-02	1.02E+00	1.84E-01	2.92E+00	3.03E+00	1.15E+01
1459	495561.06	3858451.99	1.36609	0.44377	0.74323	0.9332	3.242	2.019	0.41	0.44377	9.52E+00	8.20E-01	7.74E-05	3.28E-02	1.02E+00	1.90E-01	2.91E+00	3.02E+00	1.15E+01
1460	495611.06	3858451.99	1.36355	0.43875	0.7417	0.92416	3.214	2.121	0.4073	0.43875	9.51E+00	8.10E-01	7.72E-05	3.25E-02	1.01E+00	1.99E-01	2.89E+00	2.98E+00	1.15E+01
1461	495661.06	3858451.99	1.36161	0.43864	0.74149	0.92419	3.194	2.199	0.4051	0.43864	9.49E+00	8.10E-01	7.72E-05	3.25E-02	1.00E+00	2.07E-01	2.87E+00	2.98E+00	1.14E+01
1462	494311.06	3858501.99	2.16074	0.49888	1.066	1.19212	5.896	1.149	0.5634	0.49888	1.51E+01	9.21E-01	1.11E-04	4.20E-02	1.85E+00	1.08E-01	3.99E+00	3.39E+00	1.86E+01
1463	494361.06	3858501.99	2.14254	0.48977	1.05042	1.18478	5.827	1.145	0.5492	0.48977	1.49E+01	9.05E-01	1.09E-04	4.17E-02	1.83E+00	1.08E-01	3.89E+00	3.33E+00	1.84E+01
1464	494411.06	3858501.99	2.11995	0.488	1.02059	1.17546	5.747	1.137	0.5355	0.488	1.48E+01	9.01E-01	1.06E-04	4.14E-02	1.80E+00	1.07E-01	3.79E+00	3.32E+00	1.81E+01
1465	494461.06	3858501.99	2.10903	0.48732	0.99762	1.16786	5.681	1.14	0.5269	0.48732	1.47E+01	9.00E-01	1.04E-04	4.11E-02	1.78E+00	1.07E-01	3.73E+00	3.31E+00	1.80E+01
1466	494511.06	3858501.99	2.07499	0.48111	0.97004	1.15588	5.577	1.139	0.5244	0.48111	1.45E+01	8.89E-01	1.01E-04	4.07E-02	1.75E+00	1.07E-01	3.72E+00	3.27E+00	1.77E+01
1467	494561.06	3858501.99	2.08726	0.4851	0.94889	1.15113	5.536	1.144	0.5229	0.4851	1.46E+01	8.96E-01	9.88E-05	4.05E-02	1.73E+00	1.08E-01	3.71E+00	3.30E+00	1.77E+01
1468	494611.06	3858501.99	2.05933	0.47981	0.92305	1.14104	5.451	1.149	0.5196	0.47981	1.44E+01	8.86E-01	9.61E-05	4.02E-02	1.71E+00	1.08E-01	3.68E+00	3.26E+00	1.75E+01
1469	494661.06	3858501.99	2.04428	0.47697	0.90339	1.13112	5.387	1.181	0.515	0.47697	1.43E+01	8.81E-01	9.40E-05	3.98E-02	1.69E+00	1.11E-01	3.65E+00	3.24E+00	1.74E+01
1470	494711.06	3858501.99	2.01058	0.47557	0.8831	1.11902	5.306	1.201	0.5107	0.47557	1.40E+01	8.78E-01	9.19E-05	3.94E-02	1.66E+00	1.13E-01	3.62E+00	3.23E+00	1.71E+01
1471	494761.06	3858501.99	1.97116	0.47509	0.8695	1.10389	5.218	1.215	0.505	0.47509	1.37E+01	8.77E-01	9.05E-05	3.89E-02	1.63E+00	1.14E-01	3.58E+00	3.23E+00	1.68E+01
1472	494811.06	3858501.99	1.93559	0.47451	0.85705	1.08952	5.132	1.243	0.4997	0.47451	1.35E+01	8.76E-01	8.92E-05	3.83E-02	1.61E+00	1.17E-01	3.54E+00	3.23E+00	1.64E+01
1473	494861.06	3858501.99	1.91381	0.47383	0.84666	1.07595	5.055	1.275	0.4949	0.47383	1.33E+01	8.75E-01	8.81E-05	3.79E-02	1.58E+00	1.20E-01	3.51E+00	3.22E+00	1.62E+01
1474	494911.06	3858501.99	1.54218	0.47282	0.83224	1.04298	4.955	1.306	0.485	0.47282	1.08E+01	8.73E-01	8.66E-05	3.67E-02	1.55E+00	1.23E-01	3.44E+00	3.22E+00	1.36E+01
1475	494961.06	3858501.99	1.52079	0.47182	0.82198	1.03254	3.833	1.345	0.4795	0.47182	1.06E+01	8.71E-01	8.56E-05	3.63E-02	1.20E+00	1.26E-01	3.40E+00	3.21E+00	1.30E+01
1476	495011.06	3858501.99	1.48264	0.47049	0.81206	1.01858	3.767	1.383	0.4693	0.47049	1.03E+01	8.69E-01	8.45E-05	3.59E-02	1.18E+00	1.30E-01	3.33E+00	3.20E+00	1.27E+01
1477	495061.06	3858501.99	1.47006	0.46925	0.80699	1.01379	3.719	1.425	0.465	0.46925	1.02E+01	8.67E-01	8.40E-05	3.57E-02	1.17E+00	1.34E-01	3.29E+00	3.19E+00	1.26E+01
1478	495111.06	3858501.99	1.42243	0.4677	0.80027	0.97294	3.65	1.469	0.4553	0.4677	9.92E+00	8.64E-01	8.33E-05	3.42E-02	1.14E+00	1.38E-01	3.23E+00	3.18E+00	1.21E+01

1479	495161.06	3858501.99	1.40031	0.46616	0.79775	0.96857	3.607	1.522	0.4438	0.46616	9.76E+00	8.61E-01	8.31E-05	3.41E-02	1.13E+00	1.43E-01	3.14E+00	3.17E+00	1.19E+01
1480	495211.06	3858501.99	1.39189	0.46469	0.79471	0.96311	3.574	1.587	0.4351	0.46469	9.70E+00	8.58E-01	8.27E-05	3.39E-02	1.12E+00	1.49E-01	3.08E+00	3.16E+00	1.18E+01
1481	495261.06	3858501.99	1.38604	0.46266	0.79202	0.95833	3.544	1.657	0.4302	0.46266	9.66E+00	8.54E-01	8.25E-05	3.37E-02	1.11E+00	1.56E-01	3.05E+00	3.15E+00	1.17E+01
1482	495311.06	3858501.99	1.38266	0.4608	0.78981	0.95412	3.519	1.717	0.4283	0.4608	9.64E+00	8.51E-01	8.22E-05	3.36E-02	1.10E+00	1.61E-01	3.03E+00	3.13E+00	1.17E+01
1483	495361.06	3858501.99	1.37988	0.45924	0.78713	0.95031	3.493	1.782	0.4265	0.45924	9.62E+00	8.48E-01	8.19E-05	3.34E-02	1.09E+00	1.68E-01	3.02E+00	3.12E+00	1.17E+01
1484	495411.06	3858501.99	1.37797	0.45673	0.78437	0.94755	3.468	1.847	0.4247	0.45673	9.61E+00	8.44E-01	8.17E-05	3.34E-02	1.09E+00	1.74E-01	3.01E+00	3.11E+00	1.16E+01
1485	495461.06	3858501.99	1.37604	0.45455	0.78112	0.94469	3.442	1.914	0.4221	0.45455	9.59E+00	8.40E-01	8.13E-05	3.32E-02	1.08E+00	1.80E-01	2.99E+00	3.09E+00	1.16E+01
1486	495511.06	3858501.99	1.37394	0.45221	0.77973	0.93607	3.413	1.989	0.4197	0.45221	9.58E+00	8.35E-01	8.12E-05	3.29E-02	1.07E+00	1.87E-01	2.97E+00	3.07E+00	1.16E+01
1487	495561.06	3858501.99	1.37245	0.44988	0.77999	0.94069	3.392	2.051	0.4174	0.44988	9.57E+00	8.31E-01	8.12E-05	3.31E-02	1.06E+00	1.93E-01	2.96E+00	3.06E+00	1.16E+01
1488	495611.06	3858501.99	1.37043	0.44744	0.77023	0.9403	3.332	2.123	0.415	0.44744	9.55E+00	8.26E-01	8.02E-05	3.31E-02	1.04E+00	2.00E-01	2.94E+00	3.04E+00	1.16E+01
1489	495661.06	3858501.99	1.36798	0.44472	0.77522	0.92912	3.329	2.252	0.4123	0.44472	9.54E+00	8.21E-01	8.07E-05	3.27E-02	1.04E+00	2.12E-01	2.92E+00	3.02E+00	1.15E+01
1490	494311.06	3858551.99	2.16681	0.51884	1.04965	1.18697	5.946	1.171	0.5859	0.51884	1.51E+01	9.58E-01	1.09E-04	4.18E-02	1.86E+00	1.10E-01	4.15E+00	3.53E+00	1.87E+01
1491	494361.06	3858551.99	2.19034	0.51061	1.03859	1.18565	5.937	1.197	0.5775	0.51061	1.53E+01	9.43E-01	1.08E-04	4.17E-02	1.86E+00	1.13E-01	4.09E+00	3.47E+00	1.88E+01
1492	494411.06	3858551.99	2.21449	0.50168	1.03812	1.18098	5.994	1.211	0.5666	0.50168	1.54E+01	9.27E-01	1.08E-04	4.16E-02	1.88E+00	1.14E-01	4.01E+00	3.41E+00	1.90E+01
1493	494461.06	3858551.99	2.21393	0.49167	1.03169	1.1755	5.966	1.227	0.5545	0.49167	1.54E+01	9.08E-01	1.07E-04	4.14E-02	1.87E+00	1.15E-01	3.93E+00	3.34E+00	1.90E+01
1494	494511.06	3858551.99	2.19836	0.49141	1.02135	1.16854	5.911	1.231	0.5412	0.49141	1.53E+01	9.08E-01	1.06E-04	4.11E-02	1.85E+00	1.16E-01	3.83E+00	3.34E+00	1.87E+01
1495	494561.06	3858551.99	2.18698	0.49172	1.01101	1.16122	5.857	1.235	0.5308	0.49172	1.52E+01	9.08E-01	1.05E-04	4.09E-02	1.84E+00	1.16E-01	3.76E+00	3.34E+00	1.86E+01
1496	494611.06	3858551.99	2.16594	0.49129	1.00716	1.15031	5.784	1.229	0.5277	0.49129	1.51E+01	9.07E-01	1.05E-04	4.05E-02	1.81E+00	1.16E-01	3.74E+00	3.34E+00	1.84E+01
1497	494661.06	3858551.99	2.14826	0.49101	1.00258	1.14031	5.712	1.25	0.5251	0.49101	1.50E+01	9.07E-01	1.04E-04	4.01E-02	1.79E+00	1.17E-01	3.72E+00	3.34E+00	1.82E+01
1498	494711.06	3858551.99	2.10875	0.48956	0.91799	1.12562	5.605	1.273	0.5211	0.48956	1.47E+01	9.04E-01	9.56E-05	3.96E-02	1.76E+00	1.20E-01	3.69E+00	3.33E+00	1.79E+01
1499	494761.06	3858551.99	2.06949	0.48362	0.90765	1.10968	5.495	1.283	0.5181	0.48362	1.44E+01	8.93E-01	9.45E-05	3.91E-02	1.72E+00	1.21E-01	3.67E+00	3.29E+00	1.76E+01
1500	494811.06	3858551.99	2.04099	0.4779	0.89988	1.09834	5.402	1.293	0.5127	0.4779	1.42E+01	8.83E-01	9.37E-05	3.87E-02	1.69E+00	1.22E-01	3.63E+00	3.25E+00	1.73E+01
1501	494861.06	3858551.99	2.00159	0.47422	0.8924	1.08629	5.323	1.314	0.5075	0.47422	1.40E+01	8.76E-01	9.29E-05	3.82E-02	1.67E+00	1.24E-01	3.60E+00	3.22E+00	1.70E+01
1502	494911.06	3858551.99	1.95543	0.47386	0.88235	1.07143	5.237	1.348	0.5018	0.47386	1.36E+01	8.75E-01	9.19E-05	3.77E-02	1.64E+00	1.27E-01	3.56E+00	3.22E+00	1.66E+01
1503	494961.06	3858551.99	1.92107	0.47288	0.87446	1.05912	5.159	1.384	0.4956	0.47288	1.34E+01	8.73E-01	9.10E-05	3.73E-02	1.62E+00	1.30E-01	3.51E+00	3.22E+00	1.63E+01
1504	495011.06	3858551.99	1.87452	0.47193	0.86311	1.03151	5.07	1.417	0.4868	0.47193	1.31E+01	8.72E-01	8.99E-05	3.63E-02	1.59E+00	1.33E-01	3.45E+00	3.21E+00	1.59E+01
1505	495061.06	3858551.99	1.53355	0.47093	0.85604	1.02327	4.996	1.455	0.4803	0.47093	1.07E+01	8.70E-01	8.91E-05	3.60E-02	1.57E+00	1.37E-01	3.40E+00	3.20E+00	1.35E+01
1506	495111.06	3858551.99	1.4846	0.46955	0.84145	1.00785	3.849	1.495	0.4687	0.46955	1.04E+01	8.67E-01	8.76E-05	3.55E-02	1.21E+00	1.41E-01	3.32E+00	3.19E+00	1.27E+01
1507	495161.06	3858551.99	1.45491	0.4685	0.83083	0.98689	3.779	1.558	0.4612	0.4685	1.01E+01	8.65E-01	8.65E-05	3.47E-02	1.18E+00	1.46E-01	3.27E+00	3.19E+00	1.25E+01
1508	495211.06	3858551.99	1.42963	0.46684	0.82022	0.96433	3.716	1.628	0.4554	0.46684	9.97E+00	8.62E-01	8.54E-05	3.39E-02	1.16E+00	1.53E-01	3.23E+00	3.17E+00	1.22E+01
1509	495261.06	3858551.99	1.41377	0.46535	0.81148	0.95395	3.669	1.692	0.4481	0.46535	9.86E+00	8.59E-01	8.45E-05	3.36E-02	1.15E+00	1.59E-01	3.17E+00	3.16E+00	1.21E+01
1510	495311.06	3858551.99	1.40862	0.4638	0.80572	0.95014	3.626	1.753	0.4442	0.4638	9.82E+00	8.57E-01	8.39E-05	3.34E-02	1.14E+00	1.65E-01	3.15E+00	3.15E+00	1.20E+01
1511	495361.06	3858551.99	1.4036	0.46209	0.79924	0.9454	3.582	1.817	0.4419	0.46209	9.79E+00	8.53E-01	8.32E-05	3.33E-02	1.12E+00	1.71E-01	3.13E+00	3.14E+00	1.20E+01
1512	495411.06	3858551.99	1.4036	0.4603	0.79368	0.94298	3.553	1.873	0.4405	0.4603	9.79E+00	8.50E-01	8.26E-05	3.32E-02	1.11E+00	1.76E-01	3.12E+00	3.13E+00	1.19E+01
1513	495461.06	3858551.99	1.40035	0.45837	0.78892	0.9396	3.534	1.942	0.4382	0.45837	9.76E+00	8.47E-01	8.21E-05	3.31E-02	1.11E+00	1.83E-01	3.10E+00	3.12E+00	1.19E+01
1514	495511.06	3858551.99	1.40077	0.45635	0.78575	0.93745	3.517	2.014	0.4368	0.45635	9.77E+00	8.43E-01	8.18E-05	3.30E-02	1.10E+00	1.89E-01	3.09E+00	3.10E+00	1.19E+01
1515	495561.06	3858551.99	1.39732	0.45419	0.78134	0.93517	3.495	2.116	0.4342	0.45419	9.74E+00	8.39E-01	8.13E-05	3.29E-02	1.10E+00	1.99E-01	3.08E+00	3.09E+00	1.19E+01
1516	495611.06	3858551.99	1.39189	0.45191	0.77805	0.93285	3.471	2.223	0.4308	0.45191	9.70E+00	8.35E-01	8.10E-05	3.28E-02	1.09E+00	2.09E-01	3.05E+00	3.07E+00	1.18E+01
1517	495661.06	3858551.99	1.3859	0.44972	0.77656	0.93022	3.444	2.358	0.4257	0.44972	9.66E+00	8.31E-01	8.08E-05	3.27E-02	1.08E+00	2.22E-01	3.02E+00	3.06E+00	1.18E+01
1518	494311.06	3858601.99	2.07266	0.51352	0.96214	1.14918	5.844	1.135	0.5885	0.51352	1.44E+01	9.48E-01	1.00E-04	4.04E-02	1.83E+00	1.07E-01	4.17E+00	3.49E+00	1.81E+01
1519	494361.06	3858601.99	2.22034	0.53221	1.0456	1.1778	5.99	1.247	0.6017	0.53221	1.55E+01	9.83E-01	1.09E-04	4.15E-02	1.88E+00	1.17E-01	4.26E+00	3.62E+00	1.91E+01
1520	494411.06	3858601.99	2.32658	0.52968	1.08575	1.18108	6.205	1.33	0.5991	0.52968	1.62E+01	9.78E-01	1.13E-04	4.16E-02	1.94E+00	1.25E-01	4.24E+00	3.60E+00	2.00E+01
1521	494461.06	3858601.99	2.32303	0.51835	1.08895	1.17609	6.161	1.346	0.5861	0.51835	1.62E+01	9.57E-01	1.13E-04	4.14E-02	1.93E+00	1.27E-01	4.15E+00	3.52E+00	1.99E+01
1522	494511.06	3858601.99	2.29865	0.50585	1.07493	1.16971	6.084	1.351	0.5712	0.50585	1.60E+01	9.34E-01	1.12E-04	4.12E-02	1.91E+00	1.27E-01	4.05E+00	3.44E+00	1.96E+01
1523	494561.06	3858601.99	2.30041	0.49586	1.09007	1.16427	6.096	1.363	0.5597	0.49586	1.60E+01	9.16E-01	1.13E-04	4.10E-02	1.91E+00	1.28E-01	3.97E+00	3.37E+00	1.96E+01
1524	494611.06	3858601.99	2.26843	0.49178	1.0838	1.15569	6.028	1.353	0.545	0.49178	1.58E+01	9.08E-01	1.13E-04	4.07E-02	1.89E+00	1.27E-01	3.86E+00	3.34E+00	1.93E+01
1525	494661.06	3858601.99	2.24698	0.49169	1.07868	1.14846	5.972	1.346	0.5331	0.49169	1.57E+01	9.08E-01	1.12E-04	4.04E-02	1.87E+00	1.26E-01	3.78E+00	3.34E+00	1.90E+01
1526	494711.06	3858601.99	2.21012	0.49173	1.06621	1.13961	5.887	1.354	0.5305	0.49173	1.54E+01	9.08E-01	1.11E-04	4.01E-02	1.84E+00	1.27E-01	3.76E+00	3.34E+00	1.87E+01
1527	494761.06	3858601.99	2.17312	0.49155	1.05194	1.1301	5.799	1.356	0.5267	0.49155	1.52E+01	9.08E-01	1.10E-04	3.98E-02	1.82E+00	1.28E-01	3.73E+00	3.34E+00	1.84E+01
1528	494811.06	3858601.99	2.11433	0.48936	0.9761	1.11278	5.674	1.356	0.5215	0.48936	1.47E+01	9.04E-01	1.02E-04	3.92E-02	1.78E+00	1.28E-01	3.70E+00	3.33E+00	1.80E+01
1529	494861.06	3858601.99	2.08603	0.48657	0.96456	1.10193	5.593	1.37	0.5187	0.48657	1.45E+01	8.99E-01	1.00E-04	3.88E-02	1.75E+00	1.29E-01	3.67E+00	3.31E+00	1.77E+01
1530	494911.06	3858601.99	2.03103	0.47729	0.9427	1.08696	5.469	1.379	0.5122	0.47729	1.42E+01	8.82E-01	9.81E-05	3.83E-02	1.71E+00	1.30E-01	3.63E+00	3.25E+00	1.73E+01
1531	494961.06	3858601.99	1.9948	0.47328	0.92601	1.07507	5.37	1.411	0.5073	0.47328	1.39E+01	8.74E-01	9.64E-05	3.78E-02	1.68E+00	1.33E-01	3.59E+00	3.22E+00	1.70E+01
1532	495011.06	3858601.99	1.95674	0.47268	0.90797	1.06216	5.296	1.445	0.5014	0.47268	1.36E+01	8.73E-01	9.45E-05	3.74E-02	1.66E+00	1.36E-01	3.55E+00	3.21E+00	1.67E+01
1533	495061.06	3858601.99	1.91675	0.47197	0.89597	1.04715	5.222	1.485	0.4947	0.47197	1.34E+01	8.72E-01	9.33E-05	3.69E-02	1.64E+00	1.40E-01	3.51E+00	3.21E+00	1.63E+01
1534	495111.06	3858601.99	1.54445	0.47095	0.88247	1.01816	5.129	1.544	0.4835	0.47095	1.08E+01	8.70E-01	9.19E-05	3.58E-02	1.61E+00	1.45E-01	3.43E+00	3.20E+00	1.36E+01
1535	495161.06	3858601.99	1.51807	0.46993	0.87533	1.01266	3.991	1.607	0.4762	0.46993	1.06E+01	8.68E-01	9.11E-05	3.56E-02	1.25E+00	1.51E-01	3.37E+00	3.20E+00	1.31E+01

1536	495211.06	3858601.99	1.50279	0.46881	0.87031	1.00671	3.939	1.668	0.4708	0.46881	1.05E+01	8.66E-01	9.06E-05	3.54E-02	1.23E+00	1.57E-01	3.34E+00	3.19E+00	1.29E+01
1537	495261.06	3858601.99	1.48446	0.46754	0.86374	0.99635	3.883	1.727	0.4654	0.46754	1.03E+01	8.64E-01	8.99E-05	3.51E-02	1.22E+00	1.62E-01	3.30E+00	3.18E+00	1.27E+01
1538	495311.06	3858601.99	1.47258	0.46623	0.85812	0.98855	3.831	1.79	0.4616	0.46623	1.03E+01	8.61E-01	8.93E-05	3.48E-02	1.20E+00	1.68E-01	3.27E+00	3.17E+00	1.26E+01
1539	495361.06	3858601.99	1.46809	0.46482	0.85712	0.98531	3.784	1.847	0.458	0.46482	1.02E+01	8.58E-01	8.92E-05	3.47E-02	1.19E+00	1.74E-01	3.24E+00	3.16E+00	1.26E+01
1540	495411.06	3858601.99	1.46359	0.46329	0.85628	0.9818	3.736	1.918	0.4543	0.46329	1.02E+01	8.56E-01	8.91E-05	3.46E-02	1.17E+00	1.80E-01	3.22E+00	3.15E+00	1.25E+01
1541	495461.06	3858601.99	1.46104	0.46165	0.85516	0.97924	3.689	2.005	0.4527	0.46165	1.02E+01	8.53E-01	8.90E-05	3.45E-02	1.16E+00	1.88E-01	3.21E+00	3.14E+00	1.25E+01
1542	495511.06	3858601.99	1.44847	0.45982	0.85135	0.97192	3.632	2.1	0.45	0.45982	1.01E+01	8.49E-01	8.86E-05	3.42E-02	1.14E+00	1.97E-01	3.19E+00	3.13E+00	1.24E+01
1543	495561.06	3858601.99	1.45014	0.45796	0.85185	0.97243	3.594	2.202	0.4487	0.45796	1.01E+01	8.46E-01	8.87E-05	3.42E-02	1.13E+00	2.07E-01	3.18E+00	3.11E+00	1.24E+01
1544	495611.06	3858601.99	1.43428	0.45589	0.85053	0.95504	3.548	2.332	0.4455	0.45589	1.00E+01	8.42E-01	8.85E-05	3.36E-02	1.11E+00	2.19E-01	3.16E+00	3.10E+00	1.23E+01
1545	495661.06	3858601.99	1.433	0.45379	0.85114	0.95411	3.516	2.456	0.4441	0.45379	9.99E+00	8.38E-01	8.86E-05	3.36E-02	1.10E+00	2.31E-01	3.15E+00	3.09E+00	1.23E+01
1546	494311.06	3858651.99	2.09862	0.5382	1.01174	1.13856	5.767	1.177	0.6117	0.5382	1.46E+01	9.94E-01	1.05E-04	4.01E-02	1.81E+00	1.11E-01	4.33E+00	3.66E+00	1.83E+01
1547	494361.06	3858651.99	2.24054	0.55389	1.07596	1.17197	6.007	1.293	0.6246	0.55389	1.56E+01	1.02E+00	1.12E-04	4.12E-02	1.88E+00	1.22E-01	4.43E+00	3.77E+00	1.93E+01
1548	494411.06	3858651.99	2.40459	0.5567	1.09766	1.18394	6.379	1.436	0.6292	0.5567	1.68E+01	1.03E+00	1.14E-04	4.17E-02	2.00E+00	1.35E-01	4.46E+00	3.79E+00	2.06E+01
1549	494461.06	3858651.99	2.41774	0.54651	1.18198	1.18004	6.498	1.452	0.6173	0.54651	1.69E+01	1.01E+00	1.23E-04	4.15E-02	2.04E+00	1.36E-01	4.37E+00	3.72E+00	2.07E+01
1550	494511.06	3858651.99	2.40037	0.53356	1.17193	1.17489	6.437	1.459	0.6025	0.53356	1.67E+01	9.85E-01	1.22E-04	4.14E-02	2.02E+00	1.37E-01	4.27E+00	3.63E+00	2.06E+01
1551	494561.06	3858651.99	2.39097	0.52138	1.16287	1.16987	6.394	1.469	0.5889	0.52138	1.67E+01	9.63E-01	1.21E-04	4.12E-02	2.00E+00	1.38E-01	4.17E+00	3.55E+00	2.04E+01
1552	494611.06	3858651.99	2.37424	0.50939	1.14916	1.16328	6.322	1.474	0.5748	0.50939	1.66E+01	9.41E-01	1.20E-04	4.09E-02	1.98E+00	1.39E-01	4.07E+00	3.46E+00	2.03E+01
1553	494661.06	3858651.99	2.34487	0.49704	1.12911	1.1564	6.209	1.465	0.5601	0.49704	1.63E+01	9.18E-01	1.18E-04	4.07E-02	1.95E+00	1.38E-01	3.97E+00	3.38E+00	2.00E+01
1554	494711.06	3858651.99	2.30195	0.49136	1.10275	1.14843	6.058	1.46	0.5447	0.49136	1.60E+01	9.08E-01	1.15E-04	4.04E-02	1.90E+00	1.37E-01	3.86E+00	3.34E+00	1.96E+01
1555	494761.06	3858651.99	2.2692	0.49186	1.07903	1.13978	5.989	1.491	0.5343	0.49186	1.58E+01	9.08E-01	1.12E-04	4.01E-02	1.88E+00	1.40E-01	3.79E+00	3.34E+00	1.92E+01
1556	494811.06	3858651.99	2.21756	0.49149	1.04849	1.13053	5.894	1.441	0.5312	0.49149	1.55E+01	9.08E-01	1.09E-04	3.98E-02	1.85E+00	1.35E-01	3.76E+00	3.34E+00	1.88E+01
1557	494861.06	3858651.99	2.17002	0.49127	1.02539	1.11977	5.803	1.435	0.527	0.49127	1.51E+01	9.07E-01	1.07E-04	3.94E-02	1.82E+00	1.35E-01	3.73E+00	3.34E+00	1.84E+01
1558	494911.06	3858651.99	2.11626	0.48898	0.98053	1.10249	5.699	1.436	0.5218	0.48898	1.48E+01	9.03E-01	1.02E-04	3.88E-02	1.79E+00	1.35E-01	3.70E+00	3.32E+00	1.80E+01
1559	494961.06	3858651.99	2.06794	0.48496	0.96632	1.08723	5.601	1.446	0.5184	0.48496	1.44E+01	8.96E-01	1.01E-04	3.83E-02	1.75E+00	1.36E-01	3.67E+00	3.30E+00	1.76E+01
1560	495011.06	3858651.99	2.03211	0.47963	0.95408	1.07605	5.517	1.483	0.5131	0.47963	1.42E+01	8.86E-01	9.93E-05	3.79E-02	1.73E+00	1.39E-01	3.64E+00	3.26E+00	1.73E+01
1561	495061.06	3858651.99	1.99036	0.47244	0.93977	1.06296	5.422	1.531	0.507	0.47244	1.39E+01	8.73E-01	9.78E-05	3.74E-02	1.70E+00	1.44E-01	3.59E+00	3.21E+00	1.70E+01
1562	495111.06	3858651.99	1.94035	0.47209	0.92615	1.04718	5.311	1.584	0.4998	0.47209	1.35E+01	8.72E-01	9.64E-05	3.69E-02	1.66E+00	1.49E-01	3.54E+00	3.21E+00	1.66E+01
1563	495161.06	3858651.99	1.9142	0.47116	0.91876	1.03445	5.254	1.667	0.4942	0.47116	1.33E+01	8.70E-01	9.56E-05	3.64E-02	1.65E+00	1.57E-01	3.50E+00	3.20E+00	1.64E+01
1564	495211.06	3858651.99	1.88239	0.47029	0.90959	1.0139	5.191	1.706	0.4865	0.47029	1.31E+01	8.69E-01	9.47E-05	3.57E-02	1.63E+00	1.60E-01	3.45E+00	3.20E+00	1.61E+01
1565	495261.06	3858651.99	1.87631	0.46942	0.90708	1.00999	5.151	1.753	0.4835	0.46942	1.31E+01	8.67E-01	9.44E-05	3.55E-02	1.61E+00	1.65E-01	3.43E+00	3.19E+00	1.60E+01
1566	495311.06	3858651.99	1.54849	0.46863	0.90513	1.00679	5.1	1.828	0.4788	0.46863	1.08E+01	8.66E-01	9.42E-05	3.54E-02	1.60E+00	1.72E-01	3.39E+00	3.19E+00	1.37E+01
1567	495361.06	3858651.99	1.54233	0.46724	0.90391	1.0036	5.054	1.908	0.4759	0.46724	1.08E+01	8.63E-01	9.41E-05	3.53E-02	1.58E+00	1.79E-01	3.37E+00	3.18E+00	1.36E+01
1568	495411.06	3858651.99	1.53997	0.466	0.90278	1.00103	5.01	1.988	0.4729	0.466	1.07E+01	8.61E-01	9.40E-05	3.52E-02	1.57E+00	1.87E-01	3.35E+00	3.17E+00	1.36E+01
1569	495461.06	3858651.99	1.54309	0.46467	0.90194	1.00168	4.968	2.075	0.4713	0.46467	1.08E+01	8.58E-01	9.39E-05	3.53E-02	1.56E+00	1.95E-01	3.34E+00	3.16E+00	1.36E+01
1570	495511.06	3858651.99	1.52582	0.46309	0.8973	0.99792	4.906	2.181	0.4659	0.46309	1.06E+01	8.55E-01	9.34E-05	3.51E-02	1.54E+00	2.05E-01	3.30E+00	3.15E+00	1.34E+01
1571	495561.06	3858651.99	1.51536	0.46143	0.89319	0.99466	3.818	2.294	0.4623	0.46143	1.06E+01	8.52E-01	9.30E-05	3.50E-02	1.20E+00	2.16E-01	3.28E+00	3.14E+00	1.30E+01
1572	495611.06	3858651.99	1.49541	0.45956	0.88715	0.98862	3.76	2.416	0.457	0.45956	1.04E+01	8.49E-01	9.24E-05	3.48E-02	1.18E+00	2.27E-01	3.24E+00	3.12E+00	1.28E+01
1573	495661.06	3858651.99	1.49338	0.45771	0.88358	0.98826	3.715	2.538	0.4558	0.45771	1.04E+01	8.45E-01	9.20E-05	3.48E-02	1.16E+00	2.39E-01	3.23E+00	3.11E+00	1.28E+01
1574	494311.06	3858701.99	2.18504	0.59278	1.12805	1.14063	5.789	1.228	0.6437	0.59278	1.52E+01	1.09E+00	1.17E-04	4.01E-02	1.81E+00	1.15E-01	4.56E+00	4.03E+00	1.88E+01
1575	494361.06	3858701.99	2.38855	0.60514	1.10497	1.1797	6.193	1.47	0.662	0.60514	1.67E+01	1.12E+00	1.15E-04	4.15E-02	1.94E+00	1.38E-01	4.69E+00	4.11E+00	2.05E+01
1576	494411.06	3858701.99	2.49487	0.60036	1.12889	1.18506	6.547	1.581	0.6609	0.60036	1.74E+01	1.11E+00	1.18E-04	4.17E-02	2.05E+00	1.49E-01	4.68E+00	4.08E+00	2.13E+01
1577	494461.06	3858701.99	2.49663	0.58044	1.12002	1.182	6.589	1.6	0.6477	0.58044	1.74E+01	1.07E+00	1.17E-04	4.16E-02	2.06E+00	1.50E-01	4.59E+00	3.95E+00	2.14E+01
1578	494511.06	3858701.99	2.49189	0.56287	1.18596	1.17738	6.679	1.597	0.6341	0.56287	1.74E+01	1.04E+00	1.23E-04	4.14E-02	2.09E+00	1.50E-01	4.49E+00	3.83E+00	2.14E+01
1579	494561.06	3858701.99	2.47591	0.54914	1.16209	1.17268	6.648	1.588	0.6195	0.54914	1.73E+01	1.01E+00	1.21E-04	4.13E-02	2.08E+00	1.49E-01	4.39E+00	3.73E+00	2.12E+01
1580	494611.06	3858701.99	2.42575	0.53302	1.13109	1.16586	6.502	1.55	0.6012	0.53302	1.69E+01	9.84E-01	1.18E-04	4.10E-02	2.04E+00	1.46E-01	4.26E+00	3.62E+00	2.08E+01
1581	494661.06	3858701.99	2.42476	0.5219	1.11839	1.16162	6.503	1.578	0.5885	0.5219	1.69E+01	9.64E-01	1.16E-04	4.09E-02	2.04E+00	1.48E-01	4.17E+00	3.55E+00	2.07E+01
1582	494711.06	3858701.99	2.30837	0.50248	1.07162	1.14799	6.164	1.495	0.5654	0.50248	1.61E+01	9.28E-01	1.12E-04	4.04E-02	1.93E+00	1.41E-01	4.01E+00	3.42E+00	1.97E+01
1583	494761.06	3858701.99	2.33728	0.49465	1.06827	1.14587	6.23	1.618	0.5568	0.49465	1.63E+01	9.14E-01	1.11E-04	4.03E-02	1.95E+00	1.52E-01	3.95E+00	3.36E+00	1.99E+01
1584	494811.06	3858701.99	2.28545	0.49107	1.0446	1.1367	6.07	1.548	0.5407	0.49107	1.59E+01	9.07E-01	1.09E-04	4.00E-02	1.90E+00	1.46E-01	3.83E+00	3.34E+00	1.94E+01
1585	494861.06	3858701.99	2.24428	0.49119	1.02385	1.12747	5.936	1.519	0.5338	0.49119	1.56E+01	9.07E-01	1.07E-04	3.97E-02	1.86E+00	1.43E-01	3.78E+00	3.34E+00	1.90E+01
1586	494911.06	3858701.99	2.20903	0.49125	1.01176	1.11969	5.837	1.509	0.5314	0.49125	1.54E+01	9.07E-01	1.05E-04	3.94E-02	1.83E+00	1.42E-01	3.77E+00	3.34E+00	1.87E+01
1587	494961.06	3858701.99	2.13242	0.4884	0.99258	1.09956	5.716	1.496	0.5249	0.4884	1.49E+01	9.02E-01	1.03E-04	3.87E-02	1.79E+00	1.41E-01	3.72E+00	3.32E+00	1.81E+01
1588	495011.06	3858701.99	2.08592	0.48695	0.98412	1.08445	5.639	1.522	0.5213	0.48695	1.45E+01	8.99E-01	1.02E-04	3.82E-02	1.77E+00	1.43E-01	3.69E+00	3.31E+00	1.78E+01
1589	495061.06	3858701.99	2.06846	0.48508	0.98594	1.07567	5.599	1.57	0.5186	0.48508	1.44E+01	8.96E-01	1.03E-04	3.79E-02	1.75E+00	1.48E-01	3.67E+00	3.30E+00	1.76E+01
1590	495111.06	3858701.99	2.0129	0.47212	0.96911	1.06098	5.5	1.663	0.5109	0.47212	1.40E+01	8.72E-01	1.01E-04	3.73E-02	1.72E+00	1.56E-01	3.62E+00	3.21E+00	1.72E+01
1591	495161.06	3858701.99	1.98858	0.47205	0.96257	1.05096	5.442	1.736	0.5071	0.47205	1.39E+01	8.72E-01	1.00E-04	3.70E-02	1.71E+00	1.63E-01	3.59E+00	3.21E+00	1.70E+01
1592	495211.06	3858701.99	1.95377	0.47119	0.95383	1.03895	5.365	1.769	0.5011	0.47119	1.36E+01	8.70E-01	9.93E-05	3.66E-02	1.68E+00	1.66E-01	3.55E+00	3.20E+00	1.67E+01

1593	495261.06	3858701.99	1.94917	0.47061	0.9493	1.03286	5.329	1.82	0.4984	0.47061	1.36E+01	8.69E-01	9.88E-05	3.64E-02	1.67E+00	1.71E-01	3.53E+00	3.20E+00	1.67E+01
1594	495311.06	3858701.99	1.9459	0.46991	0.94438	1.02811	5.291	1.895	0.4955	0.46991	1.36E+01	8.68E-01	9.83E-05	3.62E-02	1.66E+00	1.78E-01	3.51E+00	3.20E+00	1.66E+01
1595	495361.06	3858701.99	1.93539	0.46906	0.93902	1.02106	5.239	1.973	0.4922	0.46906	1.35E+01	8.66E-01	9.78E-05	3.59E-02	1.64E+00	1.85E-01	3.49E+00	3.19E+00	1.65E+01
1596	495411.06	3858701.99	1.93792	0.46838	0.93586	1.02037	5.202	2.066	0.4898	0.46838	1.35E+01	8.65E-01	9.74E-05	3.59E-02	1.63E+00	1.94E-01	3.47E+00	3.18E+00	1.65E+01
1597	495461.06	3858701.99	1.93168	0.46701	0.93096	1.0197	5.163	2.162	0.4869	0.46701	1.35E+01	8.63E-01	9.69E-05	3.59E-02	1.62E+00	2.03E-01	3.45E+00	3.18E+00	1.65E+01
1598	495511.06	3858701.99	1.9185	0.46576	0.92464	1.01741	5.117	2.261	0.4829	0.46576	1.34E+01	8.60E-01	9.63E-05	3.58E-02	1.60E+00	2.13E-01	3.42E+00	3.17E+00	1.63E+01
1599	495561.06	3858701.99	1.90089	0.46438	0.91999	1.01321	5.065	2.373	0.4782	0.46438	1.33E+01	8.58E-01	9.58E-05	3.57E-02	1.59E+00	2.23E-01	3.39E+00	3.16E+00	1.62E+01
1600	495611.06	3858701.99	1.88284	0.46287	0.91598	1.00131	5.011	2.498	0.4729	0.46287	1.31E+01	8.55E-01	9.54E-05	3.52E-02	1.57E+00	2.35E-01	3.35E+00	3.15E+00	1.60E+01
1601	495661.06	3858701.99	1.87448	0.46126	0.91287	0.99783	4.962	2.645	0.4693	0.46126	1.31E+01	8.52E-01	9.50E-05	3.51E-02	1.55E+00	2.49E-01	3.33E+00	3.14E+00	1.59E+01
1602	494311.06	3858751.99	2.29054	0.64763	1.12573	1.1612	5.705	1.373	0.6924	0.64763	1.60E+01	1.20E+00	1.17E-04	4.09E-02	1.79E+00	1.29E-01	4.91E+00	4.40E+00	1.96E+01
1603	494361.06	3858751.99	2.5146	0.66171	1.13811	1.19189	6.285	1.69	0.7085	0.66171	1.75E+01	1.22E+00	1.18E-04	4.19E-02	1.97E+00	1.59E-01	5.02E+00	4.50E+00	2.14E+01
1604	494411.06	3858751.99	2.58765	0.65159	1.15099	1.20423	6.599	1.728	0.6976	0.65159	1.80E+01	1.20E+00	1.20E-04	4.24E-02	2.07E+00	1.62E-01	4.94E+00	4.43E+00	2.20E+01
1605	494461.06	3858751.99	2.58698	0.6377	1.13958	1.19556	6.671	1.718	0.6795	0.6377	1.80E+01	1.18E+00	1.19E-04	4.21E-02	2.09E+00	1.62E-01	4.81E+00	4.34E+00	2.20E+01
1606	494511.06	3858751.99	2.5869	0.62266	1.16242	1.18987	6.809	1.73	0.667	0.62266	1.80E+01	1.15E+00	1.21E-04	4.19E-02	2.13E+00	1.63E-01	4.73E+00	4.23E+00	2.20E+01
1607	494561.06	3858751.99	2.56428	0.60391	1.13842	1.17847	6.742	1.752	0.6506	0.60391	1.79E+01	1.12E+00	1.19E-04	4.15E-02	2.11E+00	1.65E-01	4.61E+00	4.11E+00	2.18E+01
1608	494611.06	3858751.99	2.52319	0.56877	1.11823	1.17171	6.667	1.743	0.6335	0.56877	1.76E+01	1.05E+00	1.16E-04	4.12E-02	2.09E+00	1.64E-01	4.49E+00	3.87E+00	2.16E+01
1609	494661.06	3858751.99	2.50075	0.55193	1.09053	1.16695	6.588	1.729	0.6183	0.55193	1.74E+01	1.02E+00	1.14E-04	4.11E-02	2.06E+00	1.63E-01	4.38E+00	3.75E+00	2.14E+01
1610	494711.06	3858751.99	2.43992	0.53196	1.08045	1.15902	6.424	1.688	0.5992	0.53196	1.70E+01	9.82E-01	1.12E-04	4.08E-02	2.01E+00	1.59E-01	4.25E+00	3.62E+00	2.08E+01
1611	494761.06	3858751.99	2.4184	0.51938	1.08559	1.15306	6.449	1.79	0.5849	0.51938	1.69E+01	9.59E-01	1.13E-04	4.06E-02	2.02E+00	1.68E-01	4.14E+00	3.53E+00	2.07E+01
1612	494811.06	3858751.99	2.36299	0.50499	1.07732	1.14366	6.297	1.676	0.5675	0.50499	1.65E+01	9.33E-01	1.12E-04	4.03E-02	1.97E+00	1.58E-01	4.02E+00	3.43E+00	2.02E+01
1613	494861.06	3858751.99	2.31341	0.49128	1.07419	1.1353	6.162	1.645	0.5514	0.49128	1.61E+01	9.07E-01	1.12E-04	4.00E-02	1.93E+00	1.55E-01	3.91E+00	3.34E+00	1.97E+01
1614	494911.06	3858751.99	2.25645	0.49082	1.06939	1.12378	6.007	1.586	0.536	0.49082	1.57E+01	9.07E-01	1.11E-04	3.96E-02	1.88E+00	1.49E-01	3.80E+00	3.34E+00	1.92E+01
1615	494961.06	3858751.99	2.21666	0.49098	1.06682	1.1158	5.893	1.574	0.5335	0.49098	1.55E+01	9.07E-01	1.11E-04	3.93E-02	1.85E+00	1.48E-01	3.78E+00	3.34E+00	1.88E+01
1616	495011.06	3858751.99	2.19079	0.49113	1.06634	1.108	5.811	1.599	0.5318	0.49113	1.53E+01	9.07E-01	1.11E-04	3.90E-02	1.82E+00	1.50E-01	3.77E+00	3.34E+00	1.86E+01
1617	495061.06	3858751.99	2.1486	0.49054	1.06267	1.09355	5.69	1.645	0.5262	0.49054	1.50E+01	9.06E-01	1.11E-04	3.85E-02	1.78E+00	1.55E-01	3.73E+00	3.34E+00	1.83E+01
1618	495111.06	3858751.99	2.09763	0.48741	1.0572	1.07681	5.611	1.788	0.5218	0.48741	1.46E+01	9.00E-01	1.10E-04	3.79E-02	1.76E+00	1.68E-01	3.70E+00	3.31E+00	1.79E+01
1619	495161.06	3858751.99	2.07054	0.4852	1.055	1.06527	5.567	1.829	0.5187	0.4852	1.44E+01	8.96E-01	1.10E-04	3.75E-02	1.74E+00	1.72E-01	3.68E+00	3.30E+00	1.77E+01
1620	495211.06	3858751.99	2.034	0.48117	1.05152	1.05408	5.509	1.851	0.5129	0.48117	1.42E+01	8.89E-01	1.09E-04	3.71E-02	1.73E+00	1.74E-01	3.63E+00	3.27E+00	1.74E+01
1621	495261.06	3858751.99	2.02729	0.48015	1.05086	1.04832	5.488	1.885	0.5101	0.48015	1.41E+01	8.87E-01	1.09E-04	3.69E-02	1.72E+00	1.77E-01	3.61E+00	3.26E+00	1.73E+01
1622	495311.06	3858751.99	2.0239	0.47958	1.05154	1.04358	5.469	1.994	0.5078	0.47958	1.41E+01	8.86E-01	1.09E-04	3.67E-02	1.71E+00	1.87E-01	3.60E+00	3.26E+00	1.73E+01
1623	495361.06	3858751.99	2.01363	0.47696	1.05593	1.0383	5.437	2.093	0.5047	0.47696	1.40E+01	8.81E-01	1.10E-04	3.65E-02	1.70E+00	1.97E-01	3.58E+00	3.24E+00	1.72E+01
1624	495411.06	3858751.99	2.01926	0.4793	1.06265	1.03412	5.424	2.192	0.5026	0.4793	1.41E+01	8.85E-01	1.11E-04	3.64E-02	1.70E+00	2.06E-01	3.56E+00	3.26E+00	1.72E+01
1625	495461.06	3858751.99	2.01199	0.47686	1.06752	1.02983	5.388	2.28	0.4996	0.47686	1.40E+01	8.81E-01	1.11E-04	3.62E-02	1.69E+00	2.14E-01	3.54E+00	3.24E+00	1.71E+01
1626	495511.06	3858751.99	1.99752	0.47169	0.96591	1.02626	5.338	2.365	0.4963	0.47169	1.39E+01	8.71E-01	1.01E-04	3.61E-02	1.67E+00	2.22E-01	3.52E+00	3.21E+00	1.70E+01
1627	495561.06	3858751.99	1.98007	0.46681	0.96027	1.02165	5.28	2.475	0.4923	0.46681	1.38E+01	8.62E-01	1.00E-04	3.60E-02	1.65E+00	2.33E-01	3.49E+00	3.17E+00	1.69E+01
1628	495611.06	3858751.99	1.96258	0.46584	0.95644	1.01716	5.218	2.657	0.4875	0.46584	1.37E+01	8.60E-01	9.96E-05	3.58E-02	1.63E+00	2.50E-01	3.45E+00	3.17E+00	1.68E+01
1629	495661.06	3858751.99	1.94975	0.46421	0.95439	1.01238	5.16	2.911	0.4835	0.46421	1.36E+01	8.57E-01	9.94E-05	3.56E-02	1.62E+00	2.74E-01	3.43E+00	3.16E+00	1.66E+01
1630	494311.06	3858801.99	2.43862	0.72094	1.13319	1.21234	5.59	1.803	0.7581	0.72094	1.70E+01	1.33E+00	1.18E-04	4.27E-02	1.75E+00	1.69E-01	5.37E+00	4.90E+00	2.08E+01
1631	494361.06	3858801.99	2.6154	0.72253	1.14862	1.28634	6.196	1.953	0.764	0.72253	1.82E+01	1.33E+00	1.20E-04	4.53E-02	1.94E+00	1.84E-01	5.41E+00	4.91E+00	2.22E+01
1632	494411.06	3858801.99	2.6497	0.70008	1.16085	1.29125	6.425	1.993	0.7473	0.70008	1.85E+01	1.29E+00	1.21E-04	4.54E-02	2.01E+00	1.87E-01	5.29E+00	4.76E+00	2.25E+01
1633	494461.06	3858801.99	2.66335	0.67972	1.17091	1.28283	6.599	1.991	0.7264	0.67972	1.86E+01	1.26E+00	1.22E-04	4.52E-02	2.07E+00	1.87E-01	5.15E+00	4.62E+00	2.26E+01
1634	494511.06	3858801.99	2.66445	0.66803	1.2354	1.28331	6.862	1.975	0.7053	0.66803	1.86E+01	1.23E+00	1.29E-04	4.52E-02	2.15E+00	1.86E-01	5.00E+00	4.54E+00	2.26E+01
1635	494561.06	3858801.99	2.6525	0.6549	1.24066	1.26947	6.916	1.984	0.6828	0.6549	1.85E+01	1.21E+00	1.29E-04	4.47E-02	2.17E+00	1.86E-01	4.84E+00	4.45E+00	2.25E+01
1636	494611.06	3858801.99	2.6301	0.64102	1.23803	1.24664	6.901	2.039	0.6675	0.64102	1.83E+01	1.18E+00	1.29E-04	4.39E-02	2.16E+00	1.92E-01	4.73E+00	4.36E+00	2.23E+01
1637	494661.06	3858801.99	2.59148	0.61795	1.22452	1.21136	6.791	2.001	0.6502	0.61795	1.81E+01	1.14E+00	1.27E-04	4.26E-02	2.13E+00	1.88E-01	4.61E+00	4.20E+00	2.20E+01
1638	494711.06	3858801.99	2.54376	0.57976	1.2147	1.18385	6.641	1.914	0.632	0.57976	1.77E+01	1.07E+00	1.26E-04	4.17E-02	2.08E+00	1.80E-01	4.48E+00	3.94E+00	2.16E+01
1639	494761.06	3858801.99	2.48553	0.54512	1.20156	1.16376	6.501	1.991	0.6127	0.54512	1.73E+01	1.01E+00	1.25E-04	4.10E-02	2.04E+00	1.87E-01	4.34E+00	3.71E+00	2.12E+01
1640	494811.06	3858801.99	2.4227	0.52865	1.1865	1.15207	6.349	1.82	0.5937	0.52865	1.69E+01	9.76E-01	1.24E-04	4.05E-02	1.99E+00	1.71E-01	4.21E+00	3.59E+00	2.07E+01
1641	494861.06	3858801.99	2.38958	0.51561	1.18108	1.14585	6.287	1.816	0.5784	0.51561	1.67E+01	9.52E-01	1.23E-04	4.03E-02	1.97E+00	1.71E-01	4.10E+00	3.51E+00	2.04E+01
1642	494911.06	3858801.99	2.3363	0.50108	1.16871	1.13524	6.163	1.748	0.5617	0.50108	1.63E+01	9.25E-01	1.22E-04	4.00E-02	1.93E+00	1.64E-01	3.98E+00	3.41E+00	1.99E+01
1643	494961.06	3858801.99	2.29723	0.49069	1.16054	1.12749	6.076	1.721	0.5468	0.49069	1.60E+01	9.06E-01	1.21E-04	3.97E-02	1.90E+00	1.62E-01	3.87E+00	3.34E+00	1.96E+01
1644	495011.06	3858801.99	2.25483	0.49096	1.15123	1.11653	5.977	1.719	0.5365	0.49096	1.57E+01	9.07E-01	1.20E-04	3.93E-02	1.87E+00	1.62E-01	3.80E+00	3.34E+00	1.92E+01
1645	495061.06	3858801.99	2.22924	0.49151	1.15183	1.10919	5.916	1.829	0.534	0.49151	1.55E+01	9.08E-01	1.20E-04	3.90E-02	1.85E+00	1.72E-01	3.78E+00	3.34E+00	1.90E+01
1646	495111.06	3858801.99	2.17225	0.49153	1.14956	1.09798	5.769	1.889	0.5305	0.49153	1.51E+01	9.08E-01	1.20E-04	3.86E-02	1.81E+00	1.78E-01	3.76E+00	3.34E+00	1.85E+01
1647	495161.06	3858801.99	2.13159	0.49012	1.14916	1.08038	5.662	1.904	0.5254	0.49012	1.49E+01	9.05E-01	1.20E-04	3.80E-02	1.77E+00	1.79E-01	3.72E+00	3.33E+00	1.81E+01
1648	495211.06	3858801.99	2.11223	0.48727	1.15099	1.07178	5.602	1.924	0.522	0.48727	1.47E+01	9.00E-01	1.20E-04	3.77E-02	1.76E+00	1.81E-01	3.70E+00	3.31E+00	1.80E+01
1649	495261.06	3858801.99	2.10622	0.48714	1.15394	1.06629	5.569	2.027	0.5197	0.48714	1.47E+01	9.00E-01	1.20E-04	3.75E-02	1.75E+00	1.91E-01	3.68E+00	3.31E+00	1.79E+01

1650	495311.06	3858801.99	2.10467	0.48709	1.15691	1.0625	5.565	2.133	0.518	0.48709	1.47E+01	9.00E-01	1.20E-04	3.74E-02	1.74E+00	2.00E-01	3.67E+00	3.31E+00	1.79E+01
1651	495361.06	3858801.99	2.09556	0.48681	1.15845	1.05586	5.545	2.222	0.5153	0.48681	1.46E+01	8.99E-01	1.21E-04	3.72E-02	1.74E+00	2.09E-01	3.65E+00	3.31E+00	1.78E+01
1652	495411.06	3858801.99	2.10718	0.48845	1.16206	1.05535	5.563	2.321	0.5142	0.48845	1.47E+01	9.02E-01	1.21E-04	3.71E-02	1.74E+00	2.18E-01	3.64E+00	3.32E+00	1.79E+01
1653	495461.06	3858801.99	2.0961	0.48607	1.1624	1.04853	5.542	2.409	0.5111	0.48607	1.46E+01	8.98E-01	1.21E-04	3.69E-02	1.74E+00	2.26E-01	3.62E+00	3.31E+00	1.78E+01
1654	495511.06	3858801.99	2.07727	0.48497	1.16136	1.03992	5.505	2.509	0.5074	0.48497	1.45E+01	8.96E-01	1.21E-04	3.66E-02	1.72E+00	2.36E-01	3.59E+00	3.30E+00	1.77E+01
1655	495561.06	3858801.99	2.0629	0.48292	1.16047	1.03527	5.47	2.675	0.5057	0.48292	1.44E+01	8.92E-01	1.21E-04	3.64E-02	1.71E+00	2.51E-01	3.58E+00	3.28E+00	1.76E+01
1656	495611.06	3858801.99	2.03828	0.48003	1.15802	1.02563	5.416	2.935	0.5028	0.48003	1.42E+01	8.87E-01	1.21E-04	3.61E-02	1.70E+00	2.76E-01	3.56E+00	3.26E+00	1.74E+01
1657	495661.06	3858801.99	2.02937	0.47869	1.15719	1.02214	5.382	3.229	0.5012	0.47869	1.41E+01	8.84E-01	1.20E-04	3.60E-02	1.69E+00	3.04E-01	3.55E+00	3.26E+00	1.74E+01
1658	494311.06	3858851.99	2.67057	0.80892	1.2579	1.37909	5.724	2.221	0.8466	0.80892	1.86E+01	1.49E+00	1.31E-04	4.85E-02	1.79E+00	2.09E-01	6.00E+00	5.50E+00	2.27E+01
1659	494361.06	3858851.99	2.74582	0.79341	1.28609	1.42459	6.255	2.277	0.8357	0.79341	1.91E+01	1.47E+00	1.34E-04	5.01E-02	1.96E+00	2.14E-01	5.92E+00	5.40E+00	2.34E+01
1660	494411.06	3858851.99	2.73684	0.76409	1.28617	1.40516	6.349	2.271	0.8044	0.76409	1.91E+01	1.41E+00	1.34E-04	4.95E-02	1.99E+00	2.13E-01	5.70E+00	5.20E+00	2.32E+01
1661	494461.06	3858851.99	2.73755	0.73623	1.28911	1.39513	6.55	2.289	0.7781	0.73623	1.91E+01	1.36E+00	1.34E-04	4.91E-02	2.05E+00	2.15E-01	5.51E+00	5.01E+00	2.33E+01
1662	494511.06	3858851.99	2.72761	0.70827	1.37039	1.37887	6.795	2.297	0.755	0.70827	1.90E+01	1.31E+00	1.43E-04	4.85E-02	2.13E+00	2.16E-01	5.35E+00	4.82E+00	2.33E+01
1663	494561.06	3858851.99	2.71202	0.68458	1.36771	1.35171	6.858	2.297	0.7296	0.68458	1.89E+01	1.26E+00	1.42E-04	4.76E-02	2.15E+00	2.16E-01	5.17E+00	4.66E+00	2.31E+01
1664	494611.06	3858851.99	2.68523	0.66863	1.35822	1.32453	6.824	2.376	0.7025	0.66863	1.87E+01	1.23E+00	1.41E-04	4.66E-02	2.14E+00	2.23E-01	4.98E+00	4.55E+00	2.28E+01
1665	494661.06	3858851.99	2.65064	0.6524	1.3445	1.29272	6.728	2.418	0.6785	0.6524	1.85E+01	1.20E+00	1.40E-04	4.55E-02	2.11E+00	2.27E-01	4.81E+00	4.44E+00	2.24E+01
1666	494711.06	3858851.99	2.59775	0.62954	1.32271	1.2473	6.561	2.216	0.66	0.62954	1.81E+01	1.16E+00	1.38E-04	4.39E-02	2.06E+00	2.08E-01	4.68E+00	4.28E+00	2.20E+01
1667	494761.06	3858851.99	2.54332	0.58907	1.30107	1.20618	6.4	2.258	0.641	0.58907	1.77E+01	1.09E+00	1.35E-04	4.25E-02	2.01E+00	2.12E-01	4.54E+00	4.01E+00	2.16E+01
1668	494811.06	3858851.99	2.49671	0.55562	1.28303	1.18362	6.322	2.174	0.6228	0.55562	1.74E+01	1.03E+00	1.34E-04	4.17E-02	1.98E+00	2.04E-01	4.41E+00	3.78E+00	2.13E+01
1669	494861.06	3858851.99	2.46589	0.54189	1.27621	1.171	6.295	2.103	0.607	0.54189	1.72E+01	1.00E+00	1.33E-04	4.12E-02	1.97E+00	1.98E-01	4.30E+00	3.68E+00	2.10E+01
1670	494911.06	3858851.99	2.4205	0.52681	1.27095	1.15628	6.217	2.007	0.5899	0.52681	1.69E+01	9.73E-01	1.32E-04	4.07E-02	1.95E+00	1.89E-01	4.18E+00	3.58E+00	2.06E+01
1671	494961.06	3858851.99	2.38016	0.51306	1.26634	1.14348	6.15	1.948	0.5747	0.51306	1.66E+01	9.48E-01	1.32E-04	4.02E-02	1.93E+00	1.83E-01	4.07E+00	3.49E+00	2.03E+01
1672	495011.06	3858851.99	2.3475	0.50054	1.26269	1.13329	6.101	1.955	0.5597	0.50054	1.64E+01	9.24E-01	1.31E-04	3.99E-02	1.91E+00	1.84E-01	3.97E+00	3.40E+00	2.00E+01
1673	495061.06	3858851.99	2.30717	0.49116	1.2574	1.12483	6.026	2.022	0.5451	0.49116	1.61E+01	9.07E-01	1.31E-04	3.96E-02	1.89E+00	1.90E-01	3.86E+00	3.34E+00	1.96E+01
1674	495111.06	3858851.99	2.22913	0.49124	1.24619	1.1085	5.846	1.969	0.5351	0.49124	1.55E+01	9.07E-01	1.30E-04	3.90E-02	1.83E+00	1.85E-01	3.79E+00	3.34E+00	1.90E+01
1675	495161.06	3858851.99	2.18964	0.49147	1.24029	1.0986	5.766	1.981	0.5332	0.49147	1.53E+01	9.08E-01	1.29E-04	3.87E-02	1.81E+00	1.86E-01	3.78E+00	3.34E+00	1.86E+01
1676	495211.06	3858851.99	2.1959	0.4921	1.24088	1.09607	5.798	2.079	0.5321	0.4921	1.53E+01	9.09E-01	1.29E-04	3.86E-02	1.82E+00	1.95E-01	3.77E+00	3.35E+00	1.87E+01
1677	495261.06	3858851.99	2.18822	0.49196	1.23905	1.09091	5.788	2.183	0.5303	0.49196	1.53E+01	9.09E-01	1.29E-04	3.84E-02	1.81E+00	2.05E-01	3.76E+00	3.35E+00	1.86E+01
1678	495311.06	3858851.99	2.18929	0.49203	1.23804	1.08687	5.794	2.284	0.5288	0.49203	1.53E+01	9.09E-01	1.29E-04	3.83E-02	1.82E+00	2.15E-01	3.75E+00	3.35E+00	1.86E+01
1679	495361.06	3858851.99	2.18414	0.49195	1.23574	1.08166	5.779	2.374	0.5272	0.49195	1.52E+01	9.09E-01	1.29E-04	3.81E-02	1.81E+00	2.23E-01	3.74E+00	3.35E+00	1.86E+01
1680	495411.06	3858851.99	2.17895	0.49175	1.23304	1.07625	5.758	2.463	0.5247	0.49175	1.52E+01	9.08E-01	1.28E-04	3.79E-02	1.80E+00	2.31E-01	3.72E+00	3.34E+00	1.85E+01
1681	495461.06	3858851.99	2.17621	0.49144	1.23033	1.07098	5.737	2.581	0.5224	0.49144	1.52E+01	9.08E-01	1.28E-04	3.77E-02	1.80E+00	2.43E-01	3.70E+00	3.34E+00	1.85E+01
1682	495511.06	3858851.99	2.17021	0.49104	1.22534	1.06623	5.666	2.727	0.52	0.49104	1.51E+01	9.07E-01	1.28E-04	3.75E-02	1.78E+00	2.56E-01	3.68E+00	3.34E+00	1.85E+01
1683	495561.06	3858851.99	2.12963	0.49046	1.22011	1.05423	5.573	2.95	0.5147	0.49046	1.48E+01	9.06E-01	1.27E-04	3.71E-02	1.75E+00	2.77E-01	3.65E+00	3.34E+00	1.81E+01
1684	495611.06	3858851.99	2.10248	0.48832	1.2165	1.0433	5.508	3.252	0.511	0.48832	1.47E+01	9.02E-01	1.27E-04	3.67E-02	1.73E+00	3.06E-01	3.62E+00	3.32E+00	1.79E+01
1685	495661.06	3858851.99	2.09967	0.48783	1.2142	1.04306	5.499	3.585	0.5107	0.48783	1.46E+01	9.01E-01	1.26E-04	3.67E-02	1.72E+00	3.37E-01	3.62E+00	3.32E+00	1.79E+01
1686	494311.06	3858901.99	2.76418	0.87118	1.39015	1.49754	5.894	2.675	0.9198	0.87118	1.93E+01	1.61E+00	1.45E-04	5.27E-02	1.85E+00	2.51E-01	6.52E+00	5.92E+00	2.36E+01
1687	494361.06	3858901.99	2.81325	0.85092	1.41502	1.53382	6.502	2.656	0.9046	0.85092	1.96E+01	1.57E+00	1.47E-04	5.40E-02	2.04E+00	2.50E-01	6.41E+00	5.79E+00	2.41E+01
1688	494411.06	3858901.99	2.8096	0.82367	1.42247	1.52667	6.629	2.639	0.8767	0.82367	1.96E+01	1.52E+00	1.48E-04	5.37E-02	2.08E+00	2.48E-01	6.21E+00	5.60E+00	2.41E+01
1689	494461.06	3858901.99	2.80204	0.79756	1.4929	1.52545	6.913	2.633	0.8502	0.79756	1.95E+01	1.47E+00	1.55E-04	5.37E-02	2.17E+00	2.47E-01	6.02E+00	5.42E+00	2.41E+01
1690	494511.06	3858901.99	2.79438	0.76873	1.48793	1.50823	7.032	2.612	0.8196	0.76873	1.95E+01	1.42E+00	1.55E-04	5.31E-02	2.20E+00	2.46E-01	5.81E+00	5.23E+00	2.40E+01
1691	494561.06	3858901.99	2.77011	0.73727	1.46945	1.47048	6.951	2.63	0.7841	0.73727	1.93E+01	1.36E+00	1.53E-04	5.18E-02	2.18E+00	2.47E-01	5.56E+00	5.01E+00	2.37E+01
1692	494611.06	3858901.99	2.72727	0.70367	1.43905	1.41465	6.678	2.733	0.749	0.70367	1.90E+01	1.30E+00	1.50E-04	4.98E-02	2.09E+00	2.57E-01	5.31E+00	4.78E+00	2.32E+01
1693	494661.06	3858901.99	2.70155	0.68195	1.42926	1.37586	6.591	2.863	0.7227	0.68195	1.88E+01	1.26E+00	1.49E-04	4.84E-02	2.07E+00	2.69E-01	5.12E+00	4.64E+00	2.30E+01
1694	494711.06	3858901.99	2.65732	0.66307	1.4174	1.32454	6.414	2.809	0.6928	0.66307	1.85E+01	1.22E+00	1.48E-04	4.66E-02	2.01E+00	2.64E-01	4.91E+00	4.51E+00	2.25E+01
1695	494761.06	3858901.99	2.60121	0.64224	1.40253	1.27185	6.257	2.765	0.6695	0.64224	1.81E+01	1.19E+00	1.46E-04	4.48E-02	1.96E+00	2.60E-01	4.74E+00	4.37E+00	2.20E+01
1696	494811.06	3858901.99	2.56629	0.6176	1.39326	1.2422	6.215	2.833	0.6527	0.6176	1.79E+01	1.14E+00	1.45E-04	4.37E-02	1.95E+00	2.66E-01	4.62E+00	4.20E+00	2.17E+01
1697	494861.06	3858901.99	2.53935	0.59009	1.38585	1.22026	6.207	2.597	0.6367	0.59009	1.77E+01	1.09E+00	1.44E-04	4.29E-02	1.94E+00	2.44E-01	4.51E+00	4.01E+00	2.15E+01
1698	494911.06	3858901.99	2.47698	0.55228	1.36939	1.19099	6.073	2.35	0.6168	0.55228	1.73E+01	1.02E+00	1.43E-04	4.19E-02	1.90E+00	2.21E-01	4.37E+00	3.76E+00	2.11E+01
1699	494961.06	3858901.99	2.44275	0.53815	1.35981	1.17888	6.051	2.336	0.6007	0.53815	1.70E+01	9.94E-01	1.42E-04	4.15E-02	1.90E+00	2.20E-01	4.26E+00	3.66E+00	2.08E+01
1700	495011.06	3858901.99	2.40875	0.52451	1.35006	1.1673	6.025	2.341	0.5851	0.52451	1.68E+01	9.69E-01	1.41E-04	4.11E-02	1.89E+00	2.20E-01	4.15E+00	3.57E+00	2.05E+01
1701	495061.06	3858901.99	2.35677	0.51004	1.33645	1.15002	5.941	2.238	0.5686	0.51004	1.64E+01	9.42E-01	1.39E-04	4.05E-02	1.86E+00	2.10E-01	4.03E+00	3.47E+00	2.00E+01
1702	495111.06	3858901.99	2.27856	0.4945	1.31814	1.12468	5.786	2.053	0.5497	0.4945	1.59E+01	9.13E-01	1.37E-04	3.96E-02	1.81E+00	1.93E-01	3.89E+00	3.36E+00	1.94E+01
1703	495161.06	3858901.99	2.25723	0.49166	1.31064	1.1158	5.78	2.125	0.5375	0.49166	1.57E+01	9.08E-01	1.36E-04	3.93E-02	1.81E+00	2.00E-01	3.81E+00	3.34E+00	1.92E+01
1704	495211.06	3858901.99	2.27598	0.49233	1.31006	1.11719	5.875	2.281	0.5371	0.49233	1.59E+01	9.09E-01	1.36E-04	3.93E-02	1.84E+00	2.14E-01	3.81E+00	3.35E+00	1.93E+01
1705	495261.06	3858901.99	2.27357	0.49278	1.30529	1.11565	5.908	2.441	0.5361	0.49278	1.59E+01	9.10E-01	1.36E-04	3.93E-02	1.85E+00	2.29E-01	3.80E+00	3.35E+00	1.93E+01
1706	495311.06	3858901.99	2.26434	0.49338	1.29943	1.11198	5.916	2.56	0.5347	0.49338	1.58E+01	9.11E-01	1.35E-04	3.91E-02	1.85E+00	2.41E-01	3.79E+00	3.35E+00	1.93E+01

1707	495361.06	3858901.99	2.25736	0.49324	1.29588	1.10862	5.924	2.614	0.5332	0.49324	1.57E+01	9.11E-01	1.35E-04	3.90E-02	1.86E+00	2.46E-01	3.78E+00	3.35E+00	1.92E+01
1708	495411.06	3858901.99	2.26128	0.49337	1.29436	1.10948	5.957	2.752	0.5318	0.49337	1.58E+01	9.11E-01	1.35E-04	3.90E-02	1.87E+00	2.59E-01	3.77E+00	3.35E+00	1.93E+01
1709	495461.06	3858901.99	2.24754	0.49327	1.28863	1.10403	5.933	2.904	0.53	0.49327	1.57E+01	9.11E-01	1.34E-04	3.89E-02	1.86E+00	2.73E-01	3.75E+00	3.35E+00	1.92E+01
1710	495511.06	3858901.99	2.22369	0.493	1.28534	1.09347	5.875	3.017	0.5271	0.493	1.55E+01	9.11E-01	1.34E-04	3.85E-02	1.84E+00	2.84E-01	3.73E+00	3.35E+00	1.90E+01
1711	495561.06	3858901.99	2.20509	0.49295	1.28422	1.08519	5.827	3.261	0.5244	0.49295	1.54E+01	9.10E-01	1.34E-04	3.82E-02	1.83E+00	3.07E-01	3.72E+00	3.35E+00	1.88E+01
1712	495611.06	3858901.99	2.17797	0.49205	1.28196	1.0747	5.748	3.606	0.5212	0.49205	1.52E+01	9.09E-01	1.33E-04	3.78E-02	1.80E+00	3.39E-01	3.69E+00	3.35E+00	1.86E+01
1713	495661.06	3858901.99	2.17759	0.49185	1.28184	1.07385	5.738	4.046	0.5185	0.49185	1.52E+01	9.08E-01	1.33E-04	3.78E-02	1.80E+00	3.80E-01	3.67E+00	3.34E+00	1.86E+01
1714	494311.06	3858951.99	2.90386	0.92677	1.56449	1.63246	7.094	3.076	0.9886	0.92677	2.02E+01	1.71E+00	1.63E-04	5.75E-02	2.22E+00	2.89E-01	7.00E+00	6.30E+00	2.52E+01
1715	494361.06	3858951.99	2.91186	0.90194	1.57067	1.64621	7.4	3.086	0.9655	0.90194	2.03E+01	1.67E+00	1.64E-04	5.79E-02	2.32E+00	2.90E-01	6.84E+00	6.13E+00	2.53E+01
1716	494411.06	3858951.99	2.88796	0.87505	1.56257	1.62114	7.22	3.147	0.9367	0.87505	2.01E+01	1.62E+00	1.63E-04	5.71E-02	2.26E+00	2.96E-01	6.64E+00	5.95E+00	2.51E+01
1717	494461.06	3858951.99	2.87987	0.85043	1.58014	1.6214	7.507	3.172	0.9123	0.85043	2.01E+01	1.57E+00	1.65E-04	5.71E-02	2.35E+00	2.98E-01	6.46E+00	5.78E+00	2.50E+01
1718	494511.06	3858951.99	2.86014	0.8221	1.5722	1.59974	7.366	3.193	0.882	0.8221	1.99E+01	1.52E+00	1.64E-04	5.63E-02	2.31E+00	3.00E-01	6.25E+00	5.59E+00	2.48E+01
1719	494561.06	3858951.99	2.83029	0.79243	1.55976	1.56547	7.14	3.211	0.849	0.79243	1.97E+01	1.46E+00	1.62E-04	5.51E-02	2.24E+00	3.02E-01	6.02E+00	5.39E+00	2.44E+01
1720	494611.06	3858951.99	2.78719	0.76074	1.54325	1.52002	6.846	3.276	0.8124	0.76074	1.94E+01	1.41E+00	1.61E-04	5.35E-02	2.15E+00	3.08E-01	5.76E+00	5.17E+00	2.39E+01
1721	494661.06	3858951.99	2.74565	0.72837	1.52893	1.47749	6.609	3.384	0.7751	0.72837	1.91E+01	1.35E+00	1.59E-04	5.20E-02	2.07E+00	3.18E-01	5.49E+00	4.95E+00	2.35E+01
1722	494711.06	3858951.99	2.69784	0.69584	1.50831	1.41967	6.309	3.44	0.7385	0.69584	1.88E+01	1.29E+00	1.57E-04	5.00E-02	1.98E+00	3.23E-01	5.23E+00	4.73E+00	2.29E+01
1723	494761.06	3858951.99	2.65958	0.67402	1.49264	1.37245	6.129	3.376	0.7098	0.67402	1.85E+01	1.24E+00	1.55E-04	4.83E-02	1.92E+00	3.17E-01	5.03E+00	4.58E+00	2.25E+01
1724	494811.06	3858951.99	2.63168	0.65854	1.48092	1.33405	6.045	3.687	0.6832	0.65854	1.83E+01	1.22E+00	1.54E-04	4.70E-02	1.89E+00	3.47E-01	4.84E+00	4.48E+00	2.22E+01
1725	494861.06	3858951.99	2.60292	0.64275	1.46877	1.30425	6.045	3.336	0.6669	0.64275	1.81E+01	1.19E+00	1.53E-04	4.59E-02	1.89E+00	3.14E-01	4.72E+00	4.37E+00	2.19E+01
1726	494911.06	3858951.99	2.55893	0.61876	1.45187	1.26388	5.971	3.096	0.6483	0.61876	1.78E+01	1.14E+00	1.51E-04	4.45E-02	1.87E+00	2.91E-01	4.59E+00	4.21E+00	2.16E+01
1727	494961.06	3858951.99	2.53589	0.59573	1.44143	1.24041	5.995	3.191	0.6329	0.59573	1.77E+01	1.10E+00	1.50E-04	4.37E-02	1.88E+00	3.00E-01	4.48E+00	4.05E+00	2.14E+01
1728	495011.06	3858951.99	2.46142	0.54968	1.41669	1.20288	5.815	2.94	0.6113	0.54968	1.72E+01	1.02E+00	1.47E-04	4.23E-02	1.82E+00	2.76E-01	4.33E+00	3.74E+00	2.09E+01
1729	495061.06	3858951.99	2.38633	0.53226	1.39592	1.1802	5.691	2.465	0.5907	0.53226	1.66E+01	9.83E-01	1.45E-04	4.15E-02	1.78E+00	2.32E-01	4.19E+00	3.62E+00	2.02E+01
1730	495111.06	3858951.99	2.32675	0.51693	1.38482	1.16152	5.613	2.287	0.573	0.51693	1.62E+01	9.55E-01	1.44E-04	4.09E-02	1.76E+00	2.15E-01	4.06E+00	3.52E+00	1.97E+01
1731	495161.06	3858951.99	2.35621	0.50913	1.38931	1.16552	5.772	2.591	0.5651	0.50913	1.64E+01	9.40E-01	1.45E-04	4.10E-02	1.81E+00	2.44E-01	4.00E+00	3.46E+00	2.00E+01
1732	495211.06	3858951.99	2.35478	0.49929	1.38791	1.16364	5.842	2.843	0.554	0.49929	1.64E+01	9.22E-01	1.44E-04	4.10E-02	1.83E+00	2.67E-01	3.93E+00	3.40E+00	2.00E+01
1733	495261.06	3858951.99	2.3524	0.49339	1.38601	1.16158	5.904	3.012	0.5432	0.49339	1.64E+01	9.11E-01	1.44E-04	4.09E-02	1.85E+00	2.83E-01	3.85E+00	3.35E+00	2.00E+01
1734	495311.06	3858951.99	2.32488	0.49383	1.37933	1.14931	5.886	2.953	0.5393	0.49383	1.62E+01	9.12E-01	1.44E-04	4.05E-02	1.84E+00	2.78E-01	3.82E+00	3.36E+00	1.97E+01
1735	495361.06	3858951.99	2.32577	0.49431	1.37737	1.1505	5.946	3.262	0.5385	0.49431	1.62E+01	9.13E-01	1.43E-04	4.05E-02	1.86E+00	3.07E-01	3.82E+00	3.36E+00	1.98E+01
1736	495411.06	3858951.99	2.33115	0.4947	1.37595	1.15092	6.013	3.695	0.5378	0.4947	1.63E+01	9.14E-01	1.43E-04	4.05E-02	1.88E+00	3.47E-01	3.81E+00	3.36E+00	1.99E+01
1737	495461.06	3858951.99	2.32072	0.49488	1.37143	1.14634	6.027	3.868	0.536	0.49488	1.62E+01	9.14E-01	1.43E-04	4.03E-02	1.89E+00	3.64E-01	3.80E+00	3.37E+00	1.98E+01
1738	495511.06	3858951.99	2.31928	0.49534	1.36827	1.14454	6.062	4.077	0.5345	0.49534	1.62E+01	9.15E-01	1.42E-04	4.03E-02	1.90E+00	3.83E-01	3.79E+00	3.37E+00	1.98E+01
1739	495561.06	3858951.99	2.27856	0.4951	1.35782	1.12664	5.971	3.879	0.5316	0.4951	1.59E+01	9.14E-01	1.41E-04	3.97E-02	1.87E+00	3.65E-01	3.77E+00	3.37E+00	1.95E+01
1740	495611.06	3858951.99	2.25525	0.49483	1.35025	1.11761	5.927	4.119	0.529	0.49483	1.57E+01	9.14E-01	1.41E-04	3.93E-02	1.86E+00	3.87E-01	3.75E+00	3.36E+00	1.93E+01
1741	495661.06	3858951.99	2.25537	0.49426	1.34667	1.11658	5.947	4.632	0.5274	0.49426	1.57E+01	9.13E-01	1.40E-04	3.93E-02	1.86E+00	4.35E-01	3.74E+00	3.36E+00	1.94E+01
1742	494311.06	3859001.99	2.99204	0.97352	1.67537	1.73278	8.257	3.52	1.0315	0.97352	2.09E+01	1.80E+00	1.74E-04	6.10E-02	2.59E+00	3.31E-01	7.31E+00	6.62E+00	2.63E+01
1743	494361.06	3859001.99	2.9792	0.94327	1.66937	1.72899	8.251	3.601	1.0089	0.94327	2.08E+01	1.74E+00	1.74E-04	6.09E-02	2.59E+00	3.39E-01	7.15E+00	6.41E+00	2.62E+01
1744	494411.06	3859001.99	2.96187	0.91924	1.69469	1.72707	8.409	3.708	0.988	0.91924	2.06E+01	1.70E+00	1.76E-04	6.08E-02	2.63E+00	3.49E-01	7.00E+00	6.25E+00	2.61E+01
1745	494461.06	3859001.99	2.94377	0.89431	1.68377	1.71244	8.326	3.772	0.9622	0.89431	2.05E+01	1.65E+00	1.75E-04	6.03E-02	2.61E+00	3.55E-01	6.82E+00	6.08E+00	2.59E+01
1746	494511.06	3859001.99	2.92529	0.86864	1.67209	1.69537	8.223	3.811	0.9355	0.86864	2.04E+01	1.60E+00	1.74E-04	5.97E-02	2.58E+00	3.58E-01	6.63E+00	5.91E+00	2.57E+01
1747	494561.06	3859001.99	2.88947	0.84216	1.64991	1.65471	7.803	3.947	0.9058	0.84216	2.01E+01	1.56E+00	1.72E-04	5.82E-02	2.44E+00	3.71E-01	6.42E+00	5.73E+00	2.53E+01
1748	494611.06	3859001.99	2.85398	0.81373	1.62879	1.61066	7.415	4.093	0.8736	0.81373	1.99E+01	1.50E+00	1.70E-04	5.67E-02	2.32E+00	3.85E-01	6.19E+00	5.53E+00	2.48E+01
1749	494661.06	3859001.99	2.80916	0.78298	1.6042	1.55358	6.924	4.277	0.8382	0.78298	1.96E+01	1.45E+00	1.67E-04	5.47E-02	2.17E+00	4.02E-01	5.94E+00	5.32E+00	2.43E+01
1750	494711.06	3859001.99	2.75299	0.74971	1.57655	1.4985	6.438	4.471	0.7989	0.74971	1.92E+01	1.38E+00	1.64E-04	5.27E-02	2.02E+00	4.20E-01	5.66E+00	5.10E+00	2.36E+01
1751	494761.06	3859001.99	2.71489	0.71793	1.56414	1.46218	6.239	4.529	0.7628	0.71793	1.89E+01	1.33E+00	1.63E-04	5.15E-02	1.95E+00	4.26E-01	5.40E+00	4.88E+00	2.32E+01
1752	494811.06	3859001.99	2.68972	0.69138	1.55565	1.43563	6.155	5.07	0.732	0.69138	1.88E+01	1.28E+00	1.62E-04	5.05E-02	1.93E+00	4.77E-01	5.19E+00	4.70E+00	2.30E+01
1753	494861.06	3859001.99	2.65623	0.67451	1.54222	1.39457	6.004	4.551	0.7044	0.67451	1.85E+01	1.25E+00	1.61E-04	4.91E-02	1.88E+00	4.28E-01	4.99E+00	4.59E+00	2.25E+01
1754	494911.06	3859001.99	2.61943	0.65615	1.528	1.35017	5.85	4.184	0.677	0.65615	1.83E+01	1.21E+00	1.59E-04	4.75E-02	1.83E+00	3.93E-01	4.80E+00	4.46E+00	2.21E+01
1755	494961.06	3859001.99	2.57998	0.63883	1.51348	1.30855	5.696	4.558	0.6611	0.63883	1.80E+01	1.18E+00	1.58E-04	4.61E-02	1.78E+00	4.28E-01	4.68E+00	4.34E+00	2.18E+01
1756	495011.06	3859001.99	2.46217	0.57324	1.48205	1.23077	5.362	3.533	0.6316	0.57324	1.72E+01	1.06E+00	1.54E-04	4.33E-02	1.68E+00	3.32E-01	4.48E+00	3.90E+00	2.09E+01
1757	495061.06	3859001.99	2.43862	0.5582	1.47251	1.2216	5.411	3.409	0.6167	0.5582	1.70E+01	1.03E+00	1.53E-04	4.30E-02	1.70E+00	3.20E-01	4.37E+00	3.80E+00	2.07E+01
1758	495111.06	3859001.99	2.38471	0.54213	1.45712	1.21026	5.371	3.059	0.5984	0.54213	1.66E+01	1.00E+00	1.52E-04	4.26E-02	1.68E+00	2.88E-01	4.24E+00	3.69E+00	2.02E+01
1759	495161.06	3859001.99	2.4289	0.53508	1.46033	1.2081	5.596	3.608	0.5922	0.53508	1.69E+01	9.88E-01	1.52E-04	4.25E-02	1.75E+00	3.39E-01	4.20E+00	3.64E+00	2.06E+01
1760	495211.06	3859001.99	2.41872	0.52368	1.45286	1.20323	5.667	3.82	0.5798	0.52368	1.69E+01	9.67E-01	1.51E-04	4.23E-02	1.78E+00	3.59E-01	4.11E+00	3.56E+00	2.06E+01
1761	495261.06	3859001.99	2.4188	0.51351	1.44725	1.20173	5.763	4.325	0.5688	0.51351	1.69E+01	9.48E-01	1.51E-04	4.23E-02	1.81E+00	4.06E-01	4.03E+00	3.49E+00	2.06E+01
1762	495311.06	3859001.99	2.40582	0.50271	1.43886	1.19601	5.813	4.716	0.5566	0.50271	1.68E+01	9.28E-01	1.50E-04	4.21E-02	1.82E+00	4.43E-01	3.94E+00	3.42E+00	2.05E+01
1763	495361.06	3859001.99	2.4044	0.49554	1.43261	1.19411	5.895	5.029	0.546	0.49554	1.68E+01	9.15E-01	1.49E-04	4.20E-02	1.85E+00	4.73E-01	3.87E+00	3.37E+00	2.05E+01

1764	495411.06	3859001.99	2.3971	0.49579	1.42505	1.19031	5.955	5.196	0.5424	0.49579	1.67E+01	9.16E-01	1.48E-04	4.19E-02	1.87E+00	4.88E-01	3.84E+00	3.37E+00	2.05E+01
1765	495461.06	3859001.99	2.39251	0.49625	1.41788	1.18738	6.023	5.352	0.5415	0.49625	1.67E+01	9.17E-01	1.48E-04	4.18E-02	1.89E+00	5.03E-01	3.84E+00	3.37E+00	2.05E+01
1766	495511.06	3859001.99	2.36281	0.49647	1.40568	1.17611	5.985	5.111	0.5393	0.49647	1.65E+01	9.17E-01	1.46E-04	4.14E-02	1.88E+00	4.80E-01	3.82E+00	3.38E+00	2.02E+01
1767	495561.06	3859001.99	2.34616	0.49665	1.39599	1.16922	5.993	5.026	0.5376	0.49665	1.64E+01	9.17E-01	1.45E-04	4.12E-02	1.88E+00	4.72E-01	3.81E+00	3.38E+00	2.01E+01
1768	495611.06	3859001.99	2.3271	0.49668	1.38636	1.16155	5.988	5.063	0.5356	0.49668	1.62E+01	9.17E-01	1.44E-04	4.09E-02	1.88E+00	4.76E-01	3.80E+00	3.38E+00	2.00E+01
1769	495661.06	3859001.99	2.34054	0.49676	1.38152	1.16441	6.08	5.684	0.5349	0.49676	1.63E+01	9.17E-01	1.44E-04	4.10E-02	1.91E+00	5.34E-01	3.79E+00	3.38E+00	2.01E+01
1770	494311.06	3859051.99	3.06104	1.01025	1.74371	1.84727	9.071	3.778	1.0643	1.01025	2.13E+01	1.87E+00	1.82E-04	6.50E-02	2.84E+00	3.55E-01	7.54E+00	6.87E+00	2.71E+01
1771	494361.06	3859051.99	3.03998	0.98599	1.8103	1.85513	9.275	4.101	1.0423	0.98599	2.12E+01	1.82E+00	1.88E-04	6.53E-02	2.91E+00	3.85E-01	7.39E+00	6.70E+00	2.71E+01
1772	494411.06	3859051.99	3.01542	0.95906	1.7933	1.82666	9.137	4.255	1.0215	0.95906	2.10E+01	1.77E+00	1.87E-04	6.43E-02	2.86E+00	4.00E-01	7.24E+00	6.52E+00	2.68E+01
1773	494461.06	3859051.99	2.99249	0.9316	1.77242	1.79271	8.934	4.529	1.0007	0.9316	2.09E+01	1.72E+00	1.85E-04	6.31E-02	2.80E+00	4.26E-01	7.09E+00	6.33E+00	2.66E+01
1774	494511.06	3859051.99	2.96491	0.90877	1.7455	1.75742	8.632	4.815	0.9777	0.90877	2.07E+01	1.68E+00	1.82E-04	6.19E-02	2.70E+00	4.53E-01	6.93E+00	6.18E+00	2.63E+01
1775	494561.06	3859051.99	2.93938	0.88503	1.72235	1.72463	8.389	5.066	0.9526	0.88503	2.05E+01	1.63E+00	1.79E-04	6.07E-02	2.63E+00	4.76E-01	6.75E+00	6.02E+00	2.60E+01
1776	494611.06	3859051.99	2.90634	0.86038	1.6913	1.68004	8.019	5.406	0.9253	0.86038	2.03E+01	1.59E+00	1.76E-04	5.91E-02	2.51E+00	5.08E-01	6.56E+00	5.85E+00	2.56E+01
1777	494661.06	3859051.99	2.86899	0.83357	1.66653	1.63709	7.6	5.685	0.8953	0.83357	2.00E+01	1.54E+00	1.73E-04	5.76E-02	2.38E+00	5.34E-01	6.34E+00	5.67E+00	2.52E+01
1778	494711.06	3859051.99	2.83151	0.8047	1.64692	1.58919	7.209	5.908	0.8629	0.8047	1.97E+01	1.49E+00	1.71E-04	5.59E-02	2.26E+00	5.55E-01	6.11E+00	5.47E+00	2.47E+01
1779	494761.06	3859051.99	2.79036	0.77419	1.62691	1.54513	6.796	6.14	0.8281	0.77419	1.95E+01	1.43E+00	1.69E-04	5.44E-02	2.13E+00	5.77E-01	5.87E+00	5.26E+00	2.42E+01
1780	494811.06	3859051.99	2.75827	0.74376	1.61046	1.50943	6.517	6.846	0.7942	0.74376	1.92E+01	1.37E+00	1.68E-04	5.31E-02	2.04E+00	6.44E-01	5.63E+00	5.06E+00	2.39E+01
1781	494861.06	3859051.99	2.72451	0.71286	1.59378	1.47394	6.237	6.436	0.7594	0.71286	1.90E+01	1.32E+00	1.66E-04	5.19E-02	1.95E+00	6.05E-01	5.38E+00	4.85E+00	2.35E+01
1782	494911.06	3859051.99	2.67151	0.68805	1.57247	1.42504	5.925	6.734	0.7223	0.68805	1.86E+01	1.27E+00	1.64E-04	5.02E-02	1.86E+00	6.33E-01	5.12E+00	4.68E+00	2.29E+01
1783	494961.06	3859051.99	2.59435	0.66299	1.54538	1.36023	5.429	6.498	0.6899	0.66299	1.81E+01	1.22E+00	1.61E-04	4.79E-02	1.70E+00	6.11E-01	4.89E+00	4.51E+00	2.21E+01
1784	495011.06	3859051.99	2.54086	0.63709	1.52355	1.31054	5.164	6.258	0.6639	0.63709	1.77E+01	1.18E+00	1.59E-04	4.61E-02	1.62E+00	5.88E-01	4.70E+00	4.33E+00	2.15E+01
1785	495061.06	3859051.99	2.50321	0.59972	1.50636	1.272	5.121	5.852	0.6461	0.59972	1.75E+01	1.11E+00	1.57E-04	4.48E-02	1.60E+00	5.50E-01	4.58E+00	4.08E+00	2.13E+01
1786	495111.06	3859051.99	2.48337	0.57757	1.49323	1.25474	5.185	5.661	0.6321	0.57757	1.73E+01	1.07E+00	1.55E-04	4.42E-02	1.62E+00	5.32E-01	4.48E+00	3.93E+00	2.11E+01
1787	495161.06	3859051.99	2.50207	0.58828	1.48834	1.26169	5.399	6.232	0.6223	0.58828	1.74E+01	1.09E+00	1.55E-04	4.44E-02	1.69E+00	5.86E-01	4.41E+00	4.00E+00	2.13E+01
1788	495211.06	3859051.99	2.47801	0.56069	1.47418	1.24862	5.435	6.338	0.6078	0.56069	1.73E+01	1.04E+00	1.53E-04	4.39E-02	1.70E+00	5.96E-01	4.31E+00	3.81E+00	2.11E+01
1789	495261.06	3859051.99	2.48579	0.5627	1.46685	1.25529	5.602	6.884	0.5971	0.5627	1.73E+01	1.04E+00	1.53E-04	4.42E-02	1.76E+00	6.47E-01	4.23E+00	3.83E+00	2.12E+01
1790	495311.06	3859051.99	2.47007	0.54287	1.45444	1.24727	5.663	6.731	0.5837	0.54287	1.72E+01	1.00E+00	1.51E-04	4.39E-02	1.77E+00	6.33E-01	4.14E+00	3.69E+00	2.11E+01
1791	495361.06	3859051.99	2.46381	0.53238	1.44406	1.24452	5.76	7.041	0.5719	0.53238	1.72E+01	9.83E-01	1.50E-04	4.38E-02	1.80E+00	6.62E-01	4.05E+00	3.62E+00	2.11E+01
1792	495411.06	3859051.99	2.46388	0.52971	1.43502	1.24539	5.884	7.565	0.5612	0.52971	1.72E+01	9.78E-01	1.49E-04	4.38E-02	1.84E+00	7.11E-01	3.98E+00	3.60E+00	2.11E+01
1793	495461.06	3859051.99	2.4628	0.52523	1.42596	1.24522	5.998	7.767	0.5508	0.52523	1.72E+01	9.70E-01	1.48E-04	4.38E-02	1.88E+00	7.30E-01	3.90E+00	3.57E+00	2.11E+01
1794	495511.06	3859051.99	2.43344	0.50862	1.41497	1.22749	5.969	7.424	0.5455	0.50862	1.70E+01	9.39E-01	1.47E-04	4.32E-02	1.87E+00	6.98E-01	3.86E+00	3.46E+00	2.09E+01
1795	495561.06	3859051.99	2.41111	0.49953	1.40466	1.21448	5.967	7.376	0.544	0.49953	1.68E+01	9.23E-01	1.46E-04	4.27E-02	1.87E+00	6.93E-01	3.85E+00	3.40E+00	2.08E+01
1796	495611.06	3859051.99	2.39155	0.4985	1.39463	1.20298	5.973	7.393	0.5415	0.4985	1.67E+01	9.21E-01	1.45E-04	4.23E-02	1.87E+00	6.95E-01	3.84E+00	3.39E+00	2.06E+01
1797	495661.06	3859051.99	2.40061	0.50236	1.38706	1.2076	6.111	8.143	0.5416	0.50236	1.67E+01	9.28E-01	1.44E-04	4.25E-02	1.91E+00	7.65E-01	3.84E+00	3.42E+00	2.08E+01
1798	494311.06	3859101.99	3.1245	1.04386	1.92118	1.99647	9.714	3.515	1.0952	1.04386	2.18E+01	1.93E+00	2.00E-04	7.03E-02	3.04E+00	3.30E-01	7.76E+00	7.10E+00	2.78E+01
1799	494361.06	3859101.99	3.09938	1.02181	1.8999	1.9791	9.687	3.859	1.0748	1.02181	2.16E+01	1.89E+00	1.98E-04	6.97E-02	3.04E+00	3.63E-01	7.61E+00	6.95E+00	2.76E+01
1800	494411.06	3859101.99	3.07577	0.99742	1.8826	1.96645	9.681	4.032	1.052	0.99742	2.14E+01	1.84E+00	1.96E-04	6.92E-02	3.03E+00	3.79E-01	7.45E+00	6.78E+00	2.74E+01
1801	494461.06	3859101.99	3.04749	0.97225	1.85189	1.93113	9.53	4.397	1.0286	0.97225	2.12E+01	1.80E+00	1.93E-04	6.80E-02	2.99E+00	4.13E-01	7.29E+00	6.61E+00	2.72E+01
1802	494511.06	3859101.99	3.0129	0.9465	1.80699	1.87397	9.225	4.938	1.0096	0.9465	2.10E+01	1.75E+00	1.88E-04	6.60E-02	2.89E+00	4.64E-01	7.15E+00	6.44E+00	2.69E+01
1803	494561.06	3859101.99	2.98375	0.92003	1.77281	1.83028	8.988	5.563	0.9889	0.92003	2.08E+01	1.70E+00	1.85E-04	6.44E-02	2.82E+00	5.23E-01	7.01E+00	6.26E+00	2.67E+01
1804	494611.06	3859101.99	2.94867	0.9004	1.72272	1.76218	8.544	6.479	0.9675	0.9004	2.06E+01	1.66E+00	1.79E-04	6.20E-02	2.68E+00	6.09E-01	6.86E+00	6.12E+00	2.63E+01
1805	494661.06	3859101.99	2.92191	0.87663	1.70039	1.72219	8.28	7.462	0.9424	0.87663	2.04E+01	1.62E+00	1.77E-04	6.06E-02	2.59E+00	7.01E-01	6.68E+00	5.96E+00	2.61E+01
1806	494711.06	3859101.99	2.87701	0.85238	1.66757	1.65927	7.737	8.571	0.9145	0.85238	2.01E+01	1.57E+00	1.74E-04	5.84E-02	2.42E+00	8.06E-01	6.48E+00	5.80E+00	2.56E+01
1807	494761.06	3859101.99	2.85946	0.82539	1.65372	1.63587	7.62	9.041	0.8865	0.82539	1.99E+01	1.52E+00	1.72E-04	5.76E-02	2.39E+00	8.50E-01	6.28E+00	5.61E+00	2.54E+01
1808	494811.06	3859101.99	2.82476	0.79712	1.63001	1.58629	7.261	9.894	0.8549	0.79712	1.97E+01	1.47E+00	1.70E-04	5.58E-02	2.28E+00	9.30E-01	6.06E+00	5.42E+00	2.51E+01
1809	494861.06	3859101.99	2.79185	0.76764	1.60837	1.54464	6.937	9.764	0.8222	0.76764	1.95E+01	1.42E+00	1.67E-04	5.44E-02	2.17E+00	9.18E-01	5.83E+00	5.22E+00	2.46E+01
1810	494911.06	3859101.99	2.74287	0.73577	1.58048	1.49798	6.454	10.84	0.7852	0.73577	1.91E+01	1.36E+00	1.65E-04	5.27E-02	2.02E+00	1.02E+00	5.56E+00	5.00E+00	2.41E+01
1811	494961.06	3859101.99	2.66124	0.69916	1.54322	1.43972	5.766	10.95	0.7404	0.69916	1.86E+01	1.29E+00	1.61E-04	5.07E-02	1.81E+00	1.03E+00	5.25E+00	4.75E+00	2.32E+01
1812	495011.06	3859101.99	2.56173	0.66826	1.51208	1.38115	5.173	10.42	0.701	0.66826	1.79E+01	1.23E+00	1.57E-04	4.86E-02	1.62E+00	9.79E-01	4.97E+00	4.54E+00	2.22E+01
1813	495061.06	3859101.99	2.56201	0.65746	1.50532	1.36633	5.217	10.38	0.6798	0.65746	1.79E+01	1.21E+00	1.57E-04	4.81E-02	1.63E+00	9.76E-01	4.82E+00	4.47E+00	2.21E+01
1814	495111.06	3859101.99	2.53924	0.64168	1.49186	1.33777	5.106	10.28	0.6625	0.64168	1.77E+01	1.19E+00	1.55E-04	4.71E-02	1.60E+00	9.66E-01	4.69E+00	4.36E+00	2.18E+01
1815	495161.06	3859101.99	2.55466	0.63496	1.48955	1.32854	5.308	10.94	0.652	0.63496	1.78E+01	1.17E+00	1.55E-04	4.68E-02	1.66E+00	1.03E+00	4.62E+00	4.32E+00	2.20E+01
1816	495211.06	3859101.99	2.53553	0.6217	1.47652	1.30705	5.287	10.97	0.6384	0.6217	1.77E+01	1.15E+00	1.54E-04	4.60E-02	1.66E+00	1.03E+00	4.52E+00	4.23E+00	2.19E+01
1817	495261.06	3859101.99	2.53618	0.61018	1.46964	1.30109	5.43	11.16	0.6267	0.61018	1.77E+01	1.13E+00	1.53E-04	4.58E-02	1.70E+00	1.05E+00	4.44E+00	4.15E+00	2.19E+01
1818	495311.06	3859101.99	2.5344	0.59949	1.45873	1.28838	5.469	11.57	0.6139	0.59949	1.77E+01	1.11E+00	1.52E-04	4.53E-02	1.71E+00	1.09E+00	4.35E+00	4.08E+00	2.19E+01
1819	495361.06	3859101.99	2.53025	0.58854	1.45364	1.29499	5.655	11.94	0.6016	0.58854	1.76E+01	1.09E+00	1.51E-04	4.56E-02	1.77E+00	1.12E+00	4.26E+00	4.00E+00	2.19E+01
1820	495411.06	3859101.99	2.52499	0.57759	1.44489	1.29454	5.744	12.38	0.5896	0.57759	1.76E+01	1.07E+00	1.50E-04	4.56E-02	1.80E+00	1.16E+00	4.18E+00	3.93E+00	2.19E+01

1821	495461.06	3859101.99	2.51378	0.5666	1.42933	1.28589	5.721	12.77	0.5771	0.5666	1.75E+01	1.05E+00	1.49E-04	4.53E-02	1.79E+00	1.20E+00	4.09E+00	3.85E+00	2.18E+01
1822	495511.06	3859101.99	2.50383	0.55566	1.41929	1.28182	5.812	13.11	0.5655	0.55566	1.75E+01	1.03E+00	1.48E-04	4.51E-02	1.82E+00	1.23E+00	4.01E+00	3.78E+00	2.18E+01
1823	495561.06	3859101.99	2.47841	0.54163	1.40875	1.27204	5.887	13.25	0.5519	0.54163	1.73E+01	1.00E+00	1.47E-04	4.48E-02	1.84E+00	1.25E+00	3.91E+00	3.68E+00	2.16E+01
1824	495611.06	3859101.99	2.45612	0.53672	1.39572	1.26009	5.901	13.41	0.5482	0.53672	1.71E+01	9.91E-01	1.45E-04	4.44E-02	1.85E+00	1.26E+00	3.88E+00	3.65E+00	2.15E+01
1825	495661.06	3859101.99	2.45442	0.54	1.38926	1.26028	6.016	13.9	0.5481	0.54	1.71E+01	9.97E-01	1.45E-04	4.44E-02	1.88E+00	1.31E+00	3.88E+00	3.67E+00	2.16E+01
1826	494311.06	3859151.99	3.17177	1.06204	1.99198	2.10073	9.814	3.387	1.1082	1.06204	2.21E+01	1.96E+00	2.07E-04	7.39E-02	3.07E+00	3.18E-01	7.85E+00	7.22E+00	2.82E+01
1827	494361.06	3859151.99	3.14973	1.04296	1.97234	2.09919	9.918	3.793	1.0912	1.04296	2.20E+01	1.93E+00	2.05E-04	7.39E-02	3.11E+00	3.57E-01	7.73E+00	7.09E+00	2.81E+01
1828	494411.06	3859151.99	3.12324	1.02635	1.9167	2.05837	9.823	3.942	1.0759	1.02635	2.18E+01	1.90E+00	2.00E-04	7.24E-02	3.08E+00	3.71E-01	7.62E+00	6.98E+00	2.78E+01
1829	494461.06	3859151.99	3.0958	1.00713	1.8737	2.01717	9.695	4.185	1.0582	1.00713	2.16E+01	1.86E+00	1.95E-04	7.10E-02	3.04E+00	3.93E-01	7.50E+00	6.85E+00	2.76E+01
1830	494511.06	3859151.99	3.06392	0.98713	1.82636	1.9602	9.444	4.64	1.0391	0.98713	2.14E+01	1.82E+00	1.90E-04	6.90E-02	2.96E+00	4.36E-01	7.36E+00	6.71E+00	2.73E+01
1831	494561.06	3859151.99	3.03688	0.96183	1.7986	1.93172	9.337	5.206	1.0178	0.96183	2.12E+01	1.78E+00	1.87E-04	6.80E-02	2.93E+00	4.89E-01	7.21E+00	6.54E+00	2.71E+01
1832	494611.06	3859151.99	3.00138	0.93646	1.77017	1.87253	9.028	6.049	0.9991	0.93646	2.09E+01	1.73E+00	1.84E-04	6.59E-02	2.83E+00	5.69E-01	7.08E+00	6.37E+00	2.68E+01
1833	494661.06	3859151.99	2.97168	0.91164	1.75079	1.83784	8.855	7.239	0.9784	0.91164	2.07E+01	1.68E+00	1.82E-04	6.47E-02	2.77E+00	6.80E-01	6.93E+00	6.20E+00	2.67E+01
1834	494711.06	3859151.99	2.94635	0.88984	1.7332	1.80797	8.705	8.785	0.9563	0.88984	2.05E+01	1.64E+00	1.80E-04	6.36E-02	2.73E+00	8.26E-01	6.78E+00	6.05E+00	2.65E+01
1835	494761.06	3859151.99	2.9095	0.86826	1.70232	1.74304	8.252	11.26	0.9326	0.86826	2.03E+01	1.60E+00	1.77E-04	6.13E-02	2.59E+00	1.06E+00	6.61E+00	5.90E+00	2.63E+01
1836	494811.06	3859151.99	2.87446	0.84415	1.67518	1.69129	7.87	16.05	0.9059	0.84415	2.00E+01	1.56E+00	1.74E-04	5.95E-02	2.47E+00	1.51E+00	6.42E+00	5.74E+00	2.63E+01
1837	494861.06	3859151.99	2.84827	0.81753	1.6554	1.65493	7.636	20.25	0.8775	0.81753	1.99E+01	1.51E+00	1.72E-04	5.82E-02	2.39E+00	1.90E+00	6.22E+00	5.56E+00	2.64E+01
1838	494911.06	3859151.99	2.80034	0.78842	1.62355	1.59001	7.121	21.37	0.8441	0.78842	1.95E+01	1.46E+00	1.69E-04	5.60E-02	2.23E+00	2.01E+00	5.98E+00	5.36E+00	2.59E+01
1839	494961.06	3859151.99	2.73508	0.75413	1.57941	1.51555	6.365	22.41	0.8029	0.75413	1.91E+01	1.39E+00	1.64E-04	5.33E-02	1.99E+00	2.11E+00	5.69E+00	5.13E+00	2.52E+01
1840	495011.06	3859151.99	2.64867	0.71855	1.54657	1.45716	5.796	24.26	0.7598	0.71855	1.85E+01	1.33E+00	1.61E-04	5.13E-02	1.82E+00	2.28E+00	5.38E+00	4.89E+00	2.44E+01
1841	495061.06	3859151.99	2.63929	0.69129	1.53603	1.44252	5.741	24.81	0.7308	0.69129	1.84E+01	1.28E+00	1.60E-04	5.08E-02	1.80E+00	2.33E+00	5.18E+00	4.70E+00	2.43E+01
1842	495111.06	3859151.99	2.62216	0.67672	1.52254	1.42269	5.621	25.61	0.7021	0.67672	1.83E+01	1.25E+00	1.59E-04	5.01E-02	1.76E+00	2.41E+00	4.97E+00	4.60E+00	2.41E+01
1843	495161.06	3859151.99	2.63614	0.67057	1.52024	1.41667	5.722	24.78	0.6828	0.67057	1.84E+01	1.24E+00	1.58E-04	4.99E-02	1.79E+00	2.33E+00	4.84E+00	4.56E+00	2.41E+01
1844	495211.06	3859151.99	2.62183	0.65774	1.50755	1.39552	5.61	25.24	0.6647	0.65774	1.83E+01	1.21E+00	1.57E-04	4.91E-02	1.76E+00	2.37E+00	4.71E+00	4.47E+00	2.39E+01
1845	495261.06	3859151.99	2.60834	0.64558	1.49505	1.37362	5.61	24.66	0.6518	0.64558	1.82E+01	1.19E+00	1.56E-04	4.83E-02	1.76E+00	2.32E+00	4.62E+00	4.39E+00	2.37E+01
1846	495311.06	3859151.99	2.59821	0.63297	1.4837	1.36175	5.641	24.4	0.6391	0.63297	1.81E+01	1.17E+00	1.54E-04	4.79E-02	1.77E+00	2.29E+00	4.53E+00	4.30E+00	2.36E+01
1847	495361.06	3859151.99	2.58566	0.62078	1.47139	1.35067	5.65	24.67	0.6268	0.62078	1.80E+01	1.15E+00	1.53E-04	4.75E-02	1.77E+00	2.32E+00	4.44E+00	4.22E+00	2.35E+01
1848	495411.06	3859151.99	2.59394	0.61238	1.46694	1.35145	5.824	22.84	0.6153	0.61238	1.81E+01	1.13E+00	1.53E-04	4.76E-02	1.82E+00	2.15E+00	4.36E+00	4.16E+00	2.34E+01
1849	495461.06	3859151.99	2.58251	0.60063	1.45494	1.34212	5.91	22.61	0.6029	0.60063	1.80E+01	1.11E+00	1.51E-04	4.72E-02	1.85E+00	2.13E+00	4.27E+00	4.08E+00	2.33E+01
1850	495511.06	3859151.99	2.55267	0.58577	1.43582	1.32063	5.855	22.96	0.5894	0.58577	1.78E+01	1.08E+00	1.49E-04	4.65E-02	1.83E+00	2.16E+00	4.18E+00	3.98E+00	2.31E+01
1851	495561.06	3859151.99	2.53094	0.57251	1.41967	1.31322	5.852	22.28	0.5768	0.57251	1.76E+01	1.06E+00	1.48E-04	4.62E-02	1.83E+00	2.09E+00	4.09E+00	3.89E+00	2.29E+01
1852	495611.06	3859151.99	2.51698	0.55961	1.40452	1.3072	5.863	21.74	0.5647	0.55961	1.75E+01	1.03E+00	1.46E-04	4.60E-02	1.84E+00	2.04E+00	4.00E+00	3.81E+00	2.27E+01
1853	495661.06	3859151.99	2.50499	0.54921	1.39037	1.30234	5.888	24.15	0.5532	0.54921	1.75E+01	1.01E+00	1.45E-04	4.58E-02	1.84E+00	2.27E+00	3.92E+00	3.73E+00	2.28E+01
1854	494311.06	3859201.99	3.20559	1.06759	2.3547	2.17409	9.694	4.086	1.1083	1.06759	2.23E+01	1.97E+00	2.45E-04	7.65E-02	3.04E+00	3.84E-01	7.85E+00	7.26E+00	2.84E+01
1855	494361.06	3859201.99	3.18397	1.05432	2.32818	2.16689	9.768	4.65	1.0967	1.05432	2.22E+01	1.95E+00	2.42E-04	7.63E-02	3.06E+00	4.37E-01	7.77E+00	7.17E+00	2.83E+01
1856	494411.06	3859201.99	3.16134	1.04116	1.99242	2.14254	9.764	4.95	1.0853	1.04116	2.20E+01	1.92E+00	2.07E-04	7.54E-02	3.06E+00	4.65E-01	7.69E+00	7.08E+00	2.82E+01
1857	494461.06	3859201.99	3.13605	1.03149	1.92858	2.09157	9.633	5.192	1.0767	1.03149	2.19E+01	1.91E+00	2.01E-04	7.36E-02	3.02E+00	4.88E-01	7.63E+00	7.01E+00	2.80E+01
1858	494511.06	3859201.99	3.11179	1.0139	1.8877	2.06405	9.596	5.774	1.0611	1.0139	2.17E+01	1.87E+00	1.97E-04	7.26E-02	3.01E+00	5.43E-01	7.52E+00	6.89E+00	2.78E+01
1859	494561.06	3859201.99	3.08224	0.99717	1.82254	2.0014	9.384	6.561	1.0455	0.99717	2.15E+01	1.84E+00	1.90E-04	7.04E-02	2.94E+00	6.17E-01	7.41E+00	6.78E+00	2.76E+01
1860	494611.06	3859201.99	3.05364	0.97636	1.79244	1.9559	9.234	7.555	1.0258	0.97636	2.13E+01	1.80E+00	1.87E-04	6.88E-02	2.89E+00	7.10E-01	7.27E+00	6.64E+00	2.74E+01
1861	494661.06	3859201.99	3.02647	0.95154	1.76777	1.92212	9.129	8.816	1.0071	0.95154	2.11E+01	1.76E+00	1.84E-04	6.77E-02	2.86E+00	8.29E-01	7.14E+00	6.47E+00	2.73E+01
1862	494711.06	3859201.99	2.99854	0.92509	1.74299	1.89133	9.001	10.1	0.9878	0.92509	2.09E+01	1.71E+00	1.81E-04	6.66E-02	2.82E+00	9.49E-01	7.00E+00	6.29E+00	2.72E+01
1863	494761.06	3859201.99	2.96037	0.90373	1.70391	1.82851	8.657	11.59	0.9683	0.90373	2.06E+01	1.67E+00	1.77E-04	6.44E-02	2.71E+00	1.09E+00	6.86E+00	6.15E+00	2.69E+01
1864	494811.06	3859201.99	2.92343	0.88331	1.67214	1.78249	8.369	13.01	0.947	0.88331	2.04E+01	1.63E+00	1.74E-04	6.27E-02	2.62E+00	1.22E+00	6.71E+00	6.01E+00	2.66E+01
1865	494861.06	3859201.99	2.88857	0.85898	1.63554	1.72525	7.967	11.64	0.9206	0.85898	2.01E+01	1.59E+00	1.70E-04	6.07E-02	2.50E+00	1.09E+00	6.52E+00	5.84E+00	2.61E+01
1866	494911.06	3859201.99	2.83704	0.83596	1.60368	1.66625	7.467	10.29	0.8941	0.83596	1.98E+01	1.54E+00	1.67E-04	5.86E-02	2.34E+00	9.67E-01	6.34E+00	5.68E+00	2.53E+01
1867	494961.06	3859201.99	2.77931	0.80633	1.56762	1.59609	6.893	10.25	0.8598	0.80633	1.94E+01	1.49E+00	1.63E-04	5.62E-02	2.16E+00	9.63E-01	6.09E+00	5.48E+00	2.47E+01
1868	495011.06	3859201.99	2.69209	0.77062	1.52286	1.51585	6.122	11.15	0.8164	0.77062	1.88E+01	1.42E+00	1.59E-04	5.34E-02	1.92E+00	1.05E+00	5.78E+00	5.24E+00	2.38E+01
1869	495061.06	3859201.99	2.72022	0.74769	1.52767	1.53163	6.457	10.48	0.7962	0.74769	1.90E+01	1.38E+00	1.59E-04	5.39E-02	2.02E+00	9.85E-01	5.64E+00	5.08E+00	2.40E+01
1870	495111.06	3859201.99	2.71517	0.72076	1.51839	1.5202	6.477	10.28	0.7687	0.72076	1.89E+01	1.33E+00	1.58E-04	5.35E-02	2.03E+00	9.66E-01	5.45E+00	4.90E+00	2.39E+01
1871	495161.06	3859201.99	2.70572	0.70001	1.5072	1.50394	6.441	10.16	0.7401	0.70001	1.89E+01	1.29E+00	1.57E-04	5.29E-02	2.02E+00	9.55E-01	5.24E+00	4.76E+00	2.37E+01
1872	495211.06	3859201.99	2.6844	0.68814	1.49079	1.47727	6.276	10.15	0.7091	0.68814	1.87E+01	1.27E+00	1.55E-04	5.20E-02	1.97E+00	9.54E-01	5.02E+00	4.68E+00	2.33E+01
1873	495261.06	3859201.99	2.6801	0.67645	1.48167	1.46222	6.271	10.05	0.6828	0.67645	1.87E+01	1.25E+00	1.54E-04	5.15E-02	1.96E+00	9.44E-01	4.84E+00	4.60E+00	2.31E+01
1874	495311.06	3859201.99	2.66969	0.6637	1.46987	1.44142	6.195	10.12	0.6635	0.6637	1.86E+01	1.23E+00	1.53E-04	5.07E-02	1.94E+00	9.51E-01	4.70E+00	4.51E+00	2.30E+01
1875	495361.06	3859201.99	2.66185	0.65278	1.45919	1.42159	6.167	10.11	0.6512	0.65278	1.86E+01	1.21E+00	1.52E-04	5.00E-02	1.93E+00	9.51E-01	4.61E+00	4.44E+00	2.29E+01
1876	495411.06	3859201.99	2.66348	0.64035	1.45295	1.42051	6.27	10.08	0.6396	0.64035	1.86E+01	1.18E+00	1.51E-04	5.00E-02	1.96E+00	9.48E-01	4.53E+00	4.35E+00	2.29E+01
1877	495461.06	3859201.99	2.64804	0.62799	1.43868	1.40536	6.164	10.29	0.6269	0.62799	1.85E+01	1.16E+00	1.50E-04	4.95E-02	1.93E+00	9.67E-01	4.44E+00	4.27E+00	2.27E+01

1878	495511.06	3859201.99	2.63278	0.61581	1.4245	1.39248	6.094	10.96	0.6154	0.61581	1.84E+01	1.14E+00	1.48E-04	4.90E-02	1.91E+00	1.03E+00	4.36E+00	4.19E+00	2.27E+01
1879	495561.06	3859201.99	2.60304	0.60276	1.40387	1.36867	5.935	12.97	0.6008	0.60276	1.81E+01	1.11E+00	1.46E-04	4.82E-02	1.86E+00	1.22E+00	4.26E+00	4.10E+00	2.25E+01
1880	495611.06	3859201.99	2.58069	0.59091	1.38681	1.34948	5.85	13.85	0.5881	0.59091	1.80E+01	1.09E+00	1.44E-04	4.75E-02	1.83E+00	1.30E+00	4.17E+00	4.02E+00	2.24E+01
1881	495661.06	3859201.99	2.56473	0.57887	1.37252	1.33871	5.897	11.09	0.5766	0.57887	1.79E+01	1.07E+00	1.43E-04	4.71E-02	1.85E+00	1.04E+00	4.09E+00	3.94E+00	2.20E+01
1882	494311.06	3859251.99	3.22701	1.07518	2.31403	2.28285	9.33	4.699	1.1062	1.07518	2.25E+01	1.99E+00	2.41E-04	8.03E-02	2.92E+00	4.42E-01	7.84E+00	7.31E+00	2.85E+01
1883	494361.06	3859251.99	3.20654	1.06396	2.26617	2.2517	9.397	5.325	1.099	1.06396	2.24E+01	1.97E+00	2.36E-04	7.93E-02	2.94E+00	5.01E-01	7.79E+00	7.23E+00	2.84E+01
1884	494411.06	3859251.99	3.18504	1.05549	2.20615	2.14953	9.368	5.663	1.0935	1.05549	2.22E+01	1.95E+00	2.30E-04	7.57E-02	2.94E+00	5.32E-01	7.75E+00	7.18E+00	2.83E+01
1885	494461.06	3859251.99	3.16653	1.04406	2.16694	2.12903	9.417	5.681	1.0836	1.04406	2.21E+01	1.93E+00	2.26E-04	7.49E-02	2.95E+00	5.34E-01	7.68E+00	7.10E+00	2.81E+01
1886	494511.06	3859251.99	3.14304	1.03519	1.79758	2.07627	9.308	6.177	1.0759	1.03519	2.19E+01	1.91E+00	1.87E-04	7.31E-02	2.92E+00	5.81E-01	7.62E+00	7.04E+00	2.80E+01
1887	494561.06	3859251.99	3.1199	1.02248	1.77123	2.05119	9.288	6.768	1.0649	1.02248	2.18E+01	1.89E+00	1.84E-04	7.22E-02	2.91E+00	6.36E-01	7.54E+00	6.95E+00	2.79E+01
1888	494611.06	3859251.99	3.09367	1.0071	1.73675	2.00691	9.167	7.528	1.0511	1.0071	2.16E+01	1.86E+00	1.81E-04	7.06E-02	2.87E+00	7.08E-01	7.45E+00	6.85E+00	2.77E+01
1889	494661.06	3859251.99	3.07089	0.9855	1.71677	1.9939	9.169	8.187	1.0314	0.9855	2.14E+01	1.82E+00	1.79E-04	7.02E-02	2.87E+00	7.70E-01	7.31E+00	6.70E+00	2.75E+01
1890	494711.06	3859251.99	3.04561	0.96417	1.69118	1.96412	9.083	8.789	1.0121	0.96417	2.12E+01	1.78E+00	1.76E-04	6.91E-02	2.85E+00	8.26E-01	7.17E+00	6.56E+00	2.74E+01
1891	494761.06	3859251.99	3.00406	0.94179	1.63052	1.84027	8.549	9.735	0.9958	0.94179	2.09E+01	1.74E+00	1.70E-04	6.48E-02	2.68E+00	9.15E-01	7.06E+00	6.40E+00	2.70E+01
1892	494811.06	3859251.99	2.98092	0.91604	1.6212	1.85287	8.624	10.33	0.978	0.91604	2.08E+01	1.69E+00	1.69E-04	6.52E-02	2.70E+00	9.71E-01	6.93E+00	6.23E+00	2.69E+01
1893	494861.06	3859251.99	2.93438	0.89659	1.56301	1.7649	8.067	10.68	0.9572	0.89659	2.05E+01	1.66E+00	1.63E-04	6.21E-02	2.53E+00	1.00E+00	6.78E+00	6.10E+00	2.64E+01
1894	494911.06	3859251.99	2.87576	0.87869	1.52889	1.70957	7.633	7.67	0.9372	0.87869	2.00E+01	1.62E+00	1.59E-04	6.02E-02	2.39E+00	7.21E-01	6.64E+00	5.97E+00	2.55E+01
1895	494961.06	3859251.99	2.84051	0.85377	1.50368	1.68048	7.437	7.253	0.9112	0.85377	1.98E+01	1.58E+00	1.57E-04	5.91E-02	2.33E+00	6.82E-01	6.46E+00	5.81E+00	2.51E+01
1896	495011.06	3859251.99	2.80563	0.82709	1.47962	1.64219	7.156	7.278	0.8825	0.82709	1.96E+01	1.53E+00	1.54E-04	5.78E-02	2.24E+00	6.84E-01	6.25E+00	5.62E+00	2.47E+01
1897	495061.06	3859251.99	2.8018	0.80093	1.4724	1.64409	7.262	7.219	0.8569	0.80093	1.95E+01	1.48E+00	1.53E-04	5.79E-02	2.28E+00	6.79E-01	6.07E+00	5.45E+00	2.46E+01
1898	495111.06	3859251.99	2.7847	0.77376	1.45818	1.62599	7.186	7.289	0.8287	0.77376	1.94E+01	1.43E+00	1.52E-04	5.72E-02	2.25E+00	6.85E-01	5.87E+00	5.26E+00	2.44E+01
1899	495161.06	3859251.99	2.77366	0.74672	1.44716	1.61388	7.175	7.35	0.801	0.74672	1.93E+01	1.38E+00	1.51E-04	5.68E-02	2.25E+00	6.91E-01	5.68E+00	5.08E+00	2.43E+01
1900	495211.06	3859251.99	2.75494	0.71893	1.43212	1.58963	7.053	7.583	0.7716	0.71893	1.92E+01	1.33E+00	1.49E-04	5.59E-02	2.21E+00	7.13E-01	5.47E+00	4.89E+00	2.41E+01
1901	495261.06	3859251.99	2.74991	0.69989	1.41763	1.57037	6.986	7.66	0.7428	0.69989	1.92E+01	1.29E+00	1.48E-04	5.53E-02	2.19E+00	7.20E-01	5.26E+00	4.76E+00	2.39E+01
1902	495311.06	3859251.99	2.73916	0.68914	1.41707	1.56367	7.047	7.764	0.7165	0.68914	1.91E+01	1.27E+00	1.48E-04	5.50E-02	2.21E+00	7.30E-01	5.08E+00	4.69E+00	2.38E+01
1903	495361.06	3859251.99	2.72599	0.67722	1.40678	1.54113	6.959	7.804	0.6881	0.67722	1.90E+01	1.25E+00	1.46E-04	5.42E-02	2.18E+00	7.34E-01	4.88E+00	4.60E+00	2.35E+01
1904	495411.06	3859251.99	2.72305	0.66557	1.40517	1.53112	6.993	8.357	0.6629	0.66557	1.90E+01	1.23E+00	1.46E-04	5.39E-02	2.19E+00	7.86E-01	4.70E+00	4.53E+00	2.34E+01
1905	495461.06	3859251.99	2.70881	0.65347	1.39373	1.50638	6.88	9.219	0.6497	0.65347	1.89E+01	1.21E+00	1.45E-04	5.30E-02	2.16E+00	8.67E-01	4.60E+00	4.44E+00	2.33E+01
1906	495511.06	3859251.99	2.68208	0.64065	1.37157	1.47043	6.619	10.27	0.6366	0.64065	1.87E+01	1.18E+00	1.43E-04	5.18E-02	2.07E+00	9.65E-01	4.51E+00	4.36E+00	2.31E+01
1907	495561.06	3859251.99	2.66453	0.62832	1.35734	1.44838	6.485	10.2	0.6241	0.62832	1.86E+01	1.16E+00	1.41E-04	5.10E-02	2.03E+00	9.58E-01	4.42E+00	4.27E+00	2.29E+01
1908	495611.06	3859251.99	2.63971	0.61562	1.33755	1.41736	6.254	8.898	0.6111	0.61562	1.84E+01	1.14E+00	1.39E-04	4.99E-02	1.96E+00	8.36E-01	4.33E+00	4.19E+00	2.25E+01
1909	495661.06	3859251.99	2.62172	0.60495	1.32323	1.39809	6.111	6.899	0.5987	0.60495	1.83E+01	1.12E+00	1.38E-04	4.92E-02	1.91E+00	6.49E-01	4.24E+00	4.11E+00	2.21E+01
1910	494311.06	3859301.99	3.24395	1.08321	2.43001	2.34217	8.764	4.91	1.1006	1.08321	2.26E+01	2.00E+00	2.53E-04	8.24E-02	2.75E+00	4.61E-01	7.80E+00	7.37E+00	2.83E+01
1911	494361.06	3859301.99	3.22483	1.07623	2.37752	2.29184	8.849	5.483	1.0974	1.07623	2.25E+01	1.99E+00	2.48E-04	8.07E-02	2.77E+00	5.15E-01	7.78E+00	7.32E+00	2.83E+01
1912	494411.06	3859301.99	3.20525	1.06701	2.31223	2.22652	8.894	5.953	1.0941	1.06701	2.23E+01	1.97E+00	2.41E-04	7.84E-02	2.79E+00	5.60E-01	7.75E+00	7.26E+00	2.82E+01
1913	494461.06	3859301.99	3.18498	1.05531	2.24813	2.17755	8.914	5.675	1.0884	1.05531	2.22E+01	1.95E+00	2.34E-04	7.66E-02	2.79E+00	5.33E-01	7.71E+00	7.18E+00	2.81E+01
1914	494511.06	3859301.99	3.16467	1.0469	2.19243	2.09425	8.934	6.059	1.0821	1.0469	2.21E+01	1.93E+00	2.28E-04	7.37E-02	2.80E+00	5.70E-01	7.67E+00	7.12E+00	2.80E+01
1915	494561.06	3859301.99	3.14814	1.0354	2.14886	2.0657	8.983	6.45	1.0723	1.0354	2.19E+01	1.91E+00	2.24E-04	7.27E-02	2.81E+00	6.06E-01	7.60E+00	7.04E+00	2.79E+01
1916	494611.06	3859301.99	3.12704	1.02293	1.79987	2.04227	8.997	6.887	1.0615	1.02293	2.18E+01	1.89E+00	1.87E-04	7.19E-02	2.82E+00	6.47E-01	7.52E+00	6.96E+00	2.78E+01
1917	494661.06	3859301.99	3.10486	1.01034	1.75733	2.01774	8.989	7.347	1.0507	1.01034	2.16E+01	1.87E+00	1.83E-04	7.10E-02	2.82E+00	6.91E-01	7.44E+00	6.87E+00	2.77E+01
1918	494711.06	3859301.99	3.08016	0.99571	1.70566	1.97933	8.904	7.911	1.0376	0.99571	2.15E+01	1.84E+00	1.78E-04	6.97E-02	2.79E+00	7.44E-01	7.35E+00	6.77E+00	2.75E+01
1919	494761.06	3859301.99	3.05493	0.97664	1.66251	1.94697	8.825	8.338	1.0201	0.97664	2.13E+01	1.80E+00	1.73E-04	6.85E-02	2.77E+00	7.84E-01	7.23E+00	6.64E+00	2.73E+01
1920	494811.06	3859301.99	3.02326	0.95713	1.61807	1.88654	8.592	9.033	1.0041	0.95713	2.11E+01	1.77E+00	1.68E-04	6.64E-02	2.69E+00	8.49E-01	7.11E+00	6.51E+00	2.71E+01
1921	494861.06	3859301.99	2.97818	0.93589	1.56027	1.79638	8.147	10.4	0.9892	0.93589	2.08E+01	1.73E+00	1.62E-04	6.32E-02	2.55E+00	9.78E-01	7.01E+00	6.36E+00	2.67E+01
1922	494911.06	3859301.99	2.94529	0.91262	1.52983	1.76795	7.979	6.992	0.9713	0.91262	2.05E+01	1.69E+00	1.59E-04	6.22E-02	2.50E+00	6.57E-01	6.88E+00	6.21E+00	2.61E+01
1923	494961.06	3859301.99	2.88826	0.89325	1.47401	1.69266	7.446	5.992	0.9496	0.89325	2.01E+01	1.65E+00	1.53E-04	5.96E-02	2.33E+00	5.63E-01	6.73E+00	6.07E+00	2.54E+01
1924	495011.06	3859301.99	2.85738	0.86948	1.45094	1.67137	7.32	6.142	0.9258	0.86948	1.99E+01	1.61E+00	1.51E-04	5.88E-02	2.29E+00	5.77E-01	6.56E+00	5.91E+00	2.51E+01
1925	495061.06	3859301.99	2.86987	0.84164	1.4564	1.71091	7.706	6.128	0.9008	0.84164	2.00E+01	1.55E+00	1.52E-04	6.02E-02	2.41E+00	5.76E-01	6.38E+00	5.72E+00	2.53E+01
1926	495111.06	3859301.99	2.82977	0.81862	1.43296	1.67689	7.49	6.304	0.8765	0.81862	1.97E+01	1.51E+00	1.49E-04	5.90E-02	2.35E+00	5.93E-01	6.21E+00	5.57E+00	2.49E+01
1927	495161.06	3859301.99	2.81546	0.79345	1.42686	1.67731	7.545	6.395	0.8514	0.79345	1.96E+01	1.47E+00	1.49E-04	5.90E-02	2.36E+00	6.01E-01	6.03E+00	5.40E+00	2.48E+01
1928	495211.06	3859301.99	2.81406	0.76674	1.42483	1.68658	7.712	6.356	0.8255	0.76674	1.96E+01	1.42E+00	1.48E-04	5.94E-02	2.42E+00	5.97E-01	5.85E+00	5.21E+00	2.47E+01
1929	495261.06	3859301.99	2.80599	0.74024	1.41705	1.68312	7.767	6.395	0.7989	0.74024	1.96E+01	1.37E+00	1.48E-04	5.92E-02	2.43E+00	6.01E-01	5.66E+00	5.03E+00	2.47E+01
1930	495311.06	3859301.99	2.78388	0.71412	1.39561	1.65371	7.585	6.826	0.7706	0.71412	1.94E+01	1.32E+00	1.45E-04	5.82E-02	2.38E+00	6.42E-01	5.46E+00	4.86E+00	2.44E+01
1931	495361.06	3859301.99	2.77785	0.69873	1.38997	1.65146	7.643	7.376	0.7438	0.69873	1.94E+01	1.29E+00	1.45E-04	5.81E-02	2.39E+00	6.93E-01	5.27E+00	4.75E+00	2.43E+01
1932	495411.06	3859301.99	2.7665	0.68738	1.37939	1.63985	7.604	7.987	0.7165	0.68738	1.93E+01	1.27E+00	1.44E-04	5.77E-02	2.38E+00	7.51E-01	5.08E+00	4.67E+00	2.42E+01
1933	495461.06	3859301.99	2.75674	0.67583	1.37185	1.63027	7.579	8.312	0.6897	0.67583	1.92E+01	1.25E+00	1.43E-04	5.74E-02	2.37E+00	7.81E-01	4.89E+00	4.60E+00	2.40E+01
1934	495511.06	3859301.99	2.73643	0.66422	1.35402	1.59417	7.375	8.032	0.6625	0.66422	1.91E+01	1.23E+00	1.41E-04	5.61E-02	2.31E+00	7.55E-01	4.69E+00	4.52E+00	2.36E+01

1935	495561.06	3859301.99	2.70615	0.65191	1.32717	1.53714	7.028	7.205	0.6452	0.65191	1.89E+01	1.20E+00	1.38E-04	5.41E-02	2.20E+00	6.77E-01	4.57E+00	4.43E+00	2.31E+01
1936	495611.06	3859301.99	2.68952	0.63979	1.31394	1.51735	6.873	5.678	0.6329	0.63979	1.88E+01	1.18E+00	1.37E-04	5.34E-02	2.15E+00	5.34E-01	4.48E+00	4.35E+00	2.28E+01
1937	495661.06	3859301.99	2.67238	0.62768	1.30034	1.49703	6.707	4.939	0.6207	0.62768	1.86E+01	1.16E+00	1.35E-04	5.27E-02	2.10E+00	4.64E-01	4.40E+00	4.27E+00	2.25E+01
1938	494311.06	3859351.99	3.25141	1.08568	2.62464	2.42367	8.892	5.027	1.0936	1.08568	2.27E+01	2.01E+00	2.73E-04	8.53E-02	2.79E+00	4.72E-01	7.75E+00	7.38E+00	2.84E+01
1939	494361.06	3859351.99	3.23595	1.08176	2.55269	2.36513	8.687	5.344	1.0945	1.08176	2.26E+01	2.00E+00	2.66E-04	8.32E-02	2.72E+00	5.02E-01	7.76E+00	7.36E+00	2.83E+01
1940	494411.06	3859351.99	3.21984	1.07619	2.45284	2.26945	8.428	5.837	1.0929	1.07619	2.24E+01	1.99E+00	2.55E-04	7.99E-02	2.64E+00	5.49E-01	7.74E+00	7.32E+00	2.81E+01
1941	494461.06	3859351.99	3.20132	1.06888	2.3724	2.18525	8.335	5.477	1.0909	1.06888	2.23E+01	1.97E+00	2.47E-04	7.69E-02	2.61E+00	5.15E-01	7.73E+00	7.27E+00	2.80E+01
1942	494511.06	3859351.99	3.18243	1.05887	2.30334	2.13748	8.356	5.756	1.0858	1.05887	2.22E+01	1.96E+00	2.40E-04	7.52E-02	2.62E+00	5.41E-01	7.69E+00	7.20E+00	2.79E+01
1943	494561.06	3859351.99	3.16362	1.04684	2.2553	2.12304	8.482	6.224	1.0775	1.04684	2.21E+01	1.93E+00	2.35E-04	7.47E-02	2.66E+00	5.85E-01	7.63E+00	7.12E+00	2.78E+01
1944	494611.06	3859351.99	3.14443	1.03442	2.19855	2.07875	8.563	6.626	1.0687	1.03442	2.19E+01	1.91E+00	2.29E-04	7.32E-02	2.68E+00	6.23E-01	7.57E+00	7.03E+00	2.78E+01
1945	494661.06	3859351.99	3.12978	1.02431	2.1392	2.02794	8.611	6.902	1.0602	1.02431	2.18E+01	1.89E+00	2.23E-04	7.14E-02	2.70E+00	6.49E-01	7.51E+00	6.97E+00	2.77E+01
1946	494711.06	3859351.99	3.10909	1.01372	1.79792	1.97787	8.575	7.247	1.0513	1.01372	2.17E+01	1.87E+00	1.87E-04	6.96E-02	2.69E+00	6.81E-01	7.45E+00	6.89E+00	2.75E+01
1947	494761.06	3859351.99	3.08518	1.00326	1.66319	1.91079	8.416	7.64	1.0418	1.00326	2.15E+01	1.85E+00	1.73E-04	6.73E-02	2.64E+00	7.18E-01	7.38E+00	6.82E+00	2.73E+01
1948	494811.06	3859351.99	3.04811	0.99511	1.58759	1.82903	8.094	8.826	1.0346	0.99511	2.13E+01	1.84E+00	1.65E-04	6.44E-02	2.54E+00	8.30E-01	7.33E+00	6.77E+00	2.71E+01
1949	494861.06	3859351.99	3.0228	0.97308	1.55437	1.81217	8.075	10.93	1.0143	0.97308	2.11E+01	1.80E+00	1.62E-04	6.38E-02	2.53E+00	1.03E+00	7.19E+00	6.62E+00	2.71E+01
1950	494911.06	3859351.99	3.00065	0.94825	1.53215	1.80916	8.116	7.098	0.9958	0.94825	2.09E+01	1.75E+00	1.60E-04	6.37E-02	2.54E+00	6.67E-01	7.06E+00	6.45E+00	2.66E+01
1951	494961.06	3859351.99	2.97173	0.92376	1.49654	1.78094	8.015	5.826	0.9786	0.92376	2.07E+01	1.71E+00	1.56E-04	6.27E-02	2.51E+00	5.48E-01	6.93E+00	6.28E+00	2.62E+01
1952	495011.06	3859351.99	2.94633	0.90048	1.47176	1.76665	7.977	5.578	0.9593	0.90048	2.05E+01	1.66E+00	1.53E-04	6.22E-02	2.50E+00	5.24E-01	6.80E+00	6.12E+00	2.60E+01
1953	495061.06	3859351.99	2.93864	0.87566	1.47923	1.80889	8.243	5.621	0.9364	0.87566	2.05E+01	1.62E+00	1.54E-04	6.37E-02	2.58E+00	5.28E-01	6.63E+00	5.95E+00	2.60E+01
1954	495111.06	3859351.99	2.91223	0.85393	1.44993	1.7853	8.147	5.453	0.9151	0.85393	2.03E+01	1.58E+00	1.51E-04	6.28E-02	2.55E+00	5.13E-01	6.48E+00	5.81E+00	2.57E+01
1955	495161.06	3859351.99	2.89223	0.83024	1.43526	1.78188	8.155	5.557	0.892	0.83024	2.02E+01	1.53E+00	1.49E-04	6.27E-02	2.56E+00	5.22E-01	6.32E+00	5.65E+00	2.55E+01
1956	495211.06	3859351.99	2.87131	0.80612	1.41919	1.77346	8.149	5.756	0.8683	0.80612	2.00E+01	1.49E+00	1.48E-04	6.24E-02	2.55E+00	5.41E-01	6.15E+00	5.48E+00	2.53E+01
1957	495261.06	3859351.99	2.85541	0.78043	1.41472	1.77816	8.232	6.122	0.843	0.78043	1.99E+01	1.44E+00	1.47E-04	6.26E-02	2.58E+00	5.75E-01	5.97E+00	5.31E+00	2.52E+01
1958	495311.06	3859351.99	2.83113	0.75632	1.39288	1.7533	8.136	6.499	0.8183	0.75632	1.97E+01	1.40E+00	1.45E-04	6.17E-02	2.55E+00	6.11E-01	5.80E+00	5.14E+00	2.50E+01
1959	495361.06	3859351.99	2.81766	0.73087	1.38056	1.74087	8.113	6.959	0.7924	0.73087	1.96E+01	1.35E+00	1.44E-04	6.13E-02	2.54E+00	6.54E-01	5.61E+00	4.97E+00	2.49E+01
1960	495411.06	3859351.99	2.80728	0.70853	1.37483	1.73664	8.137	6.951	0.766	0.70853	1.96E+01	1.31E+00	1.43E-04	6.11E-02	2.55E+00	6.53E-01	5.43E+00	4.82E+00	2.48E+01
1961	495461.06	3859351.99	2.79906	0.69416	1.37399	1.74029	8.189	6.889	0.7397	0.69416	1.95E+01	1.28E+00	1.43E-04	6.13E-02	2.57E+00	6.48E-01	5.24E+00	4.72E+00	2.46E+01
1962	495511.06	3859351.99	2.77657	0.68401	1.3438	1.69815	7.952	6.192	0.7124	0.68401	1.94E+01	1.26E+00	1.40E-04	5.98E-02	2.49E+00	5.82E-01	5.05E+00	4.65E+00	2.42E+01
1963	495561.06	3859351.99	2.75744	0.67297	1.32203	1.66585	7.775	5.135	0.685	0.67297	1.92E+01	1.24E+00	1.38E-04	5.86E-02	2.44E+00	4.83E-01	4.85E+00	4.58E+00	2.37E+01
1964	495611.06	3859351.99	2.74187	0.66154	1.30713	1.64184	7.651	4.193	0.6604	0.66154	1.91E+01	1.22E+00	1.36E-04	5.78E-02	2.40E+00	3.94E-01	4.68E+00	4.50E+00	2.34E+01
1965	495661.06	3859351.99	2.71718	0.65008	1.27864	1.59418	7.373	3.765	0.6413	0.65008	1.89E+01	1.20E+00	1.33E-04	5.61E-02	2.31E+00	3.54E-01	4.54E+00	4.42E+00	2.30E+01
1966	494311.06	3859401.99	3.25275	1.08006	2.74989	2.52872	9.216	4.857	1.094	1.08006	2.27E+01	1.99E+00	2.86E-04	8.90E-02	2.89E+00	4.57E-01	7.75E+00	7.34E+00	2.85E+01
1967	494361.06	3859401.99	3.23974	1.08175	2.64131	2.4287	9.014	5.209	1.091	1.08175	2.26E+01	2.00E+00	2.75E-04	8.55E-02	2.82E+00	4.90E-01	7.73E+00	7.36E+00	2.84E+01
1968	494411.06	3859401.99	3.22707	1.07972	2.52956	2.33363	8.776	6.104	1.0881	1.07972	2.25E+01	1.99E+00	2.63E-04	8.21E-02	2.75E+00	5.74E-01	7.71E+00	7.34E+00	2.83E+01
1969	494461.06	3859401.99	3.21238	1.07518	2.45271	2.28322	8.55	6.031	1.087	1.07518	2.24E+01	1.99E+00	2.55E-04	8.04E-02	2.68E+00	5.67E-01	7.70E+00	7.31E+00	2.81E+01
1970	494511.06	3859401.99	3.19544	1.06887	2.40554	2.25617	8.36	5.585	1.0837	1.06887	2.23E+01	1.97E+00	2.50E-04	7.94E-02	2.62E+00	5.25E-01	7.68E+00	7.27E+00	2.79E+01
1971	494561.06	3859401.99	3.17803	1.06096	2.3478	2.19459	8.156	6.418	1.0782	1.06096	2.22E+01	1.96E+00	2.44E-04	7.72E-02	2.56E+00	6.03E-01	7.64E+00	7.21E+00	2.78E+01
1972	494611.06	3859401.99	3.16007	1.05086	2.27533	2.11862	8.067	6.374	1.0733	1.05086	2.20E+01	1.94E+00	2.37E-04	7.46E-02	2.53E+00	5.99E-01	7.61E+00	7.15E+00	2.76E+01
1973	494661.06	3859401.99	3.14225	1.03878	2.22762	2.09881	8.096	6.481	1.0648	1.03878	2.19E+01	1.92E+00	2.32E-04	7.39E-02	2.54E+00	6.09E-01	7.54E+00	7.06E+00	2.75E+01
1974	494711.06	3859401.99	3.12393	1.02452	2.16823	2.07016	8.197	6.866	1.0554	1.02452	2.18E+01	1.89E+00	2.26E-04	7.29E-02	2.57E+00	6.45E-01	7.48E+00	6.97E+00	2.75E+01
1975	494761.06	3859401.99	3.11047	1.01332	1.98401	1.93301	8.083	7.336	1.0482	1.01332	2.17E+01	1.87E+00	2.07E-04	6.80E-02	2.53E+00	6.90E-01	7.43E+00	6.89E+00	2.74E+01
1976	494811.06	3859401.99	3.08944	1.00795	1.74113	1.89158	8.078	8.22	1.0444	1.00795	2.15E+01	1.86E+00	1.81E-04	6.66E-02	2.53E+00	7.73E-01	7.40E+00	6.85E+00	2.73E+01
1977	494861.06	3859401.99	3.06354	0.99872	1.64337	1.83618	7.932	11.19	1.0366	0.99872	2.14E+01	1.84E+00	1.71E-04	6.46E-02	2.49E+00	1.05E+00	7.34E+00	6.79E+00	2.74E+01
1978	494911.06	3859401.99	3.04081	0.97891	1.58148	1.80193	7.908	7.686	1.0183	0.97891	2.12E+01	1.81E+00	1.65E-04	6.34E-02	2.48E+00	7.22E-01	7.22E+00	6.66E+00	2.68E+01
1979	494961.06	3859401.99	3.01888	0.95872	1.57638	1.81511	7.998	6.635	1.0005	0.95872	2.10E+01	1.77E+00	1.64E-04	6.39E-02	2.51E+00	6.24E-01	7.09E+00	6.52E+00	2.66E+01
1980	495011.06	3859401.99	3.00004	0.93391	1.56029	1.82448	8.11	6.444	0.9836	0.93391	2.09E+01	1.72E+00	1.62E-04	6.42E-02	2.54E+00	6.06E-01	6.97E+00	6.35E+00	2.65E+01
1981	495061.06	3859401.99	2.98452	0.90517	1.52407	1.82976	8.225	6.146	0.9624	0.90517	2.08E+01	1.67E+00	1.59E-04	6.44E-02	2.58E+00	5.78E-01	6.82E+00	6.16E+00	2.64E+01
1982	495111.06	3859401.99	2.96032	0.88441	1.49374	1.80815	8.184	5.577	0.9445	0.88441	2.06E+01	1.63E+00	1.56E-04	6.36E-02	2.56E+00	5.24E-01	6.69E+00	6.01E+00	2.61E+01
1983	495161.06	3859401.99	2.94067	0.86383	1.50492	1.8307	8.3	5.422	0.9253	0.86383	2.05E+01	1.60E+00	1.57E-04	6.44E-02	2.60E+00	5.10E-01	6.56E+00	5.87E+00	2.60E+01
1984	495211.06	3859401.99	2.92457	0.84078	1.50005	1.84695	8.421	5.558	0.9034	0.84078	2.04E+01	1.55E+00	1.56E-04	6.50E-02	2.64E+00	5.22E-01	6.40E+00	5.72E+00	2.59E+01
1985	495261.06	3859401.99	2.90506	0.81749	1.48328	1.84456	8.444	5.844	0.8809	0.81749	2.03E+01	1.51E+00	1.54E-04	6.49E-02	2.65E+00	5.49E-01	6.24E+00	5.56E+00	2.57E+01
1986	495311.06	3859401.99	2.88476	0.7938	1.46421	1.83653	8.433	6.218	0.8577	0.7938	2.01E+01	1.47E+00	1.52E-04	6.46E-02	2.64E+00	5.84E-01	6.08E+00	5.40E+00	2.55E+01
1987	495361.06	3859401.99	2.86967	0.76917	1.46315	1.85084	8.542	6.337	0.8338	0.76917	2.00E+01	1.42E+00	1.52E-04	6.51E-02	2.68E+00	5.96E-01	5.91E+00	5.23E+00	2.54E+01
1988	495411.06	3859401.99	2.85146	0.74458	1.45122	1.84772	8.578	6.37	0.8094	0.74458	1.99E+01	1.38E+00	1.51E-04	6.50E-02	2.69E+00	5.99E-01	5.74E+00	5.06E+00	2.53E+01
1989	495461.06	3859401.99	2.82987	0.71991	1.42794	1.82659	8.515	5.935	0.7844	0.71991	1.97E+01	1.33E+00	1.49E-04	6.43E-02	2.67E+00	5.58E-01	5.56E+00	4.90E+00	2.50E+01
1990	495511.06	3859401.99	2.80943	0.70272	1.39298	1.78821	8.351	4.971	0.7584	0.70272	1.96E+01	1.30E+00	1.45E-04	6.29E-02	2.62E+00	4.67E-01	5.37E+00	4.78E+00	2.46E+01
1991	495561.06	3859401.99	2.78693	0.69083	1.35468	1.7398	8.119	4.058	0.7322	0.69083	1.94E+01	1.28E+00	1.41E-04	6.12E-02	2.54E+00	3.81E-01	5.19E+00	4.70E+00	2.42E+01

1992	495611.06	3859401.99	2.7709	0.68056	1.33411	1.71442	8.015	3.698	0.7064	0.68056	1.93E+01	1.26E+00	1.39E-04	6.03E-02	2.51E+00	3.48E-01	5.01E+00	4.63E+00	2.39E+01
1993	495661.06	3859401.99	2.75625	0.66967	1.31722	1.69215	7.928	3.408	0.6802	0.66967	1.92E+01	1.24E+00	1.37E-04	5.96E-02	2.48E+00	3.20E-01	4.82E+00	4.55E+00	2.36E+01
1994	494311.06	3859451.99	3.25816	1.07378	2.71845	2.52807	9.301	5.061	1.0972	1.07378	2.27E+01	1.98E+00	2.83E-04	8.90E-02	2.91E+00	4.76E-01	7.77E+00	7.30E+00	2.86E+01
1995	494361.06	3859451.99	3.24661	1.07502	2.62303	2.45686	9.181	5.419	1.0942	1.07502	2.26E+01	1.99E+00	2.73E-04	8.65E-02	2.88E+00	5.09E-01	7.75E+00	7.31E+00	2.85E+01
1996	494411.06	3859451.99	3.23701	1.0783	2.48407	2.33783	8.988	6.33	1.0907	1.0783	2.26E+01	1.99E+00	2.59E-04	8.23E-02	2.82E+00	5.95E-01	7.73E+00	7.33E+00	2.84E+01
1997	494461.06	3859451.99	3.21971	1.07675	2.44813	2.33562	8.867	6.547	1.0865	1.07675	2.24E+01	1.99E+00	2.55E-04	8.22E-02	2.78E+00	6.15E-01	7.70E+00	7.32E+00	2.83E+01
1998	494511.06	3859451.99	3.20409	1.07341	2.37404	2.29323	8.686	6.098	1.0822	1.07341	2.23E+01	1.98E+00	2.47E-04	8.07E-02	2.72E+00	5.73E-01	7.67E+00	7.30E+00	2.81E+01
1999	494561.06	3859451.99	3.18725	1.06847	2.31923	2.26486	8.506	6.469	1.077	1.06847	2.22E+01	1.97E+00	2.41E-04	7.97E-02	2.67E+00	6.08E-01	7.63E+00	7.27E+00	2.79E+01
2000	494611.06	3859451.99	3.17018	1.06136	2.29241	2.26494	8.349	6.865	1.0699	1.06136	2.21E+01	1.96E+00	2.39E-04	7.97E-02	2.62E+00	6.45E-01	7.58E+00	7.22E+00	2.78E+01
2001	494661.06	3859451.99	3.154	1.05308	2.21673	2.17559	8.109	6.74	1.0667	1.05308	2.20E+01	1.94E+00	2.31E-04	7.66E-02	2.54E+00	6.34E-01	7.56E+00	7.16E+00	2.76E+01
2002	494711.06	3859451.99	3.13704	1.04294	2.14304	2.09551	7.873	6.954	1.0621	1.04294	2.19E+01	1.93E+00	2.23E-04	7.38E-02	2.47E+00	6.54E-01	7.53E+00	7.09E+00	2.74E+01
2003	494761.06	3859451.99	3.11972	1.03041	2.08528	2.04337	7.778	7.462	1.0543	1.03041	2.17E+01	1.90E+00	2.17E-04	7.19E-02	2.44E+00	7.01E-01	7.47E+00	7.01E+00	2.73E+01
2004	494811.06	3859451.99	3.10127	1.01656	1.9934	1.93384	7.66	8.084	1.0482	1.01656	2.16E+01	1.88E+00	2.08E-04	6.81E-02	2.40E+00	7.60E-01	7.43E+00	6.91E+00	2.72E+01
2005	494861.06	3859451.99	3.0907	1.00623	1.75057	1.88037	7.673	10.59	1.0405	1.00623	2.15E+01	1.86E+00	1.82E-04	6.62E-02	2.40E+00	9.95E-01	7.37E+00	6.84E+00	2.74E+01
2006	494911.06	3859451.99	3.07244	0.99264	1.69805	1.85768	7.749	9.612	1.0287	0.99264	2.14E+01	1.83E+00	1.77E-04	6.54E-02	2.43E+00	9.03E-01	7.29E+00	6.75E+00	2.72E+01
2007	494961.06	3859451.99	3.05478	0.97472	1.67387	1.86076	7.888	8.987	1.013	0.97472	2.13E+01	1.80E+00	1.74E-04	6.55E-02	2.47E+00	8.45E-01	7.18E+00	6.63E+00	2.70E+01
2008	495011.06	3859451.99	3.03616	0.95724	1.63961	1.85667	7.982	8.044	0.9973	0.95724	2.12E+01	1.77E+00	1.71E-04	6.53E-02	2.50E+00	7.56E-01	7.07E+00	6.51E+00	2.68E+01
2009	495061.06	3859451.99	3.01726	0.93693	1.60621	1.85577	8.073	7.244	0.9811	0.93693	2.10E+01	1.73E+00	1.67E-04	6.53E-02	2.53E+00	6.81E-01	6.95E+00	6.37E+00	2.66E+01
2010	495111.06	3859451.99	2.99777	0.91467	1.57535	1.85236	8.142	6.661	0.9665	0.91467	2.09E+01	1.69E+00	1.64E-04	6.52E-02	2.55E+00	6.26E-01	6.85E+00	6.22E+00	2.65E+01
2011	495161.06	3859451.99	2.98032	0.88913	1.56532	1.86702	8.282	6.47	0.9485	0.88913	2.08E+01	1.64E+00	1.63E-04	6.57E-02	2.59E+00	6.08E-01	6.72E+00	6.05E+00	2.64E+01
2012	495211.06	3859451.99	2.96362	0.8676	1.56275	1.88624	8.435	6.521	0.9286	0.8676	2.07E+01	1.60E+00	1.63E-04	6.64E-02	2.64E+00	6.13E-01	6.58E+00	5.90E+00	2.63E+01
2013	495261.06	3859451.99	2.94641	0.84596	1.5588	1.90086	8.56	6.621	0.9085	0.84596	2.05E+01	1.56E+00	1.62E-04	6.69E-02	2.68E+00	6.22E-01	6.44E+00	5.75E+00	2.62E+01
2014	495311.06	3859451.99	2.92753	0.82511	1.53529	1.89851	8.602	6.485	0.8889	0.82511	2.04E+01	1.52E+00	1.60E-04	6.68E-02	2.70E+00	6.10E-01	6.30E+00	5.61E+00	2.60E+01
2015	495361.06	3859451.99	2.90926	0.80287	1.52011	1.90042	8.656	6.156	0.8677	0.80287	2.03E+01	1.48E+00	1.58E-04	6.69E-02	2.71E+00	5.79E-01	6.15E+00	5.46E+00	2.58E+01
2016	495411.06	3859451.99	2.88988	0.78031	1.49529	1.89255	8.659	5.609	0.8461	0.78031	2.01E+01	1.44E+00	1.56E-04	6.66E-02	2.71E+00	5.27E-01	5.99E+00	5.31E+00	2.56E+01
2017	495461.06	3859451.99	2.87133	0.75711	1.47859	1.88874	8.673	4.706	0.8234	0.75711	2.00E+01	1.40E+00	1.54E-04	6.65E-02	2.72E+00	4.42E-01	5.83E+00	5.15E+00	2.53E+01
2018	495511.06	3859451.99	2.84744	0.73483	1.43057	1.85045	8.517	4.221	0.801	0.73483	1.99E+01	1.36E+00	1.49E-04	6.51E-02	2.67E+00	3.97E-01	5.68E+00	5.00E+00	2.50E+01
2019	495561.06	3859451.99	2.82639	0.71288	1.40348	1.83075	8.456	3.885	0.7767	0.71288	1.97E+01	1.32E+00	1.46E-04	6.44E-02	2.65E+00	3.65E-01	5.50E+00	4.85E+00	2.48E+01
2020	495611.06	3859451.99	2.80526	0.69778	1.37794	1.81006	8.394	3.527	0.7516	0.69778	1.96E+01	1.29E+00	1.43E-04	6.37E-02	2.63E+00	3.31E-01	5.33E+00	4.74E+00	2.45E+01
2021	495661.06	3859451.99	2.78903	0.68612	1.35507	1.78975	8.33	3.245	0.7263	0.68612	1.94E+01	1.27E+00	1.41E-04	6.30E-02	2.61E+00	3.05E-01	5.15E+00	4.67E+00	2.42E+01
2022	494311.06	3859501.99	3.25458	1.0669	2.56575	2.52681	9.211	6.984	1.0993	1.0669	2.27E+01	1.97E+00	2.67E-04	8.89E-02	2.89E+00	6.56E-01	7.79E+00	7.25E+00	2.88E+01
2023	494361.06	3859501.99	3.24582	1.06762	2.45457	2.46644	9.164	7.321	1.0974	1.06762	2.26E+01	1.97E+00	2.56E-04	8.68E-02	2.87E+00	6.88E-01	7.78E+00	7.26E+00	2.88E+01
2024	494411.06	3859501.99	3.24259	1.07065	2.29162	2.33537	9.031	8.189	1.0945	1.07065	2.26E+01	1.98E+00	2.39E-04	8.22E-02	2.83E+00	7.70E-01	7.76E+00	7.28E+00	2.87E+01
2025	494461.06	3859501.99	3.22279	1.07031	2.30495	2.38199	9.003	8.586	1.0907	1.07031	2.25E+01	1.98E+00	2.40E-04	8.38E-02	2.82E+00	8.07E-01	7.73E+00	7.28E+00	2.86E+01
2026	494511.06	3859501.99	3.21037	1.07191	2.22823	2.336	8.879	8.352	1.0866	1.07191	2.24E+01	1.98E+00	2.32E-04	8.22E-02	2.78E+00	7.85E-01	7.70E+00	7.29E+00	2.84E+01
2027	494561.06	3859501.99	3.19606	1.07079	2.1664	2.30153	8.746	8.261	1.0813	1.07079	2.23E+01	1.98E+00	2.26E-04	8.10E-02	2.74E+00	7.77E-01	7.66E+00	7.28E+00	2.82E+01
2028	494611.06	3859501.99	3.17616	1.06557	2.18463	2.34913	8.679	9.54	1.0749	1.06557	2.21E+01	1.97E+00	2.27E-04	8.27E-02	2.72E+00	8.97E-01	7.62E+00	7.25E+00	2.82E+01
2029	494661.06	3859501.99	3.16296	1.0611	2.10005	2.2851	8.485	9.935	1.0701	1.0611	2.21E+01	1.96E+00	2.19E-04	8.04E-02	2.66E+00	9.34E-01	7.58E+00	7.22E+00	2.81E+01
2030	494711.06	3859501.99	3.14841	1.05448	1.99855	2.18178	8.239	9.243	1.0638	1.05448	2.19E+01	1.95E+00	2.08E-04	7.68E-02	2.58E+00	8.69E-01	7.54E+00	7.17E+00	2.78E+01
2031	494761.06	3859501.99	3.13049	1.0452	1.99108	2.20205	8.108	9.78	1.055	1.0452	2.18E+01	1.93E+00	2.07E-04	7.75E-02	2.54E+00	9.19E-01	7.48E+00	7.11E+00	2.77E+01
2032	494811.06	3859501.99	3.11291	1.03473	1.86656	2.01021	7.766	9.207	1.0536	1.03473	2.17E+01	1.91E+00	1.94E-04	7.08E-02	2.43E+00	8.65E-01	7.47E+00	7.04E+00	2.74E+01
2033	494861.06	3859501.99	3.0964	1.02172	1.82588	1.97228	7.554	11.59	1.0444	1.02172	2.16E+01	1.89E+00	1.90E-04	6.94E-02	2.37E+00	1.09E+00	7.40E+00	6.95E+00	2.75E+01
2034	494911.06	3859501.99	3.0802	1.00729	1.80535	1.96678	7.5	13.42	1.0321	1.00729	2.15E+01	1.86E+00	1.88E-04	6.92E-02	2.35E+00	1.26E+00	7.31E+00	6.85E+00	2.75E+01
2035	494961.06	3859501.99	3.06296	0.99215	1.75849	1.89116	7.453	11.97	1.0224	0.99215	2.14E+01	1.83E+00	1.83E-04	6.66E-02	2.34E+00	1.13E+00	7.24E+00	6.75E+00	2.72E+01
2036	495011.06	3859501.99	3.04652	0.97483	1.74195	1.89562	7.566	11.37	1.0073	0.97483	2.12E+01	1.80E+00	1.81E-04	6.67E-02	2.37E+00	1.07E+00	7.14E+00	6.63E+00	2.71E+01
2037	495061.06	3859501.99	3.03003	0.95583	1.72642	1.89956	7.742	10.09	0.9904	0.95583	2.11E+01	1.77E+00	1.80E-04	6.69E-02	2.43E+00	9.49E-01	7.02E+00	6.50E+00	2.68E+01
2038	495111.06	3859501.99	3.02175	0.93575	1.58954	1.87007	7.803	8.57	0.9757	0.93575	2.11E+01	1.73E+00	1.65E-04	6.58E-02	2.44E+00	8.06E-01	6.91E+00	6.36E+00	2.67E+01
2039	495161.06	3859501.99	3.00513	0.91382	1.57731	1.88137	7.96	7.552	0.9596	0.91382	2.10E+01	1.69E+00	1.64E-04	6.62E-02	2.49E+00	7.10E-01	6.80E+00	6.21E+00	2.65E+01
2040	495211.06	3859501.99	2.98871	0.89085	1.57709	1.90801	8.159	6.758	0.9425	0.89085	2.08E+01	1.65E+00	1.64E-04	6.72E-02	2.56E+00	6.35E-01	6.68E+00	6.06E+00	2.64E+01
2041	495261.06	3859501.99	2.97185	0.86778	1.5636	1.91455	8.299	6.217	0.9262	0.86778	2.07E+01	1.60E+00	1.63E-04	6.74E-02	2.60E+00	5.84E-01	6.56E+00	5.90E+00	2.62E+01
2042	495311.06	3859501.99	2.95505	0.84877	1.55571	1.93023	8.445	5.702	0.9082	0.84877	2.06E+01	1.57E+00	1.62E-04	6.79E-02	2.65E+00	5.36E-01	6.43E+00	5.77E+00	2.61E+01
2043	495361.06	3859501.99	2.93791	0.8288	1.5374	1.92839	8.538	5.242	0.8903	0.8288	2.05E+01	1.53E+00	1.60E-04	6.79E-02	2.68E+00	4.93E-01	6.31E+00	5.64E+00	2.59E+01
2044	495411.06	3859501.99	2.92068	0.80806	1.52097	1.92334	8.623	4.537	0.8712	0.80806	2.04E+01	1.49E+00	1.58E-04	6.77E-02	2.70E+00	4.26E-01	6.17E+00	5.49E+00	2.57E+01
2045	495461.06	3859501.99	2.90298	0.78683	1.49805	1.91813	8.666	4.235	0.8521	0.78683	2.02E+01	1.45E+00	1.56E-04	6.75E-02	2.72E+00	3.98E-01	6.04E+00	5.35E+00	2.56E+01
2046	495511.06	3859501.99	2.88265	0.76718	1.42593	1.86851	8.52	3.85	0.8339	0.76718	2.01E+01	1.42E+00	1.48E-04	6.58E-02	2.67E+00	3.62E-01	5.91E+00	5.22E+00	2.53E+01
2047	495561.06	3859501.99	2.86492	0.74542	1.44531	1.88479	8.612	3.575	0.8132	0.74542	2.00E+01	1.38E+00	1.50E-04	6.63E-02	2.70E+00	3.36E-01	5.76E+00	5.07E+00	2.51E+01
2048	495611.06	3859501.99	2.84545	0.72298	1.42326	1.86908	8.574	3.296	0.7912	0.72298	1.98E+01	1.34E+00	1.48E-04	6.58E-02	2.69E+00	3.10E-01	5.61E+00	4.92E+00	2.49E+01

2049	495661.06	3859501.99	2.82502	0.70642	1.39684	1.84696	8.499	3.046	0.7683	0.70642	1.97E+01	1.30E+00	1.45E-04	6.50E-02	2.66E+00	2.86E-01	5.44E+00	4.80E+00	2.47E+01
2050	494311.06	3859551.99	3.24505	1.06867	2.73454	2.50293	9.115	7.7	1.0987	1.06867	2.26E+01	1.97E+00	2.85E-04	8.81E-02	2.86E+00	7.24E-01	7.78E+00	7.27E+00	2.88E+01
2051	494361.06	3859551.99	3.23957	1.05968	2.56409	2.43826	9.078	9.876	1.0924	1.05968	2.26E+01	1.96E+00	2.67E-04	8.58E-02	2.84E+00	9.28E-01	7.74E+00	7.21E+00	2.89E+01
2052	494411.06	3859551.99	3.24096	1.05719	2.37564	2.32819	9.006	14.96	1.093	1.05719	2.26E+01	1.95E+00	2.47E-04	8.19E-02	2.82E+00	1.41E+00	7.74E+00	7.19E+00	2.94E+01
2053	494461.06	3859551.99	3.22016	1.0633	2.43194	2.39853	8.936	17.93	1.0945	1.0633	2.25E+01	1.96E+00	2.53E-04	8.44E-02	2.80E+00	1.69E+00	7.75E+00	7.23E+00	2.95E+01
2054	494511.06	3859551.99	3.20985	1.06498	2.33699	2.3616	8.884	19.39	1.0912	1.06498	2.24E+01	1.97E+00	2.43E-04	8.31E-02	2.78E+00	1.82E+00	7.73E+00	7.24E+00	2.95E+01
2055	494561.06	3859551.99	3.19674	1.06525	2.27077	2.34336	8.823	19.71	1.0871	1.06525	2.23E+01	1.97E+00	2.36E-04	8.25E-02	2.76E+00	1.85E+00	7.70E+00	7.24E+00	2.94E+01
2056	494611.06	3859551.99	3.18072	1.06381	2.24217	2.35298	8.766	19.77	1.0816	1.06381	2.22E+01	1.96E+00	2.33E-04	8.28E-02	2.75E+00	1.86E+00	7.66E+00	7.23E+00	2.93E+01
2057	494661.06	3859551.99	3.1662	1.06178	2.19009	2.34149	8.677	20.52	1.0753	1.06178	2.21E+01	1.96E+00	2.28E-04	8.24E-02	2.72E+00	1.93E+00	7.62E+00	7.22E+00	2.92E+01
2058	494711.06	3859551.99	3.1589	1.06089	2.01009	2.19526	8.437	20.39	1.0712	1.06089	2.20E+01	1.96E+00	2.09E-04	7.73E-02	2.64E+00	1.92E+00	7.59E+00	7.21E+00	2.90E+01
2059	494761.06	3859551.99	3.13863	1.05413	2.05103	2.27414	8.41	22.79	1.064	1.05413	2.19E+01	1.95E+00	2.14E-04	8.00E-02	2.64E+00	2.14E+00	7.54E+00	7.17E+00	2.91E+01
2060	494811.06	3859551.99	3.12613	1.04713	1.94002	2.1679	8.178	23.39	1.0573	1.04713	2.18E+01	1.93E+00	2.02E-04	7.63E-02	2.56E+00	2.20E+00	7.49E+00	7.12E+00	2.89E+01
2061	494861.06	3859551.99	3.10882	1.03792	1.89717	2.10812	8.015	23.6	1.0488	1.03792	2.17E+01	1.92E+00	1.98E-04	7.42E-02	2.51E+00	2.22E+00	7.43E+00	7.06E+00	2.88E+01
2062	494911.06	3859551.99	3.09125	1.02714	1.84377	2.04446	7.819	17.66	1.0392	1.02714	2.16E+01	1.90E+00	1.92E-04	7.20E-02	2.45E+00	1.66E+00	7.36E+00	6.98E+00	2.80E+01
2063	494961.06	3859551.99	3.07419	1.01427	1.82118	2.041	7.663	13.57	1.0275	1.01427	2.14E+01	1.87E+00	1.90E-04	7.18E-02	2.40E+00	1.28E+00	7.28E+00	6.90E+00	2.74E+01
2064	495011.06	3859551.99	3.05887	0.99987	1.80634	2.04854	7.512	11.1	1.0144	0.99987	2.13E+01	1.85E+00	1.88E-04	7.21E-02	2.35E+00	1.04E+00	7.19E+00	6.80E+00	2.70E+01
2065	495061.06	3859551.99	3.04309	0.98361	1.76981	2.0196	7.413	9.388	1	0.98361	2.12E+01	1.82E+00	1.84E-04	7.11E-02	2.32E+00	8.82E-01	7.09E+00	6.69E+00	2.67E+01
2066	495111.06	3859551.99	3.02702	0.96569	1.72199	1.97661	7.396	8.101	0.9873	0.96569	2.11E+01	1.78E+00	1.79E-04	6.96E-02	2.32E+00	7.61E-01	7.00E+00	6.57E+00	2.65E+01
2067	495161.06	3859551.99	3.01147	0.94695	1.70866	1.98417	7.527	7.214	0.97	0.94695	2.10E+01	1.75E+00	1.78E-04	6.98E-02	2.36E+00	6.78E-01	6.87E+00	6.44E+00	2.63E+01
2068	495211.06	3859551.99	2.99586	0.92728	1.70337	2.00657	7.745	6.523	0.9511	0.92728	2.09E+01	1.71E+00	1.77E-04	7.06E-02	2.43E+00	6.13E-01	6.74E+00	6.31E+00	2.61E+01
2069	495261.06	3859551.99	2.97971	0.90534	1.66739	1.98937	7.869	5.945	0.9386	0.90534	2.08E+01	1.67E+00	1.74E-04	7.00E-02	2.47E+00	5.59E-01	6.65E+00	6.16E+00	2.60E+01
2070	495311.06	3859551.99	2.96362	0.88269	1.64107	1.98892	8.007	5.564	0.9242	0.88269	2.07E+01	1.63E+00	1.71E-04	7.00E-02	2.51E+00	5.23E-01	6.55E+00	6.00E+00	2.59E+01
2071	495361.06	3859551.99	2.9475	0.86118	1.62166	1.998	8.158	5.133	0.9082	0.86118	2.05E+01	1.59E+00	1.69E-04	7.03E-02	2.56E+00	4.82E-01	6.44E+00	5.86E+00	2.58E+01
2072	495411.06	3859551.99	2.93157	0.84287	1.60879	2.01398	8.319	4.73	0.8909	0.84287	2.04E+01	1.56E+00	1.67E-04	7.09E-02	2.61E+00	4.45E-01	6.31E+00	5.73E+00	2.57E+01
2073	495461.06	3859551.99	2.91462	0.82287	1.56754	1.95827	8.362	4.481	0.8762	0.82287	2.03E+01	1.52E+00	1.63E-04	6.89E-02	2.62E+00	4.21E-01	6.21E+00	5.60E+00	2.56E+01
2074	495511.06	3859551.99	2.90731	0.80142	1.50657	1.91461	8.376	4.191	0.86	0.80142	2.03E+01	1.48E+00	1.57E-04	6.74E-02	2.62E+00	3.94E-01	6.09E+00	5.45E+00	2.55E+01
2075	495561.06	3859551.99	2.89067	0.78013	1.4841	1.90605	8.448	3.919	0.841	0.78013	2.02E+01	1.44E+00	1.55E-04	6.71E-02	2.65E+00	3.68E-01	5.96E+00	5.30E+00	2.53E+01
2076	495611.06	3859551.99	2.87385	0.75818	1.46801	1.88621	8.497	3.707	0.8213	0.75818	2.00E+01	1.40E+00	1.53E-04	6.64E-02	2.66E+00	3.48E-01	5.82E+00	5.16E+00	2.52E+01
2077	495661.06	3859551.99	2.85614	0.7362	1.44807	1.86997	8.497	3.505	0.8023	0.7362	1.99E+01	1.36E+00	1.51E-04	6.58E-02	2.66E+00	3.29E-01	5.68E+00	5.01E+00	2.50E+01
2078	494311.06	3859601.99	3.22522	1.07901	2.97109	2.53477	8.887	9.044	1.1012	1.07901	2.25E+01	1.99E+00	3.09E-04	8.92E-02	2.78E+00	8.50E-01	7.80E+00	7.34E+00	2.87E+01
2079	494361.06	3859601.99	3.2348	1.06215	2.69586	2.40519	8.933	11.78	1.0967	1.06215	2.26E+01	1.96E+00	2.81E-04	8.47E-02	2.80E+00	1.11E+00	7.77E+00	7.22E+00	2.91E+01
2080	494411.06	3859601.99	3.23083	1.06342	2.59954	2.36509	8.933	15.03	1.0989	1.06342	2.25E+01	1.96E+00	2.71E-04	8.32E-02	2.80E+00	1.41E+00	7.79E+00	7.23E+00	2.93E+01
2081	494461.06	3859601.99	3.20978	1.0628	2.64479	2.41782	8.914	12.6	1.097	1.0628	2.24E+01	1.96E+00	2.75E-04	8.51E-02	2.79E+00	1.18E+00	7.77E+00	7.23E+00	2.89E+01
2082	494511.06	3859601.99	3.20606	1.05797	2.52191	2.35341	8.873	11.36	1.0949	1.05797	2.24E+01	1.95E+00	2.63E-04	8.28E-02	2.78E+00	1.07E+00	7.76E+00	7.19E+00	2.88E+01
2083	494561.06	3859601.99	3.18776	1.05866	2.54173	2.38771	8.813	10.95	1.0918	1.05866	2.22E+01	1.96E+00	2.65E-04	8.40E-02	2.76E+00	1.03E+00	7.74E+00	7.20E+00	2.86E+01
2084	494611.06	3859601.99	3.17232	1.05903	2.52882	2.40524	8.728	10.75	1.0875	1.05903	2.21E+01	1.96E+00	2.63E-04	8.47E-02	2.73E+00	1.01E+00	7.70E+00	7.20E+00	2.84E+01
2085	494661.06	3859601.99	3.16667	1.05457	2.37811	2.3161	8.645	10.92	1.0788	1.05457	2.21E+01	1.95E+00	2.48E-04	8.15E-02	2.71E+00	1.03E+00	7.64E+00	7.17E+00	2.83E+01
2086	494711.06	3859601.99	3.15945	1.06129	2.27425	2.2487	8.54	11.56	1.0783	1.06129	2.20E+01	1.96E+00	2.37E-04	7.91E-02	2.68E+00	1.09E+00	7.64E+00	7.22E+00	2.83E+01
2087	494761.06	3859601.99	3.13591	1.05361	2.36966	2.35468	8.561	10.66	1.0698	1.05361	2.19E+01	1.95E+00	2.47E-04	8.29E-02	2.68E+00	1.00E+00	7.58E+00	7.16E+00	2.80E+01
2088	494811.06	3859601.99	3.12828	1.05313	2.23671	2.26427	8.412	10.81	1.0648	1.05313	2.18E+01	1.95E+00	2.33E-04	7.97E-02	2.64E+00	1.02E+00	7.54E+00	7.16E+00	2.79E+01
2089	494861.06	3859601.99	3.11341	1.04716	2.19965	2.25293	8.311	11.09	1.0582	1.04716	2.17E+01	1.93E+00	2.29E-04	7.93E-02	2.60E+00	1.04E+00	7.50E+00	7.12E+00	2.77E+01
2090	494911.06	3859601.99	3.10098	1.03961	2.10925	2.18659	8.141	11.28	1.0507	1.03961	2.16E+01	1.92E+00	2.20E-04	7.70E-02	2.55E+00	1.06E+00	7.44E+00	7.07E+00	2.76E+01
2091	494961.06	3859601.99	3.08235	1.02932	2.14311	2.24381	8.081	10.75	1.0403	1.02932	2.15E+01	1.90E+00	2.23E-04	7.90E-02	2.53E+00	1.01E+00	7.37E+00	7.00E+00	2.74E+01
2092	495011.06	3859601.99	3.06944	1.01853	2.04644	2.15936	7.874	9.566	1.0308	1.01853	2.14E+01	1.88E+00	2.13E-04	7.60E-02	2.47E+00	8.99E-01	7.30E+00	6.93E+00	2.71E+01
2093	495061.06	3859601.99	3.05219	1.00555	2.05169	2.19179	7.765	8.691	1.0184	1.00555	2.13E+01	1.86E+00	2.14E-04	7.71E-02	2.43E+00	8.17E-01	7.22E+00	6.84E+00	2.68E+01
2094	495111.06	3859601.99	3.0361	0.99123	1.98895	2.10977	7.568	8.036	1.0058	0.99123	2.12E+01	1.83E+00	2.07E-04	7.43E-02	2.37E+00	7.55E-01	7.13E+00	6.74E+00	2.66E+01
2095	495161.06	3859601.99	3.02134	0.97538	1.98147	2.12877	7.428	7.275	0.991	0.97538	2.11E+01	1.80E+00	2.06E-04	7.49E-02	2.33E+00	6.84E-01	7.02E+00	6.63E+00	2.63E+01
2096	495211.06	3859601.99	3.00647	0.95816	1.95413	2.09826	7.325	6.661	0.9755	0.95816	2.10E+01	1.77E+00	2.03E-04	7.39E-02	2.29E+00	6.26E-01	6.91E+00	6.52E+00	2.61E+01
2097	495261.06	3859601.99	2.99141	0.93965	1.93693	2.09403	7.37	6.209	0.9584	0.93965	2.09E+01	1.74E+00	2.02E-04	7.37E-02	2.31E+00	5.84E-01	6.79E+00	6.39E+00	2.60E+01
2098	495311.06	3859601.99	2.97644	0.9201	1.92354	2.09769	7.502	5.69	0.9426	0.9201	2.08E+01	1.70E+00	2.00E-04	7.38E-02	2.35E+00	5.35E-01	6.68E+00	6.26E+00	2.58E+01
2099	495361.06	3859601.99	2.96123	0.89938	1.88989	2.06235	7.659	5.183	0.9287	0.89938	2.06E+01	1.66E+00	1.97E-04	7.26E-02	2.40E+00	4.87E-01	6.58E+00	6.12E+00	2.57E+01
2100	495411.06	3859601.99	2.94596	0.87776	1.87344	2.06168	7.837	4.766	0.9135	0.87776	2.05E+01	1.62E+00	1.95E-04	7.26E-02	2.46E+00	4.48E-01	6.47E+00	5.97E+00	2.56E+01
2101	495461.06	3859601.99	2.93013	0.85647	1.79859	1.99518	7.893	4.503	0.8973	0.85647	2.04E+01	1.58E+00	1.87E-04	7.02E-02	2.47E+00	4.23E-01	6.36E+00	5.82E+00	2.55E+01
2102	495511.06	3859601.99	2.91405	0.83613	1.73497	1.95369	7.953	4.258	0.8808	0.83613	2.03E+01	1.54E+00	1.81E-04	6.88E-02	2.49E+00	4.00E-01	6.24E+00	5.69E+00	2.54E+01
2103	495561.06	3859601.99	2.89882	0.81772	1.73222	1.97619	8.135	4.028	0.8623	0.81772	2.02E+01	1.51E+00	1.80E-04	6.96E-02	2.55E+00	3.79E-01	6.11E+00	5.56E+00	2.53E+01
2104	495611.06	3859601.99	2.88211	0.79584	1.65936	1.90919	8.143	3.808	0.8478	0.79584	2.01E+01	1.47E+00	1.73E-04	6.72E-02	2.55E+00	3.58E-01	6.01E+00	5.41E+00	2.51E+01
2105	495661.06	3859601.99	2.8665	0.77529	1.64256	1.9158	8.267	3.648	0.8285	0.77529	2.00E+01	1.43E+00	1.71E-04	6.74E-02	2.59E+00	3.43E-01	5.87E+00	5.27E+00	2.50E+01

2106	494311.06	3859651.99	3.20893	1.0868	3.15011	2.54558	8.558	9.758	1.1069	1.0868	2.24E+01	2.01E+00	3.28E-04	8.96E-02	2.68E+00	9.17E-01	7.84E+00	7.39E+00	2.85E+01
2107	494361.06	3859651.99	3.22	1.06256	2.90775	2.42062	8.663	11.71	1.1006	1.06256	2.24E+01	1.96E+00	3.03E-04	8.52E-02	2.71E+00	1.10E+00	7.80E+00	7.23E+00	2.89E+01
2108	494411.06	3859651.99	3.21102	1.06019	2.83957	2.39914	8.709	13.19	1.0995	1.06019	2.24E+01	1.96E+00	2.96E-04	8.44E-02	2.73E+00	1.24E+00	7.79E+00	7.21E+00	2.90E+01
2109	494461.06	3859651.99	3.19085	1.06246	2.88443	2.4462	8.714	11.76	1.0979	1.06246	2.22E+01	1.96E+00	3.00E-04	8.61E-02	2.73E+00	1.11E+00	7.78E+00	7.22E+00	2.87E+01
2110	494511.06	3859651.99	3.18306	1.05893	2.80419	2.42902	8.721	8.9	1.0962	1.05893	2.22E+01	1.96E+00	2.92E-04	8.55E-02	2.73E+00	8.37E-01	7.77E+00	7.20E+00	2.84E+01
2111	494561.06	3859651.99	3.17055	1.05671	2.78001	2.43815	8.719	8.725	1.0936	1.05671	2.21E+01	1.95E+00	2.89E-04	8.58E-02	2.73E+00	8.20E-01	7.75E+00	7.19E+00	2.83E+01
2112	494611.06	3859651.99	3.15858	1.05315	2.74668	2.44033	8.701	8.657	1.0902	1.05315	2.20E+01	1.95E+00	2.86E-04	8.59E-02	2.73E+00	8.14E-01	7.72E+00	7.16E+00	2.82E+01
2113	494661.06	3859651.99	3.15832	1.04691	2.52917	2.33069	8.664	8.539	1.0826	1.04691	2.20E+01	1.93E+00	2.63E-04	8.20E-02	2.71E+00	8.03E-01	7.67E+00	7.12E+00	2.81E+01
2114	494711.06	3859651.99	3.14505	1.0477	2.51079	2.33176	8.601	7.656	1.0786	1.0477	2.19E+01	1.94E+00	2.61E-04	8.21E-02	2.70E+00	7.20E-01	7.64E+00	7.12E+00	2.79E+01
2115	494761.06	3859651.99	3.13121	1.05304	2.52882	2.35766	8.524	6.604	1.0789	1.05304	2.18E+01	1.94E+00	2.63E-04	8.30E-02	2.67E+00	6.21E-01	7.64E+00	7.16E+00	2.76E+01
2116	494811.06	3859651.99	3.12221	1.05142	2.45273	2.31579	8.442	6.998	1.073	1.05142	2.18E+01	1.94E+00	2.55E-04	8.15E-02	2.65E+00	6.58E-01	7.60E+00	7.15E+00	2.75E+01
2117	494861.06	3859651.99	3.10814	1.04743	2.43185	2.31937	8.401	6.849	1.0654	1.04743	2.17E+01	1.93E+00	2.53E-04	8.16E-02	2.63E+00	6.44E-01	7.55E+00	7.12E+00	2.74E+01
2118	494911.06	3859651.99	3.09583	1.0426	2.38417	2.30015	8.33	6.861	1.0572	1.0426	2.16E+01	1.93E+00	2.48E-04	8.10E-02	2.61E+00	6.45E-01	7.49E+00	7.09E+00	2.72E+01
2119	494961.06	3859651.99	3.0819	1.03602	2.35592	2.29553	8.254	7.137	1.0479	1.03602	2.15E+01	1.91E+00	2.45E-04	8.08E-02	2.59E+00	6.71E-01	7.42E+00	7.04E+00	2.71E+01
2120	495011.06	3859651.99	3.06844	1.02921	2.31515	2.27998	8.155	7.344	1.0407	1.02921	2.14E+01	1.90E+00	2.41E-04	8.02E-02	2.56E+00	6.90E-01	7.37E+00	7.00E+00	2.70E+01
2121	495061.06	3859651.99	3.05315	1.0193	2.30037	2.28481	8.06	7.347	1.0304	1.0193	2.13E+01	1.88E+00	2.39E-04	8.04E-02	2.53E+00	6.91E-01	7.30E+00	6.93E+00	2.68E+01
2122	495111.06	3859651.99	3.03988	1.00902	2.25	2.25603	7.927	7.106	1.0211	1.00902	2.12E+01	1.86E+00	2.34E-04	7.94E-02	2.48E+00	6.68E-01	7.23E+00	6.86E+00	2.67E+01
2123	495161.06	3859651.99	3.02492	0.99634	2.22215	2.246	7.799	6.639	1.009	0.99634	2.11E+01	1.84E+00	2.31E-04	7.91E-02	2.44E+00	6.24E-01	7.15E+00	6.77E+00	2.65E+01
2124	495211.06	3859651.99	3.00931	0.98218	2.20647	2.24662	7.671	6.082	0.9955	0.98218	2.10E+01	1.81E+00	2.30E-04	7.91E-02	2.40E+00	5.72E-01	7.05E+00	6.68E+00	2.62E+01
2125	495261.06	3859651.99	2.99466	0.96655	2.17401	2.23161	7.519	5.55	0.9811	0.96655	2.09E+01	1.79E+00	2.26E-04	7.85E-02	2.36E+00	5.22E-01	6.95E+00	6.57E+00	2.60E+01
2126	495311.06	3859651.99	2.98096	0.94968	2.15099	2.22464	7.367	5.208	0.9655	0.94968	2.08E+01	1.75E+00	2.24E-04	7.83E-02	2.31E+00	4.90E-01	6.84E+00	6.46E+00	2.58E+01
2127	495361.06	3859651.99	2.96703	0.93154	2.13245	2.22082	7.25	4.969	0.9486	0.93154	2.07E+01	1.72E+00	2.22E-04	7.82E-02	2.27E+00	4.67E-01	6.72E+00	6.33E+00	2.56E+01
2128	495411.06	3859651.99	2.95354	0.9123	2.09947	2.20051	7.28	4.776	0.9353	0.9123	2.06E+01	1.68E+00	2.19E-04	7.74E-02	2.28E+00	4.49E-01	6.63E+00	6.20E+00	2.55E+01
2129	495461.06	3859651.99	2.94104	0.89141	2.02572	2.1265	7.315	4.579	0.9222	0.89141	2.05E+01	1.65E+00	2.11E-04	7.48E-02	2.29E+00	4.30E-01	6.53E+00	6.06E+00	2.54E+01
2130	495511.06	3859651.99	2.92636	0.86928	1.96502	2.0132	7.429	4.446	0.9076	0.86928	2.04E+01	1.61E+00	2.05E-04	7.09E-02	2.33E+00	4.18E-01	6.43E+00	5.91E+00	2.53E+01
2131	495561.06	3859651.99	2.9117	0.85151	1.94472	2.00219	7.597	4.241	0.8917	0.85151	2.03E+01	1.57E+00	2.02E-04	7.05E-02	2.38E+00	3.99E-01	6.32E+00	5.79E+00	2.52E+01
2132	495611.06	3859651.99	2.89679	0.83277	1.90578	1.97097	7.723	4.044	0.8748	0.83277	2.02E+01	1.54E+00	1.98E-04	6.94E-02	2.42E+00	3.80E-01	6.20E+00	5.66E+00	2.51E+01
2133	495661.06	3859651.99	2.88162	0.81272	1.8604	1.94532	7.827	3.851	0.8568	0.81272	2.01E+01	1.50E+00	1.94E-04	6.85E-02	2.45E+00	3.62E-01	6.07E+00	5.53E+00	2.50E+01
2134	494311.06	3859701.99	3.20582	1.06613	3.04442	2.45803	8.56	9.992	1.1006	1.06613	2.24E+01	1.97E+00	3.17E-04	8.65E-02	2.68E+00	9.39E-01	7.80E+00	7.25E+00	2.86E+01
2135	494361.06	3859701.99	3.20236	1.06384	2.95941	2.43244	8.514	10.93	1.1019	1.06384	2.23E+01	1.96E+00	3.08E-04	8.56E-02	2.67E+00	1.03E+00	7.81E+00	7.23E+00	2.86E+01
2136	494411.06	3859701.99	3.18954	1.0645	2.94156	2.44186	8.436	12.11	1.1012	1.0645	2.22E+01	1.97E+00	3.06E-04	8.59E-02	2.64E+00	1.14E+00	7.80E+00	7.24E+00	2.86E+01
2137	494461.06	3859701.99	3.1651	1.07584	3.02901	2.51572	8.375	11.05	1.1024	1.07584	2.21E+01	1.99E+00	3.15E-04	8.85E-02	2.62E+00	1.04E+00	7.81E+00	7.32E+00	2.83E+01
2138	494511.06	3859701.99	3.15725	1.06949	2.97307	2.49202	8.44	8.014	1.0988	1.06949	2.20E+01	1.98E+00	3.10E-04	8.77E-02	2.64E+00	7.53E-01	7.79E+00	7.27E+00	2.80E+01
2139	494561.06	3859701.99	3.14538	1.06657	2.94906	2.48771	8.472	7.682	1.0957	1.06657	2.19E+01	1.97E+00	3.07E-04	8.76E-02	2.65E+00	7.22E-01	7.76E+00	7.25E+00	2.79E+01
2140	494611.06	3859701.99	3.13439	1.06206	2.91578	2.48046	8.488	7.012	1.0919	1.06206	2.19E+01	1.96E+00	3.04E-04	8.73E-02	2.66E+00	6.59E-01	7.74E+00	7.22E+00	2.77E+01
2141	494661.06	3859701.99	3.14269	1.04715	2.69129	2.36565	8.532	6.281	1.0919	1.04715	2.19E+01	1.93E+00	2.80E-04	8.33E-02	2.67E+00	5.90E-01	7.74E+00	7.12E+00	2.78E+01
2142	494711.06	3859701.99	3.1264	1.04424	2.72216	2.40335	8.525	5.598	1.0876	1.04424	2.18E+01	1.93E+00	2.83E-04	8.46E-02	2.67E+00	5.26E-01	7.71E+00	7.10E+00	2.76E+01
2143	494761.06	3859701.99	3.11896	1.04697	2.64957	2.37612	8.511	5.564	1.0847	1.04697	2.17E+01	1.93E+00	2.76E-04	8.36E-02	2.67E+00	5.23E-01	7.69E+00	7.12E+00	2.75E+01
2144	494811.06	3859701.99	3.11109	1.04837	2.57266	2.34446	8.474	5.419	1.0808	1.04837	2.17E+01	1.94E+00	2.68E-04	8.25E-02	2.66E+00	5.09E-01	7.66E+00	7.13E+00	2.74E+01
2145	494861.06	3859701.99	3.09401	1.04518	2.61026	2.3835	8.407	5.088	1.0737	1.04518	2.16E+01	1.93E+00	2.72E-04	8.39E-02	2.63E+00	4.78E-01	7.61E+00	7.11E+00	2.72E+01
2146	494911.06	3859701.99	3.08397	1.04314	2.55541	2.36301	8.327	4.939	1.0674	1.04314	2.15E+01	1.93E+00	2.66E-04	8.32E-02	2.61E+00	4.64E-01	7.56E+00	7.09E+00	2.71E+01
2147	494961.06	3859701.99	3.07322	1.03927	2.50381	2.34281	8.258	4.993	1.0597	1.03927	2.14E+01	1.92E+00	2.61E-04	8.25E-02	2.59E+00	4.69E-01	7.51E+00	7.07E+00	2.69E+01
2148	495011.06	3859701.99	3.05914	1.033	2.4955	2.34907	8.221	5.16	1.0501	1.033	2.13E+01	1.91E+00	2.60E-04	8.27E-02	2.58E+00	4.85E-01	7.44E+00	7.02E+00	2.68E+01
2149	495061.06	3859701.99	3.04672	1.02582	2.45977	2.33601	8.163	5.382	1.0398	1.02582	2.12E+01	1.89E+00	2.56E-04	8.22E-02	2.56E+00	5.06E-01	7.37E+00	6.98E+00	2.67E+01
2150	495111.06	3859701.99	3.03423	1.01771	2.42182	2.32031	8.09	5.513	1.03	1.01771	2.12E+01	1.88E+00	2.52E-04	8.17E-02	2.53E+00	5.18E-01	7.30E+00	6.92E+00	2.65E+01
2151	495161.06	3859701.99	3.02201	1.008	2.37408	2.29869	7.999	5.555	1.0197	1.008	2.11E+01	1.86E+00	2.47E-04	8.09E-02	2.51E+00	5.22E-01	7.22E+00	6.85E+00	2.64E+01
2152	495211.06	3859701.99	3.00981	0.99737	2.32134	2.27513	7.891	5.552	1.0091	0.99737	2.10E+01	1.84E+00	2.42E-04	8.01E-02	2.47E+00	5.22E-01	7.15E+00	6.78E+00	2.63E+01
2153	495261.06	3859701.99	2.99343	0.98353	2.33812	2.2961	7.801	5.415	0.9946	0.98353	2.09E+01	1.82E+00	2.43E-04	8.08E-02	2.44E+00	5.09E-01	7.05E+00	6.69E+00	2.61E+01
2154	495311.06	3859701.99	2.98047	0.97	2.29561	2.27486	7.674	5.205	0.9818	0.97	2.08E+01	1.79E+00	2.39E-04	8.01E-02	2.40E+00	4.89E-01	6.96E+00	6.60E+00	2.59E+01
2155	495361.06	3859701.99	2.96695	0.95595	2.26311	2.25775	7.538	4.941	0.969	0.95595	2.07E+01	1.77E+00	2.36E-04	7.95E-02	2.36E+00	4.64E-01	6.87E+00	6.50E+00	2.57E+01
2156	495411.06	3859701.99	2.95564	0.94072	2.20864	2.21747	7.375	4.657	0.9569	0.94072	2.06E+01	1.74E+00	2.30E-04	7.80E-02	2.31E+00	4.38E-01	6.78E+00	6.40E+00	2.56E+01
2157	495461.06	3859701.99	2.94354	0.92322	2.17094	2.19006	7.215	4.373	0.9425	0.92322	2.05E+01	1.71E+00	2.26E-04	7.71E-02	2.26E+00	4.11E-01	6.68E+00	6.28E+00	2.54E+01
2158	495511.06	3859701.99	2.93324	0.90365	2.08224	2.10888	7.015	4.092	0.9307	0.90365	2.04E+01	1.67E+00	2.17E-04	7.42E-02	2.20E+00	3.85E-01	6.59E+00	6.14E+00	2.52E+01
2159	495561.06	3859701.99	2.91828	0.88906	2.10276	2.14094	7.084	3.901	0.916	0.88906	2.03E+01	1.64E+00	2.19E-04	7.54E-02	2.22E+00	3.67E-01	6.49E+00	6.05E+00	2.51E+01
2160	495611.06	3859701.99	2.90532	0.87089	2.06979	2.11695	7.132	3.756	0.9014	0.87089	2.03E+01	1.61E+00	2.15E-04	7.45E-02	2.23E+00	3.53E-01	6.39E+00	5.92E+00	2.50E+01
2161	495661.06	3859701.99	2.89219	0.85108	2.03069	2.07471	7.278	3.638	0.8859	0.85108	2.02E+01	1.57E+00	2.11E-04	7.30E-02	2.28E+00	3.42E-01	6.28E+00	5.79E+00	2.49E+01
2162	494311.06	3859751.99	3.16611	1.08893	3.0896	2.56586	8.458	8.92	1.1386	1.08893	2.21E+01	2.01E+00	3.22E-04	9.03E-02	2.65E+00	8.38E-01	8.07E+00	7.40E+00	2.83E+01

2163	494361.06	3859751.99	3.16019	1.08394	3.04055	2.54896	8.42	9.969	1.1292	1.08394	2.20E+01	2.00E+00	3.17E-04	8.97E-02	2.64E+00	9.37E-01	8.00E+00	7.37E+00	2.83E+01
2164	494411.06	3859751.99	3.15726	1.07511	2.96503	2.513	8.369	11.5	1.1153	1.07511	2.20E+01	1.99E+00	3.09E-04	8.84E-02	2.62E+00	1.08E+00	7.90E+00	7.31E+00	2.84E+01
2165	494461.06	3859751.99	3.13625	1.08564	3.02545	2.57058	8.295	11.25	1.1278	1.08564	2.19E+01	2.01E+00	3.15E-04	9.05E-02	2.60E+00	1.06E+00	7.99E+00	7.38E+00	2.82E+01
2166	494511.06	3859751.99	3.12062	1.08906	3.04066	2.59544	8.219	8.058	1.1313	1.08906	2.18E+01	2.01E+00	3.17E-04	9.13E-02	2.58E+00	7.57E-01	8.02E+00	7.41E+00	2.78E+01
2167	494561.06	3859751.99	3.11375	1.08276	2.99255	2.57554	8.153	7.317	1.1221	1.08276	2.17E+01	2.00E+00	3.12E-04	9.06E-02	2.55E+00	6.88E-01	7.95E+00	7.36E+00	2.76E+01
2168	494611.06	3859751.99	3.11067	1.07203	2.91293	2.53307	8.174	5.596	1.1075	1.07203	2.17E+01	1.98E+00	3.03E-04	8.92E-02	2.56E+00	5.26E-01	7.85E+00	7.29E+00	2.74E+01
2169	494661.06	3859751.99	3.11374	1.04555	2.75046	2.42638	8.265	5.09	1.0884	1.04555	2.17E+01	1.93E+00	2.86E-04	8.54E-02	2.59E+00	4.78E-01	7.71E+00	7.11E+00	2.74E+01
2170	494711.06	3859751.99	3.09974	1.05391	2.78923	2.4602	8.287	4.811	1.0898	1.05391	2.16E+01	1.95E+00	2.90E-04	8.66E-02	2.60E+00	4.52E-01	7.72E+00	7.17E+00	2.72E+01
2171	494761.06	3859751.99	3.08842	1.04963	2.77177	2.45395	8.296	5.024	1.0856	1.04963	2.15E+01	1.94E+00	2.89E-04	8.64E-02	2.60E+00	4.72E-01	7.69E+00	7.14E+00	2.72E+01
2172	494811.06	3859751.99	3.08207	1.04321	2.71638	2.42877	8.311	4.741	1.0819	1.04321	2.15E+01	1.93E+00	2.83E-04	8.55E-02	2.60E+00	4.46E-01	7.67E+00	7.09E+00	2.71E+01
2173	494861.06	3859751.99	3.07179	1.04168	2.69746	2.42585	8.31	4.13	1.0765	1.04168	2.14E+01	1.92E+00	2.81E-04	8.54E-02	2.60E+00	3.88E-01	7.63E+00	7.08E+00	2.70E+01
2174	494911.06	3859751.99	3.06165	1.03973	2.6743	2.42347	8.29	4.234	1.071	1.03973	2.13E+01	1.92E+00	2.78E-04	8.53E-02	2.60E+00	3.98E-01	7.59E+00	7.07E+00	2.69E+01
2175	494961.06	3859751.99	3.05121	1.03624	2.65051	2.41972	8.251	4.159	1.0639	1.03624	2.13E+01	1.91E+00	2.76E-04	8.52E-02	2.59E+00	3.91E-01	7.54E+00	7.05E+00	2.67E+01
2176	495011.06	3859751.99	3.04139	1.03256	2.61704	2.40877	8.195	4.248	1.0577	1.03256	2.12E+01	1.91E+00	2.72E-04	8.48E-02	2.57E+00	3.99E-01	7.49E+00	7.02E+00	2.66E+01
2177	495061.06	3859751.99	3.02866	1.0285	2.61125	2.41453	8.113	4.257	1.0483	1.0285	2.11E+01	1.90E+00	2.72E-04	8.50E-02	2.54E+00	4.00E-01	7.43E+00	6.99E+00	2.65E+01
2178	495111.06	3859751.99	3.01833	1.02262	2.5772	2.40111	8.073	4.202	1.0396	1.02262	2.10E+01	1.89E+00	2.68E-04	8.45E-02	2.53E+00	3.95E-01	7.37E+00	6.95E+00	2.64E+01
2179	495161.06	3859751.99	3.00851	1.01568	2.53247	2.37959	8.034	4.262	1.0307	1.01568	2.10E+01	1.88E+00	2.64E-04	8.38E-02	2.52E+00	4.01E-01	7.30E+00	6.91E+00	2.62E+01
2180	495211.06	3859751.99	2.99862	1.0074	2.48268	2.35357	7.978	4.388	1.0207	1.0074	2.09E+01	1.86E+00	2.58E-04	8.28E-02	2.50E+00	4.12E-01	7.23E+00	6.85E+00	2.61E+01
2181	495261.06	3859751.99	2.98573	0.9992	2.46793	2.34891	7.914	4.5	1.0092	0.9992	2.08E+01	1.85E+00	2.57E-04	8.27E-02	2.48E+00	4.23E-01	7.15E+00	6.79E+00	2.60E+01
2182	495311.06	3859751.99	2.9744	0.98906	2.42784	2.32665	7.832	4.56	0.9982	0.98906	2.07E+01	1.83E+00	2.53E-04	8.19E-02	2.45E+00	4.29E-01	7.07E+00	6.73E+00	2.59E+01
2183	495361.06	3859751.99	2.96233	0.978	2.39491	2.30737	7.739	4.556	0.9855	0.978	2.07E+01	1.81E+00	2.49E-04	8.12E-02	2.42E+00	4.28E-01	6.98E+00	6.65E+00	2.57E+01
2184	495411.06	3859751.99	2.94993	0.96629	2.36308	2.28782	7.635	4.491	0.9721	0.96629	2.06E+01	1.78E+00	2.46E-04	8.05E-02	2.39E+00	4.22E-01	6.89E+00	6.57E+00	2.56E+01
2185	495461.06	3859751.99	2.93948	0.95134	2.29473	2.23989	7.506	4.377	0.9587	0.95134	2.05E+01	1.76E+00	2.39E-04	7.88E-02	2.35E+00	4.11E-01	6.79E+00	6.47E+00	2.54E+01
2186	495511.06	3859751.99	2.92927	0.93604	2.22577	2.19753	7.362	4.221	0.9458	0.93604	2.04E+01	1.73E+00	2.32E-04	7.73E-02	2.31E+00	3.97E-01	6.70E+00	6.36E+00	2.53E+01
2187	495561.06	3859751.99	2.91778	0.92177	2.19121	2.17578	7.222	4.048	0.9344	0.92177	2.03E+01	1.70E+00	2.28E-04	7.66E-02	2.26E+00	3.80E-01	6.62E+00	6.27E+00	2.51E+01
2188	495611.06	3859751.99	2.90603	0.90612	2.15716	2.15502	7.075	3.867	0.9228	0.90612	2.03E+01	1.67E+00	2.25E-04	7.58E-02	2.22E+00	3.63E-01	6.54E+00	6.16E+00	2.50E+01
2189	495661.06	3859751.99	2.89334	0.89051	2.14113	2.14823	6.947	3.692	0.9091	0.89051	2.02E+01	1.64E+00	2.23E-04	7.56E-02	2.18E+00	3.47E-01	6.44E+00	6.06E+00	2.48E+01
2190	494311.06	3859801.99	3.11613	1.11874	2.98878	2.65885	8.711	8.473	1.1876	1.11874	2.17E+01	2.07E+00	3.11E-04	9.36E-02	2.73E+00	7.96E-01	8.41E+00	7.61E+00	2.82E+01
2191	494361.06	3859801.99	3.11869	1.10127	2.90989	2.61018	8.509	9.338	1.1692	1.10127	2.17E+01	2.03E+00	3.03E-04	9.19E-02	2.67E+00	8.78E-01	8.28E+00	7.49E+00	2.82E+01
2192	494411.06	3859801.99	3.1218	1.0839	2.81974	2.55394	8.289	10.99	1.1474	1.0839	2.18E+01	2.00E+00	2.94E-04	8.99E-02	2.60E+00	1.03E+00	8.13E+00	7.37E+00	2.82E+01
2193	494461.06	3859801.99	3.10251	1.09418	2.87001	2.60582	8.199	11.6	1.159	1.09418	2.16E+01	2.02E+00	2.99E-04	9.17E-02	2.57E+00	1.09E+00	8.21E+00	7.44E+00	2.82E+01
2194	494511.06	3859801.99	3.08091	1.10321	2.92892	2.66204	8.104	9.024	1.17	1.10321	2.15E+01	2.04E+00	3.05E-04	9.37E-02	2.54E+00	8.48E-01	8.29E+00	7.50E+00	2.78E+01
2195	494561.06	3859801.99	3.0748	1.09867	2.90092	2.64678	8.049	7.163	1.1623	1.09867	2.14E+01	2.03E+00	3.02E-04	9.32E-02	2.52E+00	6.73E-01	8.24E+00	7.47E+00	2.75E+01
2196	494611.06	3859801.99	3.08232	1.08021	2.78695	2.5654	8.062	5.379	1.1353	1.08021	2.15E+01	2.00E+00	2.90E-04	9.03E-02	2.53E+00	5.06E-01	8.04E+00	7.35E+00	2.73E+01
2197	494661.06	3859801.99	3.07746	1.07244	2.74252	2.5382	8.013	5.151	1.1239	1.07244	2.15E+01	1.98E+00	2.86E-04	8.93E-02	2.51E+00	4.84E-01	7.96E+00	7.29E+00	2.72E+01
2198	494711.06	3859801.99	3.07551	1.06082	2.67819	2.49163	7.954	4.714	1.1081	1.06082	2.14E+01	1.96E+00	2.79E-04	8.77E-02	2.49E+00	4.43E-01	7.85E+00	7.21E+00	2.71E+01
2199	494761.06	3859801.99	3.056	1.06696	2.73445	2.53638	7.971	4.632	1.1163	1.06696	2.13E+01	1.97E+00	2.85E-04	8.93E-02	2.50E+00	4.35E-01	7.91E+00	7.26E+00	2.70E+01
2200	494811.06	3859801.99	3.05033	1.05812	2.69491	2.50619	8.029	4.734	1.1051	1.05812	2.13E+01	1.95E+00	2.81E-04	8.82E-02	2.52E+00	4.45E-01	7.83E+00	7.20E+00	2.69E+01
2201	494861.06	3859801.99	3.04033	1.05321	2.6823	2.49589	8.052	4.381	1.0987	1.05321	2.12E+01	1.95E+00	2.79E-04	8.78E-02	2.52E+00	4.12E-01	7.78E+00	7.16E+00	2.68E+01
2202	494911.06	3859801.99	3.03551	1.04814	2.63014	2.45646	8.081	4.152	1.086	1.04814	2.12E+01	1.94E+00	2.74E-04	8.65E-02	2.53E+00	3.90E-01	7.69E+00	7.13E+00	2.67E+01
2203	494961.06	3859801.99	3.02658	1.04513	2.61629	2.45196	8.089	4.067	1.0779	1.04513	2.11E+01	1.93E+00	2.72E-04	8.63E-02	2.53E+00	3.82E-01	7.64E+00	7.11E+00	2.66E+01
2204	495011.06	3859801.99	3.01818	1.041	2.59659	2.44126	8.091	3.782	1.0685	1.041	2.10E+01	1.92E+00	2.70E-04	8.59E-02	2.54E+00	3.55E-01	7.57E+00	7.08E+00	2.64E+01
2205	495061.06	3859801.99	3.00761	1.0378	2.59156	2.44117	8.066	3.693	1.0616	1.0378	2.10E+01	1.92E+00	2.70E-04	8.59E-02	2.53E+00	3.47E-01	7.52E+00	7.06E+00	2.63E+01
2206	495111.06	3859801.99	3.00047	1.03265	2.55471	2.41551	8.039	3.672	1.051	1.03265	2.09E+01	1.91E+00	2.66E-04	8.50E-02	2.52E+00	3.45E-01	7.45E+00	7.02E+00	2.62E+01
2207	495161.06	3859801.99	2.99231	1.02686	2.52185	2.39253	7.989	3.693	1.041	1.02686	2.09E+01	1.90E+00	2.63E-04	8.42E-02	2.50E+00	3.47E-01	7.38E+00	6.98E+00	2.61E+01
2208	495211.06	3859801.99	2.98106	1.02119	2.51317	2.39094	7.911	3.684	1.0317	1.02119	2.08E+01	1.89E+00	2.62E-04	8.42E-02	2.48E+00	3.46E-01	7.31E+00	6.94E+00	2.59E+01
2209	495261.06	3859801.99	2.97273	1.01397	2.47432	2.36867	7.873	3.723	1.0216	1.01397	2.07E+01	1.87E+00	2.58E-04	8.34E-02	2.47E+00	3.50E-01	7.24E+00	6.89E+00	2.58E+01
2210	495311.06	3859801.99	2.96078	1.00659	2.46841	2.37432	7.836	3.789	1.0108	1.00659	2.06E+01	1.86E+00	2.57E-04	8.36E-02	2.46E+00	3.56E-01	7.16E+00	6.84E+00	2.57E+01
2211	495361.06	3859801.99	2.95091	0.99783	2.43613	2.36016	7.787	3.859	0.9998	0.99783	2.06E+01	1.84E+00	2.54E-04	8.31E-02	2.44E+00	3.63E-01	7.08E+00	6.79E+00	2.56E+01
2212	495411.06	3859801.99	2.94209	0.98759	2.38826	2.33056	7.723	3.923	0.9893	0.98759	2.05E+01	1.82E+00	2.49E-04	8.20E-02	2.42E+00	3.69E-01	7.01E+00	6.72E+00	2.55E+01
2213	495461.06	3859801.99	2.93117	0.97687	2.35929	2.31591	7.646	3.955	0.9772	0.97687	2.04E+01	1.80E+00	2.46E-04	8.15E-02	2.40E+00	3.72E-01	6.92E+00	6.64E+00	2.54E+01
2214	495511.06	3859801.99	2.92275	0.96273	2.29201	2.26524	7.55	3.947	0.9654	0.96273	2.04E+01	1.78E+00	2.39E-04	7.97E-02	2.37E+00	3.71E-01	6.84E+00	6.55E+00	2.53E+01
2215	495561.06	3859801.99	2.91047	0.95034	2.27356	2.25656	7.452	3.907	0.9505	0.95034	2.03E+01	1.76E+00	2.37E-04	7.94E-02	2.33E+00	3.67E-01	6.73E+00	6.46E+00	2.51E+01
2216	495611.06	3859801.99	2.8972	0.9387	2.28509	2.27306	7.352	3.841	0.9398	0.9387	2.02E+01	1.73E+00	2.38E-04	8.00E-02	2.30E+00	3.61E-01	6.66E+00	6.38E+00	2.50E+01
2217	495661.06	3859801.99	2.88859	0.92231	2.22726	2.22583	7.223	3.741	0.9243	0.92231	2.01E+01	1.70E+00	2.32E-04	7.83E-02	2.26E+00	3.52E-01	6.55E+00	6.27E+00	2.48E+01
2218	494311.06	3859851.99	3.0691	1.1552	2.92074	2.69588	8.903	8.004	1.2296	1.1552	2.14E+01	2.13E+00	3.04E-04	9.49E-02	2.79E+00	7.52E-01	8.71E+00	7.86E+00	2.80E+01
2219	494361.06	3859851.99	3.06891	1.13854	2.87026	2.66593	8.773	8.747	1.2144	1.13854	2.14E+01	2.10E+00	2.99E-04	9.38E-02	2.75E+00	8.22E-01	8.60E+00	7.74E+00	2.80E+01

2220	494411.06	3859851.99	3.07104	1.1179	2.80927	2.62409	8.625	9.955	1.1964	1.1179	2.14E+01	2.06E+00	2.92E-04	9.24E-02	2.70E+00	9.36E-01	8.48E+00	7.60E+00	2.81E+01
2221	494461.06	3859851.99	3.06715	1.10769	2.7666	2.60678	8.415	12.15	1.1871	1.10769	2.14E+01	2.05E+00	2.88E-04	9.17E-02	2.64E+00	1.14E+00	8.41E+00	7.53E+00	2.82E+01
2222	494511.06	3859851.99	3.05198	1.11416	2.76329	2.63863	8.136	9.449	1.1912	1.11416	2.13E+01	2.06E+00	2.88E-04	9.29E-02	2.55E+00	8.88E-01	8.44E+00	7.58E+00	2.77E+01
2223	494561.06	3859851.99	3.03385	1.12474	2.77171	2.67957	7.926	6.689	1.1987	1.12474	2.12E+01	2.08E+00	2.89E-04	9.43E-02	2.48E+00	6.29E-01	8.49E+00	7.65E+00	2.73E+01
2224	494611.06	3859851.99	3.04573	1.09145	2.67857	2.59105	7.96	6.17	1.17	1.09145	2.12E+01	2.02E+00	2.79E-04	9.12E-02	2.49E+00	5.80E-01	8.29E+00	7.42E+00	2.73E+01
2225	494661.06	3859851.99	3.03306	1.09423	2.68277	2.60793	7.889	5.631	1.1698	1.09423	2.11E+01	2.02E+00	2.79E-04	9.18E-02	2.47E+00	5.29E-01	8.29E+00	7.44E+00	2.71E+01
2226	494711.06	3859851.99	3.0359	1.07849	2.6178	2.55131	7.877	5.367	1.1501	1.07849	2.12E+01	1.99E+00	2.73E-04	8.98E-02	2.47E+00	5.05E-01	8.15E+00	7.33E+00	2.70E+01
2227	494761.06	3859851.99	3.01842	1.08599	2.64274	2.58815	7.796	5.504	1.1566	1.08599	2.10E+01	2.01E+00	2.75E-04	9.11E-02	2.44E+00	5.17E-01	8.19E+00	7.38E+00	2.69E+01
2228	494811.06	3859851.99	3.01342	1.07816	2.61062	2.56515	7.746	5.268	1.146	1.07816	2.10E+01	1.99E+00	2.72E-04	9.03E-02	2.43E+00	4.95E-01	8.12E+00	7.33E+00	2.68E+01
2229	494861.06	3859851.99	3.0029	1.07602	2.60169	2.56514	7.68	5.03	1.1415	1.07602	2.09E+01	1.99E+00	2.71E-04	9.03E-02	2.41E+00	4.73E-01	8.09E+00	7.32E+00	2.67E+01
2230	494911.06	3859851.99	2.9997	1.06571	2.55793	2.52923	7.758	4.405	1.1276	1.06571	2.09E+01	1.97E+00	2.66E-04	8.90E-02	2.43E+00	4.14E-01	7.99E+00	7.25E+00	2.66E+01
2231	494961.06	3859851.99	2.99258	1.06202	2.53075	2.50923	7.802	4.081	1.118	1.06202	2.09E+01	1.96E+00	2.63E-04	8.83E-02	2.44E+00	3.84E-01	7.92E+00	7.22E+00	2.64E+01
2232	495011.06	3859851.99	2.98553	1.05746	2.50157	2.48687	7.831	3.859	1.1076	1.05746	2.08E+01	1.95E+00	2.60E-04	8.75E-02	2.45E+00	3.63E-01	7.85E+00	7.19E+00	2.63E+01
2233	495061.06	3859851.99	2.9762	1.05445	2.49484	2.47836	7.831	3.788	1.0995	1.05445	2.07E+01	1.95E+00	2.60E-04	8.72E-02	2.45E+00	3.56E-01	7.79E+00	7.17E+00	2.62E+01
2234	495111.06	3859851.99	2.97212	1.04625	2.46415	2.4506	7.864	3.679	1.0847	1.04625	2.07E+01	1.93E+00	2.57E-04	8.63E-02	2.46E+00	3.46E-01	7.69E+00	7.11E+00	2.61E+01
2235	495161.06	3859851.99	2.96512	1.03995	2.44848	2.43594	7.869	3.617	1.0728	1.03995	2.07E+01	1.92E+00	2.55E-04	8.57E-02	2.47E+00	3.40E-01	7.60E+00	7.07E+00	2.60E+01
2236	495211.06	3859851.99	2.95709	1.03403	2.4367	2.43522	7.852	3.567	1.0621	1.03403	2.06E+01	1.91E+00	2.54E-04	8.57E-02	2.46E+00	3.35E-01	7.53E+00	7.03E+00	2.59E+01
2237	495261.06	3859851.99	2.94954	1.02695	2.41795	2.42651	7.822	3.482	1.0503	1.02695	2.06E+01	1.90E+00	2.52E-04	8.54E-02	2.45E+00	3.27E-01	7.44E+00	6.98E+00	2.58E+01
2238	495311.06	3859851.99	2.93969	1.02008	2.41412	2.43253	7.764	3.463	1.0401	1.02008	2.05E+01	1.88E+00	2.51E-04	8.56E-02	2.43E+00	3.25E-01	7.37E+00	6.94E+00	2.57E+01
2239	495361.06	3859851.99	2.93061	1.01284	2.40063	2.42705	7.695	3.425	1.0298	1.01284	2.04E+01	1.87E+00	2.50E-04	8.54E-02	2.41E+00	3.22E-01	7.30E+00	6.89E+00	2.55E+01
2240	495411.06	3859851.99	2.92354	1.00437	2.36753	2.40006	7.672	3.416	1.0165	1.00437	2.04E+01	1.85E+00	2.46E-04	8.45E-02	2.40E+00	3.21E-01	7.20E+00	6.83E+00	2.54E+01
2241	495461.06	3859851.99	2.91584	0.9949	2.33541	2.37375	7.641	3.459	1.0032	0.9949	2.03E+01	1.84E+00	2.43E-04	8.35E-02	2.39E+00	3.25E-01	7.11E+00	6.77E+00	2.53E+01
2242	495511.06	3859851.99	2.90869	0.98478	2.29084	2.34146	7.596	3.495	0.9909	0.98478	2.03E+01	1.82E+00	2.38E-04	8.24E-02	2.38E+00	3.28E-01	7.02E+00	6.70E+00	2.52E+01
2243	495561.06	3859851.99	2.89677	0.97486	2.29013	2.34908	7.536	3.536	0.9811	0.97486	2.02E+01	1.80E+00	2.38E-04	8.27E-02	2.36E+00	3.32E-01	6.95E+00	6.63E+00	2.51E+01
2244	495611.06	3859851.99	2.88525	0.96413	2.28291	2.34918	7.465	3.556	0.9705	0.96413	2.01E+01	1.78E+00	2.38E-04	8.27E-02	2.34E+00	3.34E-01	6.88E+00	6.56E+00	2.50E+01
2245	495661.06	3859851.99	2.87766	0.95092	2.23778	2.31307	7.382	3.545	0.9567	0.95092	2.01E+01	1.76E+00	2.33E-04	8.14E-02	2.31E+00	3.33E-01	6.78E+00	6.47E+00	2.49E+01
2246	494311.06	3859901.99	3.02825	1.20701	2.92701	2.72855	8.897	7.626	1.2757	1.20701	2.11E+01	2.23E+00	3.05E-04	9.60E-02	2.79E+00	7.17E-01	9.04E+00	8.21E+00	2.78E+01
2247	494361.06	3859901.99	3.03539	1.16211	2.83708	2.65482	8.921	8.355	1.2435	1.16211	2.12E+01	2.15E+00	2.95E-04	9.34E-02	2.80E+00	7.85E-01	8.81E+00	7.90E+00	2.79E+01
2248	494411.06	3859901.99	3.02087	1.1642	2.81857	2.66777	8.751	9.197	1.2445	1.1642	2.11E+01	2.15E+00	2.93E-04	9.39E-02	2.74E+00	8.64E-01	8.82E+00	7.92E+00	2.78E+01
2249	494461.06	3859901.99	3.01684	1.15295	2.77268	2.6483	8.615	12.77	1.234	1.15295	2.10E+01	2.13E+00	2.89E-04	9.32E-02	2.70E+00	1.20E+00	8.74E+00	7.84E+00	2.81E+01
2250	494511.06	3859901.99	3.00755	1.1517	2.75251	2.65206	8.415	9.81	1.232	1.1517	2.10E+01	2.13E+00	2.87E-04	9.33E-02	2.64E+00	9.22E-01	8.73E+00	7.83E+00	2.76E+01
2251	494561.06	3859901.99	2.98455	1.17161	2.77324	2.70474	8.11	8.071	1.2484	1.17161	2.08E+01	2.16E+00	2.89E-04	9.52E-02	2.54E+00	7.59E-01	8.85E+00	7.97E+00	2.72E+01
2252	494611.06	3859901.99	3.00077	1.12852	2.69352	2.60854	8.038	6.674	1.2104	1.12852	2.09E+01	2.08E+00	2.80E-04	9.18E-02	2.52E+00	6.27E-01	8.58E+00	7.67E+00	2.71E+01
2253	494661.06	3859901.99	2.9817	1.14162	2.70496	2.65431	7.737	7.161	1.2202	1.14162	2.08E+01	2.11E+00	2.82E-04	9.34E-02	2.42E+00	6.73E-01	8.65E+00	7.76E+00	2.70E+01
2254	494711.06	3859901.99	2.99548	1.10233	2.62387	2.56324	7.758	6.428	1.1869	1.10233	2.09E+01	2.04E+00	2.73E-04	9.02E-02	2.43E+00	6.04E-01	8.41E+00	7.50E+00	2.70E+01
2255	494761.06	3859901.99	2.98177	1.10628	2.62067	2.58688	7.688	6.172	1.1885	1.10628	2.08E+01	2.04E+00	2.73E-04	9.10E-02	2.41E+00	5.80E-01	8.42E+00	7.52E+00	2.68E+01
2256	494811.06	3859901.99	2.96764	1.11017	2.61647	2.60903	7.597	5.534	1.1898	1.11017	2.07E+01	2.05E+00	2.72E-04	9.18E-02	2.38E+00	5.20E-01	8.43E+00	7.55E+00	2.66E+01
2257	494861.06	3859901.99	2.95897	1.10501	2.59539	2.60671	7.546	5.139	1.1838	1.10501	2.06E+01	2.04E+00	2.70E-04	9.17E-02	2.36E+00	4.83E-01	8.39E+00	7.51E+00	2.65E+01
2258	494911.06	3859901.99	2.95806	1.0922	2.55145	2.57209	7.533	4.793	1.1688	1.0922	2.06E+01	2.02E+00	2.66E-04	9.05E-02	2.36E+00	4.51E-01	8.28E+00	7.43E+00	2.64E+01
2259	494961.06	3859901.99	2.95034	1.08845	2.52589	2.5633	7.469	4.698	1.1612	1.08845	2.06E+01	2.01E+00	2.63E-04	9.02E-02	2.34E+00	4.42E-01	8.23E+00	7.40E+00	2.63E+01
2260	495011.06	3859901.99	2.94716	1.08288	2.4853	2.53353	7.47	4.569	1.1495	1.08288	2.05E+01	2.00E+00	2.59E-04	8.92E-02	2.34E+00	4.29E-01	8.14E+00	7.36E+00	2.62E+01
2261	495061.06	3859901.99	2.94171	1.07857	2.45607	2.51723	7.529	4.436	1.1394	1.07857	2.05E+01	1.99E+00	2.56E-04	8.86E-02	2.36E+00	4.17E-01	8.07E+00	7.33E+00	2.61E+01
2262	495111.06	3859901.99	2.93979	1.07022	2.41817	2.48311	7.593	4.273	1.1244	1.07022	2.05E+01	1.98E+00	2.52E-04	8.74E-02	2.38E+00	4.02E-01	7.97E+00	7.28E+00	2.60E+01
2263	495161.06	3859901.99	2.93625	1.06108	2.38411	2.45459	7.635	4.129	1.1096	1.06108	2.05E+01	1.96E+00	2.48E-04	8.64E-02	2.39E+00	3.88E-01	7.86E+00	7.22E+00	2.59E+01
2264	495211.06	3859901.99	2.92644	1.05802	2.37651	2.46592	7.63	4.118	1.102	1.05802	2.04E+01	1.95E+00	2.47E-04	8.68E-02	2.39E+00	3.87E-01	7.81E+00	7.19E+00	2.58E+01
2265	495261.06	3859901.99	2.92452	1.04508	2.32996	2.43453	7.673	3.954	1.084	1.04508	2.04E+01	1.93E+00	2.43E-04	8.57E-02	2.40E+00	3.72E-01	7.68E+00	7.11E+00	2.58E+01
2266	495311.06	3859901.99	2.91432	1.0407	2.32789	2.45654	7.655	3.926	1.0756	1.0407	2.03E+01	1.92E+00	2.42E-04	8.65E-02	2.40E+00	3.69E-01	7.62E+00	7.08E+00	2.56E+01
2267	495361.06	3859901.99	2.90802	1.03136	2.31415	2.44824	7.644	3.818	1.062	1.03136	2.03E+01	1.90E+00	2.41E-04	8.62E-02	2.40E+00	3.59E-01	7.52E+00	7.01E+00	2.55E+01
2268	495411.06	3859901.99	2.90307	1.02033	2.29216	2.42505	7.627	3.677	1.047	1.02033	2.02E+01	1.88E+00	2.39E-04	8.54E-02	2.39E+00	3.46E-01	7.42E+00	6.94E+00	2.54E+01
2269	495461.06	3859901.99	2.89638	1.0103	2.27707	2.41095	7.584	3.564	1.0334	1.0103	2.02E+01	1.87E+00	2.37E-04	8.49E-02	2.38E+00	3.35E-01	7.32E+00	6.87E+00	2.53E+01
2270	495511.06	3859901.99	2.88635	1.00206	2.28017	2.41881	7.508	3.512	1.0223	1.00206	2.01E+01	1.85E+00	2.37E-04	8.51E-02	2.35E+00	3.30E-01	7.24E+00	6.81E+00	2.52E+01
2271	495561.06	3859901.99	2.87625	0.99357	2.28084	2.42324	7.473	3.459	1.0114	0.99357	2.01E+01	1.84E+00	2.37E-04	8.53E-02	2.34E+00	3.25E-01	7.17E+00	6.76E+00	2.50E+01
2272	495611.06	3859901.99	2.86948	0.9832	2.25534	2.39583	7.446	3.383	0.9976	0.9832	2.00E+01	1.82E+00	2.35E-04	8.43E-02	2.33E+00	3.18E-01	7.07E+00	6.69E+00	2.49E+01
2273	495661.06	3859901.99	2.86284	0.97183	2.22288	2.36093	7.407	3.332	0.9846	0.97183	2.00E+01	1.79E+00	2.31E-04	8.31E-02	2.32E+00	3.13E-01	6.98E+00	6.61E+00	2.48E+01
2274	494311.06	3859951.99	2.98259	1.29196	2.90604	2.83006	8.026	7.187	1.3307	1.29196	2.08E+01	2.39E+00	3.03E-04	9.96E-02	2.51E+00	6.76E-01	9.43E+00	8.79E+00	2.71E+01
2275	494361.06	3859951.99	2.98242	1.26353	2.84714	2.78141	7.974	8.054	1.3119	1.26353	2.08E+01	2.33E+00	2.96E-04	9.79E-02	2.50E+00	7.57E-01	9.29E+00	8.59E+00	2.72E+01
2276	494411.06	3859951.99	2.97964	1.24026	2.79279	2.74502	7.904	8.848	1.2965	1.24026	2.08E+01	2.29E+00	2.91E-04	9.66E-02	2.48E+00	8.32E-01	9.19E+00	8.43E+00	2.72E+01

2277	494461.06	3859951.99	2.97322	1.22447	2.74703	2.72792	8.609	13.62	1.2859	1.22447	2.07E+01	2.26E+00	2.86E-04	9.60E-02	2.70E+00	1.28E+00	9.11E+00	8.33E+00	2.78E+01
2278	494511.06	3859951.99	2.96033	1.22203	2.7219	2.73323	8.463	9.912	1.2845	1.22203	2.06E+01	2.26E+00	2.83E-04	9.62E-02	2.65E+00	9.32E-01	9.10E+00	8.31E+00	2.74E+01
2279	494561.06	3859951.99	2.92907	1.25372	2.75136	2.79632	7.606	9.756	1.3052	1.25372	2.04E+01	2.32E+00	2.86E-04	9.84E-02	2.38E+00	9.17E-01	9.25E+00	8.53E+00	2.69E+01
2280	494611.06	3859951.99	2.94229	1.20369	2.66853	2.71844	8.163	8.955	1.2722	1.20369	2.05E+01	2.22E+00	2.78E-04	9.57E-02	2.56E+00	8.42E-01	9.01E+00	8.18E+00	2.71E+01
2281	494661.06	3859951.99	2.92503	1.2146	2.67076	2.74545	7.33	8.341	1.2793	1.2146	2.04E+01	2.24E+00	2.78E-04	9.66E-02	2.30E+00	7.84E-01	9.06E+00	8.26E+00	2.66E+01
2282	494711.06	3859951.99	2.93682	1.1704	2.60629	2.67397	7.842	6.898	1.2486	1.1704	2.05E+01	2.16E+00	2.71E-04	9.41E-02	2.46E+00	6.48E-01	8.85E+00	7.96E+00	2.67E+01
2283	494761.06	3859951.99	2.92804	1.1651	2.59743	2.67099	7.618	6.485	1.245	1.1651	2.04E+01	2.15E+00	2.70E-04	9.40E-02	2.39E+00	6.10E-01	8.82E+00	7.92E+00	2.66E+01
2284	494811.06	3859951.99	2.92178	1.15549	2.58199	2.65815	7.449	6.08	1.2372	1.15549	2.04E+01	2.13E+00	2.69E-04	9.36E-02	2.33E+00	5.72E-01	8.77E+00	7.86E+00	2.64E+01
2285	494861.06	3859951.99	2.90965	1.15646	2.57779	2.67074	7.357	5.851	1.2368	1.15646	2.03E+01	2.14E+00	2.68E-04	9.40E-02	2.31E+00	5.50E-01	8.76E+00	7.86E+00	2.63E+01
2286	494911.06	3859951.99	2.91108	1.13687	2.54346	2.63895	7.361	5.61	1.218	1.13687	2.03E+01	2.10E+00	2.65E-04	9.29E-02	2.31E+00	5.27E-01	8.63E+00	7.73E+00	2.62E+01
2287	494961.06	3859951.99	2.91043	1.12013	2.51163	2.61146	7.338	5.386	1.2024	1.12013	2.03E+01	2.07E+00	2.61E-04	9.19E-02	2.30E+00	5.06E-01	8.52E+00	7.62E+00	2.62E+01
2288	495011.06	3859951.99	2.9077	1.10935	2.48275	2.58857	7.325	5.22	1.1891	1.10935	2.03E+01	2.05E+00	2.58E-04	9.11E-02	2.30E+00	4.91E-01	8.42E+00	7.54E+00	2.61E+01
2289	495061.06	3859951.99	2.90201	1.1034	2.45996	2.57394	7.282	5.088	1.1789	1.1034	2.02E+01	2.04E+00	2.56E-04	9.06E-02	2.28E+00	4.78E-01	8.35E+00	7.50E+00	2.60E+01
2290	495111.06	3859951.99	2.90173	1.0932	2.4217	2.53666	7.257	4.89	1.1623	1.0932	2.02E+01	2.02E+00	2.52E-04	8.93E-02	2.27E+00	4.60E-01	8.24E+00	7.43E+00	2.59E+01
2291	495161.06	3859951.99	2.90036	1.08489	2.384	2.50759	7.305	4.693	1.1486	1.08489	2.02E+01	2.00E+00	2.48E-04	8.83E-02	2.29E+00	4.41E-01	8.14E+00	7.38E+00	2.58E+01
2292	495211.06	3859951.99	2.89813	1.07743	2.34623	2.47951	7.376	4.5	1.1357	1.07743	2.02E+01	1.99E+00	2.44E-04	8.73E-02	2.31E+00	4.23E-01	8.05E+00	7.33E+00	2.57E+01
2293	495261.06	3859951.99	2.8929	1.07156	2.31606	2.46586	7.416	4.362	1.1237	1.07156	2.02E+01	1.98E+00	2.41E-04	8.68E-02	2.32E+00	4.10E-01	7.96E+00	7.29E+00	2.56E+01
2294	495311.06	3859951.99	2.88269	1.06923	2.30095	2.47833	7.412	4.331	1.117	1.06923	2.01E+01	1.97E+00	2.40E-04	8.72E-02	2.32E+00	4.07E-01	7.91E+00	7.27E+00	2.55E+01
2295	495361.06	3859951.99	2.87591	1.06227	2.27364	2.47507	7.424	4.231	1.1055	1.06227	2.01E+01	1.96E+00	2.37E-04	8.71E-02	2.33E+00	3.98E-01	7.83E+00	7.22E+00	2.54E+01
2296	495411.06	3859951.99	2.87258	1.05047	2.233	2.45839	7.456	4.056	1.0892	1.05047	2.00E+01	1.94E+00	2.32E-04	8.65E-02	2.34E+00	3.81E-01	7.72E+00	7.14E+00	2.53E+01
2297	495461.06	3859951.99	2.86746	1.03981	2.19676	2.44963	7.463	3.923	1.0743	1.03981	2.00E+01	1.92E+00	2.29E-04	8.62E-02	2.34E+00	3.69E-01	7.61E+00	7.07E+00	2.52E+01
2298	495511.06	3859951.99	2.86226	1.0283	2.17066	2.43776	7.455	3.788	1.059	1.0283	2.00E+01	1.90E+00	2.26E-04	8.58E-02	2.34E+00	3.56E-01	7.50E+00	6.99E+00	2.51E+01
2299	495561.06	3859951.99	2.8503	1.02348	2.19607	2.46881	7.393	3.787	1.0511	1.02348	1.99E+01	1.89E+00	2.29E-04	8.69E-02	2.32E+00	3.56E-01	7.45E+00	6.96E+00	2.50E+01
2300	495611.06	3859951.99	2.84543	1.01026	2.18185	2.4487	7.36	3.636	1.0343	1.01026	1.98E+01	1.87E+00	2.27E-04	8.62E-02	2.31E+00	3.42E-01	7.33E+00	6.87E+00	2.49E+01
2301	495661.06	3859951.99	2.84189	0.99571	2.15472	2.41288	7.322	3.489	1.0165	0.99571	1.98E+01	1.84E+00	2.24E-04	8.49E-02	2.29E+00	3.28E-01	7.20E+00	6.77E+00	2.48E+01
2302	494311.06	3860001.99	2.93561	1.37539	3.14452	2.96108	7.891	7.005	1.4007	1.37539	2.05E+01	2.54E+00	3.27E-04	1.04E-01	2.47E+00	6.58E-01	9.92E+00	9.35E+00	2.68E+01
2303	494361.06	3860001.99	2.93113	1.35688	3.04735	2.92715	7.887	9.304	1.3849	1.35688	2.04E+01	2.51E+00	3.17E-04	1.03E-01	2.47E+00	8.75E-01	9.81E+00	9.23E+00	2.70E+01
2304	494411.06	3860001.99	2.93676	1.31741	2.93662	2.86528	7.862	10.11	1.3523	1.31741	2.05E+01	2.43E+00	3.06E-04	1.01E-01	2.46E+00	9.51E-01	9.58E+00	8.96E+00	2.70E+01
2305	494461.06	3860001.99	2.92616	1.31142	2.86466	2.84978	7.822	14.01	1.3471	1.31142	2.04E+01	2.42E+00	2.98E-04	1.00E-01	2.45E+00	1.32E+00	9.54E+00	8.92E+00	2.73E+01
2306	494511.06	3860001.99	2.92462	1.28649	2.77436	2.80634	7.763	13.55	1.3264	1.28649	2.04E+01	2.38E+00	2.89E-04	9.88E-02	2.43E+00	1.27E+00	9.40E+00	8.75E+00	2.72E+01
2307	494561.06	3860001.99	2.8835	1.33643	2.78089	2.89773	7.693	12.21	1.3665	1.33643	2.01E+01	2.47E+00	2.90E-04	1.02E-01	2.41E+00	1.15E+00	9.68E+00	9.09E+00	2.68E+01
2308	494611.06	3860001.99	2.88503	1.30702	2.72209	2.85725	7.601	10.14	1.3427	1.30702	2.01E+01	2.41E+00	2.83E-04	1.01E-01	2.38E+00	9.53E-01	9.51E+00	8.89E+00	2.66E+01
2309	494661.06	3860001.99	2.87521	1.29703	2.68672	2.84907	7.496	8.886	1.3346	1.29703	2.00E+01	2.40E+00	2.80E-04	1.00E-01	2.35E+00	8.35E-01	9.46E+00	8.82E+00	2.64E+01
2310	494711.06	3860001.99	2.89745	1.22788	2.57032	2.74138	7.372	7.638	1.2859	1.22788	2.02E+01	2.27E+00	2.68E-04	9.65E-02	2.31E+00	7.18E-01	9.11E+00	8.35E+00	2.64E+01
2311	494761.06	3860001.99	2.87331	1.24744	2.57485	2.78233	7.242	7.48	1.2983	1.24744	2.00E+01	2.30E+00	2.68E-04	9.79E-02	2.27E+00	7.03E-01	9.20E+00	8.48E+00	2.61E+01
2312	494811.06	3860001.99	2.86491	1.24115	2.54731	2.77855	7.099	7.094	1.2936	1.24115	2.00E+01	2.29E+00	2.65E-04	9.78E-02	2.22E+00	6.67E-01	9.17E+00	8.44E+00	2.60E+01
2313	494861.06	3860001.99	2.85382	1.23873	2.52514	2.77957	6.943	6.826	1.2909	1.23873	1.99E+01	2.29E+00	2.63E-04	9.78E-02	2.18E+00	6.42E-01	9.15E+00	8.42E+00	2.58E+01
2314	494911.06	3860001.99	2.87497	1.17873	2.44778	2.6833	7.319	6.029	1.2515	1.17873	2.00E+01	2.18E+00	2.55E-04	9.44E-02	2.29E+00	5.67E-01	8.87E+00	8.02E+00	2.60E+01
2315	494961.06	3860001.99	2.86583	1.17492	2.4362	2.68294	6.696	5.874	1.2484	1.17492	2.00E+01	2.17E+00	2.54E-04	9.44E-02	2.10E+00	5.52E-01	8.85E+00	7.99E+00	2.58E+01
2316	495011.06	3860001.99	2.86638	1.15177	2.40925	2.65606	7.187	5.6	1.2316	1.15177	2.00E+01	2.13E+00	2.51E-04	9.35E-02	2.25E+00	5.26E-01	8.73E+00	7.83E+00	2.59E+01
2317	495061.06	3860001.99	2.85625	1.14893	2.40402	2.66268	7.115	5.535	1.2281	1.14893	1.99E+01	2.12E+00	2.50E-04	9.37E-02	2.23E+00	5.20E-01	8.70E+00	7.81E+00	2.58E+01
2318	495111.06	3860001.99	2.85735	1.13361	2.37621	2.63066	7.111	5.316	1.2095	1.13361	1.99E+01	2.09E+00	2.47E-04	9.26E-02	2.23E+00	5.00E-01	8.57E+00	7.71E+00	2.57E+01
2319	495161.06	3860001.99	2.85785	1.11867	2.34741	2.59757	7.113	5.102	1.1919	1.11867	1.99E+01	2.07E+00	2.44E-04	9.14E-02	2.23E+00	4.80E-01	8.44E+00	7.61E+00	2.56E+01
2320	495211.06	3860001.99	2.8485	1.11706	2.33928	2.59651	7.043	5.066	1.1859	1.11706	1.99E+01	2.06E+00	2.44E-04	9.14E-02	2.21E+00	4.76E-01	8.40E+00	7.60E+00	2.55E+01
2321	495261.06	3860001.99	2.84727	1.10374	2.31163	2.57284	7.011	4.866	1.1701	1.10374	1.99E+01	2.04E+00	2.41E-04	9.06E-02	2.20E+00	4.57E-01	8.29E+00	7.51E+00	2.54E+01
2322	495311.06	3860001.99	2.84191	1.09743	2.29233	2.56595	7.06	4.75	1.1585	1.09743	1.98E+01	2.03E+00	2.39E-04	9.03E-02	2.21E+00	4.46E-01	8.21E+00	7.46E+00	2.53E+01
2323	495361.06	3860001.99	2.84667	1.08084	2.2453	2.50774	7.175	4.418	1.1371	1.08084	1.98E+01	2.00E+00	2.34E-04	8.83E-02	2.25E+00	4.15E-01	8.06E+00	7.35E+00	2.53E+01
2324	495411.06	3860001.99	2.83481	1.07937	2.24058	2.53027	7.164	4.419	1.1309	1.07937	1.98E+01	1.99E+00	2.33E-04	8.91E-02	2.24E+00	4.15E-01	8.01E+00	7.34E+00	2.52E+01
2325	495461.06	3860001.99	2.83073	1.07121	2.21398	2.51209	7.193	4.282	1.1185	1.07121	1.97E+01	1.98E+00	2.30E-04	8.84E-02	2.25E+00	4.03E-01	7.93E+00	7.28E+00	2.51E+01
2326	495511.06	3860001.99	2.82592	1.06264	2.18804	2.50161	7.218	4.174	1.1058	1.06264	1.97E+01	1.96E+00	2.28E-04	8.80E-02	2.26E+00	3.92E-01	7.84E+00	7.23E+00	2.50E+01
2327	495561.06	3860001.99	2.81667	1.05642	2.17345	2.52313	7.204	4.148	1.0961	1.05642	1.96E+01	1.95E+00	2.26E-04	8.88E-02	2.26E+00	3.90E-01	7.77E+00	7.18E+00	2.49E+01
2328	495611.06	3860001.99	2.81513	1.04493	2.13992	2.49935	7.231	3.989	1.0796	1.04493	1.96E+01	1.93E+00	2.23E-04	8.80E-02	2.27E+00	3.75E-01	7.65E+00	7.11E+00	2.48E+01
2329	495661.06	3860001.99	2.813	1.03061	2.10723	2.47808	7.237	3.837	1.0615	1.03061	1.96E+01	1.90E+00	2.19E-04	8.72E-02	2.27E+00	3.61E-01	7.52E+00	7.01E+00	2.47E+01
2330	494411.06	3860051.99	2.88257	1.4152	3.35337	2.99885	7.712	15.2	1.4308	1.4152	2.01E+01	2.61E+00	3.49E-04	1.06E-01	2.42E+00	1.43E+00	1.01E+01	9.62E+00	2.72E+01
2331	494461.06	3860051.99	2.87928	1.38999	3.26025	2.96319	7.717	18.8	1.414	1.38999	2.01E+01	2.57E+00	3.39E-04	1.04E-01	2.42E+00	1.77E+00	1.00E+01	9.45E+00	2.75E+01
2332	494511.06	3860051.99	2.874	1.37396	3.1709	2.93314	7.703	15.45	1.4005	1.37396	2.00E+01	2.54E+00	3.30E-04	1.03E-01	2.41E+00	1.45E+00	9.92E+00	9.34E+00	2.71E+01
2333	494561.06	3860051.99	2.84835	1.39461	3.12969	2.96239	7.672	11.68	1.4161	1.39461	1.99E+01	2.58E+00	3.26E-04	1.04E-01	2.40E+00	1.10E+00	1.00E+01	9.48E+00	2.66E+01

2334	494611.06	3860051.99	2.83526	1.39074	3.05753	2.95198	7.624	9.947	1.4123	1.39074	1.98E+01	2.57E+00	3.18E-04	1.04E-01	2.39E+00	9.35E-01	1.00E+01	9.46E+00	2.63E+01
2335	494661.06	3860051.99	2.82592	1.3801	2.97682	2.94328	7.559	8.964	1.4032	1.3801	1.97E+01	2.55E+00	3.10E-04	1.04E-01	2.37E+00	8.43E-01	9.94E+00	9.38E+00	2.61E+01
2336	494711.06	3860051.99	2.83635	1.33767	2.86523	2.88112	7.479	8.086	1.3698	1.33767	1.98E+01	2.47E+00	2.98E-04	1.01E-01	2.34E+00	7.60E-01	9.71E+00	9.10E+00	2.61E+01
2337	494761.06	3860051.99	2.82543	1.32995	2.79364	2.8767	7.384	7.653	1.3633	1.32995	1.97E+01	2.46E+00	2.91E-04	1.01E-01	2.31E+00	7.19E-01	9.66E+00	9.04E+00	2.59E+01
2338	494811.06	3860051.99	2.80665	1.33367	2.73646	2.89044	7.276	7.492	1.3654	1.33367	1.96E+01	2.46E+00	2.85E-04	1.02E-01	2.28E+00	7.04E-01	9.67E+00	9.07E+00	2.57E+01
2339	494861.06	3860051.99	2.79029	1.3317	2.67475	2.89328	7.153	7.402	1.3629	1.3317	1.95E+01	2.46E+00	2.78E-04	1.02E-01	2.24E+00	6.96E-01	9.66E+00	9.06E+00	2.56E+01
2340	494911.06	3860051.99	2.79441	1.30119	2.57861	2.85058	7.02	7.039	1.3391	1.30119	1.95E+01	2.40E+00	2.68E-04	1.00E-01	2.20E+00	6.62E-01	9.49E+00	8.85E+00	2.55E+01
2341	494961.06	3860051.99	2.8029	1.26813	2.48157	2.80157	6.874	6.662	1.3131	1.26813	1.95E+01	2.34E+00	2.58E-04	9.86E-02	2.15E+00	6.26E-01	9.30E+00	8.62E+00	2.54E+01
2342	495011.06	3860051.99	2.80729	1.24085	2.42199	2.7617	6.718	6.364	1.2913	1.24085	1.96E+01	2.29E+00	2.52E-04	9.72E-02	2.11E+00	5.98E-01	9.15E+00	8.44E+00	2.54E+01
2343	495061.06	3860051.99	2.80661	1.22106	2.38641	2.73536	6.58	6.159	1.2752	1.22106	1.96E+01	2.26E+00	2.48E-04	9.63E-02	2.06E+00	5.79E-01	9.04E+00	8.30E+00	2.53E+01
2344	495111.06	3860051.99	2.81222	1.19017	2.34465	2.69229	6.517	5.8	1.2537	1.19017	1.96E+01	2.20E+00	2.44E-04	9.48E-02	2.04E+00	5.45E-01	8.88E+00	8.09E+00	2.53E+01
2345	495161.06	3860051.99	2.81049	1.17165	2.31446	2.67404	6.453	5.588	1.2404	1.17165	1.96E+01	2.16E+00	2.41E-04	9.41E-02	2.02E+00	5.25E-01	8.79E+00	7.97E+00	2.52E+01
2346	495211.06	3860051.99	2.81117	1.15073	2.2811	2.64624	6.931	5.322	1.2237	1.15073	1.96E+01	2.13E+00	2.37E-04	9.31E-02	2.17E+00	5.00E-01	8.67E+00	7.82E+00	2.53E+01
2347	495261.06	3860051.99	2.80583	1.14421	2.26069	2.63586	6.891	5.217	1.2135	1.14421	1.96E+01	2.11E+00	2.35E-04	9.28E-02	2.16E+00	4.90E-01	8.60E+00	7.78E+00	2.52E+01
2348	495311.06	3860051.99	2.79854	1.13991	2.2436	2.62986	6.84	5.164	1.2055	1.13991	1.95E+01	2.11E+00	2.34E-04	9.26E-02	2.14E+00	4.85E-01	8.54E+00	7.75E+00	2.51E+01
2349	495361.06	3860051.99	2.794	1.1313	2.22024	2.62226	6.795	5.033	1.1932	1.1313	1.95E+01	2.09E+00	2.31E-04	9.23E-02	2.13E+00	4.73E-01	8.45E+00	7.69E+00	2.50E+01
2350	495411.06	3860051.99	2.79104	1.12023	2.19825	2.60936	6.768	4.846	1.1792	1.12023	1.95E+01	2.07E+00	2.29E-04	9.18E-02	2.12E+00	4.56E-01	8.35E+00	7.62E+00	2.49E+01
2351	495461.06	3860051.99	2.79	1.10675	2.17418	2.58808	6.842	4.637	1.1628	1.10675	1.95E+01	2.04E+00	2.26E-04	9.11E-02	2.14E+00	4.36E-01	8.24E+00	7.53E+00	2.49E+01
2352	495511.06	3860051.99	2.78443	1.09908	2.15853	2.58574	6.868	4.506	1.1517	1.09908	1.94E+01	2.03E+00	2.25E-04	9.10E-02	2.15E+00	4.24E-01	8.16E+00	7.47E+00	2.48E+01
2353	495561.06	3860051.99	2.78123	1.08751	2.13828	2.57163	6.905	4.331	1.1373	1.08751	1.94E+01	2.01E+00	2.23E-04	9.05E-02	2.16E+00	4.07E-01	8.06E+00	7.39E+00	2.47E+01
2354	495611.06	3860051.99	2.77975	1.07516	2.11758	2.54711	6.947	4.22	1.1206	1.07516	1.94E+01	1.99E+00	2.20E-04	8.96E-02	2.18E+00	3.97E-01	7.94E+00	7.31E+00	2.47E+01
2355	495661.06	3860051.99	2.78129	1.05972	2.08636	2.51217	7.021	4.07	1.1017	1.05972	1.94E+01	1.96E+00	2.17E-04	8.84E-02	2.20E+00	3.83E-01	7.81E+00	7.21E+00	2.46E+01
2356	494411.06	3860101.99	2.85319	1.47641	3.58897	3.08814	7.46	10.88	1.4641	1.47641	1.99E+01	2.73E+00	3.74E-04	1.09E-01	2.34E+00	1.02E+00	1.04E+01	1.00E+01	2.64E+01
2357	494461.06	3860101.99	2.83024	1.49511	3.55968	3.10983	7.503	10.06	1.4769	1.49511	1.97E+01	2.76E+00	3.71E-04	1.09E-01	2.35E+00	9.45E-01	1.05E+01	1.02E+01	2.62E+01
2358	494511.06	3860101.99	2.83625	1.44623	3.46663	3.0432	7.537	9.139	1.4481	1.44623	1.98E+01	2.67E+00	3.61E-04	1.07E-01	2.36E+00	8.59E-01	1.03E+01	9.83E+00	2.62E+01
2359	494561.06	3860101.99	2.82144	1.44561	3.41522	3.03769	7.548	9.405	1.4491	1.44561	1.97E+01	2.67E+00	3.56E-04	1.07E-01	2.36E+00	8.84E-01	1.03E+01	9.83E+00	2.61E+01
2360	494611.06	3860101.99	2.79622	1.46498	3.38039	3.05404	7.535	9.12	1.4608	1.46498	1.95E+01	2.71E+00	3.52E-04	1.07E-01	2.36E+00	8.57E-01	1.04E+01	9.96E+00	2.59E+01
2361	494661.06	3860101.99	2.78393	1.45585	3.31798	3.03224	7.51	8.838	1.455	1.45585	1.94E+01	2.69E+00	3.45E-04	1.07E-01	2.35E+00	8.31E-01	1.03E+01	9.90E+00	2.58E+01
2362	494711.06	3860101.99	2.79069	1.41286	3.21945	2.97351	7.478	8.411	1.4287	1.41286	1.95E+01	2.61E+00	3.35E-04	1.05E-01	2.34E+00	7.91E-01	1.01E+01	9.61E+00	2.58E+01
2363	494761.06	3860101.99	2.78087	1.40367	3.15057	2.95791	7.422	8.309	1.4208	1.40367	1.94E+01	2.59E+00	3.28E-04	1.04E-01	2.33E+00	7.81E-01	1.01E+01	9.54E+00	2.57E+01
2364	494811.06	3860101.99	2.76973	1.39575	3.08338	2.94836	7.35	8.198	1.4141	1.39575	1.93E+01	2.58E+00	3.21E-04	1.04E-01	2.30E+00	7.71E-01	1.00E+01	9.49E+00	2.56E+01
2365	494861.06	3860101.99	2.73063	1.41373	3.05834	2.96868	7.249	8.503	1.4221	1.41373	1.90E+01	2.61E+00	3.18E-04	1.04E-01	2.27E+00	7.99E-01	1.01E+01	9.61E+00	2.53E+01
2366	494911.06	3860101.99	2.76714	1.35062	2.90842	2.88419	7.172	7.533	1.3792	1.35062	1.93E+01	2.49E+00	3.03E-04	1.02E-01	2.25E+00	7.08E-01	9.77E+00	9.18E+00	2.54E+01
2367	494961.06	3860101.99	2.75991	1.33694	2.83774	2.86528	7.06	7.285	1.368	1.33694	1.92E+01	2.47E+00	2.95E-04	1.01E-01	2.21E+00	6.85E-01	9.69E+00	9.09E+00	2.53E+01
2368	495011.06	3860101.99	2.76106	1.31048	2.75312	2.82591	6.937	6.953	1.3475	1.31048	1.92E+01	2.42E+00	2.87E-04	9.95E-02	2.17E+00	6.54E-01	9.55E+00	8.91E+00	2.52E+01
2369	495061.06	3860101.99	2.76032	1.28662	2.67077	2.78959	6.802	6.675	1.3285	1.28662	1.92E+01	2.38E+00	2.78E-04	9.82E-02	2.13E+00	6.27E-01	9.41E+00	8.75E+00	2.51E+01
2370	495111.06	3860101.99	2.76727	1.25403	2.57829	2.73823	6.656	6.275	1.3026	1.25403	1.93E+01	2.32E+00	2.68E-04	9.64E-02	2.09E+00	5.90E-01	9.23E+00	8.53E+00	2.51E+01
2371	495161.06	3860101.99	2.76197	1.24323	2.51115	2.72609	6.502	6.084	1.2939	1.24323	1.93E+01	2.30E+00	2.61E-04	9.59E-02	2.04E+00	5.72E-01	9.17E+00	8.45E+00	2.50E+01
2372	495211.06	3860101.99	2.76109	1.22489	2.43558	2.70225	6.407	5.802	1.279	1.22489	1.92E+01	2.26E+00	2.54E-04	9.51E-02	2.01E+00	5.45E-01	9.06E+00	8.33E+00	2.49E+01
2373	495261.06	3860101.99	2.76043	1.20578	2.35987	2.68369	6.344	5.563	1.2634	1.20578	1.92E+01	2.23E+00	2.46E-04	9.45E-02	1.99E+00	5.23E-01	8.95E+00	8.20E+00	2.48E+01
2374	495311.06	3860101.99	2.75743	1.19057	2.29513	2.67142	6.29	5.403	1.2508	1.19057	1.92E+01	2.20E+00	2.39E-04	9.40E-02	1.97E+00	5.08E-01	8.86E+00	8.10E+00	2.48E+01
2375	495361.06	3860101.99	2.75065	1.18174	2.2535	2.668	6.238	5.282	1.2432	1.18174	1.92E+01	2.18E+00	2.35E-04	9.39E-02	1.95E+00	4.96E-01	8.81E+00	8.04E+00	2.47E+01
2376	495411.06	3860101.99	2.74985	1.16339	2.20894	2.65054	6.178	5.082	1.2271	1.16339	1.92E+01	2.15E+00	2.30E-04	9.33E-02	1.94E+00	4.78E-01	8.69E+00	7.91E+00	2.46E+01
2377	495461.06	3860101.99	2.7549	1.14311	2.16357	2.61098	6.129	4.867	1.2023	1.14311	1.92E+01	2.11E+00	2.25E-04	9.19E-02	1.92E+00	4.58E-01	8.52E+00	7.77E+00	2.45E+01
2378	495511.06	3860101.99	2.74786	1.13912	2.14572	2.61776	6.074	4.796	1.1946	1.13912	1.92E+01	2.10E+00	2.23E-04	9.21E-02	1.90E+00	4.51E-01	8.46E+00	7.75E+00	2.44E+01
2379	495561.06	3860101.99	2.74102	1.13462	2.12684	2.62219	6.012	4.714	1.1859	1.13462	1.91E+01	2.10E+00	2.21E-04	9.23E-02	1.88E+00	4.43E-01	8.40E+00	7.72E+00	2.43E+01
2380	495611.06	3860101.99	2.74526	1.11384	2.08574	2.58264	6.638	4.528	1.1623	1.11384	1.91E+01	2.06E+00	2.17E-04	9.09E-02	2.08E+00	4.26E-01	8.23E+00	7.57E+00	2.45E+01
2381	495661.06	3860101.99	2.74236	1.10273	2.06099	2.57049	6.68	4.402	1.1476	1.10273	1.91E+01	2.04E+00	2.15E-04	9.05E-02	2.09E+00	4.14E-01	8.13E+00	7.50E+00	2.44E+01
2382	494861.06	3860151.99	2.67225	1.50987	3.31397	3.05972	7.238	8.944	1.4614	1.50987	1.86E+01	2.79E+00	3.45E-04	1.08E-01	2.27E+00	8.41E-01	1.04E+01	1.03E+01	2.47E+01
2383	494911.06	3860151.99	2.71914	1.4263	3.20574	2.99475	7.217	8.113	1.4274	1.4263	1.90E+01	2.63E+00	3.34E-04	1.05E-01	2.26E+00	7.63E-01	1.01E+01	9.70E+00	2.51E+01
2384	494961.06	3860151.99	2.71923	1.39864	3.13229	2.96337	7.146	7.654	1.4111	1.39864	1.90E+01	2.58E+00	3.26E-04	1.04E-01	2.24E+00	7.19E-01	1.00E+01	9.51E+00	2.51E+01
2385	495011.06	3860151.99	2.72138	1.37395	3.05286	2.9274	7.061	7.255	1.3933	1.37395	1.90E+01	2.54E+00	3.18E-04	1.03E-01	2.21E+00	6.82E-01	9.87E+00	9.34E+00	2.50E+01
2386	495061.06	3860151.99	2.72289	1.34896	2.97166	2.89116	6.963	6.879	1.3745	1.34896	1.90E+01	2.49E+00	3.09E-04	1.02E-01	2.18E+00	6.47E-01	9.74E+00	9.17E+00	2.50E+01
2387	495111.06	3860151.99	2.71994	1.3297	2.89701	2.86273	6.851	6.576	1.3598	1.3297	1.90E+01	2.46E+00	3.02E-04	1.01E-01	2.15E+00	6.18E-01	9.63E+00	9.04E+00	2.49E+01
2388	495161.06	3860151.99	2.71512	1.31304	2.82511	2.83807	6.727	6.283	1.3466	1.31304	1.89E+01	2.43E+00	2.94E-04	9.99E-02	2.11E+00	5.91E-01	9.54E+00	8.93E+00	2.48E+01
2389	495211.06	3860151.99	2.71296	1.29252	2.75352	2.80721	6.592	5.962	1.3307	1.29252	1.89E+01	2.39E+00	2.87E-04	9.88E-02	2.07E+00	5.60E-01	9.43E+00	8.79E+00	2.47E+01
2390	495261.06	3860151.99	2.70903	1.27729	2.68762	2.78424	6.447	5.687	1.3185	1.27729	1.89E+01	2.36E+00	2.80E-04	9.80E-02	2.02E+00	5.35E-01	9.34E+00	8.69E+00	2.46E+01

2391	495311.06	3860151.99	2.70719	1.2613	2.62059	2.75975	6.296	5.488	1.3057	1.2613	1.89E+01	2.33E+00	2.73E-04	9.71E-02	1.97E+00	5.16E-01	9.25E+00	8.58E+00	2.45E+01
2392	495361.06	3860151.99	2.70421	1.24804	2.55529	2.73807	6.241	5.335	1.2939	1.24804	1.89E+01	2.31E+00	2.66E-04	9.64E-02	1.96E+00	5.01E-01	9.17E+00	8.49E+00	2.44E+01
2393	495411.06	3860151.99	2.70381	1.23056	2.48568	2.71956	6.178	5.185	1.2791	1.23056	1.89E+01	2.27E+00	2.59E-04	9.57E-02	1.94E+00	4.87E-01	9.06E+00	8.37E+00	2.43E+01
2394	495461.06	3860151.99	2.70259	1.21419	2.41735	2.70334	6.133	5.04	1.2649	1.21419	1.88E+01	2.24E+00	2.52E-04	9.51E-02	1.92E+00	4.74E-01	8.96E+00	8.26E+00	2.43E+01
2395	495511.06	3860151.99	2.70448	1.1925	2.3435	2.67693	6.079	4.874	1.2472	1.1925	1.89E+01	2.20E+00	2.44E-04	9.42E-02	1.90E+00	4.58E-01	8.84E+00	8.11E+00	2.42E+01
2396	495561.06	3860151.99	2.70088	1.17953	2.27973	2.66794	6.027	4.753	1.2355	1.17953	1.88E+01	2.18E+00	2.37E-04	9.39E-02	1.89E+00	4.47E-01	8.75E+00	8.02E+00	2.42E+01
2397	495611.06	3860151.99	2.70174	1.16097	2.21916	2.64451	5.979	4.6	1.2177	1.16097	1.88E+01	2.14E+00	2.31E-04	9.31E-02	1.87E+00	4.32E-01	8.63E+00	7.89E+00	2.41E+01
2398	495661.06	3860151.99	2.70376	1.14519	2.16008	2.61531	5.922	4.44	1.1981	1.14519	1.88E+01	2.12E+00	2.25E-04	9.20E-02	1.86E+00	4.17E-01	8.49E+00	7.79E+00	2.40E+01
2399	495718.25	3859442.96	2.76509	0.67112	1.31654	1.74245	8.144	3.055	0.6885	0.67112	1.93E+01	1.24E+00	1.37E-04	6.13E-02	2.55E+00	2.87E-01	4.88E+00	4.56E+00	2.37E+01
2400	495818.25	3859442.96	2.731	0.64986	1.26399	1.67876	7.859	2.959	0.6466	0.64986	1.90E+01	1.20E+00	1.32E-04	5.91E-02	2.46E+00	2.78E-01	4.58E+00	4.42E+00	2.32E+01
2401	495918.25	3859442.96	2.70183	0.6274	1.2357	1.64213	7.634	2.938	0.6155	0.6274	1.88E+01	1.16E+00	1.29E-04	5.78E-02	2.39E+00	2.76E-01	4.36E+00	4.27E+00	2.28E+01
2402	496018.25	3859442.96	2.67475	0.60519	1.21573	1.61947	7.407	3.034	0.5933	0.60519	1.86E+01	1.12E+00	1.27E-04	5.70E-02	2.32E+00	2.85E-01	4.20E+00	4.12E+00	2.25E+01
2403	496118.25	3859442.96	2.66685	0.58463	1.2462	1.65277	7.488	3.157	0.5725	0.58463	1.86E+01	1.08E+00	1.30E-04	5.82E-02	2.35E+00	2.97E-01	4.06E+00	3.98E+00	2.25E+01
2404	496218.25	3859442.96	2.65426	0.56655	1.2735	1.67078	7.588	3.268	0.5624	0.56655	1.85E+01	1.05E+00	1.33E-04	5.88E-02	2.38E+00	3.07E-01	3.99E+00	3.85E+00	2.24E+01
2405	496318.25	3859442.96	2.62933	0.56538	1.25296	1.63818	7.379	3.375	0.5545	0.56538	1.83E+01	1.04E+00	1.30E-04	5.77E-02	2.31E+00	3.17E-01	3.93E+00	3.84E+00	2.21E+01
2406	496418.25	3859442.96	2.60348	0.56382	1.22682	1.61369	7.132	3.422	0.5511	0.56382	1.82E+01	1.04E+00	1.28E-04	5.68E-02	2.23E+00	3.22E-01	3.90E+00	3.83E+00	2.19E+01
2407	495718.25	3859542.96	2.83049	0.70753	1.41936	1.85651	8.507	3.261	0.7721	0.70753	1.97E+01	1.31E+00	1.48E-04	6.53E-02	2.67E+00	3.07E-01	5.47E+00	4.81E+00	2.47E+01
2408	495818.25	3859542.96	2.79461	0.68143	1.39519	1.84013	8.486	3.017	0.7265	0.68143	1.95E+01	1.26E+00	1.45E-04	6.48E-02	2.66E+00	2.84E-01	5.15E+00	4.63E+00	2.43E+01
2409	495918.25	3859542.96	2.75896	0.66232	1.36094	1.80373	8.365	2.837	0.6792	0.66232	1.92E+01	1.22E+00	1.42E-04	6.35E-02	2.62E+00	2.67E-01	4.81E+00	4.50E+00	2.37E+01
2410	496018.25	3859542.96	2.73289	0.64156	1.33336	1.76879	8.261	2.762	0.6419	0.64156	1.91E+01	1.18E+00	1.39E-04	6.23E-02	2.59E+00	2.60E-01	4.55E+00	4.36E+00	2.33E+01
2411	496118.25	3859542.96	2.71936	0.6207	1.35845	1.8114	8.437	2.736	0.6118	0.6207	1.90E+01	1.15E+00	1.41E-04	6.38E-02	2.64E+00	2.57E-01	4.33E+00	4.22E+00	2.32E+01
2412	496218.25	3859542.96	2.70167	0.60454	1.36797	1.83161	8.462	2.724	0.5872	0.60454	1.88E+01	1.12E+00	1.42E-04	6.45E-02	2.65E+00	2.56E-01	4.16E+00	4.11E+00	2.30E+01
2413	496318.25	3859542.96	2.68187	0.58804	1.3687	1.83151	8.377	2.732	0.568	0.58804	1.87E+01	1.09E+00	1.42E-04	6.45E-02	2.62E+00	2.57E-01	4.02E+00	4.00E+00	2.28E+01
2414	496418.25	3859542.96	2.65623	0.56701	1.33182	1.78449	8.073	2.757	0.5618	0.56701	1.85E+01	1.05E+00	1.39E-04	6.28E-02	2.53E+00	2.59E-01	3.98E+00	3.86E+00	2.25E+01
2415	495718.25	3859642.96	2.86137	0.78123	1.76619	1.91448	8.004	3.614	0.8282	0.78123	1.99E+01	1.44E+00	1.84E-04	6.74E-02	2.51E+00	3.40E-01	5.87E+00	5.31E+00	2.49E+01
2416	495818.25	3859642.96	2.83024	0.73833	1.69592	1.8696	8.166	3.349	0.7914	0.73833	1.97E+01	1.36E+00	1.77E-04	6.58E-02	2.56E+00	3.15E-01	5.61E+00	5.02E+00	2.46E+01
2417	495918.25	3859642.96	2.81098	0.70977	1.65629	1.87101	8.342	3.144	0.7507	0.70977	1.96E+01	1.31E+00	1.72E-04	6.59E-02	2.61E+00	2.96E-01	5.32E+00	4.83E+00	2.44E+01
2418	496018.25	3859642.96	2.77992	0.68459	1.59745	1.84913	8.409	2.965	0.709	0.68459	1.94E+01	1.26E+00	1.66E-04	6.51E-02	2.63E+00	2.79E-01	5.02E+00	4.66E+00	2.40E+01
2419	496118.25	3859642.96	2.74242	0.67314	1.64395	1.95298	8.68	2.855	0.666	0.67314	1.91E+01	1.24E+00	1.71E-04	6.87E-02	2.72E+00	2.68E-01	4.72E+00	4.58E+00	2.36E+01
2420	496218.25	3859642.96	2.72616	0.66022	1.66175	2.01761	8.821	2.75	0.6352	0.66022	1.90E+01	1.22E+00	1.73E-04	7.10E-02	2.76E+00	2.58E-01	4.50E+00	4.49E+00	2.33E+01
2421	496318.25	3859642.96	2.70471	0.64071	1.61316	2.00449	8.802	2.668	0.6072	0.64071	1.89E+01	1.18E+00	1.68E-04	7.06E-02	2.76E+00	2.51E-01	4.30E+00	4.36E+00	2.31E+01
2422	496418.25	3859642.96	2.67781	0.60577	1.44328	1.80408	8.32	2.625	0.5797	0.60577	1.87E+01	1.12E+00	1.50E-04	6.35E-02	2.61E+00	2.47E-01	4.11E+00	4.12E+00	2.27E+01
2423	495718.25	3859742.96	2.87931	0.86346	2.0864	2.1147	6.987	3.465	0.8887	0.86346	2.01E+01	1.59E+00	2.17E-04	7.44E-02	2.19E+00	3.26E-01	6.30E+00	5.87E+00	2.47E+01
2424	495818.25	3859742.96	2.85493	0.82153	2.00396	2.03384	7.23	3.196	0.8567	0.82153	1.99E+01	1.52E+00	2.09E-04	7.16E-02	2.27E+00	3.00E-01	6.07E+00	5.59E+00	2.45E+01
2425	495918.25	3859742.96	2.82757	0.78023	1.95133	1.97708	7.511	3.072	0.8215	0.78023	1.97E+01	1.44E+00	2.03E-04	6.96E-02	2.35E+00	2.89E-01	5.82E+00	5.31E+00	2.44E+01
2426	496018.25	3859742.96	2.79946	0.74289	1.89087	1.92746	7.753	2.977	0.7834	0.74289	1.95E+01	1.37E+00	1.97E-04	6.78E-02	2.43E+00	2.80E-01	5.55E+00	5.05E+00	2.42E+01
2427	496118.25	3859742.96	2.7716	0.72824	1.93552	2.00949	8.113	2.897	0.7476	0.72824	1.93E+01	1.35E+00	2.01E-04	7.07E-02	2.54E+00	2.72E-01	5.30E+00	4.95E+00	2.39E+01
2428	496218.25	3859742.96	2.74031	0.72257	1.99815	2.11521	8.421	2.883	0.7132	0.72257	1.91E+01	1.33E+00	2.08E-04	7.44E-02	2.64E+00	2.71E-01	5.05E+00	4.91E+00	2.36E+01
2429	496318.25	3859742.96	2.7144	0.68123	1.82116	1.95231	8.385	2.754	0.6657	0.68123	1.89E+01	1.26E+00	1.90E-04	6.87E-02	2.63E+00	2.59E-01	4.72E+00	4.63E+00	2.32E+01
2430	496418.25	3859742.96	2.6869	0.64773	1.606	1.83056	8.229	2.612	0.6264	0.64773	1.87E+01	1.20E+00	1.67E-04	6.44E-02	2.58E+00	2.45E-01	4.44E+00	4.40E+00	2.29E+01
2431	495718.25	3859842.96	2.86888	0.93048	2.21781	2.28237	7.248	3.544	0.9359	0.93048	2.00E+01	1.72E+00	2.31E-04	8.03E-02	2.27E+00	3.33E-01	6.63E+00	6.33E+00	2.47E+01
2432	495818.25	3859842.96	2.84907	0.89965	2.16772	2.23942	7.016	3.399	0.9066	0.89965	1.99E+01	1.66E+00	2.26E-04	7.88E-02	2.20E+00	3.19E-01	6.42E+00	6.12E+00	2.44E+01
2433	495918.25	3859842.96	2.82849	0.8652	2.11104	2.18523	6.756	3.21	0.8744	0.8652	1.97E+01	1.60E+00	2.20E-04	7.69E-02	2.12E+00	3.02E-01	6.20E+00	5.88E+00	2.41E+01
2434	496018.25	3859842.96	2.8045	0.83186	2.1	2.16822	6.718	3.066	0.8446	0.83186	1.96E+01	1.54E+00	2.19E-04	7.63E-02	2.10E+00	2.88E-01	5.98E+00	5.66E+00	2.39E+01
2435	496118.25	3859842.96	2.77028	0.81291	2.20447	2.25418	7.074	3.046	0.8196	0.81291	1.93E+01	1.50E+00	2.29E-04	7.93E-02	2.22E+00	2.86E-01	5.81E+00	5.53E+00	2.37E+01
2436	496218.25	3859842.96	2.75751	0.77487	2.02438	2.09676	7.278	2.879	0.7782	0.77487	1.92E+01	1.43E+00	2.11E-04	7.38E-02	2.28E+00	2.71E-01	5.51E+00	5.27E+00	2.35E+01
2437	496318.25	3859842.96	2.73654	0.70557	1.6811	1.75264	7.146	2.557	0.73	0.70557	1.91E+01	1.30E+00	1.75E-04	6.17E-02	2.24E+00	2.40E-01	5.17E+00	4.80E+00	2.33E+01
2438	496418.25	3859842.96	2.72609	0.67434	1.51745	1.59016	7.02	2.377	0.683	0.67434	1.90E+01	1.25E+00	1.58E-04	5.60E-02	2.20E+00	2.23E-01	4.84E+00	4.59E+00	2.30E+01
2439	495718.25	3859942.96	2.83635	0.97877	2.174	2.40508	7.3	3.408	0.9959	0.97877	1.98E+01	1.81E+00	2.26E-04	8.46E-02	2.29E+00	3.20E-01	7.06E+00	6.66E+00	2.47E+01
2440	495818.25	3859942.96	2.82332	0.9537	2.14304	2.36479	7.218	3.307	0.9709	0.9537	1.97E+01	1.76E+00	2.23E-04	8.32E-02	2.26E+00	3.11E-01	6.88E+00	6.49E+00	2.45E+01
2441	495918.25	3859942.96	2.80531	0.92919	2.13739	2.35377	7.085	3.255	0.9465	0.92919	1.96E+01	1.72E+00	2.23E-04	8.28E-02	2.22E+00	3.06E-01	6.71E+00	6.32E+00	2.43E+01
2442	496018.25	3859942.96	2.77707	0.90999	2.2028	2.41992	6.901	3.301	0.9265	0.90999	1.94E+01	1.68E+00	2.29E-04	8.52E-02	2.16E+00	3.10E-01	6.56E+00	6.19E+00	2.40E+01
2443	496118.25	3859942.96	2.76931	0.8705	2.09241	2.29615	6.717	3.161	0.8908	0.8705	1.93E+01	1.61E+00	2.18E-04	8.08E-02	2.10E+00	2.97E-01	6.31E+00	5.92E+00	2.38E+01
2444	496218.25	3859942.96	2.76472	0.81858	1.87543	2.06852	6.441	2.966	0.8386	0.81858	1.93E+01	1.51E+00	1.95E-04	7.28E-02	2.02E+00	2.79E-01	5.94E+00	5.57E+00	2.35E+01
2445	496318.25	3859942.96	2.74867	0.76491	1.68376	1.82066	6.168	2.781	0.8011	0.76491	1.92E+01	1.41E+00	1.75E-04	6.41E-02	1.93E+00	2.61E-01	5.68E+00	5.20E+00	2.33E+01
2446	496418.25	3859942.96	2.74364	0.71714	1.49025	1.51864	5.843	2.562	0.7525	0.71714	1.91E+01	1.32E+00	1.55E-04	5.35E-02	1.83E+00	2.41E-01	5.33E+00	4.88E+00	2.30E+01
2447	496856.82	3858864.83	2.00314	0.45218	1.19093	1.03495	4.796	4.028	0.4763	0.45218	1.40E+01	8.35E-01	1.24E-04	3.64E-02	1.50E+00	3.79E-01	3.37E+00	3.07E+00	1.70E+01

2448	496956.82	3858864.83	1.97687	0.4456	1.18387	1.02777	4.696	3.802	0.4704	0.4456	1.38E+01	8.23E-01	1.23E-04	3.62E-02	1.47E+00	3.57E-01	3.33E+00	3.03E+00	1.68E+01
2449	497056.82	3858864.83	1.95203	0.43721	1.17653	1.02214	4.592	3.539	0.4612	0.43721	1.36E+01	8.07E-01	1.22E-04	3.60E-02	1.44E+00	3.33E-01	3.27E+00	2.97E+00	1.65E+01
2450	497156.82	3858864.83	1.91823	0.42672	1.16867	1.01264	4.46	3.184	0.4507	0.42672	1.34E+01	7.88E-01	1.22E-04	3.56E-02	1.40E+00	2.99E-01	3.19E+00	2.90E+00	1.62E+01
2451	497256.82	3858864.83	1.91229	0.4246	1.16125	1.01343	4.389	2.986	0.4489	0.4246	1.33E+01	7.84E-01	1.21E-04	3.57E-02	1.38E+00	2.81E-01	3.18E+00	2.89E+00	1.61E+01
2452	496856.82	3858964.83	2.10774	0.46448	1.21582	1.08168	5.207	4.055	0.4911	0.46448	1.47E+01	8.58E-01	1.27E-04	3.81E-02	1.63E+00	3.81E-01	3.48E+00	3.16E+00	1.79E+01
2453	496956.82	3858964.83	2.0669	0.46043	1.20123	1.06277	5.066	3.61	0.487	0.46043	1.44E+01	8.50E-01	1.25E-04	3.74E-02	1.59E+00	3.39E-01	3.45E+00	3.13E+00	1.75E+01
2454	497056.82	3858964.83	2.03739	0.45568	1.18695	1.04716	4.956	3.205	0.4821	0.45568	1.42E+01	8.42E-01	1.24E-04	3.69E-02	1.55E+00	3.01E-01	3.42E+00	3.10E+00	1.73E+01
2455	497156.82	3858964.83	2.00689	0.45018	1.17309	1.03742	4.857	2.899	0.4766	0.45018	1.40E+01	8.31E-01	1.22E-04	3.65E-02	1.52E+00	2.73E-01	3.38E+00	3.06E+00	1.70E+01
2456	497256.82	3858964.83	2.02802	0.4449	1.16335	1.03987	4.895	2.74	0.472	0.4449	1.41E+01	8.22E-01	1.21E-04	3.66E-02	1.53E+00	2.58E-01	3.34E+00	3.03E+00	1.71E+01
2457	496856.82	3859064.83	2.17873	0.4733	1.19822	1.14395	5.559	3.185	0.5008	0.4733	1.52E+01	8.74E-01	1.25E-04	4.03E-02	1.74E+00	2.99E-01	3.55E+00	3.22E+00	1.85E+01
2458	496956.82	3859064.83	2.14693	0.47079	1.18172	1.1311	5.449	2.957	0.4982	0.47079	1.50E+01	8.70E-01	1.23E-04	3.98E-02	1.71E+00	2.78E-01	3.53E+00	3.20E+00	1.82E+01
2459	497056.82	3859064.83	2.12135	0.46758	1.16652	1.1177	5.349	2.801	0.4949	0.46758	1.48E+01	8.64E-01	1.21E-04	3.93E-02	1.68E+00	2.63E-01	3.51E+00	3.18E+00	1.80E+01
2460	497156.82	3859064.83	2.09974	0.46361	1.15215	1.10577	5.251	2.664	0.4913	0.46361	1.46E+01	8.56E-01	1.20E-04	3.89E-02	1.65E+00	2.50E-01	3.48E+00	3.15E+00	1.78E+01
2461	497256.82	3859064.83	2.13324	0.45948	1.14801	1.11201	5.43	2.572	0.4877	0.45948	1.49E+01	8.49E-01	1.20E-04	3.91E-02	1.70E+00	2.42E-01	3.46E+00	3.12E+00	1.80E+01
2462	496856.82	3859164.83	2.22756	0.4818	1.14039	1.19418	6.096	3.496	0.5119	0.4818	1.55E+01	8.90E-01	1.19E-04	4.20E-02	1.91E+00	3.29E-01	3.63E+00	3.28E+00	1.91E+01
2463	496956.82	3859164.83	2.19308	0.47705	1.12072	1.18276	5.918	3.251	0.5064	0.47705	1.53E+01	8.81E-01	1.17E-04	4.16E-02	1.85E+00	3.06E-01	3.59E+00	3.24E+00	1.87E+01
2464	497056.82	3859164.83	2.18041	0.47507	1.10534	1.17723	5.838	3.053	0.5026	0.47507	1.52E+01	8.77E-01	1.15E-04	4.14E-02	1.83E+00	2.87E-01	3.56E+00	3.23E+00	1.86E+01
2465	497156.82	3859164.83	2.19108	0.47276	1.09453	1.17815	5.866	2.887	0.5011	0.47276	1.53E+01	8.73E-01	1.14E-04	4.15E-02	1.84E+00	2.71E-01	3.55E+00	3.21E+00	1.86E+01
2466	497256.82	3859164.83	2.2262	0.50524	1.08917	1.18804	6.028	2.619	0.4998	0.50524	1.55E+01	9.33E-01	1.13E-04	4.18E-02	1.89E+00	2.46E-01	3.54E+00	3.44E+00	1.87E+01
2467	496856.82	3859264.83	2.26238	0.50186	1.04143	1.2433	6.134	3.372	0.5213	0.50186	1.58E+01	9.27E-01	1.08E-04	4.38E-02	1.92E+00	3.17E-01	3.69E+00	3.41E+00	1.93E+01
2468	496956.82	3859264.83	2.25722	0.50395	1.02937	1.24611	6.218	3.137	0.518	0.50395	1.57E+01	9.31E-01	1.07E-04	4.39E-02	1.95E+00	2.95E-01	3.67E+00	3.43E+00	1.92E+01
2469	497056.82	3859264.83	2.26802	0.51934	1.01997	1.2566	6.381	2.86	0.5151	0.51934	1.58E+01	9.59E-01	1.06E-04	4.42E-02	2.00E+00	2.69E-01	3.65E+00	3.53E+00	1.92E+01
2470	497156.82	3859264.83	2.27349	0.52082	1.01207	1.26247	6.501	2.735	0.5116	0.52082	1.59E+01	9.62E-01	1.05E-04	4.44E-02	2.04E+00	2.57E-01	3.62E+00	3.54E+00	1.92E+01
2471	497256.82	3859264.83	2.2939	0.52046	1.01648	1.27836	6.75	2.631	0.5064	0.52046	1.60E+01	9.61E-01	1.06E-04	4.50E-02	2.11E+00	2.47E-01	3.59E+00	3.54E+00	1.94E+01
2472	497088.92	3858620.93	1.4179	0.40939	0.83316	0.97243	2.879	2.351	0.4103	0.40939	9.89E+00	7.56E-01	8.67E-05	3.42E-02	9.02E-01	2.21E-01	2.91E+00	2.78E+00	1.19E+01
2473	497138.92	3858620.93	1.42042	0.4156	0.83181	0.97312	2.86	2.337	0.4189	0.4156	9.90E+00	7.68E-01	8.66E-05	3.43E-02	8.96E-01	2.20E-01	2.97E+00	2.83E+00	1.20E+01
2474	497188.92	3858620.93	1.41485	0.41985	0.82958	0.95425	2.84	2.257	0.4185	0.41985	9.86E+00	7.75E-01	8.64E-05	3.36E-02	8.90E-01	2.12E-01	2.97E+00	2.85E+00	1.19E+01
2475	497238.92	3858620.93	1.41126	0.42518	0.82782	0.9484	2.817	2.21	0.4238	0.42518	9.84E+00	7.85E-01	8.62E-05	3.34E-02	8.83E-01	2.08E-01	3.00E+00	2.89E+00	1.19E+01
2476	497088.92	3858670.93	1.44065	0.40406	0.84642	0.97284	2.986	2.391	0.4054	0.40406	1.00E+01	7.46E-01	8.81E-05	3.42E-02	9.36E-01	2.25E-01	2.87E+00	2.75E+00	1.21E+01
2477	497138.92	3858670.93	1.45165	0.40803	0.84514	0.97476	2.973	2.438	0.4132	0.40803	1.01E+01	7.54E-01	8.80E-05	3.43E-02	9.32E-01	2.29E-01	2.93E+00	2.77E+00	1.22E+01
2478	497188.92	3858670.93	1.4419	0.41213	0.84284	0.97282	2.943	2.361	0.4154	0.41213	1.01E+01	7.61E-01	8.77E-05	3.42E-02	9.22E-01	2.22E-01	2.94E+00	2.80E+00	1.21E+01
2479	497238.92	3858670.93	1.44345	0.4183	0.84089	0.9724	2.921	2.339	0.4233	0.4183	1.01E+01	7.73E-01	8.75E-05	3.42E-02	9.15E-01	2.20E-01	3.00E+00	2.84E+00	1.22E+01
2480	497088.92	3858720.93	1.79582	0.4096	0.86044	0.98554	3.906	2.688	0.4253	0.4096	1.25E+01	7.57E-01	8.96E-05	3.47E-02	1.22E+00	2.53E-01	3.01E+00	2.79E+00	1.50E+01
2481	497138.92	3858720.93	1.45989	0.40694	0.85764	0.97456	3.084	2.441	0.4163	0.40694	1.02E+01	7.52E-01	8.93E-05	3.43E-02	9.66E-01	2.29E-01	2.95E+00	2.77E+00	1.23E+01
2482	497188.92	3858720.93	1.45561	0.40488	0.85764	0.97349	3.053	2.385	0.4126	0.40488	1.01E+01	7.48E-01	8.93E-05	3.43E-02	9.56E-01	2.24E-01	2.92E+00	2.75E+00	1.23E+01
2483	497238.92	3858720.93	1.78018	0.41205	0.85807	0.98115	3.769	2.493	0.4277	0.41205	1.24E+01	7.61E-01	8.93E-05	3.45E-02	1.18E+00	2.34E-01	3.03E+00	2.80E+00	1.49E+01
2484	497088.92	3858770.93	1.8253	0.41389	0.89235	0.99338	4.096	2.839	0.4322	0.41389	1.27E+01	7.64E-01	9.29E-05	3.50E-02	1.28E+00	2.67E-01	3.06E+00	2.81E+00	1.53E+01
2485	497138.92	3858770.93	1.80799	0.41208	0.89113	0.99128	4.046	2.751	0.4296	0.41208	1.26E+01	7.61E-01	9.28E-05	3.49E-02	1.27E+00	2.59E-01	3.04E+00	2.80E+00	1.52E+01
2486	497188.92	3858770.93	1.80188	0.41039	0.89022	0.99181	3.99	2.685	0.4289	0.41039	1.26E+01	7.58E-01	9.27E-05	3.49E-02	1.25E+00	2.52E-01	3.04E+00	2.79E+00	1.51E+01
2487	497238.92	3858770.93	1.81459	0.40865	0.88909	0.99133	3.997	2.743	0.4275	0.40865	1.27E+01	7.55E-01	9.26E-05	3.49E-02	1.25E+00	2.58E-01	3.03E+00	2.78E+00	1.52E+01
2488	497396.65	3858622.63	1.79649	0.46021	0.82986	0.98223	3.387	2.509	0.4812	0.46021	1.25E+01	8.50E-01	8.64E-05	3.46E-02	1.06E+00	2.36E-01	3.41E+00	3.13E+00	1.50E+01
2489	497496.65	3858622.63	1.85101	0.48027	0.83149	0.98689	3.418	2.605	0.5037	0.48027	1.29E+01	8.87E-01	8.66E-05	3.47E-02	1.07E+00	2.45E-01	3.57E+00	3.27E+00	1.54E+01
2490	497596.65	3858622.63	1.94156	0.51597	0.98564	1.03502	3.587	2.699	0.5423	0.51597	1.35E+01	9.53E-01	1.03E-04	3.64E-02	1.12E+00	2.54E-01	3.84E+00	3.51E+00	1.62E+01
2491	497696.65	3858622.63	1.96705	0.52884	0.99025	1.05254	3.665	2.636	0.5591	0.52884	1.37E+01	9.77E-01	1.03E-04	3.70E-02	1.15E+00	2.48E-01	3.96E+00	3.60E+00	1.65E+01
2492	497796.65	3858622.63	2.01636	0.54307	0.99662	1.08163	3.808	2.597	0.5765	0.54307	1.41E+01	1.00E+00	1.04E-04	3.81E-02	1.19E+00	2.44E-01	4.08E+00	3.69E+00	1.69E+01
2493	497896.65	3858622.63	2.06523	0.57596	1.04256	1.1191	3.956	2.562	0.6056	0.57596	1.44E+01	1.06E+00	1.09E-04	3.94E-02	1.24E+00	2.41E-01	4.29E+00	3.92E+00	1.74E+01
2494	497396.65	3858722.63	1.88246	0.45184	1.0588	0.99805	3.918	2.847	0.475	0.45184	1.31E+01	8.35E-01	1.10E-04	3.51E-02	1.23E+00	2.68E-01	3.37E+00	3.07E+00	1.58E+01
2495	497496.65	3858722.63	1.9344	0.48255	1.06068	1.0259	3.984	2.899	0.507	0.48255	1.35E+01	8.91E-01	1.10E-04	3.61E-02	1.25E+00	2.73E-01	3.59E+00	3.28E+00	1.62E+01
2496	497596.65	3858722.63	2.01132	0.50777	1.06467	1.05364	4.145	2.926	0.5334	0.50777	1.40E+01	9.38E-01	1.11E-04	3.71E-02	1.30E+00	2.75E-01	3.78E+00	3.45E+00	1.69E+01
2497	497696.65	3858722.63	2.05272	0.52568	1.09356	1.08178	4.217	2.856	0.5517	0.52568	1.43E+01	9.71E-01	1.14E-04	3.81E-02	1.32E+00	2.68E-01	3.91E+00	3.57E+00	1.72E+01
2498	497796.65	3858722.63	2.07409	0.54346	1.09858	1.10789	4.28	2.755	0.5658	0.54346	1.45E+01	1.00E+00	1.14E-04	3.90E-02	1.34E+00	2.59E-01	4.01E+00	3.70E+00	1.74E+01
2499	497896.65	3858722.63	2.10204	0.5667	1.21701	1.14003	4.394	2.616	0.5838	0.5667	1.47E+01	1.05E+00	1.27E-04	4.01E-02	1.38E+00	2.46E-01	4.14E+00	3.85E+00	1.76E+01
2500	497396.65	3858822.63	1.9435	0.44738	1.13685	1.03136	4.284	3.079	0.4731	0.44738	1.35E+01	8.26E-01	1.18E-04	3.63E-02	1.34E+00	2.89E-01	3.35E+00	3.04E+00	1.64E+01
2501	497496.65	3858822.63	1.98634	0.46683	1.13315	1.03966	4.343	2.969	0.4937	0.46683	1.38E+01	8.62E-01	1.18E-04	3.66E-02	1.36E+00	2.79E-01	3.50E+00	3.17E+00	1.67E+01
2502	497596.65	3858822.63	2.07155	0.49599	1.14176	1.07113	4.534	2.782	0.5207	0.49599	1.44E+01	9.16E-01	1.19E-04	3.77E-02	1.42E+00	2.61E-01	3.69E+00	3.37E+00	1.74E+01
2503	497696.65	3858822.63	2.09649	0.51974	1.23475	1.10093	4.634	2.62	0.5387	0.51974	1.46E+01	9.60E-01	1.29E-04	3.87E-02	1.45E+00	2.46E-01	3.82E+00	3.53E+00	1.76E+01
2504	497796.65	3858822.63	2.11841	0.5555	1.23723	1.12737	4.679	2.434	0.5546	0.5555	1.48E+01	1.03E+00	1.29E-04	3.97E-02	1.47E+00	2.29E-01	3.93E+00	3.78E+00	1.77E+01

2505	497896.65	3858822.63	2.15513	0.58389	1.24529	1.17396	4.825	2.272	0.5727	0.58389	1.50E+01	1.08E+00	1.30E-04	4.13E-02	1.51E+00	2.14E-01	4.06E+00	3.97E+00	1.80E+01
2506	497396.65	3858922.63	2.02541	0.43793	1.16023	1.04383	4.755	2.772	0.4652	0.43793	1.41E+01	8.09E-01	1.21E-04	3.67E-02	1.49E+00	2.61E-01	3.30E+00	2.98E+00	1.70E+01
2507	497496.65	3858922.63	2.08665	0.45635	1.16685	1.07273	4.87	2.608	0.4849	0.45635	1.45E+01	8.43E-01	1.21E-04	3.78E-02	1.53E+00	2.45E-01	3.44E+00	3.10E+00	1.75E+01
2508	497596.65	3858922.63	2.08257	0.47297	1.16098	1.07937	4.799	2.463	0.4991	0.47297	1.45E+01	8.74E-01	1.21E-04	3.80E-02	1.50E+00	2.31E-01	3.54E+00	3.22E+00	1.75E+01
2509	497696.65	3858922.63	2.14751	0.53534	1.21096	1.13653	4.932	2.238	0.5249	0.53534	1.50E+01	9.89E-01	1.26E-04	4.00E-02	1.55E+00	2.10E-01	3.72E+00	3.64E+00	1.78E+01
2510	497796.65	3858922.63	2.17292	0.55497	1.2158	1.18702	5.064	2.175	0.5439	0.55497	1.51E+01	1.02E+00	1.27E-04	4.18E-02	1.59E+00	2.04E-01	3.85E+00	3.77E+00	1.81E+01
2511	497896.65	3858922.63	2.21303	0.57393	1.22925	1.29872	5.248	2.107	0.5639	0.57393	1.54E+01	1.06E+00	1.28E-04	4.57E-02	1.64E+00	1.98E-01	4.00E+00	3.90E+00	1.85E+01
2512	497364.44	3858201.52	1.27744	0.46573	0.72067	1.02317	2.811	2.793	0.4621	0.46573	8.91E+00	8.60E-01	7.50E-05	3.60E-02	8.81E-01	2.63E-01	3.27E+00	3.17E+00	1.11E+01
2513	497414.44	3858201.52	1.28606	0.47674	0.76218	1.02061	2.816	2.666	0.4804	0.47674	8.97E+00	8.81E-01	7.93E-05	3.59E-02	8.82E-01	2.51E-01	3.40E+00	3.24E+00	1.12E+01
2514	497464.44	3858201.52	1.29798	0.49307	0.76432	1.0177	2.834	2.577	0.4968	0.49307	9.05E+00	9.11E-01	7.96E-05	3.58E-02	8.88E-01	2.42E-01	3.52E+00	3.35E+00	1.13E+01
2515	497514.44	3858201.52	1.30873	0.50393	0.77242	1.01454	2.85	2.577	0.509	0.50393	9.12E+00	9.31E-01	8.04E-05	3.57E-02	8.93E-01	2.42E-01	3.61E+00	3.43E+00	1.14E+01
2516	497564.44	3858201.52	1.30734	0.50857	0.77356	1.01143	2.845	2.57	0.5152	0.50857	9.11E+00	9.39E-01	8.05E-05	3.56E-02	8.91E-01	2.42E-01	3.65E+00	3.46E+00	1.14E+01
2517	497614.44	3858201.52	1.31417	0.51887	0.77531	1.00842	2.849	2.557	0.5257	0.51887	9.16E+00	9.58E-01	8.07E-05	3.55E-02	8.93E-01	2.40E-01	3.72E+00	3.53E+00	1.15E+01
2518	497364.44	3858251.52	1.30951	0.47267	0.77713	0.9835	2.791	2.673	0.4708	0.47267	9.13E+00	8.73E-01	8.09E-05	3.46E-02	8.74E-01	2.51E-01	3.34E+00	3.21E+00	1.13E+01
2519	497414.44	3858251.52	1.32772	0.48377	0.78072	0.98106	2.817	2.61	0.4864	0.48377	9.26E+00	8.93E-01	8.13E-05	3.45E-02	8.82E-01	2.45E-01	3.45E+00	3.29E+00	1.15E+01
2520	497464.44	3858251.52	1.32019	0.48588	0.78131	0.97827	2.808	2.41	0.4897	0.48588	9.20E+00	8.97E-01	8.13E-05	3.44E-02	8.80E-01	2.27E-01	3.47E+00	3.30E+00	1.14E+01
2521	497514.44	3858251.52	1.31192	0.48695	0.7815	0.97547	2.795	2.234	0.4907	0.48695	9.15E+00	8.99E-01	8.14E-05	3.43E-02	8.76E-01	2.10E-01	3.48E+00	3.31E+00	1.13E+01
2522	497564.44	3858251.52	1.31094	0.49328	0.78241	0.9728	2.794	2.182	0.4971	0.49328	9.14E+00	9.11E-01	8.15E-05	3.42E-02	8.76E-01	2.05E-01	3.52E+00	3.35E+00	1.13E+01
2523	497614.44	3858251.52	1.31002	0.49917	0.7832	0.97014	2.793	2.177	0.5036	0.49917	9.13E+00	9.22E-01	8.15E-05	3.41E-02	8.75E-01	2.05E-01	3.57E+00	3.39E+00	1.13E+01
2524	497364.44	3858301.52	1.32762	0.47449	0.78531	0.94462	2.792	2.44	0.4735	0.47449	9.26E+00	8.76E-01	8.18E-05	3.32E-02	8.75E-01	2.29E-01	3.35E+00	3.23E+00	1.14E+01
2525	497414.44	3858301.52	1.34029	0.48182	0.78851	0.94364	2.792	2.41	0.4816	0.48182	9.34E+00	8.90E-01	8.21E-05	3.32E-02	8.75E-01	2.27E-01	3.41E+00	3.28E+00	1.15E+01
2526	497464.44	3858301.52	1.33087	0.47949	0.78834	0.94061	2.778	2.236	0.4785	0.47949	9.28E+00	8.86E-01	8.21E-05	3.31E-02	8.70E-01	2.10E-01	3.39E+00	3.26E+00	1.14E+01
2527	497514.44	3858301.52	1.32598	0.47938	0.78849	0.93809	2.766	2.071	0.4788	0.47938	9.24E+00	8.85E-01	8.21E-05	3.30E-02	8.67E-01	1.95E-01	3.39E+00	3.26E+00	1.14E+01
2528	497564.44	3858301.52	1.31698	0.47769	0.78799	0.93524	2.752	1.962	0.4798	0.47769	9.18E+00	8.82E-01	8.20E-05	3.29E-02	8.62E-01	1.84E-01	3.40E+00	3.25E+00	1.13E+01
2529	497614.44	3858301.52	1.31549	0.48249	0.78827	0.93319	2.742	1.943	0.4862	0.48249	9.17E+00	8.91E-01	8.21E-05	3.28E-02	8.59E-01	1.83E-01	3.45E+00	3.28E+00	1.13E+01
2530	497364.44	3858351.52	1.3487	0.47426	0.79128	0.92366	2.794	2.245	0.4731	0.47426	9.40E+00	8.76E-01	8.24E-05	3.25E-02	8.75E-01	2.11E-01	3.35E+00	3.22E+00	1.15E+01
2531	497414.44	3858351.52	1.34422	0.47557	0.79131	0.92139	2.782	2.143	0.4746	0.47557	9.37E+00	8.78E-01	8.24E-05	3.24E-02	8.72E-01	2.01E-01	3.36E+00	3.23E+00	1.15E+01
2532	497464.44	3858351.52	1.34399	0.47838	0.79173	0.91964	2.78	2.113	0.4777	0.47838	9.37E+00	8.84E-01	8.24E-05	3.24E-02	8.71E-01	1.99E-01	3.38E+00	3.25E+00	1.15E+01
2533	497514.44	3858351.52	1.34062	0.47919	0.79161	0.91775	2.77	2.039	0.4783	0.47919	9.35E+00	8.85E-01	8.24E-05	3.23E-02	8.68E-01	1.92E-01	3.39E+00	3.26E+00	1.15E+01
2534	497564.44	3858351.52	1.32881	0.47547	0.79032	0.91388	2.753	1.915	0.4737	0.47547	9.26E+00	8.78E-01	8.23E-05	3.22E-02	8.63E-01	1.80E-01	3.36E+00	3.23E+00	1.13E+01
2535	497614.44	3858351.52	1.32792	0.47656	0.79025	0.91243	2.747	1.888	0.4746	0.47656	9.26E+00	8.80E-01	8.23E-05	3.21E-02	8.61E-01	1.77E-01	3.36E+00	3.24E+00	1.13E+01
2536	497364.44	3858401.52	1.34642	0.4692	0.78685	0.90485	2.783	2.087	0.4646	0.4692	9.39E+00	8.67E-01	8.19E-05	3.18E-02	8.72E-01	1.96E-01	3.29E+00	3.19E+00	1.15E+01
2537	497414.44	3858401.52	1.35278	0.47175	0.79013	0.90264	2.788	2.054	0.4667	0.47175	9.43E+00	8.71E-01	8.23E-05	3.18E-02	8.73E-01	1.93E-01	3.31E+00	3.21E+00	1.15E+01
2538	497464.44	3858401.52	1.34763	0.47098	0.78954	0.90057	2.769	2.019	0.4686	0.47098	9.40E+00	8.70E-01	8.22E-05	3.17E-02	8.68E-01	1.90E-01	3.32E+00	3.20E+00	1.15E+01
2539	497514.44	3858401.52	1.34603	0.4735	0.78927	0.89898	2.759	2.001	0.4718	0.4735	9.38E+00	8.75E-01	8.22E-05	3.16E-02	8.64E-01	1.88E-01	3.34E+00	3.22E+00	1.15E+01
2540	497564.44	3858401.52	1.35877	0.48256	0.79069	0.91021	2.782	1.975	0.4822	0.48256	9.47E+00	8.91E-01	8.23E-05	3.20E-02	8.72E-01	1.86E-01	3.42E+00	3.28E+00	1.16E+01
2541	497614.44	3858401.52	1.37455	0.49079	0.79364	0.96917	2.78	1.976	0.4938	0.49079	9.58E+00	9.06E-01	8.26E-05	3.41E-02	8.71E-01	1.86E-01	3.50E+00	3.34E+00	1.17E+01
2542	493478.11	3860497.94	2.93744	2.67732	5.3863	5.95945	9.677	9.821	2.5624	2.67732	2.05E+01	4.94E+00	5.61E-04	2.10E-01	3.03E+00	9.23E-01	1.82E+01	1.82E+01	2.95E+01
2543	493528.11	3860497.94	2.90376	2.61864	5.33607	5.84308	9.486	9.468	2.4951	2.61864	2.02E+01	4.84E+00	5.56E-04	2.06E-01	2.97E+00	8.90E-01	1.77E+01	1.78E+01	2.90E+01
2544	493478.11	3860547.94	2.92692	2.75776	5.1511	5.59072	9.747	10.11	2.6699	2.75776	2.04E+01	5.09E+00	5.36E-04	1.97E-01	3.05E+00	9.50E-01	1.89E+01	1.88E+01	2.99E+01
2545	493528.11	3860547.94	2.89181	2.70129	5.11496	5.5702	9.549	9.719	2.6054	2.70129	2.02E+01	4.99E+00	5.32E-04	1.96E-01	2.99E+00	9.14E-01	1.85E+01	1.84E+01	2.93E+01
2546	493478.11	3860597.94	2.92429	2.80777	4.87985	4.93238	9.747	9.253	2.744	2.80777	2.04E+01	5.19E+00	5.08E-04	1.74E-01	3.05E+00	8.70E-01	1.94E+01	1.91E+01	3.00E+01
2547	493528.11	3860597.94	2.8803	2.75567	4.85483	4.97321	9.603	9.183	2.6837	2.75567	2.01E+01	5.09E+00	5.05E-04	1.75E-01	3.01E+00	8.63E-01	1.90E+01	1.87E+01	2.95E+01
2548	493561.88	3860524.64	2.87746	2.6265	5.20824	5.68774	9.406	9.407	2.5127	2.6265	2.01E+01	4.85E+00	5.42E-04	2.00E-01	2.95E+00	8.84E-01	1.78E+01	1.79E+01	2.89E+01
2549	493591.88	3860524.64	2.8629	2.59122	5.20869	5.63691	9.303	9.223	2.4727	2.59122	2.00E+01	4.79E+00	5.42E-04	1.98E-01	2.91E+00	8.67E-01	1.75E+01	1.76E+01	2.86E+01
2550	493561.88	3860554.64	2.86935	2.67211	5.07012	5.49204	9.436	9.483	2.5747	2.67211	2.00E+01	4.94E+00	5.28E-04	1.93E-01	2.96E+00	8.91E-01	1.82E+01	1.82E+01	2.91E+01
2551	493591.88	3860554.64	2.8578	2.63794	5.09436	5.47887	9.364	9.314	2.5358	2.63794	1.99E+01	4.87E+00	5.30E-04	1.93E-01	2.93E+00	8.75E-01	1.80E+01	1.79E+01	2.88E+01
2552	492880.5	3860293.11	3.31782	3.08955	6.48752	8.0874	11.3	17.96	2.9419	3.08955	2.31E+01	5.71E+00	6.75E-04	2.85E-01	3.54E+00	1.69E+00	2.08E+01	2.10E+01	3.42E+01
2553	492930.5	3860293.11	3.27472	2.98536	6.57219	7.67191	11.26	19.1	2.8339	2.98536	2.28E+01	5.51E+00	6.84E-04	2.70E-01	3.53E+00	1.80E+00	2.01E+01	2.03E+01	3.37E+01
2554	492980.5	3860293.11	3.23809	2.87546	6.56998	7.29366	11.17	20.18	2.7271	2.87546	2.26E+01	5.31E+00	6.84E-04	2.57E-01	3.50E+00	1.90E+00	1.93E+01	1.96E+01	3.33E+01
2555	493030.5	3860293.11	3.2485	2.76928	6.31956	7.02178	11.16	21.01	2.623	2.76928	2.26E+01	5.11E+00	6.58E-04	2.47E-01	3.50E+00	1.98E+00	1.86E+01	1.88E+01	3.32E+01
2556	493080.5	3860293.11	3.27334	2.7509	6.0099	6.78137	11.1	20.23	2.596	2.7509	2.28E+01	5.08E+00	6.26E-04	2.39E-01	3.48E+00	1.90E+00	1.84E+01	1.87E+01	3.32E+01
2557	493130.5	3860293.11	3.19559	2.70794	6.13159	6.40247	10.77	22.01	2.5336	2.70794	2.23E+01	5.00E+00	6.38E-04	2.25E-01	3.37E+00	2.07E+00	1.80E+01	1.84E+01	3.25E+01
2558	493180.5	3860293.11	3.12898	2.5625	6.20399	5.90639	10.46	21.27	2.3695	2.5625	2.18E+01	4.73E+00	6.46E-04	2.08E-01	3.28E+00	2.00E+00	1.68E+01	1.74E+01	3.14E+01
2559	493230.5	3860293.11	3.0883	2.50121	6.16094	5.61174	10.2	21.1	2.2921	2.50121	2.15E+01	4.62E+00	6.41E-04	1.98E-01	3.19E+00	1.98E+00	1.62E+01	1.70E+01	3.08E+01
2560	493280.5	3860293.11	3.07814	2.52142	5.98997	5.47641	9.98	22.58	2.307	2.52142	2.15E+01	4.66E+00	6.24E-04	1.93E-01	3.13E+00	2.12E+00	1.63E+01	1.71E+01	3.08E+01
2561	493330.5	3860293.11	3.05467	2.4623	5.87401	5.33415	9.698	22.87	2.237	2.4623	2.13E+01	4.55E+00	6.12E-04	1.88E-01	3.04E+00	2.15E+00	1.58E+01	1.67E+01	3.03E+01

2562	493380.5	3860293.11	3.02546	2.40787	5.78043	5.15844	9.377	22.83	2.1705	2.40787	2.11E+01	4.45E+00	6.02E-04	1.82E-01	2.94E+00	2.15E+00	1.54E+01	1.64E+01	2.98E+01
2563	492880.5	3860343.11	3.35732	3.26059	6.11059	8.49179	11.05	15.3	3.1495	3.26059	2.34E+01	6.02E+00	6.36E-04	2.99E-01	3.46E+00	1.44E+00	2.23E+01	2.22E+01	3.48E+01
2564	492930.5	3860343.11	3.30976	3.16252	6.12785	8.197	11.06	14.23	3.0419	3.16252	2.31E+01	5.84E+00	6.38E-04	2.89E-01	3.47E+00	1.34E+00	2.16E+01	2.15E+01	3.41E+01
2565	492980.5	3860343.11	3.30424	3.01686	6.24617	8.14211	11.19	13.06	2.912	3.01686	2.30E+01	5.57E+00	6.50E-04	2.87E-01	3.51E+00	1.23E+00	2.06E+01	2.05E+01	3.37E+01
2566	493030.5	3860343.11	3.25479	2.92768	6.23036	7.76616	11.11	12.9	2.8197	2.92768	2.27E+01	5.41E+00	6.49E-04	2.73E-01	3.48E+00	1.21E+00	2.00E+01	1.99E+01	3.31E+01
2567	493080.5	3860343.11	3.25916	2.99511	6.00703	7.73091	11.11	12.63	2.8744	2.99511	2.27E+01	5.53E+00	6.25E-04	2.72E-01	3.48E+00	1.19E+00	2.04E+01	2.04E+01	3.32E+01
2568	493130.5	3860343.11	3.20931	2.83433	6.04565	7.26421	10.9	13.4	2.7029	2.83433	2.24E+01	5.23E+00	6.29E-04	2.56E-01	3.41E+00	1.26E+00	1.92E+01	1.93E+01	3.24E+01
2569	493180.5	3860343.11	3.13769	2.68976	6.16521	6.67215	10.58	13.66	2.5561	2.68976	2.19E+01	4.97E+00	6.42E-04	2.35E-01	3.31E+00	1.28E+00	1.81E+01	1.83E+01	3.15E+01
2570	493230.5	3860343.11	3.09969	2.61979	6.13979	6.33865	10.36	13.66	2.4755	2.61979	2.16E+01	4.84E+00	6.39E-04	2.23E-01	3.25E+00	1.28E+00	1.75E+01	1.78E+01	3.09E+01
2571	493280.5	3860343.11	3.08849	2.5511	6.00578	6.16421	10.21	13.87	2.3908	2.5511	2.15E+01	4.71E+00	6.25E-04	2.17E-01	3.20E+00	1.30E+00	1.69E+01	1.73E+01	3.06E+01
2572	493330.5	3860343.11	3.06948	2.56464	5.89802	5.93701	9.995	14.1	2.3863	2.56464	2.14E+01	4.74E+00	6.14E-04	2.09E-01	3.13E+00	1.33E+00	1.69E+01	1.74E+01	3.03E+01
2573	493380.5	3860343.11	3.03822	2.51327	5.83676	5.66994	9.721	14.23	2.3259	2.51327	2.12E+01	4.64E+00	6.08E-04	2.00E-01	3.05E+00	1.34E+00	1.65E+01	1.71E+01	2.98E+01
2574	492880.5	3860393.11	3.38951	3.38557	5.7769	7.92018	10.68	20.11	3.3082	3.38557	2.36E+01	6.25E+00	6.01E-04	2.79E-01	3.35E+00	1.89E+00	2.34E+01	2.30E+01	3.58E+01
2575	492930.5	3860393.11	3.34708	3.29848	5.86795	7.90253	10.8	17.51	3.212	3.29848	2.33E+01	6.09E+00	6.11E-04	2.78E-01	3.38E+00	1.65E+00	2.28E+01	2.24E+01	3.51E+01
2576	492980.5	3860393.11	3.3172	3.19302	6.02731	7.81742	10.91	15.14	3.0993	3.19302	2.31E+01	5.90E+00	6.27E-04	2.75E-01	3.42E+00	1.42E+00	2.20E+01	2.17E+01	3.44E+01
2577	493030.5	3860393.11	3.28109	3.0826	6.1174	7.73515	10.95	13.48	2.9881	3.0826	2.29E+01	5.69E+00	6.37E-04	2.72E-01	3.43E+00	1.27E+00	2.12E+01	2.10E+01	3.37E+01
2578	493080.5	3860393.11	3.27526	3.09732	5.94902	7.96233	11.03	11.97	3.0051	3.09732	2.28E+01	5.72E+00	6.19E-04	2.80E-01	3.46E+00	1.12E+00	2.13E+01	2.11E+01	3.36E+01
2579	493130.5	3860393.11	3.20565	2.93135	5.95624	7.5508	10.86	11.75	2.8341	2.93135	2.23E+01	5.41E+00	6.20E-04	2.66E-01	3.40E+00	1.10E+00	2.01E+01	1.99E+01	3.27E+01
2580	493180.5	3860393.11	3.13586	2.8409	6.00541	7.116	10.62	11.54	2.7226	2.8409	2.19E+01	5.25E+00	6.25E-04	2.50E-01	3.33E+00	1.08E+00	1.93E+01	1.93E+01	3.17E+01
2581	493230.5	3860393.11	3.10408	2.75855	5.9976	6.90216	10.45	11.38	2.6353	2.75855	2.16E+01	5.09E+00	6.24E-04	2.43E-01	3.27E+00	1.07E+00	1.87E+01	1.88E+01	3.12E+01
2582	493280.5	3860393.11	3.09426	2.6894	5.89903	6.70792	10.32	11.24	2.5758	2.6894	2.16E+01	4.97E+00	6.14E-04	2.36E-01	3.23E+00	1.06E+00	1.83E+01	1.83E+01	3.10E+01
2583	493330.5	3860393.11	3.0749	2.63811	5.82598	6.53526	10.17	11.23	2.4979	2.63811	2.14E+01	4.87E+00	6.07E-04	2.30E-01	3.19E+00	1.06E+00	1.77E+01	1.79E+01	3.05E+01
2584	493380.5	3860393.11	3.04629	2.56731	5.78372	6.30712	9.959	11.25	2.4181	2.56731	2.12E+01	4.74E+00	6.02E-04	2.22E-01	3.12E+00	1.06E+00	1.71E+01	1.75E+01	3.01E+01
2585	492880.5	3860443.11	3.41762	3.45016	5.61234	6.83914	10.24	23.34	3.4026	3.45016	2.38E+01	6.37E+00	5.84E-04	2.41E-01	3.21E+00	2.19E+00	2.41E+01	2.35E+01	3.65E+01
2586	492930.5	3860443.11	3.36414	3.37249	5.54275	6.7734	10.38	21.93	3.3134	3.37249	2.35E+01	6.23E+00	5.77E-04	2.38E-01	3.25E+00	2.06E+00	2.35E+01	2.29E+01	3.58E+01
2587	492980.5	3860443.11	3.32757	3.30078	5.59207	6.91134	10.53	19.5	3.2359	3.30078	2.32E+01	6.10E+00	5.82E-04	2.43E-01	3.30E+00	1.83E+00	2.29E+01	2.24E+01	3.52E+01
2588	493030.5	3860443.11	3.29309	3.21379	5.70924	7.00708	10.65	17.06	3.1409	3.21379	2.30E+01	5.94E+00	5.94E-04	2.47E-01	3.34E+00	1.60E+00	2.23E+01	2.19E+01	3.45E+01
2589	493080.5	3860443.11	3.2478	3.1283	5.75377	7.02027	10.67	15.01	3.0476	3.1283	2.26E+01	5.78E+00	5.99E-04	2.47E-01	3.34E+00	1.41E+00	2.16E+01	2.13E+01	3.37E+01
2590	493130.5	3860443.11	3.204	3.04561	5.79184	6.98068	10.66	13.46	2.9585	3.04561	2.23E+01	5.63E+00	6.03E-04	2.46E-01	3.34E+00	1.27E+00	2.10E+01	2.07E+01	3.31E+01
2591	493180.5	3860443.11	3.13624	2.98482	5.66083	6.88334	10.51	12.49	2.8865	2.98482	2.19E+01	5.51E+00	5.89E-04	2.42E-01	3.29E+00	1.17E+00	2.05E+01	2.03E+01	3.22E+01
2592	493230.5	3860443.11	3.11141	2.8893	5.78759	6.80116	10.49	11.65	2.7884	2.8893	2.17E+01	5.34E+00	6.03E-04	2.39E-01	3.29E+00	1.10E+00	1.98E+01	1.96E+01	3.18E+01
2593	493280.5	3860443.11	3.08688	2.79771	5.78164	6.82604	10.38	11.1	2.6981	2.79771	2.15E+01	5.17E+00	6.02E-04	2.40E-01	3.25E+00	1.04E+00	1.91E+01	1.90E+01	3.13E+01
2594	493330.5	3860443.11	3.07624	2.76234	5.6726	6.76849	10.27	10.68	2.6596	2.76234	2.14E+01	5.10E+00	5.91E-04	2.38E-01	3.22E+00	1.00E+00	1.88E+01	1.88E+01	3.11E+01
2595	493380.5	3860443.11	3.03881	2.66547	5.65486	6.52805	10.06	10.44	2.563	2.66547	2.12E+01	4.92E+00	5.89E-04	2.30E-01	3.15E+00	9.81E-01	1.82E+01	1.81E+01	3.05E+01
2596	493180.5	3860493.11	3.15886	3.06643	5.38332	6.19522	10.38	13.75	2.9964	3.06643	2.20E+01	5.66E+00	5.60E-04	2.18E-01	3.25E+00	1.29E+00	2.12E+01	2.09E+01	3.28E+01
2597	493230.5	3860493.11	3.12398	2.99156	5.47122	6.25618	10.38	12.87	2.9138	2.99156	2.18E+01	5.53E+00	5.70E-04	2.20E-01	3.25E+00	1.21E+00	2.06E+01	2.03E+01	3.23E+01
2598	493280.5	3860493.11	3.09194	2.91475	5.55943	6.26728	10.35	12.12	2.8314	2.91475	2.16E+01	5.38E+00	5.79E-04	2.21E-01	3.24E+00	1.14E+00	2.01E+01	1.98E+01	3.18E+01
2599	493330.5	3860493.11	3.05486	2.83504	5.60114	6.29037	10.26	11.45	2.7496	2.83504	2.13E+01	5.24E+00	5.83E-04	2.21E-01	3.22E+00	1.08E+00	1.95E+01	1.93E+01	3.13E+01
2600	493380.5	3860493.11	3.01757	2.77328	5.55832	6.19759	10.09	10.76	2.6779	2.77328	2.10E+01	5.12E+00	5.79E-04	2.18E-01	3.16E+00	1.01E+00	1.90E+01	1.89E+01	3.07E+01
2601	493330.5	3860543.11	3.06316	2.91639	5.27026	5.55665	10.19	11.29	2.8489	2.91639	2.14E+01	5.39E+00	5.49E-04	1.96E-01	3.19E+00	1.06E+00	2.02E+01	1.98E+01	3.15E+01
2602	493380.5	3860543.11	3.01283	2.85871	5.25295	5.62061	10.07	10.87	2.784	2.85871	2.10E+01	5.28E+00	5.47E-04	1.98E-01	3.16E+00	1.02E+00	1.97E+01	1.94E+01	3.09E+01
2603	494135.94	3860876.85	2.49574	2.32489	3.86953	3.48067	8.174	5.21	2.2758	2.32489	1.74E+01	4.29E+00	4.03E-04	1.23E-01	2.56E+00	4.90E-01	1.61E+01	1.58E+01	2.52E+01
2604	494185.94	3860876.85	2.47317	2.29164	3.82303	3.43167	8.042	5.072	2.2473	2.29164	1.72E+01	4.23E+00	3.98E-04	1.21E-01	2.52E+00	4.77E-01	1.59E+01	1.56E+01	2.49E+01
2605	494135.94	3860926.85	2.48191	2.34035	3.81244	3.40303	8.16	4.913	2.2647	2.34035	1.73E+01	4.32E+00	3.97E-04	1.20E-01	2.56E+00	4.62E-01	1.60E+01	1.59E+01	2.49E+01
2606	494185.94	3860926.85	2.45984	2.30451	3.78242	3.35704	8.078	4.786	2.2407	2.30451	1.71E+01	4.26E+00	3.94E-04	1.18E-01	2.53E+00	4.50E-01	1.59E+01	1.57E+01	2.47E+01
2607	494135.94	3860976.85	2.48637	2.37412	3.86871	3.41395	8.146	4.666	2.303	2.37412	1.73E+01	4.38E+00	4.03E-04	1.20E-01	2.55E+00	4.39E-01	1.63E+01	1.61E+01	2.50E+01
2608	494185.94	3860976.85	2.45354	2.32608	3.7941	3.32027	8.057	4.515	2.2603	2.32608	1.71E+01	4.30E+00	3.95E-04	1.17E-01	2.52E+00	4.24E-01	1.60E+01	1.58E+01	2.47E+01
2609	494135.94	3861026.85	2.51996	2.50715	3.9989	3.56486	8.068	4.595	2.392	2.50715	1.76E+01	4.63E+00	4.16E-04	1.25E-01	2.53E+00	4.32E-01	1.69E+01	1.70E+01	2.52E+01
2610	494185.94	3861026.85	2.47873	2.45781	3.89922	3.46603	8.022	4.415	2.3582	2.45781	1.73E+01	4.54E+00	4.06E-04	1.22E-01	2.51E+00	4.15E-01	1.67E+01	1.67E+01	2.49E+01
2611	494135.94	3861076.85	2.57519	2.65638	4.10809	3.61549	7.932	4.447	2.5247	2.65638	1.80E+01	4.91E+00	4.28E-04	1.27E-01	2.49E+00	4.18E-01	1.79E+01	1.81E+01	2.57E+01
2612	494185.94	3861076.85	2.53192	2.60336	4.01931	3.55264	7.922	4.327	2.4814	2.60336	1.77E+01	4.81E+00	4.18E-04	1.25E-01	2.48E+00	4.07E-01	1.76E+01	1.77E+01	2.54E+01
2613	490360.04	3858710.04	4.41829	2.10996	11.90314	9.08624	25.57	4.975	2.1147	2.10996	3.08E+01	3.90E+00	1.24E-03	3.20E-01	8.01E+00	4.68E-01	1.50E+01	1.43E+01	4.41E+01
2614	490410.04	3858710.04	4.37484	2.01834	14.13718	9.14751	25.17	4.832	2.0329	2.01834	3.05E+01	3.73E+00	1.47E-03	3.22E-01	7.89E+00	4.54E-01	1.44E+01	1.37E+01	4.36E+01
2615	490460.04	3858710.04	4.34768	1.91144	13.39527	8.96013	24.73	4.606	1.9398	1.91144	3.03E+01	3.53E+00	1.39E-03	3.15E-01	7.75E+00	4.33E-01	1.37E+01	1.30E+01	4.31E+01
2616	490510.04	3858710.04	4.32582	1.83965	10.23008	8.34355	24.05	4.456	1.8656	1.83965	3.02E+01	3.40E+00	1.07E-03	2.94E-01	7.53E+00	4.19E-01	1.32E+01	1.25E+01	4.25E+01
2617	490560.04	3858710.04	4.30839	1.77954	8.46028	8.15996	23.23	4.334	1.82	1.77954	3.00E+01	3.29E+00	8.81E-04	2.87E-01	7.28E+00	4.07E-01	1.29E+01	1.21E+01	4.21E+01
2618	490610.04	3858710.04	4.29494	1.71611	8.75682	8.43293	22.35	4.202	1.7846	1.71611	2.99E+01	3.17E+00	9.12E-04	2.97E-01	7.00E+00	3.95E-01	1.26E+01	1.17E+01	4.18E+01

2619	490660.04	3858710.04	4.26819	1.68312	9.40326	8.69696	21.34	4.144	1.7578	1.68312	2.98E+01	3.11E+00	9.79E-04	3.06E-01	6.69E+00	3.90E-01	1.25E+01	1.14E+01	4.13E+01
2620	490710.04	3858710.04	4.26719	1.60525	9.23421	9.00714	20.4	3.969	1.7293	1.60525	2.97E+01	2.96E+00	9.61E-04	3.17E-01	6.39E+00	3.73E-01	1.23E+01	1.09E+01	4.11E+01
2621	490760.04	3858710.04	4.26155	1.5405	8.80677	9.03496	19.6	3.824	1.7021	1.5405	2.97E+01	2.85E+00	9.17E-04	3.18E-01	6.14E+00	3.59E-01	1.21E+01	1.05E+01	4.10E+01
2622	490810.04	3858710.04	4.26088	1.47743	8.63136	8.55331	18.9	3.68	1.6765	1.47743	2.97E+01	2.73E+00	8.99E-04	3.01E-01	5.92E+00	3.46E-01	1.19E+01	1.00E+01	4.08E+01
2623	490860.04	3858710.04	4.27217	1.40095	9.34257	8.20029	18.19	3.486	1.6503	1.40095	2.98E+01	2.59E+00	9.73E-04	2.89E-01	5.70E+00	3.28E-01	1.17E+01	9.53E+00	4.09E+01
2624	490360.04	3858760.04	4.46609	2.21999	14.6188	8.54567	26.07	5.012	2.177	2.21999	3.11E+01	4.10E+00	1.52E-03	3.01E-01	8.17E+00	4.71E-01	1.54E+01	1.51E+01	4.45E+01
2625	490410.04	3858760.04	4.42114	2.10662	14.26787	8.30526	25.48	4.841	2.079	2.10662	3.08E+01	3.89E+00	1.49E-03	2.92E-01	7.98E+00	4.55E-01	1.47E+01	1.43E+01	4.39E+01
2626	490460.04	3858760.04	4.38297	2.00976	10.87842	7.79677	24.88	4.642	1.9865	2.00976	3.06E+01	3.71E+00	1.13E-03	2.74E-01	7.79E+00	4.36E-01	1.41E+01	1.37E+01	4.32E+01
2627	490510.04	3858760.04	4.34943	1.90938	8.82047	7.83238	24.49	4.43	1.9004	1.90938	3.03E+01	3.53E+00	9.18E-04	2.76E-01	7.67E+00	4.16E-01	1.35E+01	1.30E+01	4.27E+01
2628	490560.04	3858760.04	4.30974	1.83159	9.0551	8.08324	23.9	4.276	1.8527	1.83159	3.00E+01	3.38E+00	9.43E-04	2.84E-01	7.49E+00	4.02E-01	1.31E+01	1.25E+01	4.23E+01
2629	490610.04	3858760.04	4.29893	1.74882	9.57327	8.15269	23.22	4.108	1.8112	1.74882	3.00E+01	3.23E+00	9.97E-04	2.87E-01	7.27E+00	3.86E-01	1.28E+01	1.19E+01	4.21E+01
2630	490660.04	3858760.04	4.29107	1.67865	9.61526	8.34773	22.42	3.965	1.7731	1.67865	2.99E+01	3.10E+00	1.00E-03	2.94E-01	7.02E+00	3.73E-01	1.26E+01	1.14E+01	4.19E+01
2631	490710.04	3858760.04	4.28529	1.61129	9.01461	8.5175	21.55	3.819	1.7366	1.61129	2.99E+01	2.98E+00	9.38E-04	3.00E-01	6.75E+00	3.59E-01	1.23E+01	1.10E+01	4.16E+01
2632	490760.04	3858760.04	4.28856	1.53271	9.78765	8.24603	20.65	3.636	1.7053	1.53271	2.99E+01	2.83E+00	1.02E-03	2.90E-01	6.47E+00	3.42E-01	1.21E+01	1.04E+01	4.15E+01
2633	490810.04	3858760.04	4.29023	1.46177	10.72723	7.79435	19.71	3.484	1.6778	1.46177	2.99E+01	2.70E+00	1.12E-03	2.74E-01	6.17E+00	3.27E-01	1.19E+01	9.94E+00	4.13E+01
2634	490860.04	3858760.04	4.28708	1.40262	10.85687	7.59149	18.9	3.359	1.6513	1.40262	2.99E+01	2.59E+00	1.13E-03	2.67E-01	5.92E+00	3.16E-01	1.17E+01	9.54E+00	4.11E+01
2635	490360.04	3858810.04	4.51871	2.30813	15.22302	7.86355	26.14	4.955	2.2191	2.30813	3.15E+01	4.26E+00	1.58E-03	2.77E-01	8.19E+00	4.66E-01	1.57E+01	1.57E+01	4.47E+01
2636	490410.04	3858810.04	4.47603	2.18835	11.54558	7.36572	25.9	4.759	2.1193	2.18835	3.12E+01	4.04E+00	1.20E-03	2.59E-01	8.12E+00	4.47E-01	1.50E+01	1.49E+01	4.42E+01
2637	490460.04	3858810.04	4.43799	2.08224	9.58582	7.4695	25.46	4.551	2.0082	2.08224	3.09E+01	3.85E+00	9.98E-04	2.63E-01	7.98E+00	4.28E-01	1.42E+01	1.42E+01	4.35E+01
2638	490510.04	3858810.04	4.39332	2.00083	9.52439	7.751	24.76	4.404	1.9416	2.00083	3.06E+01	3.70E+00	9.92E-04	2.73E-01	7.76E+00	4.14E-01	1.38E+01	1.36E+01	4.29E+01
2639	490560.04	3858810.04	4.3535	1.91489	10.30455	7.8333	24.11	4.244	1.894	1.91489	3.04E+01	3.54E+00	1.07E-03	2.76E-01	7.56E+00	3.99E-01	1.34E+01	1.30E+01	4.25E+01
2640	490610.04	3858810.04	4.32755	1.80568	10.18396	7.87384	23.68	4.019	1.845	1.80568	3.02E+01	3.33E+00	1.06E-03	2.77E-01	7.42E+00	3.78E-01	1.31E+01	1.23E+01	4.24E+01
2641	490660.04	3858810.04	4.29489	1.72303	10.20736	8.09664	23.08	3.85	1.7992	1.72303	2.99E+01	3.18E+00	1.06E-03	2.85E-01	7.23E+00	3.62E-01	1.27E+01	1.17E+01	4.20E+01
2642	490710.04	3858810.04	4.2921	1.63811	11.43103	7.89248	22.39	3.657	1.7567	1.63811	2.99E+01	3.03E+00	1.19E-03	2.78E-01	7.02E+00	3.44E-01	1.24E+01	1.11E+01	4.19E+01
2643	490760.04	3858810.04	4.30943	1.53683	11.88216	7.64657	21.64	3.419	1.7172	1.53683	3.00E+01	2.84E+00	1.24E-03	2.69E-01	6.78E+00	3.21E-01	1.22E+01	1.05E+01	4.20E+01
2644	490810.04	3858810.04	4.29573	1.49189	11.76607	7.36723	20.75	3.349	1.6882	1.49189	2.99E+01	2.76E+00	1.22E-03	2.59E-01	6.50E+00	3.15E-01	1.20E+01	1.01E+01	4.16E+01
2645	490860.04	3858810.04	4.30559	1.41424	10.87969	6.99169	19.86	3.181	1.6554	1.41424	3.00E+01	2.61E+00	1.13E-03	2.46E-01	6.22E+00	2.99E-01	1.17E+01	9.62E+00	4.15E+01
2646	490360.04	3858860.04	4.57958	2.37846	12.24934	7.05332	25.67	4.842	2.2435	2.37846	3.19E+01	4.39E+00	1.28E-03	2.48E-01	8.04E+00	4.55E-01	1.59E+01	1.62E+01	4.48E+01
2647	490410.04	3858860.04	4.52172	2.30218	10.5216	7.09941	25.66	4.723	2.1688	2.30218	3.15E+01	4.25E+00	1.10E-03	2.50E-01	8.04E+00	4.44E-01	1.54E+01	1.57E+01	4.42E+01
2648	490460.04	3858860.04	4.48863	2.17684	10.43899	7.35992	25.59	4.477	2.0539	2.17684	3.13E+01	4.02E+00	1.09E-03	2.59E-01	8.02E+00	4.21E-01	1.46E+01	1.48E+01	4.38E+01
2649	490510.04	3858860.04	4.43504	2.10927	11.20162	7.53288	25.16	4.371	1.9862	2.10927	3.09E+01	3.90E+00	1.17E-03	2.65E-01	7.88E+00	4.11E-01	1.41E+01	1.43E+01	4.31E+01
2650	490560.04	3858860.04	4.40279	1.99948	10.74035	7.53134	24.65	4.161	1.9306	1.99948	3.07E+01	3.69E+00	1.12E-03	2.65E-01	7.72E+00	3.91E-01	1.37E+01	1.36E+01	4.28E+01
2651	490610.04	3858860.04	4.38816	1.8652	11.72414	7.65125	24.01	3.872	1.8722	1.8652	3.06E+01	3.44E+00	1.22E-03	2.69E-01	7.52E+00	3.64E-01	1.33E+01	1.27E+01	4.28E+01
2652	490660.04	3858860.04	4.35545	1.77938	12.94813	7.56523	23.38	3.701	1.8286	1.77938	3.04E+01	3.29E+00	1.35E-03	2.66E-01	7.33E+00	3.48E-01	1.30E+01	1.21E+01	4.24E+01
2653	490710.04	3858860.04	4.31579	1.71368	13.01907	7.36361	22.84	3.581	1.7919	1.71368	3.01E+01	3.17E+00	1.36E-03	2.59E-01	7.16E+00	3.37E-01	1.27E+01	1.17E+01	4.21E+01
2654	490760.04	3858860.04	4.30335	1.60492	12.24858	6.98915	22.25	3.341	1.7463	1.60492	3.00E+01	2.96E+00	1.28E-03	2.46E-01	6.97E+00	3.14E-01	1.24E+01	1.09E+01	4.20E+01
2655	490810.04	3858860.04	4.31574	1.50757	10.70918	6.85469	21.55	3.147	1.7025	1.50757	3.01E+01	2.78E+00	1.11E-03	2.41E-01	6.75E+00	2.96E-01	1.21E+01	1.03E+01	4.20E+01
2656	490860.04	3858860.04	4.3311	1.41073	8.93355	6.36051	20.75	2.959	1.6727	1.41073	3.02E+01	2.61E+00	9.30E-04	2.24E-01	6.50E+00	2.78E-01	1.19E+01	9.59E+00	4.21E+01
2657	490360.04	3858910.04	4.65063	2.55425	11.5537	6.91536	24.38	5.042	2.3423	2.55425	3.24E+01	4.72E+00	1.20E-03	2.43E-01	7.64E+00	4.74E-01	1.66E+01	1.74E+01	4.47E+01
2658	490410.04	3858910.04	4.5826	2.43452	11.44133	7.12245	24.8	4.833	2.2416	2.43452	3.19E+01	4.50E+00	1.19E-03	2.51E-01	7.77E+00	4.54E-01	1.59E+01	1.66E+01	4.43E+01
2659	490460.04	3858910.04	4.53163	2.31742	12.01933	7.23914	25.03	4.607	2.1378	2.31742	3.16E+01	4.28E+00	1.25E-03	2.55E-01	7.84E+00	4.33E-01	1.51E+01	1.58E+01	4.38E+01
2660	490510.04	3858910.04	4.49152	2.19259	11.88939	7.21456	25.06	4.364	2.032	2.19259	3.13E+01	4.05E+00	1.24E-03	2.54E-01	7.85E+00	4.10E-01	1.44E+01	1.49E+01	4.34E+01
2661	490560.04	3858910.04	4.46492	2.06053	13.64132	7.11899	24.89	4.105	1.9614	2.06053	3.11E+01	3.81E+00	1.42E-03	2.51E-01	7.80E+00	3.86E-01	1.39E+01	1.40E+01	4.33E+01
2662	490610.04	3858910.04	4.44262	1.93602	14.14676	7.29212	24.51	3.846	1.9061	1.93602	3.10E+01	3.58E+00	1.47E-03	2.57E-01	7.68E+00	3.62E-01	1.35E+01	1.32E+01	4.32E+01
2663	490660.04	3858910.04	4.41238	1.83954	13.63249	7.02665	23.91	3.653	1.8604	1.83954	3.08E+01	3.40E+00	1.42E-03	2.47E-01	7.49E+00	3.43E-01	1.32E+01	1.25E+01	4.29E+01
2664	490710.04	3858910.04	4.39211	1.73036	12.08477	6.87432	23.18	3.434	1.8142	1.73036	3.06E+01	3.20E+00	1.26E-03	2.42E-01	7.26E+00	3.23E-01	1.29E+01	1.18E+01	4.27E+01
2665	490760.04	3858910.04	4.38416	1.60486	9.95371	6.56884	22.59	3.202	1.7625	1.60486	3.06E+01	2.96E+00	1.04E-03	2.31E-01	7.08E+00	3.01E-01	1.25E+01	1.09E+01	4.27E+01
2666	490810.04	3858910.04	4.35977	1.52012	8.53462	6.31461	22.03	3.05	1.7256	1.52012	3.04E+01	2.81E+00	8.89E-04	2.22E-01	6.90E+00	2.87E-01	1.22E+01	1.03E+01	4.25E+01
2667	490860.04	3858910.04	4.36402	1.40185	7.86448	5.84999	21.35	2.847	1.6929	1.40185	3.04E+01	2.59E+00	8.19E-04	2.06E-01	6.69E+00	2.68E-01	1.20E+01	9.53E+00	4.26E+01
2668	490360.04	3858960.04	4.79426	2.66201	12.54155	6.9335	23.16	5.161	2.419	2.66201	3.34E+01	4.92E+00	1.31E-03	2.44E-01	7.26E+00	4.85E-01	1.71E+01	1.81E+01	4.54E+01
2669	490410.04	3858960.04	4.71923	2.51839	12.6184	7.00403	23.52	4.893	2.2922	2.51839	3.29E+01	4.65E+00	1.31E-03	2.47E-01	7.37E+00	4.60E-01	1.62E+01	1.71E+01	4.47E+01
2670	490460.04	3858960.04	4.65172	2.37158	13.85347	6.90762	24.1	4.602	2.1745	2.37158	3.24E+01	4.38E+00	1.44E-03	2.43E-01	7.55E+00	4.33E-01	1.54E+01	1.61E+01	4.43E+01
2671	490510.04	3858960.04	4.59888	2.24105	15.3604	6.85008	24.44	4.348	2.0679	2.24105	3.21E+01	4.14E+00	1.60E-03	2.41E-01	7.66E+00	4.09E-01	1.47E+01	1.52E+01	4.39E+01
2672	490560.04	3858960.04	4.54904	2.11821	15.07143	6.93438	24.56	4.101	1.9911	2.11821	3.17E+01	3.91E+00	1.57E-03	2.44E-01	7.69E+00	3.85E-01	1.41E+01	1.44E+01	4.37E+01
2673	490610.04	3858960.04	4.51907	1.96332	13.52337	6.79921	24.51	3.779	1.928	1.96332	3.15E+01	3.63E+00	1.41E-03	2.39E-01	7.68E+00	3.55E-01	1.37E+01	1.34E+01	4.37E+01
2674	490660.04	3858960.04	4.47099	1.89485	11.34194	6.61086	24.17	3.655	1.891	1.89485	3.12E+01	3.50E+00	1.18E-03	2.33E-01	7.57E+00	3.44E-01	1.34E+01	1.29E+01	4.33E+01
2675	490710.04	3858960.04	4.46273	1.75142	9.69579	6.25304	23.73	3.394	1.8355	1.75142	3.11E+01	3.23E+00	1.01E-03	2.20E-01	7.43E+00	3.19E-01	1.30E+01	1.19E+01	4.34E+01

2676	490760.04	3858960.04	4.44932	1.63122	9.37651	6.15031	23.1	3.175	1.7896	1.63122	3.10E+01	3.01E+00	9.76E-04	2.16E-01	7.24E+00	2.98E-01	1.27E+01	1.11E+01	4.34E+01
2677	490810.04	3858960.04	4.43897	1.51364	10.12327	5.82342	22.28	2.966	1.7412	1.51364	3.09E+01	2.80E+00	1.05E-03	2.05E-01	6.98E+00	2.79E-01	1.23E+01	1.03E+01	4.33E+01
2678	490860.04	3858960.04	4.44094	1.37986	10.67686	5.42902	21.64	2.784	1.7084	1.37986	3.10E+01	2.55E+00	1.11E-03	1.91E-01	6.78E+00	2.62E-01	1.21E+01	9.38E+00	4.35E+01
2679	490360.04	3859010.04	4.94881	2.76204	13.913	6.9709	21.92	5.308	2.497	2.76204	3.45E+01	5.10E+00	1.45E-03	2.45E-01	6.87E+00	4.99E-01	1.77E+01	1.88E+01	4.61E+01
2680	490410.04	3859010.04	4.87636	2.592	16.53186	6.85639	22.5	4.981	2.3446	2.592	3.40E+01	4.79E+00	1.72E-03	2.41E-01	7.05E+00	4.68E-01	1.66E+01	1.76E+01	4.55E+01
2681	490460.04	3859010.04	4.81783	2.39625	16.78871	6.67202	22.88	4.597	2.1973	2.39625	3.36E+01	4.43E+00	1.75E-03	2.35E-01	7.17E+00	4.32E-01	1.56E+01	1.63E+01	4.51E+01
2682	490510.04	3859010.04	4.76085	2.21905	15.49161	6.63143	23.35	4.241	2.065	2.21905	3.32E+01	4.10E+00	1.61E-03	2.33E-01	7.32E+00	3.99E-01	1.46E+01	1.51E+01	4.48E+01
2683	490560.04	3859010.04	4.68555	2.12936	13.20443	6.55036	23.73	4.057	2.0047	2.12936	3.27E+01	3.93E+00	1.37E-03	2.31E-01	7.43E+00	3.81E-01	1.42E+01	1.45E+01	4.44E+01
2684	490610.04	3859010.04	4.65189	1.96758	11.2049	6.31803	23.97	3.764	1.9436	1.96758	3.24E+01	3.63E+00	1.17E-03	2.22E-01	7.51E+00	3.54E-01	1.38E+01	1.34E+01	4.45E+01
2685	490660.04	3859010.04	4.58629	1.90406	11.4473	6.16553	23.94	3.639	1.9084	1.90406	3.20E+01	3.52E+00	1.19E-03	2.17E-01	7.50E+00	3.42E-01	1.35E+01	1.29E+01	4.41E+01
2686	490710.04	3859010.04	4.56104	1.74412	12.39738	5.89727	23.78	3.347	1.8506	1.74412	3.18E+01	3.22E+00	1.29E-03	2.08E-01	7.45E+00	3.15E-01	1.31E+01	1.19E+01	4.42E+01
2687	490760.04	3859010.04	4.53535	1.60762	13.45611	5.68791	23.39	3.113	1.8001	1.60762	3.16E+01	2.97E+00	1.40E-03	2.00E-01	7.33E+00	2.93E-01	1.28E+01	1.09E+01	4.42E+01
2688	490810.04	3859010.04	4.53039	1.47462	13.36065	5.41965	22.82	2.889	1.7494	1.47462	3.16E+01	2.72E+00	1.39E-03	1.91E-01	7.15E+00	2.72E-01	1.24E+01	1.00E+01	4.43E+01
2689	490860.04	3859010.04	4.52084	1.36125	12.36775	5.0826	22.11	2.749	1.7243	1.36125	3.15E+01	2.51E+00	1.29E-03	1.79E-01	6.93E+00	2.58E-01	1.22E+01	9.26E+00	4.44E+01
2690	490360.04	3859060.04	5.1178	2.82997	19.10025	6.92997	20.56	5.517	2.5487	2.82997	3.57E+01	5.23E+00	1.99E-03	2.44E-01	6.44E+00	5.19E-01	1.81E+01	1.92E+01	4.69E+01
2691	490410.04	3859060.04	5.06123	2.58923	18.11116	6.59195	21.21	5.049	2.3534	2.58923	3.53E+01	4.78E+00	1.89E-03	2.32E-01	6.64E+00	4.75E-01	1.67E+01	1.76E+01	4.65E+01
2692	490460.04	3859060.04	4.99485	2.40606	15.54511	6.42061	21.84	4.676	2.2141	2.40606	3.48E+01	4.44E+00	1.62E-03	2.26E-01	6.84E+00	4.40E-01	1.57E+01	1.64E+01	4.61E+01
2693	490510.04	3859060.04	4.92516	2.25335	13.25947	6.3692	22.24	4.357	2.0969	2.25335	3.43E+01	4.16E+00	1.38E-03	2.24E-01	6.97E+00	4.10E-01	1.49E+01	1.53E+01	4.56E+01
2694	490560.04	3859060.04	4.86992	2.07129	13.62818	6.12737	22.45	4.006	2.0073	2.07129	3.40E+01	3.83E+00	1.42E-03	2.16E-01	7.03E+00	3.77E-01	1.42E+01	1.41E+01	4.55E+01
2695	490610.04	3859060.04	4.79639	1.96218	15.44173	5.9915	22.92	3.793	1.9563	1.96218	3.34E+01	3.62E+00	1.61E-03	2.11E-01	7.18E+00	3.56E-01	1.39E+01	1.33E+01	4.53E+01
2696	490660.04	3859060.04	4.73638	1.86458	16.81479	5.6583	23.21	3.598	1.9097	1.86458	3.30E+01	3.44E+00	1.75E-03	1.99E-01	7.27E+00	3.38E-01	1.35E+01	1.27E+01	4.51E+01
2697	490710.04	3859060.04	4.71302	1.6937	15.99055	5.53332	23.31	3.303	1.8545	1.6937	3.29E+01	3.13E+00	1.66E-03	1.95E-01	7.30E+00	3.10E-01	1.31E+01	1.15E+01	4.54E+01
2698	490760.04	3859060.04	4.68464	1.54943	14.0372	5.3286	23.18	3.074	1.7998	1.54943	3.27E+01	2.86E+00	1.46E-03	1.88E-01	7.26E+00	2.89E-01	1.28E+01	1.05E+01	4.55E+01
2699	490810.04	3859060.04	4.66004	1.40747	12.06512	5.04934	22.88	2.867	1.7624	1.40747	3.25E+01	2.60E+00	1.26E-03	1.78E-01	7.17E+00	2.70E-01	1.25E+01	9.57E+00	4.56E+01
2700	490860.04	3859060.04	4.62939	1.28968	10.75563	4.82142	24.32	2.735	1.7566	1.28968	3.23E+01	2.38E+00	1.12E-03	1.70E-01	7.62E+00	2.57E-01	1.24E+01	8.77E+00	4.64E+01
2701	490360.04	3859110.04	5.2776	2.95413	18.48564	6.95146	19.14	5.849	2.6301	2.95413	3.68E+01	5.46E+00	1.92E-03	2.45E-01	6.00E+00	5.50E-01	1.86E+01	2.01E+01	4.76E+01
2702	490410.04	3859110.04	5.22078	2.68976	16.01339	6.47285	19.9	5.338	2.42	2.68976	3.64E+01	4.97E+00	1.67E-03	2.28E-01	6.24E+00	5.02E-01	1.71E+01	1.83E+01	4.72E+01
2703	490460.04	3859110.04	5.14484	2.52181	17.28416	6.34653	20.39	4.987	2.2895	2.52181	3.59E+01	4.66E+00	1.80E-03	2.23E-01	6.39E+00	4.69E-01	1.62E+01	1.71E+01	4.67E+01
2704	490510.04	3859110.04	5.11094	2.22859	19.4497	6.06851	21.05	4.4	2.1027	2.22859	3.56E+01	4.12E+00	2.02E-03	2.14E-01	6.60E+00	4.14E-01	1.49E+01	1.52E+01	4.67E+01
2705	490560.04	3859110.04	5.04696	2.06113	20.01991	5.83856	21.52	4.076	2.0226	2.06113	3.52E+01	3.81E+00	2.08E-03	2.05E-01	6.74E+00	3.83E-01	1.43E+01	1.40E+01	4.66E+01
2706	490610.04	3859110.04	4.99243	1.88317	18.23192	5.63506	21.79	3.773	1.9582	1.88317	3.48E+01	3.48E+00	1.90E-03	1.98E-01	6.83E+00	3.55E-01	1.39E+01	1.28E+01	4.67E+01
2707	490660.04	3859110.04	4.94928	1.69094	15.30218	5.36905	21.99	3.451	1.8927	1.69094	3.45E+01	3.12E+00	1.59E-03	1.89E-01	6.89E+00	3.24E-01	1.34E+01	1.15E+01	4.69E+01
2708	490710.04	3859110.04	4.8833	1.59053	14.01858	5.22832	22.34	3.259	1.846	1.59053	3.40E+01	2.94E+00	1.46E-03	1.84E-01	7.00E+00	3.06E-01	1.31E+01	1.08E+01	4.67E+01
2709	490760.04	3859110.04	4.85033	1.4576	12.149	5.023	22.5	3.029	1.7989	1.4576	3.38E+01	2.69E+00	1.26E-03	1.77E-01	7.05E+00	2.85E-01	1.27E+01	9.91E+00	4.69E+01
2710	490810.04	3859110.04	4.83126	1.30225	10.98663	4.73541	24.37	2.826	1.8006	1.30225	3.37E+01	2.41E+00	1.14E-03	1.67E-01	7.64E+00	2.66E-01	1.28E+01	8.86E+00	4.81E+01
2711	490860.04	3859110.04	4.80998	1.17192	9.56727	4.653	24.55	2.675	1.7971	1.17192	3.35E+01	2.16E+00	9.96E-04	1.64E-01	7.69E+00	2.51E-01	1.27E+01	7.97E+00	4.86E+01
2712	490360.04	3859160.04	5.42648	3.12395	20.9552	7.03067	17.64	6.261	2.738	3.12395	3.78E+01	5.77E+00	2.18E-03	2.47E-01	5.53E+00	5.89E-01	1.94E+01	2.12E+01	4.81E+01
2713	490410.04	3859160.04	5.36641	2.84889	24.50424	6.59257	18.37	5.728	2.5413	2.84889	3.74E+01	5.26E+00	2.55E-03	2.32E-01	5.76E+00	5.38E-01	1.80E+01	1.94E+01	4.78E+01
2714	490460.04	3859160.04	5.30314	2.61542	24.71157	6.20812	19.13	5.254	2.3523	2.61542	3.70E+01	4.83E+00	2.57E-03	2.19E-01	5.99E+00	4.94E-01	1.67E+01	1.78E+01	4.74E+01
2715	490510.04	3859160.04	5.24573	2.38243	22.29064	5.93229	19.7	4.782	2.198	2.38243	3.66E+01	4.40E+00	2.32E-03	2.09E-01	6.17E+00	4.50E-01	1.56E+01	1.62E+01	4.72E+01
2716	490560.04	3859160.04	5.20701	2.10885	19.77186	5.70225	20.17	4.255	2.0537	2.10885	3.63E+01	3.89E+00	2.06E-03	2.01E-01	6.32E+00	4.00E-01	1.46E+01	1.43E+01	4.73E+01
2717	490610.04	3859160.04	5.1434	1.94499	17.2274	5.42466	20.7	3.97	1.9931	1.94499	3.59E+01	3.59E+00	1.79E-03	1.91E-01	6.49E+00	3.73E-01	1.41E+01	1.32E+01	4.74E+01
2718	490660.04	3859160.04	5.14549	1.60634	14.22611	5.19202	21	3.441	1.8974	1.60634	3.59E+01	2.97E+00	1.48E-03	1.83E-01	6.58E+00	3.23E-01	1.34E+01	1.09E+01	4.84E+01
2719	490710.04	3859160.04	5.07909	1.49128	12.86199	5.05474	21.12	3.231	1.8499	1.49128	3.54E+01	2.75E+00	1.34E-03	1.78E-01	6.62E+00	3.04E-01	1.31E+01	1.01E+01	4.82E+01
2720	490760.04	3859160.04	5.0552	1.28035	11.09919	4.76877	22.98	2.941	1.851	1.28035	3.52E+01	2.36E+00	1.16E-03	1.68E-01	7.20E+00	2.76E-01	1.31E+01	8.71E+00	4.97E+01
2721	490810.04	3859160.04	5.00815	1.19378	10.50959	4.59908	23.59	2.792	1.8424	1.19378	3.49E+01	2.20E+00	1.09E-03	1.62E-01	7.39E+00	2.62E-01	1.31E+01	8.12E+00	4.99E+01
2722	490860.04	3859160.04	4.9723	1.1235	9.59811	4.56746	23.97	2.65	1.8294	1.1235	3.47E+01	2.08E+00	9.99E-04	1.61E-01	7.51E+00	2.49E-01	1.30E+01	7.64E+00	5.00E+01
2723	490360.04	3859210.04	5.56519	3.32035	26.26683	7.32147	16.06	6.703	2.8576	3.32035	3.88E+01	6.13E+00	2.73E-03	2.58E-01	5.03E+00	6.30E-01	2.02E+01	2.26E+01	4.85E+01
2724	490410.04	3859210.04	5.47781	3.13382	24.7796	6.89333	16.82	6.327	2.7529	3.13382	3.82E+01	5.79E+00	2.58E-03	2.43E-01	5.27E+00	5.95E-01	1.95E+01	2.13E+01	4.83E+01
2725	490460.04	3859210.04	5.44718	2.73066	23.60466	6.17033	17.62	5.538	2.431	2.73066	3.80E+01	5.04E+00	2.46E-03	2.17E-01	5.52E+00	5.21E-01	1.72E+01	1.86E+01	4.79E+01
2726	490510.04	3859210.04	5.3978	2.46531	22.21696	5.9133	18.37	5.01	2.2586	2.46531	3.76E+01	4.55E+00	2.31E-03	2.08E-01	5.76E+00	4.71E-01	1.60E+01	1.68E+01	4.79E+01
2727	490560.04	3859210.04	5.32775	2.28369	20.52815	5.67281	18.95	4.64	2.1364	2.28369	3.71E+01	4.22E+00	2.14E-03	2.00E-01	5.94E+00	4.36E-01	1.51E+01	1.55E+01	4.75E+01
2728	490610.04	3859210.04	5.282	2.03993	19.26586	5.45257	19.37	4.2	2.0365	2.03993	3.68E+01	3.77E+00	2.01E-03	1.92E-01	6.07E+00	3.95E-01	1.44E+01	1.39E+01	4.78E+01
2729	490660.04	3859210.04	5.27141	1.68482	16.54295	5.17773	19.82	3.649	1.9363	1.68482	3.68E+01	3.11E+00	1.72E-03	1.82E-01	6.21E+00	3.43E-01	1.37E+01	1.15E+01	4.89E+01
2730	490710.04	3859210.04	5.21454	1.48445	15.11207	4.97314	20.19	3.312	1.8779	1.48445	3.64E+01	2.74E+00	1.57E-03	1.75E-01	6.33E+00	3.11E-01	1.33E+01	1.01E+01	4.91E+01
2731	490760.04	3859210.04	5.20618	1.31869	12.12589	4.66726	22.12	3.052	1.8822	1.31869	3.63E+01	2.44E+00	1.26E-03	1.64E-01	6.93E+00	2.87E-01	1.33E+01	8.97E+00	5.05E+01
2732	490810.04	3859210.04	5.10968	1.28895	11.61151	4.58013	22.29	2.968	1.8519	1.28895	3.56E+01	2.38E+00	1.21E-03	1.61E-01	6.98E+00	2.79E-01	1.31E+01	8.76E+00	4.98E+01

2733	490860.04	3859210.04	5.01921	1.25218	10.80983	4.5256	22.55	2.879	1.828	1.25218	3.50E+01	2.31E+00	1.13E-03	1.59E-01	7.07E+00	2.71E-01	1.30E+01	8.51E+00	4.92E+01
2734	490360.04	3859260.04	5.69938	3.50527	25.90767	7.77679	14.98	7.06	2.9547	3.50527	3.97E+01	6.47E+00	2.70E-03	2.74E-01	4.69E+00	6.64E-01	2.09E+01	2.38E+01	4.89E+01
2735	490410.04	3859260.04	5.62213	3.25558	26.21131	7.2118	15.41	6.582	2.813	3.25558	3.92E+01	6.01E+00	2.73E-03	2.54E-01	4.83E+00	6.19E-01	1.99E+01	2.21E+01	4.87E+01
2736	490460.04	3859260.04	5.53813	3.06276	25.22821	6.76928	16.08	6.199	2.6937	3.06276	3.86E+01	5.66E+00	2.63E-03	2.38E-01	5.04E+00	5.83E-01	1.91E+01	2.08E+01	4.84E+01
2737	490510.04	3859260.04	5.45554	2.84891	24.55176	6.30327	16.75	5.77	2.5096	2.84891	3.80E+01	5.26E+00	2.56E-03	2.22E-01	5.25E+00	5.42E-01	1.78E+01	1.94E+01	4.77E+01
2738	490560.04	3859260.04	5.40748	2.59513	23.58526	5.89997	17.48	5.273	2.3148	2.59513	3.77E+01	4.79E+00	2.46E-03	2.08E-01	5.48E+00	4.96E-01	1.64E+01	1.76E+01	4.74E+01
2739	490610.04	3859260.04	5.38954	2.21973	21.09028	5.59931	18.18	4.554	2.0994	2.21973	3.76E+01	4.10E+00	2.20E-03	1.97E-01	5.70E+00	4.28E-01	1.49E+01	1.51E+01	4.78E+01
2740	490660.04	3859260.04	5.29607	2.14591	19.43327	5.43383	18.61	4.4	2.0592	2.14591	3.69E+01	3.96E+00	2.02E-03	1.91E-01	5.83E+00	4.14E-01	1.46E+01	1.46E+01	4.73E+01
2741	490710.04	3859260.04	5.22958	1.91637	18.33807	5.11129	18.94	4.004	1.9799	1.91637	3.65E+01	3.54E+00	1.91E-03	1.80E-01	5.93E+00	3.76E-01	1.40E+01	1.30E+01	4.75E+01
2742	490760.04	3859260.04	5.22761	1.65596	14.38218	4.73861	19.39	3.584	1.9072	1.65596	3.64E+01	3.06E+00	1.50E-03	1.67E-01	6.07E+00	3.37E-01	1.35E+01	1.13E+01	4.83E+01
2743	490810.04	3859260.04	5.14651	1.58144	13.34053	4.67718	19.69	3.434	1.8682	1.58144	3.59E+01	2.92E+00	1.39E-03	1.65E-01	6.17E+00	3.23E-01	1.32E+01	1.08E+01	4.79E+01
2744	490860.04	3859260.04	5.06757	1.50838	12.41359	4.60303	19.82	3.288	1.8319	1.50838	3.53E+01	2.79E+00	1.29E-03	1.62E-01	6.21E+00	3.09E-01	1.30E+01	1.03E+01	4.75E+01
2745	490360.04	3859310.04	5.78133	3.86841	26.88593	8.52318	13.79	7.605	3.254	3.86841	4.03E+01	7.14E+00	2.80E-03	3.00E-01	4.32E+00	7.15E-01	2.31E+01	2.63E+01	4.95E+01
2746	490410.04	3859310.04	5.70562	3.58758	25.46345	7.91829	14.36	7.114	3.0477	3.58758	3.98E+01	6.63E+00	2.65E-03	2.79E-01	4.50E+00	6.69E-01	2.16E+01	2.44E+01	4.91E+01
2747	490460.04	3859310.04	5.62792	3.34995	23.33003	7.3576	14.81	6.678	2.8795	3.34995	3.92E+01	6.19E+00	2.43E-03	2.59E-01	4.64E+00	6.28E-01	2.04E+01	2.28E+01	4.86E+01
2748	490510.04	3859310.04	5.54196	3.16992	22.00146	6.93072	15.25	6.346	2.7693	3.16992	3.86E+01	5.85E+00	2.29E-03	2.44E-01	4.78E+00	5.97E-01	1.96E+01	2.16E+01	4.82E+01
2749	490560.04	3859310.04	5.4644	2.97689	21.26592	6.49661	15.93	5.982	2.6158	2.97689	3.81E+01	5.50E+00	2.21E-03	2.29E-01	4.99E+00	5.62E-01	1.85E+01	2.02E+01	4.77E+01
2750	490610.04	3859310.04	5.38269	2.82091	20.9409	6.139	16.57	5.682	2.4706	2.82091	3.75E+01	5.21E+00	2.18E-03	2.16E-01	5.19E+00	5.34E-01	1.75E+01	1.92E+01	4.70E+01
2751	490660.04	3859310.04	5.31863	2.61389	20.42812	5.80156	17.26	5.282	2.2888	2.61389	3.71E+01	4.83E+00	2.13E-03	2.04E-01	5.41E+00	4.97E-01	1.62E+01	1.78E+01	4.65E+01
2752	490710.04	3859310.04	5.30589	2.23603	18.81603	5.33552	17.85	4.568	2.074	2.23603	3.70E+01	4.13E+00	1.96E-03	1.88E-01	5.59E+00	4.29E-01	1.47E+01	1.52E+01	4.68E+01
2753	490760.04	3859310.04	5.25406	2.03156	16.76564	5.02761	18.22	4.199	2.0057	2.03156	3.66E+01	3.75E+00	1.75E-03	1.77E-01	5.71E+00	3.95E-01	1.42E+01	1.38E+01	4.71E+01
2754	490810.04	3859310.04	5.17849	1.92487	15.22025	4.85932	18.58	3.992	1.9613	1.92487	3.61E+01	3.56E+00	1.58E-03	1.71E-01	5.82E+00	3.75E-01	1.39E+01	1.31E+01	4.68E+01
2755	490860.04	3859310.04	5.1258	1.75732	13.61907	4.67084	18.96	3.695	1.902	1.75732	3.57E+01	3.25E+00	1.42E-03	1.64E-01	5.94E+00	3.47E-01	1.35E+01	1.19E+01	4.70E+01
2756	490360.04	3859360.04	5.85144	4.36487	26.62314	9.41969	12.5	8.092	3.7705	4.36487	4.08E+01	8.06E+00	2.77E-03	3.32E-01	3.92E+00	7.61E-01	2.67E+01	2.97E+01	5.09E+01
2757	490410.04	3859360.04	5.7599	4.04724	25.20507	8.79866	13.13	7.714	3.4475	4.04724	4.02E+01	7.47E+00	2.62E-03	3.10E-01	4.11E+00	7.25E-01	2.44E+01	2.75E+01	4.97E+01
2758	490460.04	3859360.04	5.66995	3.83118	23.88455	8.23435	13.67	7.375	3.3029	3.83118	3.95E+01	7.08E+00	2.49E-03	2.90E-01	4.28E+00	6.93E-01	2.34E+01	2.61E+01	4.92E+01
2759	490510.04	3859360.04	5.58561	3.61904	22.91412	7.75907	14.11	7.034	3.1587	3.61904	3.89E+01	6.68E+00	2.39E-03	2.73E-01	4.42E+00	6.61E-01	2.24E+01	2.46E+01	4.88E+01
2760	490560.04	3859360.04	5.52051	3.35796	21.8781	7.19588	14.49	6.581	2.9271	3.35796	3.85E+01	6.20E+00	2.28E-03	2.53E-01	4.54E+00	6.19E-01	2.07E+01	2.28E+01	4.80E+01
2761	490610.04	3859360.04	5.45632	3.11376	20.65764	6.6922	15.13	6.148	2.7054	3.11376	3.80E+01	5.75E+00	2.15E-03	2.36E-01	4.74E+00	5.78E-01	1.92E+01	2.12E+01	4.73E+01
2762	490660.04	3859360.04	5.38605	2.91437	19.43538	6.27035	15.76	5.793	2.5191	2.91437	3.75E+01	5.38E+00	2.02E-03	2.21E-01	4.94E+00	5.44E-01	1.78E+01	1.98E+01	4.67E+01
2763	490710.04	3859360.04	5.33984	2.6397	18.12481	5.8433	16.49	5.287	2.2852	2.6397	3.72E+01	4.88E+00	1.89E-03	2.06E-01	5.17E+00	4.97E-01	1.62E+01	1.79E+01	4.62E+01
2764	490760.04	3859360.04	5.30249	2.354	16.68828	5.45761	17.1	4.756	2.0963	2.354	3.70E+01	4.35E+00	1.74E-03	1.92E-01	5.36E+00	4.47E-01	1.49E+01	1.60E+01	4.62E+01
2765	490810.04	3859360.04	5.2118	2.28781	15.95415	5.29446	17.49	4.628	2.0546	2.28781	3.63E+01	4.23E+00	1.66E-03	1.86E-01	5.48E+00	4.35E-01	1.46E+01	1.56E+01	4.57E+01
2766	490860.04	3859360.04	5.15104	2.124	14.89889	5.04442	17.8	4.338	1.9953	2.124	3.59E+01	3.92E+00	1.55E-03	1.78E-01	5.58E+00	4.08E-01	1.41E+01	1.44E+01	4.57E+01
2767	490360.04	3859410.04	5.95357	4.79553	26.22671	10.42499	11.64	8.507	4.2034	4.79553	4.15E+01	8.86E+00	2.73E-03	3.67E-01	3.65E+00	8.00E-01	2.98E+01	3.26E+01	5.24E+01
2768	490410.04	3859410.04	5.84533	4.60619	24.86858	9.75464	11.85	8.034	4.0555	4.60619	4.08E+01	8.51E+00	2.59E-03	3.43E-01	3.71E+00	7.55E-01	2.87E+01	3.13E+01	5.15E+01
2769	490460.04	3859410.04	5.74671	4.27327	23.54278	9.1414	12.47	7.863	3.7193	4.27327	4.01E+01	7.89E+00	2.45E-03	3.22E-01	3.91E+00	7.39E-01	2.64E+01	2.91E+01	5.02E+01
2770	490510.04	3859410.04	5.65693	4.0293	22.44834	8.55754	13.02	7.514	3.5264	4.0293	3.94E+01	7.44E+00	2.34E-03	3.01E-01	4.08E+00	7.06E-01	2.50E+01	2.74E+01	4.96E+01
2771	490560.04	3859410.04	5.5725	3.80532	21.3548	8.00616	13.49	7.18	3.3672	3.80532	3.88E+01	7.03E+00	2.22E-03	2.82E-01	4.23E+00	6.75E-01	2.39E+01	2.59E+01	4.90E+01
2772	490610.04	3859410.04	5.49379	3.58683	20.2692	7.54248	13.87	6.844	3.1774	3.58683	3.83E+01	6.62E+00	2.11E-03	2.65E-01	4.35E+00	6.43E-01	2.25E+01	2.44E+01	4.83E+01
2773	490660.04	3859410.04	5.43861	3.27797	19.66686	6.91699	14.33	6.31	2.8186	3.27797	3.79E+01	6.05E+00	2.05E-03	2.43E-01	4.49E+00	5.93E-01	2.00E+01	2.23E+01	4.70E+01
2774	490710.04	3859410.04	5.37895	3.01154	19.15071	6.40798	14.99	5.861	2.5357	3.01154	3.75E+01	5.56E+00	1.99E-03	2.26E-01	4.70E+00	5.51E-01	1.80E+01	2.05E+01	4.60E+01
2775	490760.04	3859410.04	5.34135	2.69546	18.23247	5.90412	15.71	5.302	2.3129	2.69546	3.72E+01	4.98E+00	1.90E-03	2.08E-01	4.92E+00	4.98E-01	1.64E+01	1.83E+01	4.59E+01
2776	490810.04	3859410.04	5.26177	2.61543	17.32559	5.70792	16.31	5.18	2.2583	2.61543	3.67E+01	4.83E+00	1.80E-03	2.01E-01	5.11E+00	4.87E-01	1.60E+01	1.78E+01	4.55E+01
2777	490860.04	3859410.04	5.16622	2.56415	16.65581	5.54712	16.75	5.096	2.2137	2.56415	3.60E+01	4.74E+00	1.73E-03	1.95E-01	5.25E+00	4.79E-01	1.57E+01	1.74E+01	4.49E+01
2778	490360.04	3859460.04	6.13503	5.21554	23.31905	12.84345	10.97	9.6	4.6702	5.21554	4.28E+01	9.63E+00	2.43E-03	4.52E-01	3.44E+00	9.02E-01	3.31E+01	3.55E+01	5.48E+01
2779	490410.04	3859460.04	5.99875	5.0279	22.20709	11.31932	11.21	8.823	4.4309	5.0279	4.18E+01	9.29E+00	2.31E-03	3.98E-01	3.51E+00	8.29E-01	3.14E+01	3.42E+01	5.31E+01
2780	490460.04	3859460.04	5.87411	4.80065	21.30373	10.49289	11.37	8.378	4.2912	4.80065	4.10E+01	8.87E+00	2.22E-03	3.69E-01	3.56E+00	7.87E-01	3.04E+01	3.26E+01	5.23E+01
2781	490510.04	3859460.04	5.76459	4.48082	20.60213	9.73797	11.89	8.033	3.9792	4.48082	4.02E+01	8.28E+00	2.14E-03	3.43E-01	3.72E+00	7.55E-01	2.82E+01	3.05E+01	5.10E+01
2782	490560.04	3859460.04	5.66337	4.20084	19.87784	9.05329	12.43	7.655	3.7514	4.20084	3.95E+01	7.76E+00	2.07E-03	3.19E-01	3.89E+00	7.20E-01	2.66E+01	2.86E+01	5.02E+01
2783	490610.04	3859460.04	5.57826	3.9517	19.18111	8.37352	12.92	7.273	3.5373	3.9517	3.89E+01	7.30E+00	2.00E-03	2.95E-01	4.05E+00	6.84E-01	2.51E+01	2.69E+01	4.94E+01
2784	490660.04	3859460.04	5.50398	3.6975	18.73112	7.77001	13.33	6.875	3.2895	3.6975	3.84E+01	6.83E+00	1.95E-03	2.73E-01	4.18E+00	6.46E-01	2.33E+01	2.51E+01	4.85E+01
2785	490710.04	3859460.04	5.42106	3.47835	18.19986	7.25707	13.62	6.531	3.0136	3.47835	3.78E+01	6.42E+00	1.89E-03	2.55E-01	4.27E+00	6.14E-01	2.14E+01	2.37E+01	4.71E+01
2786	490760.04	3859460.04	5.35883	3.26132	17.48483	6.79445	14.21	6.19	2.7849	3.26132	3.74E+01	6.02E+00	1.82E-03	2.39E-01	4.45E+00	5.82E-01	1.97E+01	2.22E+01	4.62E+01
2787	490810.04	3859460.04	5.29504	3.0421	16.9217	6.34288	14.88	5.834	2.5656	3.0421	3.69E+01	5.62E+00	1.76E-03	2.23E-01	4.66E+00	5.48E-01	1.82E+01	2.07E+01	4.55E+01
2788	490860.04	3859460.04	5.20719	2.93725	16.30179	6.08762	15.5	5.683	2.4751	2.93725	3.63E+01	5.42E+00	1.70E-03	2.14E-01	4.86E+00	5.34E-01	1.75E+01	2.00E+01	4.49E+01
2789	490360.04	3859510.04	6.35637	6.28741	26.43178	16.96312	10.76	11.65	6.1649	6.28741	4.43E+01	1.16E+01	2.75E-03	5.97E-01	3.37E+00	1.09E+00	4.37E+01	4.28E+01	6.19E+01

2790	490410.04	3859510.04	6.16894	5.4878	24.30007	14.74593	10.64	10.59	5.2592	5.4878	4.30E+01	1.01E+01	2.53E-03	5.19E-01	3.33E+00	9.95E-01	3.73E+01	3.73E+01	5.79E+01
2791	490460.04	3859510.04	6.01627	5.29275	22.12133	12.94164	10.8	9.589	4.792	5.29275	4.19E+01	9.78E+00	2.30E-03	4.55E-01	3.38E+00	9.01E-01	3.40E+01	3.60E+01	5.44E+01
2792	490510.04	3859510.04	5.88294	5.05464	20.09712	11.62214	10.96	8.96	4.5494	5.05464	4.10E+01	9.34E+00	2.09E-03	4.09E-01	3.43E+00	8.42E-01	3.22E+01	3.44E+01	5.29E+01
2793	490560.04	3859510.04	5.76624	4.71834	18.88947	10.6376	11.32	8.39	4.3026	4.71834	4.02E+01	8.71E+00	1.97E-03	3.74E-01	3.55E+00	7.89E-01	3.05E+01	3.21E+01	5.20E+01
2794	490610.04	3859510.04	5.66619	4.35418	18.25601	9.75938	11.87	7.959	3.9895	4.35418	3.95E+01	8.04E+00	1.90E-03	3.43E-01	3.72E+00	7.48E-01	2.83E+01	2.96E+01	5.10E+01
2795	490660.04	3859510.04	5.57596	4.10498	17.72189	8.95754	12.36	7.501	3.7647	4.10498	3.89E+01	7.58E+00	1.84E-03	3.15E-01	3.87E+00	7.05E-01	2.67E+01	2.79E+01	5.01E+01
2796	490710.04	3859510.04	5.49522	3.86274	17.13895	8.22432	12.78	7.063	3.4863	3.86274	3.83E+01	7.13E+00	1.78E-03	2.89E-01	4.01E+00	6.64E-01	2.47E+01	2.63E+01	4.88E+01
2797	490760.04	3859510.04	5.41774	3.63993	16.50133	7.65858	13.11	6.692	3.2008	3.63993	3.78E+01	6.72E+00	1.72E-03	2.70E-01	4.11E+00	6.29E-01	2.27E+01	2.48E+01	4.74E+01
2798	490810.04	3859510.04	5.33583	3.46211	15.93661	7.20027	13.47	6.429	2.9819	3.46211	3.72E+01	6.39E+00	1.66E-03	2.53E-01	4.22E+00	6.04E-01	2.11E+01	2.35E+01	4.63E+01
2799	490860.04	3859510.04	5.26386	3.26943	15.34344	6.74445	14.09	6.132	2.7904	3.26943	3.67E+01	6.04E+00	1.60E-03	2.37E-01	4.41E+00	5.76E-01	1.98E+01	2.22E+01	4.55E+01
2800	490360.04	3859560.04	6.67385	7.80552	25.49597	27.19785	10.49	14.78	7.7665	7.80552	4.65E+01	1.44E+01	2.65E-03	9.57E-01	3.29E+00	1.39E+00	5.50E+01	5.31E+01	6.85E+01
2801	490410.04	3859560.04	6.41299	7.02161	24.97479	21.63147	10.47	12.96	6.9883	7.02161	4.47E+01	1.30E+01	2.60E-03	7.61E-01	3.28E+00	1.22E+00	4.95E+01	4.77E+01	6.47E+01
2802	490460.04	3859560.04	6.20589	6.088	23.93011	17.9235	10.34	11.57	6.0485	6.088	4.33E+01	1.12E+01	2.49E-03	6.31E-01	3.24E+00	1.09E+00	4.29E+01	4.14E+01	6.09E+01
2803	490510.04	3859560.04	6.0418	5.55093	22.62623	15.21189	10.42	10.38	5.2193	5.55093	4.21E+01	1.03E+01	2.36E-03	5.35E-01	3.26E+00	9.76E-01	3.70E+01	3.77E+01	5.64E+01
2804	490560.04	3859560.04	5.89474	5.36236	21.64167	13.25375	10.57	9.583	4.9659	5.36236	4.11E+01	9.90E+00	2.25E-03	4.66E-01	3.31E+00	9.01E-01	3.52E+01	3.65E+01	5.44E+01
2805	490610.04	3859560.04	5.7741	4.99251	20.60134	11.79446	10.79	8.863	4.5761	4.99251	4.03E+01	9.22E+00	2.14E-03	4.15E-01	3.38E+00	8.33E-01	3.24E+01	3.39E+01	5.26E+01
2806	490660.04	3859560.04	5.66682	4.58013	19.42194	10.72559	11.33	8.303	4.2869	4.58013	3.95E+01	8.46E+00	2.02E-03	3.77E-01	3.55E+00	7.80E-01	3.04E+01	3.11E+01	5.19E+01
2807	490710.04	3859560.04	5.57368	4.29208	18.2542	9.67459	11.83	7.761	4.0213	4.29208	3.89E+01	7.93E+00	1.90E-03	3.41E-01	3.71E+00	7.30E-01	2.85E+01	2.92E+01	5.09E+01
2808	490760.04	3859560.04	5.49692	4.00165	16.98785	8.70186	12.27	7.205	3.6649	4.00165	3.83E+01	7.39E+00	1.77E-03	3.06E-01	3.84E+00	6.77E-01	2.60E+01	2.72E+01	4.93E+01
2809	490810.04	3859560.04	5.41659	3.77286	15.67714	8.01302	12.61	6.807	3.3584	3.77286	3.78E+01	6.97E+00	1.63E-03	2.82E-01	3.95E+00	6.40E-01	2.38E+01	2.57E+01	4.77E+01
2810	490860.04	3859560.04	5.34354	3.54743	14.58459	7.41518	12.88	6.44	3.0982	3.54743	3.73E+01	6.55E+00	1.52E-03	2.61E-01	4.04E+00	6.05E-01	2.20E+01	2.41E+01	4.65E+01
2811	490187.25	3859422.08	6.5293	6.54829	33.12131	16.07235	11.3	11.03	6.3173	6.54829	4.55E+01	1.21E+01	3.45E-03	5.66E-01	3.54E+00	1.04E+00	4.48E+01	4.45E+01	6.30E+01
2812	490237.25	3859422.08	6.34027	5.8194	30.09954	14.11766	11.33	10.23	5.5953	5.8194	4.42E+01	1.07E+01	3.13E-03	4.97E-01	3.55E+00	9.62E-01	3.96E+01	3.96E+01	6.00E+01
2813	490287.25	3859422.08	6.18102	5.25099	27.69032	12.65426	11.24	9.547	4.8146	5.25099	4.31E+01	9.70E+00	2.88E-03	4.45E-01	3.52E+00	8.97E-01	3.41E+01	3.57E+01	5.61E+01
2814	490337.25	3859422.08	6.04836	4.95763	26.03434	11.25154	11.38	8.891	4.3329	4.95763	4.22E+01	9.16E+00	2.71E-03	3.96E-01	3.57E+00	8.36E-01	3.07E+01	3.37E+01	5.31E+01
2815	490187.25	3859472.08	6.99084	7.69567	30.29572	24.03277	10.79	14.24	7.5637	7.69567	4.87E+01	1.42E+01	3.15E-03	8.46E-01	3.38E+00	1.34E+00	5.36E+01	5.23E+01	6.98E+01
2816	490237.25	3859472.08	6.69886	7.0934	27.84782	19.28299	10.98	12.55	6.9476	7.0934	4.67E+01	1.31E+01	2.90E-03	6.79E-01	3.44E+00	1.18E+00	4.92E+01	4.82E+01	6.61E+01
2817	490287.25	3859472.08	6.46734	6.35815	25.66102	16.3398	11.04	11.3	6.2062	6.35815	4.51E+01	1.17E+01	2.67E-03	5.75E-01	3.46E+00	1.06E+00	4.40E+01	4.32E+01	6.27E+01
2818	490337.25	3859472.08	6.26895	5.54149	23.89107	14.3023	10.93	10.38	5.3778	5.54149	4.37E+01	1.02E+01	2.49E-03	5.03E-01	3.43E+00	9.76E-01	3.81E+01	3.77E+01	5.93E+01
2819	490297.07	3859500.42	6.60485	6.99987	28.24452	19.60799	10.86	12.77	6.885	6.99987	4.60E+01	1.29E+01	2.94E-03	6.90E-01	3.40E+00	1.20E+00	4.88E+01	4.76E+01	6.55E+01
2820	490327.07	3859500.42	6.45308	6.56756	26.93935	17.63861	10.84	11.95	6.4365	6.56756	4.50E+01	1.21E+01	2.80E-03	6.21E-01	3.40E+00	1.12E+00	4.56E+01	4.47E+01	6.32E+01
2821	490297.07	3859530.42	6.78781	7.79244	27.98915	26.90571	10.6	15.53	7.7251	7.79244	4.73E+01	1.44E+01	2.91E-03	9.47E-01	3.32E+00	1.46E+00	5.47E+01	5.30E+01	6.92E+01
2822	490327.07	3859530.42	6.61192	7.39693	27.30509	23.21511	10.66	14.07	7.3195	7.39693	4.61E+01	1.37E+01	2.84E-03	8.17E-01	3.34E+00	1.32E+00	5.19E+01	5.03E+01	6.68E+01
2823	490319.73	3859055.34	5.15095	3.02881	17.22395	7.05777	20.11	5.859	2.6952	3.02881	3.59E+01	5.59E+00	1.79E-03	2.48E-01	6.30E+00	5.51E-01	1.91E+01	2.06E+01	4.71E+01
2824	490319.73	3859105.34	5.31759	3.12809	20.34755	7.17558	18.64	6.182	2.7541	3.12809	3.71E+01	5.78E+00	2.12E-03	2.53E-01	5.84E+00	5.81E-01	1.95E+01	2.13E+01	4.78E+01
2825	490069.73	3859155.34	6.0095	4.17202	18.0096	9.68657	13.87	8.323	3.5052	4.17202	4.19E+01	7.71E+00	1.87E-03	3.41E-01	4.35E+00	7.82E-01	2.48E+01	2.84E+01	5.15E+01
2826	490119.73	3859155.34	5.88629	4.0084	17.11979	9.09683	14.59	7.915	3.3593	4.0084	4.10E+01	7.40E+00	1.78E-03	3.20E-01	4.57E+00	7.44E-01	2.38E+01	2.73E+01	5.06E+01
2827	490269.73	3859155.34	5.54829	3.52459	20.81043	7.73975	16.2	7.052	2.9649	3.52459	3.87E+01	6.51E+00	2.17E-03	2.72E-01	5.08E+00	6.63E-01	2.10E+01	2.40E+01	4.82E+01
2828	490319.73	3859155.34	5.46764	3.31095	18.71642	7.36327	17.11	6.623	2.8545	3.31095	3.81E+01	6.12E+00	1.95E-03	2.59E-01	5.36E+00	6.23E-01	2.02E+01	2.25E+01	4.82E+01
2829	490069.73	3859205.34	6.14029	4.47185	22.48843	10.4504	13.05	9.048	3.7146	4.47185	4.28E+01	8.26E+00	2.34E-03	3.68E-01	4.09E+00	8.50E-01	2.63E+01	3.04E+01	5.23E+01
2830	490119.73	3859205.34	6.00632	4.35911	25.43354	9.82335	13.25	8.673	3.6525	4.35911	4.19E+01	8.05E+00	2.65E-03	3.46E-01	4.15E+00	8.15E-01	2.59E+01	2.96E+01	5.15E+01
2831	490169.73	3859205.34	5.88942	4.20228	23.72048	9.20027	13.79	8.272	3.5307	4.20228	4.11E+01	7.76E+00	2.47E-03	3.24E-01	4.32E+00	7.78E-01	2.50E+01	2.86E+01	5.07E+01
2832	490219.73	3859205.34	5.79131	3.92625	22.31928	8.6551	14.53	7.818	3.2855	3.92625	4.04E+01	7.25E+00	2.32E-03	3.05E-01	4.55E+00	7.35E-01	2.33E+01	2.67E+01	4.98E+01
2833	490269.73	3859205.34	5.71097	3.68003	25.38808	8.13613	15.21	7.424	3.0405	3.68003	3.98E+01	6.80E+00	2.64E-03	2.86E-01	4.77E+00	6.98E-01	2.15E+01	2.50E+01	4.89E+01
2834	490319.73	3859205.34	5.61564	3.49174	27.4627	7.65459	15.69	7.04	2.9504	3.49174	3.92E+01	6.45E+00	2.86E-03	2.69E-01	4.91E+00	6.62E-01	2.09E+01	2.37E+01	4.86E+01
2835	490069.73	3859255.34	6.28508	4.78926	28.56933	11.665	12.42	9.652	4.1374	4.78926	4.38E+01	8.85E+00	2.97E-03	4.11E-01	3.89E+00	9.07E-01	2.93E+01	3.26E+01	5.46E+01
2836	490119.73	3859255.34	6.14535	4.59143	27.78151	10.79009	12.53	9.22	3.8706	4.59143	4.28E+01	8.48E+00	2.89E-03	3.80E-01	3.93E+00	8.67E-01	2.74E+01	3.12E+01	5.27E+01
2837	490169.73	3859255.34	6.02179	4.48103	30.56276	9.98945	12.79	8.797	3.7913	4.48103	4.20E+01	8.28E+00	3.18E-03	3.52E-01	4.01E+00	8.27E-01	2.69E+01	3.05E+01	5.18E+01
2838	490219.73	3859255.34	5.91927	4.28655	30.77663	9.40527	13.22	8.296	3.6318	4.28655	4.13E+01	7.92E+00	3.20E-03	3.31E-01	4.14E+00	7.80E-01	2.57E+01	2.91E+01	5.10E+01
2839	490269.73	3859255.34	5.82812	3.98906	27.9833	8.7986	13.96	7.958	3.3656	3.98906	4.06E+01	7.37E+00	2.91E-03	3.10E-01	4.38E+00	7.48E-01	2.38E+01	2.71E+01	5.02E+01
2840	490319.73	3859255.34	5.73375	3.7666	26.15085	8.26682	14.58	7.548	3.1497	3.7666	4.00E+01	6.96E+00	2.72E-03	2.91E-01	4.57E+00	7.10E-01	2.23E+01	2.56E+01	4.92E+01
2841	490069.73	3859305.34	6.43577	5.38997	38.83764	13.39566	12.13	10.27	5.0591	5.38997	4.49E+01	9.95E+00	4.04E-03	4.71E-01	3.80E+00	9.65E-01	3.58E+01	3.67E+01	5.93E+01
2842	490119.73	3859305.34	6.27464	4.9817	35.84488	12.17716	12.03	9.768	4.5375	4.9817	4.37E+01	9.20E+00	3.73E-03	4.29E-01	3.77E+00	9.18E-01	3.21E+01	3.39E+01	5.63E+01
2843	490169.73	3859305.34	6.13849	4.72301	31.24058	11.16542	12.07	9.295	4.0613	4.72301	4.28E+01	8.72E+00	3.25E-03	3.93E-01	3.78E+00	8.74E-01	2.88E+01	3.21E+01	5.32E+01
2844	490219.73	3859305.34	6.02411	4.59989	28.4179	10.18913	12.37	8.799	3.9435	4.59989	4.20E+01	8.50E+00	2.96E-03	3.59E-01	3.88E+00	8.27E-01	2.79E+01	3.13E+01	5.22E+01
2845	490269.73	3859305.34	5.92107	4.41804	28.43073	9.59158	12.61	8.303	3.7943	4.41804	4.13E+01	8.16E+00	2.96E-03	3.38E-01	3.95E+00	7.80E-01	2.69E+01	3.00E+01	5.14E+01
2846	490319.73	3859305.34	5.8349	4.10264	27.47447	8.99795	13.36	7.976	3.4857	4.10264	4.07E+01	7.58E+00	2.86E-03	3.17E-01	4.19E+00	7.50E-01	2.47E+01	2.79E+01	5.03E+01

2847	490069.73	3859355.34	6.59864	6.46663	39.57863	16.23519	11.63	11.09	6.158	6.46663	4.60E+01	1.19E+01	4.12E-03	5.71E-01	3.64E+00	1.04E+00	4.36E+01	4.40E+01	6.29E+01
2848	490119.73	3859355.34	6.40952	5.90029	35.20254	14.24729	11.73	10.39	5.6077	5.90029	4.47E+01	1.09E+01	3.66E-03	5.01E-01	3.67E+00	9.77E-01	3.97E+01	4.01E+01	6.04E+01
2849	490169.73	3859355.34	6.25447	5.26155	31.93745	12.80496	11.71	9.837	4.9868	5.26155	4.36E+01	9.72E+00	3.32E-03	4.51E-01	3.67E+00	9.25E-01	3.53E+01	3.58E+01	5.79E+01
2850	490219.73	3859355.34	6.12706	4.92175	30.3835	11.62813	11.68	9.303	4.296	4.92175	4.27E+01	9.09E+00	3.16E-03	4.09E-01	3.66E+00	8.74E-01	3.04E+01	3.35E+01	5.37E+01
2851	490269.73	3859355.34	6.01071	4.71843	28.92827	10.51023	11.94	8.807	4.1058	4.71843	4.19E+01	8.71E+00	3.01E-03	3.70E-01	3.74E+00	8.28E-01	2.91E+01	3.21E+01	5.26E+01
2852	490319.73	3859355.34	5.9128	4.56297	27.62236	9.82116	12.17	8.241	3.9627	4.56297	4.12E+01	8.43E+00	2.88E-03	3.46E-01	3.81E+00	7.75E-01	2.81E+01	3.10E+01	5.16E+01
2853	490069.73	3859405.34	6.98141	7.52585	42.25766	21.99219	11.49	12.66	7.2923	7.52585	4.87E+01	1.39E+01	4.40E-03	7.74E-01	3.60E+00	1.19E+00	5.17E+01	5.12E+01	6.86E+01
2854	490119.73	3859405.34	6.70597	6.984	38.239	17.9011	11.23	11.53	6.7375	6.984	4.68E+01	1.29E+01	3.98E-03	6.30E-01	3.52E+00	1.08E+00	4.77E+01	4.75E+01	6.51E+01
2855	490169.73	3859405.34	6.48805	6.38415	34.27798	15.45209	11.4	10.73	6.1285	6.38415	4.52E+01	1.18E+01	3.57E-03	5.44E-01	3.57E+00	1.01E+00	4.34E+01	4.34E+01	6.22E+01
2856	490219.73	3859405.34	6.30881	5.67985	31.50852	13.67177	11.42	10.02	5.4432	5.67985	4.40E+01	1.05E+01	3.28E-03	4.81E-01	3.58E+00	9.42E-01	3.86E+01	3.86E+01	5.94E+01
2857	490269.73	3859405.34	6.16241	5.16579	29.3376	12.28705	11.36	9.388	4.6549	5.16579	4.30E+01	9.54E+00	3.05E-03	4.32E-01	3.56E+00	8.82E-01	3.30E+01	3.51E+01	5.52E+01
2858	490319.73	3859405.34	6.03719	4.87178	27.43699	10.97334	11.53	8.817	4.2517	4.87178	4.21E+01	9.00E+00	2.86E-03	3.86E-01	3.61E+00	8.29E-01	3.01E+01	3.31E+01	5.29E+01
2859	490161.89	3859541.83	7.95287	10.27439	29.43068	32.24018	10.88	18.26	10.125	10.27439	5.54E+01	1.90E+01	3.06E-03	1.13E+00	3.41E+00	1.72E+00	7.17E+01	6.99E+01	8.26E+01
2860	490171.89	3859541.83	7.91543	10.06224	29.40112	34.59368	10.82	19.7	9.9581	10.06224	5.52E+01	1.86E+01	3.06E-03	1.22E+00	3.39E+00	1.85E+00	7.06E+01	6.84E+01	8.24E+01
2861	490161.89	3859551.83	7.96465	10.79939	29.60622	28.3549	10.87	16.42	10.565	10.79939	5.55E+01	1.99E+01	3.08E-03	9.98E-01	3.41E+00	1.54E+00	7.49E+01	7.34E+01	8.28E+01
2862	490171.89	3859551.83	7.93097	10.56654	28.90845	30.18396	10.82	17.34	10.385	10.56654	5.53E+01	1.95E+01	3.01E-03	1.06E+00	3.39E+00	1.63E+00	7.36E+01	7.19E+01	8.26E+01
2863	489799.72	3859348.21	8.15655	9.47849	38.96325	27.65757	13.89	16.55	9.0731	9.47849	5.69E+01	1.75E+01	4.06E-03	9.73E-01	4.35E+00	1.56E+00	6.43E+01	6.45E+01	8.11E+01
2864	489819.72	3859348.21	8.07324	9.08797	49.10263	31.379	13.64	22.14	8.7451	9.08797	5.63E+01	1.68E+01	5.11E-03	1.10E+00	4.27E+00	2.08E+00	6.20E+01	6.18E+01	8.07E+01
2865	489799.72	3859368.21	8.17151	10.51874	60.5711	23.59869	13.97	14.18	9.9376	10.51874	5.70E+01	1.94E+01	6.31E-03	8.31E-01	4.38E+00	1.33E+00	7.04E+01	7.15E+01	8.18E+01
2866	489819.72	3859368.21	8.0994	9.89577	69.81162	26.16044	13.71	15.72	9.4815	9.89577	5.65E+01	1.83E+01	7.27E-03	9.21E-01	4.29E+00	1.48E+00	6.72E+01	6.73E+01	8.13E+01
2867	489775.41	3859329.72	8.17786	9.25018	52.11215	27.90177	14.13	16.88	8.8508	9.25018	5.70E+01	1.71E+01	5.43E-03	9.82E-01	4.43E+00	1.59E+00	6.27E+01	6.29E+01	8.09E+01
2868	489795.41	3859329.72	8.14453	8.88305	35.55972	32.44871	13.88	24.17	8.5356	8.88305	5.68E+01	1.64E+01	3.70E-03	1.14E+00	4.35E+00	2.27E+00	6.05E+01	6.04E+01	8.10E+01
2869	489775.41	3859349.72	8.20829	10.20951	55.94753	24.09203	14.32	14.09	9.6326	10.20951	5.72E+01	1.89E+01	5.82E-03	8.48E-01	4.49E+00	1.32E+00	6.83E+01	6.94E+01	8.16E+01
2870	489795.41	3859349.72	8.17067	9.63464	41.60307	26.69006	13.95	15.75	9.2084	9.63464	5.70E+01	1.78E+01	4.33E-03	9.39E-01	4.37E+00	1.48E+00	6.52E+01	6.55E+01	8.13E+01
2871	489595.05	3859219.43	8.19931	8.68784	16.70254	25.58363	17.44	13.94	8.3018	8.68784	5.72E+01	1.60E+01	1.74E-03	9.00E-01	5.46E+00	1.31E+00	5.88E+01	5.91E+01	8.06E+01
2872	489615.05	3859219.43	8.16826	8.38384	16.07346	28.26367	16.82	17.44	7.9864	8.38384	5.69E+01	1.55E+01	1.67E-03	9.95E-01	5.27E+00	1.64E+00	5.66E+01	5.70E+01	7.99E+01
2873	489595.05	3859239.43	8.21016	9.58766	18.36922	22.55172	17.77	12.26	9.0065	9.58766	5.72E+01	1.77E+01	1.91E-03	7.94E-01	5.57E+00	1.15E+00	6.38E+01	6.52E+01	8.11E+01
2874	489615.05	3859239.43	8.1708	9.06365	19.25131	24.49097	17.19	13.36	8.6008	9.06365	5.70E+01	1.67E+01	2.00E-03	8.62E-01	5.39E+00	1.26E+00	6.09E+01	6.16E+01	8.05E+01
2875	489372.4	3859092.58	7.8302	8.51897	18.07613	23.75377	22.87	11.75	7.9908	8.51897	5.46E+01	1.57E+01	1.88E-03	8.36E-01	7.17E+00	1.10E+00	5.66E+01	5.79E+01	7.81E+01
2876	489422.4	3859092.58	7.86384	7.75768	15.34585	31.2763	20.74	17.1	7.26	7.75768	5.48E+01	1.43E+01	1.60E-03	1.10E+00	6.50E+00	1.61E+00	5.14E+01	5.28E+01	7.70E+01
2877	489372.4	3859142.58	8.02278	11.06328	18.24548	18.11131	23.72	9.494	10.327	11.06328	5.59E+01	2.04E+01	1.90E-03	6.37E-01	7.43E+00	8.92E-01	7.32E+01	7.52E+01	8.33E+01
2878	489422.4	3859142.58	7.88769	9.46568	19.4213	21.00927	21.81	10.81	8.8722	9.46568	5.50E+01	1.75E+01	2.02E-03	7.39E-01	6.83E+00	1.02E+00	6.29E+01	6.44E+01	7.96E+01
2879	488870.84	3858666.64	9.26476	5.68095	12.62164	29.32955	37.09	13.7	6.2766	5.68095	6.46E+01	1.05E+01	1.31E-03	1.03E+00	1.16E+01	1.29E+00	4.45E+01	3.86E+01	9.49E+01
2880	488900.84	3858666.64	9.18695	5.52141	12.46426	35.27614	35.18	18.07	5.9502	5.52141	6.40E+01	1.02E+01	1.30E-03	1.24E+00	1.10E+01	1.70E+00	4.22E+01	3.75E+01	9.28E+01
2881	488870.84	3858696.64	9.27998	6.02461	13.0117	26.01524	37.22	11.56	6.7167	6.02461	6.47E+01	1.11E+01	1.35E-03	9.16E-01	1.17E+01	1.09E+00	4.76E+01	4.10E+01	9.61E+01
2882	488900.84	3858696.64	9.15506	5.82769	13.02704	29.13988	36.36	13.5	6.3452	5.82769	6.38E+01	1.08E+01	1.36E-03	1.03E+00	1.14E+01	1.27E+00	4.50E+01	3.96E+01	9.36E+01
2883	488889.67	3858683.97	9.21565	5.75433	12.81476	29.49475	36.6	13.73	6.2987	5.75433	6.42E+01	1.06E+01	1.33E-03	1.04E+00	1.15E+01	1.29E+00	4.46E+01	3.91E+01	9.42E+01
2884	488919.67	3858683.97	9.08675	5.587	12.58645	35.29779	34.67	18.02	5.9709	5.587	6.34E+01	1.03E+01	1.31E-03	1.24E+00	1.09E+01	1.69E+00	4.23E+01	3.80E+01	9.18E+01
2885	488889.67	3858713.97	9.18486	6.11529	13.17763	25.88015	36.75	11.59	6.7435	6.11529	6.40E+01	1.13E+01	1.37E-03	9.11E-01	1.15E+01	1.09E+00	4.78E+01	4.16E+01	9.50E+01
2886	488919.67	3858713.97	9.03585	5.9091	13.26993	29.28238	35.87	13.53	6.3679	5.9091	6.30E+01	1.09E+01	1.38E-03	1.03E+00	1.12E+01	1.27E+00	4.51E+01	4.02E+01	9.24E+01
2887	488906.61	3858703.33	9.11812	5.86943	13.12715	28.94649	36.24	13.37	6.3712	5.86943	6.36E+01	1.08E+01	1.37E-03	1.02E+00	1.14E+01	1.26E+00	4.51E+01	3.99E+01	9.33E+01
2888	488936.61	3858703.33	8.97004	5.68727	12.85716	34.55189	34.44	17.11	6.0381	5.68727	6.25E+01	1.05E+01	1.34E-03	1.22E+00	1.08E+01	1.61E+00	4.28E+01	3.87E+01	9.08E+01
2889	488906.61	3858733.33	9.07219	6.24359	13.29149	25.47234	36.34	11.47	6.8323	6.24359	6.32E+01	1.15E+01	1.38E-03	8.97E-01	1.14E+01	1.08E+00	4.84E+01	4.25E+01	9.41E+01
2890	488936.61	3858733.33	8.91678	6.02761	13.50767	28.93103	35.53	13.23	6.4466	6.02761	6.22E+01	1.11E+01	1.41E-03	1.02E+00	1.11E+01	1.24E+00	4.57E+01	4.10E+01	9.14E+01
2891	488637.63	3858467.85	9.37677	4.9905	12.64466	25.10348	43.21	12.15	6.1815	4.9905	6.54E+01	9.22E+00	1.32E-03	8.84E-01	1.35E+01	1.14E+00	4.38E+01	3.39E+01	1.00E+02
2892	488662.63	3858467.85	9.35306	4.86275	12.46805	28.01761	42.48	14.18	5.9005	4.86275	6.52E+01	8.98E+00	1.30E-03	9.86E-01	1.33E+01	1.33E+00	4.18E+01	3.31E+01	9.86E+01
2893	488637.63	3858492.85	9.31301	5.2114	12.63369	23.27586	43.2	10.97	6.5572	5.2114	6.49E+01	9.63E+00	1.32E-03	8.19E-01	1.35E+01	1.03E+00	4.65E+01	3.54E+01	1.01E+02
2894	488662.63	3858492.85	9.2709	5.08807	12.6869	25.21695	42.58	12.04	6.2463	5.08807	6.46E+01	9.40E+00	1.32E-03	8.88E-01	1.33E+01	1.13E+00	4.43E+01	3.46E+01	9.91E+01
2895	488687.63	3858492.85	9.22287	4.97463	12.61555	27.93504	41.89	13.99	5.9631	4.97463	6.43E+01	9.19E+00	1.31E-03	9.83E-01	1.31E+01	1.31E+00	4.23E+01	3.38E+01	9.73E+01
2896	488637.63	3858517.85	9.26512	5.43666	12.56178	21.65351	42.74	10.04	6.9767	5.43666	6.46E+01	1.00E+01	1.31E-03	7.62E-01	1.34E+01	9.44E-01	4.94E+01	3.70E+01	1.02E+02
2897	488662.63	3858517.85	9.22136	5.31288	12.52541	23.25751	42.31	10.89	6.6248	5.31288	6.43E+01	9.81E+00	1.30E-03	8.19E-01	1.33E+01	1.02E+00	4.69E+01	3.61E+01	1.00E+02
2898	488687.63	3858517.85	9.15967	5.1867	12.55883	25.14855	41.97	11.94	6.3103	5.1867	6.39E+01	9.58E+00	1.31E-03	8.85E-01	1.31E+01	1.12E+00	4.47E+01	3.53E+01	9.80E+01
2899	488194.42	3857168.98	5.03965	1.51088	10.3965	5.49775	101.7	4.668	2.6258	1.51088	3.51E+01	2.79E+00	1.08E-03	1.93E-01	3.19E+01	4.39E-01	1.86E+01	1.03E+01	7.87E+01
2900	488244.42	3857168.98	5.08161	1.50775	8.31419	5.31567	97.1	5.14	2.5476	1.50775	3.54E+01	2.78E+00	8.66E-04	1.87E-01	3.04E+01	4.83E-01	1.81E+01	1.03E+01	7.71E+01
2901	488294.42	3857168.98	5.06066	1.49454	6.7253	5.15839	91.87	5.304	2.4783	1.49454	3.53E+01	2.76E+00	7.00E-04	1.82E-01	2.88E+01	4.99E-01	1.76E+01	1.02E+01	7.49E+01
2902	488244.42	3857218.98	4.9809	1.54728	7.01051	5.51471	102	5.416	2.6231	1.54728	3.47E+01	2.86E+00	7.30E-04	1.94E-01	3.20E+01	5.09E-01	1.86E+01	1.05E+01	7.83E+01
2903	488294.42	3857218.98	5.03705	1.53738	7.19244	5.34057	97.2	5.327	2.5445	1.53738	3.51E+01	2.84E+00	7.49E-04	1.88E-01	3.05E+01	5.01E-01	1.80E+01	1.05E+01	7.67E+01

2904	488294.42	3857268.98	4.99304	1.58402	8.22152	5.55181	100.7	5.203	2.614	1.58402	3.48E+01	2.93E+00	8.56E-04	1.95E-01	3.15E+01	4.89E-01	1.85E+01	1.08E+01	7.77E+01
2905	488139.13	3857111.68	5.14733	1.4752	9.47994	5.48148	98.99	3.893	2.6251	1.4752	3.59E+01	2.72E+00	9.87E-04	1.93E-01	3.10E+01	3.66E-01	1.86E+01	1.00E+01	7.88E+01
2906	488189.13	3857111.68	5.1136	1.47632	10.82869	5.30865	93.9	4.313	2.5447	1.47632	3.57E+01	2.73E+00	1.13E-03	1.87E-01	2.94E+01	4.05E-01	1.80E+01	1.00E+01	7.64E+01
2907	488189.13	3857161.68	5.0579	1.50673	10.72179	5.48981	101.3	4.569	2.6227	1.50673	3.53E+01	2.78E+00	1.12E-03	1.93E-01	3.17E+01	4.30E-01	1.86E+01	1.02E+01	7.87E+01
2908	487951.04	3856961.26	5.42307	1.43103	5.96814	5.68141	96.45	3.694	2.6869	1.43103	3.78E+01	2.64E+00	6.21E-04	2.00E-01	3.02E+01	3.47E-01	1.90E+01	9.73E+00	8.05E+01
2909	488001.04	3856961.26	5.34919	1.4331	5.85109	5.48506	93.93	3.57	2.6064	1.4331	3.73E+01	2.65E+00	6.09E-04	1.93E-01	2.94E+01	3.36E-01	1.85E+01	9.74E+00	7.86E+01
2910	488051.04	3856961.26	5.27651	1.4253	5.40297	5.26215	91.32	3.37	2.5342	1.4253	3.68E+01	2.63E+00	5.62E-04	1.85E-01	2.86E+01	3.17E-01	1.80E+01	9.69E+00	7.68E+01
2911	488101.04	3856961.26	5.16158	1.4372	5.28305	5.05076	86.4	3.355	2.4544	1.4372	3.60E+01	2.65E+00	5.50E-04	1.78E-01	2.71E+01	3.15E-01	1.74E+01	9.77E+00	7.38E+01
2912	487951.04	3857011.26	5.30242	1.45295	6.12313	5.81287	98.08	3.886	2.7681	1.45295	3.70E+01	2.68E+00	6.37E-04	2.05E-01	3.07E+01	3.65E-01	1.96E+01	9.88E+00	8.07E+01
2913	488001.04	3857011.26	5.23478	1.443	5.77512	5.62346	98.26	3.732	2.6845	1.443	3.65E+01	2.67E+00	6.01E-04	1.98E-01	3.08E+01	3.51E-01	1.90E+01	9.81E+00	7.97E+01
2914	488051.04	3857011.26	5.20831	1.43611	5.2437	5.43791	95.79	3.526	2.6088	1.43611	3.63E+01	2.65E+00	5.46E-04	1.91E-01	3.00E+01	3.31E-01	1.85E+01	9.77E+00	7.82E+01
2915	488101.04	3857011.26	5.18688	1.44802	5.214	5.26946	90.75	3.499	2.5284	1.44802	3.62E+01	2.67E+00	5.43E-04	1.85E-01	2.84E+01	3.29E-01	1.79E+01	9.85E+00	7.59E+01
2916	488001.04	3857061.26	5.23894	1.46553	5.56201	5.79681	100.9	3.9	2.7706	1.46553	3.65E+01	2.71E+00	5.79E-04	2.04E-01	3.16E+01	3.67E-01	1.96E+01	9.97E+00	8.11E+01
2917	488051.04	3857061.26	5.19638	1.45879	5.02945	5.62096	98.18	3.722	2.6848	1.45879	3.62E+01	2.69E+00	5.24E-04	1.98E-01	3.08E+01	3.50E-01	1.90E+01	9.92E+00	7.93E+01
2918	488101.04	3857061.26	5.16248	1.46118	5.73086	5.44662	95.32	3.663	2.6036	1.46118	3.60E+01	2.70E+00	5.97E-04	1.92E-01	2.99E+01	3.44E-01	1.84E+01	9.94E+00	7.76E+01
2919	487638.98	3856673.79	5.47059	1.37913	6.18827	5.38398	68.32	3.492	2.7821	1.37913	3.81E+01	2.55E+00	6.44E-04	1.89E-01	2.14E+01	3.28E-01	1.97E+01	9.38E+00	7.29E+01
2920	487688.98	3856673.79	5.36771	1.39648	6.02981	5.1532	69.96	3.36	2.6903	1.39648	3.74E+01	2.58E+00	6.28E-04	1.81E-01	2.19E+01	3.16E-01	1.91E+01	9.50E+00	7.20E+01
2921	487638.98	3856723.79	5.55986	1.36255	6.17644	5.64838	74.25	3.654	2.8689	1.36255	3.88E+01	2.52E+00	6.43E-04	1.99E-01	2.33E+01	3.43E-01	2.03E+01	9.27E+00	7.61E+01
2922	487688.98	3856723.79	5.45541	1.37805	6.1145	5.41867	74.67	3.51	2.7742	1.37805	3.80E+01	2.55E+00	6.37E-04	1.91E-01	2.34E+01	3.30E-01	1.97E+01	9.37E+00	7.48E+01
2923	486324.61	3855740.57	6.42155	1.50026	7.22418	6.40697	22.38	3.539	3.2122	1.50026	4.48E+01	2.77E+00	7.52E-04	2.26E-01	7.01E+00	3.33E-01	2.28E+01	1.02E+01	6.77E+01
2924	486374.61	3855740.57	6.4609	1.53236	6.50839	5.76006	21.52	3.267	2.9977	1.53236	4.50E+01	2.83E+00	6.78E-04	2.03E-01	6.74E+00	3.07E-01	2.12E+01	1.04E+01	6.59E+01
2925	486424.61	3855740.57	6.40327	1.58002	6.12275	5.44501	20.6	3.158	2.8791	1.58002	4.46E+01	2.92E+00	6.37E-04	1.92E-01	6.46E+00	2.97E-01	2.04E+01	1.07E+01	6.42E+01
2926	486324.61	3855790.57	6.53578	1.44868	6.56521	7.18045	22.85	3.812	3.4779	1.44868	4.56E+01	2.68E+00	6.83E-04	2.53E-01	7.16E+00	3.58E-01	2.46E+01	9.85E+00	7.08E+01
2927	486374.61	3855790.57	6.54936	1.47526	5.90485	6.42261	22.64	3.428	3.2041	1.47526	4.57E+01	2.72E+00	6.15E-04	2.26E-01	7.09E+00	3.22E-01	2.27E+01	1.00E+01	6.87E+01
2928	486424.61	3855790.57	6.44662	1.49922	5.64663	5.87268	22.34	3.25	3.02	1.49922	4.49E+01	2.77E+00	5.88E-04	2.07E-01	7.00E+00	3.05E-01	2.14E+01	1.02E+01	6.64E+01
2929	486324.61	3855840.57	6.67195	1.39757	6.45111	7.94082	22.76	4.155	3.7621	1.39757	4.65E+01	2.58E+00	6.72E-04	2.79E-01	7.13E+00	3.91E-01	2.67E+01	9.50E+00	7.40E+01
2930	486374.61	3855840.57	6.55711	1.42217	6.31808	7.30225	23.75	3.858	3.5138	1.42217	4.57E+01	2.63E+00	6.58E-04	2.57E-01	7.44E+00	3.63E-01	2.49E+01	9.67E+00	7.16E+01
2931	486424.61	3855840.57	6.48737	1.44748	6.0514	6.66801	23.81	3.545	3.2987	1.44748	4.52E+01	2.67E+00	6.30E-04	2.35E-01	7.46E+00	3.33E-01	2.34E+01	9.84E+00	6.95E+01
2932	486324.61	3855890.57	6.73611	1.37783	6.96083	8.92232	22.5	4.578	4.0852	1.37783	4.70E+01	2.54E+00	7.25E-04	3.14E-01	7.05E+00	4.30E-01	2.89E+01	9.37E+00	7.69E+01
2933	486374.61	3855890.57	6.62433	1.37438	6.81314	8.15367	24.17	4.26	3.824	1.37438	4.62E+01	2.54E+00	7.09E-04	2.87E-01	7.57E+00	4.00E-01	2.71E+01	9.35E+00	7.47E+01
2934	486424.61	3855890.57	6.54175	1.39622	6.59696	7.46463	24.9	3.938	3.5633	1.39622	4.56E+01	2.58E+00	6.87E-04	2.63E-01	7.80E+00	3.70E-01	2.52E+01	9.49E+00	7.24E+01
2935	488735.69	3858285.64	8.28579	3.26481	12.9139	13.76056	38.64	10.55	3.8799	3.26481	5.78E+01	6.03E+00	1.34E-03	4.84E-01	1.21E+01	9.91E-01	2.75E+01	2.22E+01	8.27E+01
2936	488765.69	3858285.64	8.13842	3.20279	12.55434	13.02369	35.83	10.19	3.7659	3.20279	5.67E+01	5.92E+00	1.31E-03	4.58E-01	1.12E+01	9.58E-01	2.67E+01	2.18E+01	8.02E+01
2937	488735.69	3858315.64	8.52208	3.38325	13.54987	15.11746	40.03	11.06	4.0165	3.38325	5.94E+01	6.25E+00	1.41E-03	5.32E-01	1.25E+01	1.04E+00	2.85E+01	2.30E+01	8.52E+01
2938	488765.69	3858315.64	8.31345	3.31116	13.21781	14.02705	37.08	10.54	3.8909	3.31116	5.80E+01	6.12E+00	1.38E-03	4.94E-01	1.16E+01	9.90E-01	2.76E+01	2.25E+01	8.22E+01
2939	478676.63	3849871.93	2.51966	4.43307	0.72194	1.28401	2.009	1.598	4.4639	4.43307	1.76E+01	8.19E+00	7.52E-05	4.52E-02	6.29E-01	1.50E-01	3.16E+01	3.01E+01	2.81E+01
2940	479326.63	3849871.93	2.62458	2.93171	0.51167	0.88705	2.129	1.209	2.724	2.93171	1.83E+01	5.41E+00	5.33E-05	3.12E-02	6.67E-01	1.14E-01	1.93E+01	1.99E+01	2.39E+01
2941	479376.63	3849871.93	2.64753	2.85323	0.51127	0.86842	2.1	1.164	2.7022	2.85323	1.85E+01	5.27E+00	5.32E-05	3.06E-02	6.58E-01	1.09E-01	1.91E+01	1.94E+01	2.43E+01
2942	479426.63	3849871.93	2.66913	2.80107	0.50897	0.85999	2.062	1.138	2.6945	2.80107	1.86E+01	5.17E+00	5.30E-05	3.03E-02	6.46E-01	1.07E-01	1.91E+01	1.90E+01	2.46E+01
2943	478726.63	3849921.93	2.56409	4.731	0.72955	1.29535	2.006	1.627	4.7628	4.731	1.79E+01	8.74E+00	7.60E-05	4.56E-02	6.28E-01	1.53E-01	3.37E+01	3.22E+01	2.90E+01
2944	478776.63	3849921.93	2.586	4.51134	0.70472	1.27452	2.06	1.689	4.542	4.51134	1.80E+01	8.33E+00	7.34E-05	4.49E-02	6.46E-01	1.59E-01	3.22E+01	3.07E+01	2.87E+01
2945	478826.63	3849921.93	2.59011	4.32647	0.67966	1.26808	2.11	1.728	4.3305	4.32647	1.81E+01	7.99E+00	7.08E-05	4.46E-02	6.61E-01	1.62E-01	3.07E+01	2.94E+01	2.82E+01
2946	478976.63	3849921.93	2.55889	3.93588	0.60603	1.22493	2.215	1.718	3.7663	3.93588	1.78E+01	7.27E+00	6.31E-05	4.31E-02	6.94E-01	1.62E-01	2.67E+01	2.68E+01	2.59E+01
2947	479026.63	3849921.93	2.53188	3.82438	0.58416	1.19299	2.222	1.691	3.606	3.82438	1.77E+01	7.06E+00	6.08E-05	4.20E-02	6.96E-01	1.59E-01	2.55E+01	2.60E+01	2.52E+01
2948	479076.63	3849921.93	2.53154	3.69892	0.56087	1.16117	2.225	1.642	3.4461	3.69892	1.76E+01	6.83E+00	5.84E-05	4.09E-02	6.97E-01	1.54E-01	2.44E+01	2.52E+01	2.46E+01
2949	479126.63	3849921.93	2.54216	3.5605	0.54734	1.12526	2.22	1.58	3.2917	3.5605	1.77E+01	6.58E+00	5.70E-05	3.96E-02	6.96E-01	1.49E-01	2.33E+01	2.42E+01	2.43E+01
2950	479176.63	3849921.93	2.54817	3.47969	0.53877	1.08484	2.199	1.523	3.1641	3.47969	1.78E+01	6.43E+00	5.61E-05	3.82E-02	6.89E-01	1.43E-01	2.24E+01	2.37E+01	2.38E+01
2951	479226.63	3849921.93	2.57308	3.34899	0.52693	1.04188	2.175	1.433	3.0363	3.34899	1.79E+01	6.19E+00	5.49E-05	3.67E-02	6.82E-01	1.35E-01	2.15E+01	2.28E+01	2.37E+01
2952	479276.63	3849921.93	2.61372	3.16656	0.5136	0.99232	2.174	1.325	2.9074	3.16656	1.82E+01	5.85E+00	5.35E-05	3.49E-02	6.81E-01	1.25E-01	2.06E+01	2.15E+01	2.40E+01
2953	479326.63	3849921.93	2.60646	3.20899	0.51787	0.95145	2.158	1.327	2.919	3.20899	1.82E+01	5.93E+00	5.39E-05	3.35E-02	6.76E-01	1.25E-01	2.07E+01	2.18E+01	2.38E+01
2954	479376.63	3849921.93	2.64981	3.00854	0.51764	0.90498	2.149	1.231	2.7976	3.00854	1.85E+01	5.56E+00	5.39E-05	3.19E-02	6.73E-01	1.16E-01	1.98E+01	2.05E+01	2.42E+01
2955	479426.63	3849921.93	2.6621	3.02187	0.51802	0.89659	2.119	1.224	2.8184	3.02187	1.86E+01	5.58E+00	5.39E-05	3.16E-02	6.64E-01	1.15E-01	2.00E+01	2.05E+01	2.44E+01
2956	478726.63	3849971.93	2.57636	5.22481	0.76273	1.33132	1.942	1.581	5.2541	5.22481	1.80E+01	9.65E+00	7.94E-05	4.69E-02	6.08E-01	1.49E-01	3.72E+01	3.55E+01	3.01E+01
2957	478776.63	3849971.93	2.61459	4.99241	0.73676	1.30838	2.003	1.657	5.0218	4.99241	1.82E+01	9.22E+00	7.67E-05	4.60E-02	6.28E-01	1.56E-01	3.56E+01	3.39E+01	2.99E+01
2958	478826.63	3849971.93	2.63237	4.76902	0.71108	1.2863	2.06	1.716	4.799	4.76902	1.84E+01	8.81E+00	7.40E-05	4.53E-02	6.45E-01	1.61E-01	3.40E+01	3.24E+01	2.96E+01
2959	478976.63	3849971.93	2.59158	4.27436	0.63887	1.2508	2.183	1.777	4.198	4.27436	1.81E+01	7.89E+00	6.65E-05	4.40E-02	6.84E-01	1.67E-01	2.97E+01	2.91E+01	2.75E+01
2960	479026.63	3849971.93	2.57747	4.14593	0.61394	1.23121	2.211	1.752	4.0278	4.14593	1.80E+01	7.66E+00	6.39E-05	4.33E-02	6.93E-01	1.65E-01	2.85E+01	2.82E+01	2.69E+01

2961	479076.63	3849971.93	2.5596	4.01797	0.58944	1.20454	2.23	1.71	3.8567	4.01797	1.78E+01	7.42E+00	6.14E-05	4.24E-02	6.99E-01	1.61E-01	2.73E+01	2.73E+01	2.62E+01
2962	479126.63	3849971.93	2.5572	3.8914	0.56592	1.17311	2.236	1.66	3.6916	3.8914	1.78E+01	7.19E+00	5.89E-05	4.13E-02	7.01E-01	1.56E-01	2.62E+01	2.65E+01	2.56E+01
2963	479176.63	3849971.93	2.56087	3.75685	0.55598	1.13627	2.229	1.598	3.5373	3.75685	1.79E+01	6.94E+00	5.79E-05	4.00E-02	6.98E-01	1.50E-01	2.51E+01	2.55E+01	2.52E+01
2964	479226.63	3849971.93	2.61475	3.52198	0.53923	1.09951	2.236	1.47	3.3422	3.52198	1.82E+01	6.50E+00	5.61E-05	3.87E-02	7.01E-01	1.38E-01	2.37E+01	2.39E+01	2.53E+01
2965	479276.63	3849971.93	2.59769	3.46037	0.5346	1.05621	2.194	1.454	3.2314	3.46037	1.81E+01	6.39E+00	5.57E-05	3.72E-02	6.88E-01	1.37E-01	2.29E+01	2.35E+01	2.47E+01
2966	479326.63	3849971.93	2.59194	3.41185	0.5295	1.01194	2.163	1.424	3.131	3.41185	1.81E+01	6.30E+00	5.51E-05	3.56E-02	6.78E-01	1.34E-01	2.22E+01	2.32E+01	2.42E+01
2967	479376.63	3849971.93	2.6404	3.24282	0.52339	0.96313	2.179	1.323	3.0186	3.24282	1.84E+01	5.99E+00	5.45E-05	3.39E-02	6.83E-01	1.24E-01	2.14E+01	2.21E+01	2.46E+01
2968	479426.63	3849971.93	2.6584	3.18966	0.52479	0.93279	2.163	1.289	2.9893	3.18966	1.85E+01	5.89E+00	5.46E-05	3.28E-02	6.78E-01	1.21E-01	2.12E+01	2.17E+01	2.47E+01
2969	478726.63	3850021.93	2.57956	5.70969	0.79745	1.35416	1.872	1.532	5.7337	5.70969	1.80E+01	1.05E+01	8.30E-05	4.77E-02	5.86E-01	1.44E-01	4.06E+01	3.88E+01	3.11E+01
2970	478776.63	3850021.93	2.64234	5.4599	0.77012	1.34312	1.938	1.61	5.4855	5.4599	1.84E+01	1.01E+01	8.02E-05	4.73E-02	6.07E-01	1.51E-01	3.89E+01	3.71E+01	3.11E+01
2971	478826.63	3850021.93	2.67798	5.22474	0.74397	1.32166	2	1.686	5.2504	5.22474	1.87E+01	9.65E+00	7.75E-05	4.65E-02	6.27E-01	1.59E-01	3.72E+01	3.55E+01	3.08E+01
2972	478976.63	3850021.93	2.64302	4.58759	0.66963	1.27763	2.148	1.805	4.6148	4.58759	1.84E+01	8.47E+00	6.97E-05	4.50E-02	6.73E-01	1.70E-01	3.27E+01	3.12E+01	2.93E+01
2973	478726.63	3850071.93	2.56528	6.19975	0.83442	1.36223	1.797	1.472	6.2188	6.19975	1.79E+01	1.15E+01	8.69E-05	4.79E-02	5.63E-01	1.38E-01	4.41E+01	4.22E+01	3.20E+01
2974	478776.63	3850071.93	2.64343	5.9255	0.80601	1.36272	1.867	1.562	5.9461	5.9255	1.84E+01	1.09E+01	8.39E-05	4.80E-02	5.85E-01	1.47E-01	4.21E+01	4.03E+01	3.20E+01
2975	478826.63	3850071.93	2.71077	5.6708	0.77844	1.35309	1.933	1.642	5.6931	5.6708	1.89E+01	1.05E+01	8.10E-05	4.76E-02	6.06E-01	1.54E-01	4.03E+01	3.86E+01	3.20E+01
2976	478876.63	3850071.93	2.74133	5.43317	0.75202	1.33299	1.996	1.718	5.4564	5.43317	1.91E+01	1.00E+01	7.83E-05	4.69E-02	6.25E-01	1.61E-01	3.87E+01	3.69E+01	3.17E+01
2977	478976.63	3850071.93	2.70716	4.99564	0.70167	1.29822	2.102	1.817	5.0248	4.99564	1.89E+01	9.23E+00	7.30E-05	4.57E-02	6.59E-01	1.71E-01	3.56E+01	3.40E+01	3.06E+01
2978	478726.63	3850121.93	2.54517	6.77689	0.8738	1.35521	1.72	1.401	6.7736	6.77689	1.77E+01	1.25E+01	9.10E-05	4.77E-02	5.39E-01	1.32E-01	4.80E+01	4.61E+01	3.29E+01
2979	478776.63	3850121.93	2.62404	6.42	0.84404	1.36722	1.791	1.501	6.4327	6.42	1.83E+01	1.19E+01	8.79E-05	4.81E-02	5.61E-01	1.41E-01	4.56E+01	4.37E+01	3.28E+01
2980	478826.63	3850121.93	2.71567	6.13259	0.81486	1.37033	1.861	1.593	6.1477	6.13259	1.89E+01	1.13E+01	8.48E-05	4.82E-02	5.83E-01	1.50E-01	4.36E+01	4.17E+01	3.29E+01
2981	478876.63	3850121.93	2.78856	5.87001	0.7866	1.36328	1.928	1.673	5.8874	5.87001	1.94E+01	1.08E+01	8.19E-05	4.80E-02	6.04E-01	1.57E-01	4.17E+01	3.99E+01	3.29E+01
2982	478976.63	3850121.93	2.7873	5.39726	0.73472	1.31387	2.047	1.809	5.4219	5.39726	1.94E+01	9.97E+00	7.65E-05	4.62E-02	6.41E-01	1.70E-01	3.84E+01	3.67E+01	3.20E+01
2983	479026.63	3850121.93	2.75689	5.18438	0.70912	1.30799	2.098	1.846	5.228	5.18438	1.92E+01	9.58E+00	7.38E-05	4.60E-02	6.57E-01	1.74E-01	3.70E+01	3.53E+01	3.15E+01
2984	479076.63	3850121.93	2.72878	4.97869	0.68313	1.29825	2.146	1.859	5.0408	4.97869	1.90E+01	9.20E+00	7.11E-05	4.57E-02	6.72E-01	1.75E-01	3.57E+01	3.39E+01	3.10E+01
2985	479126.63	3850121.93	2.6991	4.78671	0.65764	1.28621	2.187	1.85	4.8663	4.78671	1.88E+01	8.84E+00	6.85E-05	4.53E-02	6.85E-01	1.74E-01	3.45E+01	3.25E+01	3.05E+01
2986	478776.63	3850171.93	2.59827	7.09397	0.88413	1.35791	1.713	1.429	7.0862	7.09397	1.81E+01	1.31E+01	9.20E-05	4.78E-02	5.37E-01	1.34E-01	5.02E+01	4.82E+01	3.39E+01
2987	478826.63	3850171.93	2.69239	6.70135	0.85298	1.37369	1.786	1.53	6.6956	6.70135	1.88E+01	1.24E+01	8.88E-05	4.83E-02	5.59E-01	1.44E-01	4.74E+01	4.56E+01	3.38E+01
2988	478876.63	3850171.93	2.80175	6.34064	0.82321	1.37852	1.856	1.624	6.3495	6.34064	1.95E+01	1.17E+01	8.57E-05	4.85E-02	5.81E-01	1.53E-01	4.50E+01	4.31E+01	3.39E+01
2989	478976.63	3850171.93	2.87906	5.79878	0.7691	1.35234	1.983	1.782	5.8145	5.79878	2.01E+01	1.07E+01	8.01E-05	4.76E-02	6.21E-01	1.67E-01	4.12E+01	3.94E+01	3.34E+01
2990	479026.63	3850171.93	2.84472	5.56359	0.7432	1.32455	2.039	1.841	5.6067	5.56359	1.98E+01	1.03E+01	7.74E-05	4.66E-02	6.39E-01	1.73E-01	3.97E+01	3.78E+01	3.29E+01
2991	479076.63	3850171.93	2.81148	5.35355	0.71638	1.31775	2.094	1.875	5.419	5.35355	1.96E+01	9.89E+00	7.46E-05	4.64E-02	6.56E-01	1.76E-01	3.84E+01	3.64E+01	3.24E+01
2992	479126.63	3850171.93	2.77651	5.153	0.69039	1.30553	2.142	1.886	5.234	5.153	1.94E+01	9.52E+00	7.19E-05	4.59E-02	6.71E-01	1.77E-01	3.71E+01	3.50E+01	3.18E+01
2993	479176.63	3850171.93	2.73774	4.96095	0.66528	1.29301	2.18	1.879	5.0623	4.96095	1.91E+01	9.16E+00	6.93E-05	4.55E-02	6.83E-01	1.77E-01	3.59E+01	3.37E+01	3.13E+01
2994	479226.63	3850171.93	2.68889	4.81269	0.6419	1.27169	2.199	1.86	4.9039	4.81269	1.87E+01	8.89E+00	6.68E-05	4.48E-02	6.89E-01	1.75E-01	3.47E+01	3.27E+01	3.06E+01
2995	479276.63	3850171.93	2.63967	4.67754	0.61881	1.24535	2.206	1.828	4.7383	4.67754	1.84E+01	8.64E+00	6.44E-05	4.38E-02	6.91E-01	1.72E-01	3.36E+01	3.18E+01	2.97E+01
2996	479326.63	3850171.93	2.63431	4.56795	0.60582	1.21589	2.228	1.773	4.574	4.56795	1.84E+01	8.44E+00	6.31E-05	4.28E-02	6.98E-01	1.67E-01	3.24E+01	3.11E+01	2.91E+01
2997	479376.63	3850171.93	2.63304	4.41408	0.59477	1.18274	2.241	1.707	4.3829	4.41408	1.84E+01	8.15E+00	6.19E-05	4.16E-02	7.02E-01	1.60E-01	3.11E+01	3.00E+01	2.85E+01
2998	478676.63	3850221.93	2.60435	9.26352	0.99624	1.24827	1.483	1.136	9.2308	9.26352	1.82E+01	1.71E+01	1.04E-04	4.39E-02	4.65E-01	1.07E-01	6.54E+01	6.30E+01	3.83E+01
2999	478726.63	3850221.93	2.58388	8.48121	0.96138	1.29561	1.559	1.241	8.4578	8.48121	1.80E+01	1.57E+01	1.00E-04	4.56E-02	4.88E-01	1.17E-01	5.99E+01	5.77E+01	3.66E+01
3000	478976.63	3850221.93	2.97266	6.22664	0.80553	1.38018	1.914	1.739	6.2361	6.22664	2.07E+01	1.15E+01	8.39E-05	4.86E-02	6.00E-01	1.63E-01	4.42E+01	4.23E+01	3.49E+01
3001	479026.63	3850221.93	2.95396	5.95063	0.77843	1.36376	1.974	1.813	5.9617	5.95063	2.06E+01	1.10E+01	8.10E-05	4.80E-02	6.19E-01	1.70E-01	4.22E+01	4.05E+01	3.42E+01
3002	479076.63	3850221.93	2.91209	5.71979	0.7508	1.33932	2.034	1.869	5.766	5.71979	2.03E+01	1.06E+01	7.82E-05	4.71E-02	6.37E-01	1.76E-01	4.09E+01	3.89E+01	3.37E+01
3003	479126.63	3850221.93	2.86974	5.50286	0.7241	1.32987	2.087	1.903	5.5812	5.50286	2.00E+01	1.02E+01	7.54E-05	4.68E-02	6.54E-01	1.79E-01	3.95E+01	3.74E+01	3.32E+01
3004	479176.63	3850221.93	2.82197	5.28686	0.69896	1.31725	2.129	1.916	5.3969	5.28686	1.97E+01	9.76E+00	7.28E-05	4.64E-02	6.67E-01	1.80E-01	3.82E+01	3.59E+01	3.26E+01
3005	479226.63	3850221.93	2.77267	5.08273	0.67418	1.30334	2.161	1.91	5.2241	5.08273	1.93E+01	9.39E+00	7.02E-05	4.59E-02	6.77E-01	1.80E-01	3.70E+01	3.46E+01	3.21E+01
3006	479276.63	3850221.93	2.72143	4.90466	0.64971	1.28432	2.184	1.888	5.0565	4.90466	1.90E+01	9.06E+00	6.76E-05	4.52E-02	6.84E-01	1.77E-01	3.58E+01	3.34E+01	3.14E+01
3007	479326.63	3850221.93	2.68971	4.81332	0.62458	1.26104	2.216	1.841	4.9059	4.81332	1.88E+01	8.89E+00	6.50E-05	4.44E-02	6.94E-01	1.73E-01	3.48E+01	3.27E+01	3.06E+01
3008	479376.63	3850221.93	2.67577	4.70027	0.61423	1.23141	2.236	1.787	4.7464	4.70027	1.87E+01	8.68E+00	6.39E-05	4.33E-02	7.01E-01	1.68E-01	3.36E+01	3.20E+01	2.99E+01
3009	478676.63	3850271.93	2.77269	11.59227	1.04898	1.18638	1.401	1.054	11.519	11.59227	1.93E+01	2.14E+01	1.09E-04	4.18E-02	4.39E-01	9.91E-02	8.16E+01	7.88E+01	4.41E+01
3010	478726.63	3850271.93	2.7111	10.12683	1.01085	1.24437	1.478	1.157	10.07	10.12683	1.89E+01	1.87E+01	1.05E-04	4.38E-02	4.63E-01	1.09E-01	7.14E+01	6.89E+01	4.07E+01
3011	478976.63	3850271.93	3.0247	6.91332	0.8432	1.39424	1.842	1.688	6.9031	6.91332	2.11E+01	1.28E+01	8.78E-05	4.91E-02	5.77E-01	1.59E-01	4.89E+01	4.70E+01	3.65E+01
3012	479026.63	3850271.93	3.08695	6.47059	0.81518	1.38981	1.906	1.772	6.4645	6.47059	2.15E+01	1.20E+01	8.49E-05	4.89E-02	5.97E-01	1.67E-01	4.58E+01	4.40E+01	3.61E+01
3013	479076.63	3850271.93	3.03977	6.11533	0.78693	1.37623	1.967	1.844	6.1225	6.11533	2.12E+01	1.13E+01	8.19E-05	4.84E-02	6.16E-01	1.73E-01	4.34E+01	4.16E+01	3.51E+01
3014	479126.63	3850271.93	2.9843	5.85842	0.75946	1.35264	2.024	1.9	5.9038	5.85842	2.08E+01	1.08E+01	7.91E-05	4.76E-02	6.34E-01	1.79E-01	4.18E+01	3.98E+01	3.45E+01
3015	479176.63	3850271.93	2.92987	5.61591	0.73307	1.34046	2.074	1.934	5.705	5.61591	2.04E+01	1.04E+01	7.63E-05	4.72E-02	6.50E-01	1.82E-01	4.04E+01	3.82E+01	3.39E+01
3016	479226.63	3850271.93	2.87444	5.38777	0.70738	1.32941	2.114	1.946	5.517	5.38777	2.00E+01	9.95E+00	7.36E-05	4.68E-02	6.62E-01	1.83E-01	3.91E+01	3.66E+01	3.33E+01
3017	479276.63	3850271.93	2.82177	5.19466	0.6813	1.3156	2.152	1.936	5.355	5.19466	1.97E+01	9.59E+00	7.09E-05	4.63E-02	6.74E-01	1.82E-01	3.79E+01	3.53E+01	3.28E+01

3018	479326.63	3850271.93	2.77383	5.04577	0.65451	1.29986	2.192	1.903	5.2111	5.04577	1.93E+01	9.32E+00	6.81E-05	4.58E-02	6.87E-01	1.79E-01	3.69E+01	3.43E+01	3.22E+01
3019	479376.63	3850271.93	2.74287	4.95192	0.63242	1.2771	2.229	1.852	5.0634	4.95192	1.91E+01	9.15E+00	6.58E-05	4.49E-02	6.98E-01	1.74E-01	3.59E+01	3.37E+01	3.14E+01
3020	479053.24	3850293.52	3.1355	6.54706	0.81674	1.3926	1.908	1.794	6.5408	6.54706	2.19E+01	1.21E+01	8.50E-05	4.90E-02	5.98E-01	1.69E-01	4.63E+01	4.45E+01	3.66E+01
3021	479103.24	3850293.52	3.07212	6.14557	0.7885	1.37848	1.968	1.865	6.1596	6.14557	2.14E+01	1.14E+01	8.21E-05	4.85E-02	6.17E-01	1.75E-01	4.36E+01	4.18E+01	3.55E+01
3022	479153.24	3850293.52	3.01318	5.89298	0.76048	1.35523	2.026	1.917	5.9429	5.89298	2.10E+01	1.09E+01	7.92E-05	4.77E-02	6.35E-01	1.80E-01	4.21E+01	4.01E+01	3.48E+01
3023	479203.24	3850293.52	2.95332	5.63731	0.73422	1.3443	2.072	1.949	5.7312	5.63731	2.06E+01	1.04E+01	7.64E-05	4.73E-02	6.49E-01	1.83E-01	4.06E+01	3.83E+01	3.42E+01
3024	479253.24	3850293.52	2.89636	5.41957	0.70783	1.33394	2.115	1.957	5.5547	5.41957	2.02E+01	1.00E+01	7.37E-05	4.69E-02	6.63E-01	1.84E-01	3.94E+01	3.69E+01	3.36E+01
3025	479303.24	3850293.52	2.84412	5.24618	0.68075	1.32085	2.16	1.941	5.4079	5.24618	1.98E+01	9.69E+00	7.09E-05	4.65E-02	6.77E-01	1.82E-01	3.83E+01	3.57E+01	3.31E+01
3026	479353.24	3850293.52	2.79419	5.10272	0.65355	1.30497	2.202	1.903	5.2636	5.10272	1.95E+01	9.42E+00	6.80E-05	4.59E-02	6.90E-01	1.79E-01	3.73E+01	3.47E+01	3.24E+01
3027	479153.24	3850343.52	3.17586	6.42016	0.79756	1.38986	1.898	1.896	6.4268	6.42016	2.21E+01	1.19E+01	8.30E-05	4.89E-02	5.95E-01	1.78E-01	4.55E+01	4.37E+01	3.67E+01
3028	479203.24	3850343.52	3.10081	6.04403	0.7697	1.36746	1.943	1.949	6.0963	6.04403	2.16E+01	1.12E+01	8.01E-05	4.81E-02	6.09E-01	1.83E-01	4.32E+01	4.11E+01	3.57E+01
3029	479253.24	3850343.52	3.03504	5.795	0.74138	1.35715	1.984	1.976	5.8815	5.795	2.12E+01	1.07E+01	7.72E-05	4.78E-02	6.22E-01	1.86E-01	4.17E+01	3.94E+01	3.50E+01
3030	479303.24	3850343.52	2.98199	5.59987	0.71324	1.3501	2.119	1.978	5.7236	5.59987	2.08E+01	1.03E+01	7.43E-05	4.75E-02	6.64E-01	1.86E-01	4.06E+01	3.81E+01	3.45E+01
3031	479353.24	3850343.52	2.94801	5.42219	0.68551	1.33635	2.168	1.957	5.5751	5.42219	2.06E+01	1.00E+01	7.14E-05	4.70E-02	6.79E-01	1.84E-01	3.95E+01	3.69E+01	3.41E+01
3032	479203.24	3850393.52	3.29987	6.76081	0.80627	1.40113	1.901	1.926	6.7626	6.76081	2.30E+01	1.25E+01	8.39E-05	4.93E-02	5.96E-01	1.81E-01	4.79E+01	4.60E+01	3.83E+01
3033	479253.24	3850393.52	3.24347	6.34417	0.77671	1.38239	1.948	1.976	6.3715	6.34417	2.26E+01	1.17E+01	8.09E-05	4.87E-02	6.10E-01	1.86E-01	4.51E+01	4.31E+01	3.72E+01
3034	479303.24	3850393.52	3.20095	6.06306	0.7475	1.37164	1.99	2	6.1282	6.06306	2.23E+01	1.12E+01	7.78E-05	4.83E-02	6.23E-01	1.88E-01	4.34E+01	4.12E+01	3.66E+01
3035	479353.24	3850393.52	3.14823	5.82112	0.71879	1.36622	2.027	1.999	5.9269	5.82112	2.19E+01	1.08E+01	7.48E-05	4.81E-02	6.35E-01	1.88E-01	4.20E+01	3.96E+01	3.60E+01
3036	479403.24	3850393.52	3.08396	5.61456	0.69079	1.35147	2.173	1.975	5.753	5.61456	2.15E+01	1.04E+01	7.19E-05	4.76E-02	6.81E-01	1.86E-01	4.08E+01	3.82E+01	3.54E+01
3037	479453.24	3850393.52	3.01698	5.45709	0.66268	1.33745	2.223	1.929	5.5909	5.45709	2.10E+01	1.01E+01	6.90E-05	4.71E-02	6.97E-01	1.81E-01	3.96E+01	3.71E+01	3.45E+01
3038	479503.24	3850393.52	2.97977	5.32492	0.65037	1.31538	2.269	1.867	5.4231	5.32492	2.08E+01	9.83E+00	6.77E-05	4.63E-02	7.11E-01	1.76E-01	3.84E+01	3.62E+01	3.38E+01
3039	479303.24	3850443.52	3.43527	6.82974	0.7825	1.39949	1.951	2.001	6.8114	6.82974	2.39E+01	1.26E+01	8.15E-05	4.93E-02	6.11E-01	1.88E-01	4.83E+01	4.64E+01	3.92E+01
3040	479353.24	3850443.52	3.36145	6.46665	0.75234	1.3883	1.995	2.021	6.4717	6.46665	2.34E+01	1.19E+01	7.83E-05	4.89E-02	6.25E-01	1.90E-01	4.59E+01	4.40E+01	3.81E+01
3041	479403.24	3850443.52	3.27931	6.19512	0.72283	1.3849	2.135	2.014	6.2446	6.19512	2.29E+01	1.14E+01	7.53E-05	4.87E-02	6.69E-01	1.89E-01	4.42E+01	4.21E+01	3.73E+01
3042	479453.24	3850443.52	3.19126	5.93579	0.69398	1.37139	2.193	1.983	6.0191	5.93579	2.22E+01	1.10E+01	7.22E-05	4.83E-02	6.87E-01	1.86E-01	4.26E+01	4.04E+01	3.64E+01
3043	479503.24	3850443.52	3.10854	5.70653	0.66889	1.35606	2.246	1.932	5.7849	5.70653	2.17E+01	1.05E+01	6.96E-05	4.77E-02	7.04E-01	1.82E-01	4.10E+01	3.88E+01	3.53E+01
3044	480327.18	3850987.04	3.69282	7.63336	0.70797	1.37483	2.332	1.796	7.7434	7.63336	2.57E+01	1.41E+01	7.37E-05	4.84E-02	7.31E-01	1.69E-01	5.49E+01	5.19E+01	4.38E+01
3045	480377.18	3850987.04	3.73054	7.18354	0.68858	1.35557	2.333	1.744	7.2875	7.18354	2.60E+01	1.33E+01	7.17E-05	4.77E-02	7.31E-01	1.64E-01	5.16E+01	4.88E+01	4.30E+01
3046	480427.18	3850987.04	3.76201	6.76516	0.71615	1.34419	2.323	1.697	6.8373	6.76516	2.62E+01	1.25E+01	7.46E-05	4.73E-02	7.28E-01	1.60E-01	4.84E+01	4.60E+01	4.21E+01
3047	480477.18	3850987.04	3.79063	6.4347	0.76033	1.36184	2.303	1.66	6.3699	6.4347	2.64E+01	1.19E+01	7.92E-05	4.79E-02	7.22E-01	1.56E-01	4.51E+01	4.38E+01	4.06E+01
3048	480327.18	3851037.04	3.72846	9.0511	0.73388	1.41622	2.339	1.868	9.1641	9.0511	2.60E+01	1.67E+01	7.64E-05	4.98E-02	7.33E-01	1.76E-01	6.49E+01	6.15E+01	4.71E+01
3049	480377.18	3851037.04	3.76575	8.34232	0.71621	1.39797	2.349	1.81	8.4553	8.34232	2.63E+01	1.54E+01	7.46E-05	4.92E-02	7.36E-01	1.70E-01	5.99E+01	5.67E+01	4.58E+01
3050	480427.18	3851037.04	3.79563	7.79794	0.70254	1.37977	2.353	1.757	7.9006	7.79794	2.65E+01	1.44E+01	7.31E-05	4.86E-02	7.37E-01	1.65E-01	5.60E+01	5.30E+01	4.48E+01
3051	480477.18	3851037.04	3.81779	7.24536	0.74276	1.37178	2.344	1.712	7.3485	7.24536	2.66E+01	1.34E+01	7.73E-05	4.83E-02	7.35E-01	1.61E-01	5.21E+01	4.93E+01	4.37E+01
3052	480622.06	3851087.39	3.92239	7.07035	0.90398	1.43465	2.327	1.759	7.09	7.07035	2.73E+01	1.31E+01	9.41E-05	5.05E-02	7.29E-01	1.65E-01	5.02E+01	4.81E+01	4.35E+01
3053	480672.06	3851087.39	3.94716	7.03353	0.99924	1.45814	2.316	1.816	7.0826	7.03353	2.75E+01	1.30E+01	1.04E-04	5.13E-02	7.26E-01	1.71E-01	5.02E+01	4.78E+01	4.38E+01
3054	480622.06	3851137.39	3.97711	7.93844	0.87135	1.44293	2.371	1.75	8.0051	7.93844	2.77E+01	1.47E+01	9.07E-05	5.08E-02	7.43E-01	1.65E-01	5.67E+01	5.40E+01	4.61E+01
3055	480672.06	3851137.39	3.99182	7.57559	0.95692	1.46375	2.351	1.802	7.6018	7.57559	2.78E+01	1.40E+01	9.96E-05	5.15E-02	7.36E-01	1.69E-01	5.39E+01	5.15E+01	4.51E+01
3056	480722.06	3851137.39	4.01099	7.56016	1.06175	1.48639	2.338	1.859	7.6289	7.56016	2.80E+01	1.40E+01	1.11E-04	5.23E-02	7.33E-01	1.75E-01	5.41E+01	5.14E+01	4.55E+01
3057	480622.06	3851187.39	4.07772	9.72467	0.84197	1.45644	2.401	1.767	9.851	9.72467	2.84E+01	1.80E+01	8.77E-05	5.13E-02	7.52E-01	1.66E-01	6.98E+01	6.61E+01	5.10E+01
3058	480672.06	3851187.39	4.07416	8.70113	0.91973	1.47402	2.39	1.795	8.8138	8.70113	2.84E+01	1.61E+01	9.57E-05	5.19E-02	7.49E-01	1.69E-01	6.24E+01	5.92E+01	4.87E+01
3059	480722.06	3851187.39	4.07689	8.19977	1.0167	1.49614	2.369	1.851	8.2345	8.19977	2.84E+01	1.51E+01	1.06E-04	5.27E-02	7.42E-01	1.74E-01	5.83E+01	5.58E+01	4.71E+01
3060	471363.09	3845877.25	0.82911	0.9735	0.2195	0.30239	0.533	0.376	0.9485	0.9735	5.78E+00	1.80E+00	2.29E-05	1.06E-02	1.67E-01	3.53E-02	6.72E+00	6.62E+00	7.89E+00
3061	471863.09	3845877.25	0.95815	0.63173	0.25293	0.28223	0.5	0.416	0.6033	0.63173	6.68E+00	1.17E+00	2.63E-05	9.93E-03	1.57E-01	3.91E-02	4.27E+00	4.30E+00	8.03E+00
3062	472363.09	3845877.25	1.06643	0.92544	0.42893	0.33181	0.583	0.449	0.8298	0.92544	7.43E+00	1.71E+00	4.47E-05	1.17E-02	1.83E-01	4.22E-02	5.88E+00	6.29E+00	8.97E+00
3063	472863.09	3845877.25	1.03841	0.59746	0.48282	0.40253	0.701	0.408	0.5848	0.59746	7.24E+00	1.10E+00	5.03E-05	1.42E-02	2.20E-01	3.84E-02	4.14E+00	4.06E+00	8.70E+00
3064	473363.09	3845877.25	0.98982	0.57786	0.49313	0.58265	0.838	0.474	0.7198	0.57786	6.90E+00	1.07E+00	5.13E-05	2.05E-02	2.62E-01	4.45E-02	5.10E+00	3.93E+00	9.47E+00
3065	473863.09	3845877.25	0.84889	0.55835	0.41228	0.74073	1.195	0.5	0.7223	0.55835	5.92E+00	1.03E+00	4.29E-05	2.61E-02	3.74E-01	4.70E-02	5.12E+00	3.80E+00	8.72E+00
3066	474363.09	3845877.25	0.73623	0.58718	0.38067	0.56274	1.348	0.388	0.6859	0.58718	5.13E+00	1.08E+00	3.96E-05	1.98E-02	4.22E-01	3.65E-02	4.86E+00	3.99E+00	7.56E+00
3067	474863.09	3845877.25	0.852	0.66186	0.35225	0.49883	1.087	0.351	0.7399	0.66186	5.94E+00	1.22E+00	3.67E-05	1.76E-02	3.41E-01	3.30E-02	5.24E+00	4.50E+00	8.30E+00
3068	475363.09	3845877.25	1.25013	0.78754	0.31268	0.36028	0.903	0.516	0.7816	0.78754	8.72E+00	1.45E+00	3.26E-05	1.27E-02	2.83E-01	4.85E-02	5.54E+00	5.36E+00	1.07E+01
3069	475863.09	3845877.25	1.5623	0.90291	0.29697	0.32104	0.681	0.547	0.7721	0.90291	1.09E+01	1.67E+00	3.09E-05	1.13E-02	2.13E-01	5.14E-02	5.47E+00	6.14E+00	1.22E+01
3070	476363.09	3845877.25	1.6115	0.83379	0.31842	0.43355	0.578	0.54	0.9083	0.83379	1.12E+01	1.54E+00	3.31E-05	1.53E-02	1.81E-01	5.07E-02	6.44E+00	5.67E+00	1.38E+01
3071	476863.09	3845877.25	1.25466	0.61395	0.30042	0.58313	0.584	0.533	0.741	0.61395	8.75E+00	1.13E+00	3.13E-05	2.05E-02	1.83E-01	5.01E-02	5.25E+00	4.17E+00	1.12E+01
3072	477363.09	3845877.25	0.97261	0.53931	0.26813	0.69796	0.957	0.48	0.6507	0.53931	6.78E+00	9.96E-01	2.79E-05	2.46E-02	3.00E-01	4.51E-02	4.61E+00	3.67E+00	9.09E+00
3073	477863.09	3845877.25	0.78896	0.46529	0.25717	0.55672	1.791	0.33	0.479	0.46529	5.50E+00	8.59E-01	2.68E-05	1.96E-02	5.61E-01	3.10E-02	3.39E+00	3.16E+00	7.20E+00
3074	478363.09	3845877.25	0.95166	0.4413	0.26064	0.37947	1.564	0.24	0.445	0.4413	6.63E+00	8.15E-01	2.71E-05	1.34E-02	4.90E-01	2.26E-02	3.15E+00	3.00E+00	8.13E+00

3075	478863.09	3845877.25	1.03224	0.41338	0.25695	0.33855	0.703	0.26	0.4142	0.41338	7.20E+00	7.63E-01	2.68E-05	1.19E-02	2.20E-01	2.44E-02	2.93E+00	2.81E+00	8.34E+00
3076	479363.09	3845877.25	1.18879	0.44637	0.27031	0.33475	0.489	0.313	0.4349	0.44637	8.29E+00	8.24E-01	2.81E-05	1.18E-02	1.53E-01	2.94E-02	3.08E+00	3.04E+00	9.35E+00
3077	479863.09	3845877.25	1.29317	0.41398	0.31104	0.33921	0.423	0.344	0.401	0.41398	9.02E+00	7.65E-01	3.24E-05	1.19E-02	1.32E-01	3.23E-02	2.84E+00	2.82E+00	9.98E+00
3078	480363.09	3845877.25	1.2481	0.37178	0.35298	0.32018	0.462	0.315	0.3595	0.37178	8.70E+00	6.87E-01	3.67E-05	1.13E-02	1.45E-01	2.96E-02	2.55E+00	2.53E+00	9.59E+00
3079	480863.09	3845877.25	1.04621	0.34911	0.40627	0.31255	0.64	0.311	0.3177	0.34911	7.29E+00	6.45E-01	4.23E-05	1.10E-02	2.01E-01	2.92E-02	2.25E+00	2.37E+00	8.06E+00
3080	481363.09	3845877.25	0.90515	0.29363	0.34408	0.30454	0.666	0.286	0.2965	0.29363	6.31E+00	5.42E-01	3.58E-05	1.07E-02	2.09E-01	2.69E-02	2.10E+00	2.00E+00	7.20E+00
3081	481863.09	3845877.25	0.67088	0.26784	0.2432	0.27513	0.66	0.29	0.2757	0.26784	4.68E+00	4.95E-01	2.53E-05	9.68E-03	2.07E-01	2.72E-02	1.95E+00	1.82E+00	5.55E+00
3082	482363.09	3845877.25	0.50971	0.25286	0.22984	0.2691	0.539	0.307	0.2618	0.25286	3.55E+00	4.67E-01	2.39E-05	9.47E-03	1.69E-01	2.89E-02	1.86E+00	1.72E+00	4.36E+00
3083	482863.09	3845877.25	0.4657	0.24739	0.24863	0.25679	0.624	0.321	0.2544	0.24739	3.25E+00	4.57E-01	2.59E-05	9.04E-03	1.96E-01	3.02E-02	1.80E+00	1.68E+00	4.06E+00
3084	483363.09	3845877.25	0.43923	0.26288	0.26975	0.26221	0.845	0.304	0.2569	0.26288	3.06E+00	4.86E-01	2.81E-05	9.23E-03	2.65E-01	2.86E-02	1.82E+00	1.79E+00	3.88E+00
3085	483863.09	3845877.25	0.50918	0.23417	0.34547	0.27191	1.087	0.294	0.2461	0.23417	3.55E+00	4.32E-01	3.60E-05	9.57E-03	3.41E-01	2.76E-02	1.74E+00	1.59E+00	4.51E+00
3086	484363.09	3845877.25	0.50375	0.22806	0.34638	0.27154	1.036	0.247	0.2376	0.22806	3.51E+00	4.21E-01	3.61E-05	9.56E-03	3.25E-01	2.33E-02	1.68E+00	1.55E+00	4.42E+00
3087	484863.09	3845877.25	0.45476	0.22554	0.3087	0.27259	0.883	0.207	0.2311	0.22554	3.17E+00	4.17E-01	3.21E-05	9.59E-03	2.77E-01	1.95E-02	1.64E+00	1.53E+00	4.00E+00
3088	485363.09	3845877.25	0.43819	0.22249	0.24632	0.28318	0.576	0.217	0.2254	0.22249	3.05E+00	4.11E-01	2.56E-05	9.97E-03	1.80E-01	2.04E-02	1.60E+00	1.51E+00	3.76E+00
3089	485863.09	3845877.25	0.42487	0.22321	0.25466	0.27832	0.469	0.231	0.2252	0.22321	2.96E+00	4.12E-01	2.65E-05	9.80E-03	1.47E-01	2.17E-02	1.60E+00	1.52E+00	3.63E+00
3090	486363.09	3845877.25	0.4367	0.22427	0.28243	0.24966	0.546	0.24	0.226	0.22427	3.04E+00	4.14E-01	2.94E-05	8.79E-03	1.71E-01	2.25E-02	1.60E+00	1.53E+00	3.74E+00
3091	486863.09	3845877.25	0.44992	0.21857	0.26665	0.23451	0.605	0.257	0.2202	0.21857	3.14E+00	4.04E-01	2.78E-05	8.25E-03	1.89E-01	2.41E-02	1.56E+00	1.49E+00	3.84E+00
3092	487363.09	3845877.25	0.47435	0.2171	0.28085	0.21206	0.773	0.285	0.2187	0.2171	3.31E+00	4.01E-01	2.92E-05	7.46E-03	2.42E-01	2.68E-02	1.55E+00	1.48E+00	4.06E+00
3093	487863.09	3845877.25	0.39207	0.21503	0.24272	0.20323	0.962	0.254	0.2166	0.21503	2.73E+00	3.97E-01	2.53E-05	7.15E-03	3.01E-01	2.39E-02	1.53E+00	1.46E+00	3.54E+00
3094	488363.09	3845877.25	0.374	0.21362	0.19821	0.18897	1.275	0.249	0.2152	0.21362	2.61E+00	3.95E-01	2.06E-05	6.65E-03	3.99E-01	2.34E-02	1.52E+00	1.45E+00	3.50E+00
3095	488863.09	3845877.25	0.42054	0.2132	0.23553	0.26024	1.094	0.27	0.2147	0.2132	2.93E+00	3.94E-01	2.45E-05	9.16E-03	3.43E-01	2.53E-02	1.52E+00	1.45E+00	3.77E+00
3096	489363.09	3845877.25	0.3506	0.21331	0.24377	0.29353	0.654	0.235	0.2149	0.21331	2.44E+00	3.94E-01	2.54E-05	1.03E-02	2.05E-01	2.20E-02	1.52E+00	1.45E+00	3.15E+00
3097	489863.09	3845877.25	0.29177	0.21339	0.26845	0.29941	0.58	0.19	0.215	0.21339	2.03E+00	3.94E-01	2.79E-05	1.05E-02	1.82E-01	1.78E-02	1.52E+00	1.45E+00	2.71E+00
3098	490363.09	3845877.25	0.30691	0.21306	0.28722	0.25764	0.553	0.182	0.2148	0.21306	2.14E+00	3.94E-01	2.99E-05	9.07E-03	1.73E-01	1.72E-02	1.52E+00	1.45E+00	2.81E+00
3099	490863.09	3845877.25	0.29001	0.21192	0.23658	0.22682	0.604	0.179	0.2137	0.21192	2.02E+00	3.91E-01	2.46E-05	7.98E-03	1.89E-01	1.69E-02	1.51E+00	1.44E+00	2.70E+00
3100	491363.09	3845877.25	0.32241	0.20935	0.18313	0.22726	0.688	0.178	0.2111	0.20935	2.25E+00	3.87E-01	1.91E-05	8.00E-03	2.16E-01	1.67E-02	1.50E+00	1.42E+00	2.95E+00
3101	491863.09	3845877.25	0.32469	0.20569	0.21323	0.25547	0.543	0.175	0.2074	0.20569	2.26E+00	3.80E-01	2.22E-05	8.99E-03	1.70E-01	1.65E-02	1.47E+00	1.40E+00	2.91E+00
3102	492363.09	3845877.25	0.28481	0.20365	0.24348	0.26419	0.419	0.164	0.2053	0.20365	1.99E+00	3.76E-01	2.53E-05	9.30E-03	1.31E-01	1.54E-02	1.45E+00	1.38E+00	2.59E+00
3103	492863.09	3845877.25	0.31239	0.20201	0.2325	0.22958	0.439	0.148	0.2023	0.20201	2.18E+00	3.73E-01	2.42E-05	8.08E-03	1.37E-01	1.39E-02	1.43E+00	1.37E+00	2.77E+00
3104	493363.09	3845877.25	0.30834	0.20003	0.19737	0.22474	0.459	0.146	0.1998	0.20003	2.15E+00	3.69E-01	2.05E-05	7.91E-03	1.44E-01	1.37E-02	1.42E+00	1.36E+00	2.74E+00
3105	493863.09	3845877.25	0.30533	0.1971	0.20079	0.24874	0.564	0.158	0.1973	0.1971	2.13E+00	3.64E-01	2.09E-05	8.75E-03	1.77E-01	1.49E-02	1.40E+00	1.34E+00	2.75E+00
3106	494363.09	3845877.25	0.30587	0.19407	0.19552	0.25302	0.695	0.17	0.1954	0.19407	2.13E+00	3.58E-01	2.04E-05	8.91E-03	2.18E-01	1.59E-02	1.38E+00	1.32E+00	2.80E+00
3107	494863.09	3845877.25	0.30583	0.19174	0.17731	0.24821	0.746	0.177	0.1941	0.19174	2.13E+00	3.54E-01	1.85E-05	8.74E-03	2.34E-01	1.66E-02	1.38E+00	1.30E+00	2.82E+00
3108	495363.09	3845877.25	0.30961	0.19022	0.17603	0.22223	0.729	0.195	0.1931	0.19022	2.16E+00	3.51E-01	1.83E-05	7.82E-03	2.28E-01	1.83E-02	1.37E+00	1.29E+00	2.84E+00
3109	495863.09	3845877.25	0.32138	0.18917	0.17194	0.21111	0.849	0.202	0.1923	0.18917	2.24E+00	3.49E-01	1.79E-05	7.43E-03	2.66E-01	1.90E-02	1.36E+00	1.29E+00	2.96E+00
3110	496363.09	3845877.25	0.33308	0.193	0.19639	0.20931	1.025	0.197	0.1944	0.193	2.32E+00	3.56E-01	2.04E-05	7.37E-03	3.21E-01	1.85E-02	1.38E+00	1.31E+00	3.09E+00
3111	496863.09	3845877.25	0.34659	0.19379	0.21683	0.19338	1.05	0.204	0.1952	0.19379	2.42E+00	3.58E-01	2.26E-05	6.81E-03	3.29E-01	1.92E-02	1.38E+00	1.32E+00	3.19E+00
3112	497363.09	3845877.25	0.35286	0.19353	0.20259	0.20809	0.95	0.217	0.1948	0.19353	2.46E+00	3.57E-01	2.11E-05	7.32E-03	2.98E-01	2.04E-02	1.38E+00	1.32E+00	3.21E+00
3113	497863.09	3845877.25	0.3514	0.19283	0.20024	0.23452	0.8	0.205	0.194	0.19283	2.45E+00	3.56E-01	2.08E-05	8.25E-03	2.51E-01	1.93E-02	1.37E+00	1.31E+00	3.15E+00
3114	498363.09	3845877.25	0.34179	0.1919	0.18688	0.26178	0.738	0.18	0.1929	0.1919	2.38E+00	3.54E-01	1.95E-05	9.21E-03	2.31E-01	1.70E-02	1.37E+00	1.30E+00	3.06E+00
3115	471363.09	3846377.25	0.92499	8.9187	0.3079	0.62893	1.246	0.583	8.9895	8.9187	6.45E+00	1.65E+01	3.21E-05	2.21E-02	3.90E-01	5.48E-02	6.37E+01	6.06E+01	2.64E+01
3116	471863.09	3846377.25	0.93499	4.47412	0.24317	0.49541	0.908	0.525	4.5052	4.47412	6.52E+00	8.26E+00	2.53E-05	1.74E-02	2.84E-01	4.94E-02	3.19E+01	3.04E+01	1.66E+01
3117	472363.09	3846377.25	0.96681	0.83585	0.24665	0.2897	0.495	0.424	0.8137	0.83585	6.74E+00	1.54E+00	2.57E-05	1.02E-02	1.55E-01	3.98E-02	5.77E+00	5.68E+00	8.57E+00
3118	472863.09	3846377.25	1.06489	0.85279	0.40394	0.32515	0.577	0.454	0.8194	0.85279	7.42E+00	1.58E+00	4.21E-05	1.14E-02	1.81E-01	4.27E-02	5.81E+00	5.80E+00	9.24E+00
3119	473363.09	3846377.25	1.10528	0.83255	0.54856	0.39986	0.689	0.428	0.7832	0.83255	7.71E+00	1.54E+00	5.71E-05	1.41E-02	2.16E-01	4.02E-02	5.55E+00	5.66E+00	9.40E+00
3120	473863.09	3846377.25	1.08028	0.88308	0.58541	0.57937	0.826	0.494	1.0127	0.88308	7.53E+00	1.63E+00	6.09E-05	2.04E-02	2.59E-01	4.64E-02	7.18E+00	6.00E+00	1.07E+01
3121	474363.09	3846377.25	0.9521	0.93834	0.48551	0.83777	1.238	0.562	1.1499	0.93834	6.64E+00	1.73E+00	5.05E-05	2.95E-02	3.88E-01	5.28E-02	8.15E+00	6.38E+00	1.06E+01
3122	474863.09	3846377.25	0.86156	0.95656	0.41751	0.65998	1.491	0.442	1.0829	0.95656	6.01E+00	1.77E+00	4.35E-05	2.32E-02	4.67E-01	4.16E-02	7.67E+00	6.50E+00	9.47E+00
3123	475363.09	3846377.25	0.979	0.89926	0.3725	0.55735	1.219	0.422	0.9971	0.89926	6.83E+00	1.66E+00	3.88E-05	1.96E-02	3.82E-01	3.97E-02	7.06E+00	6.11E+00	9.88E+00
3124	475863.09	3846377.25	1.38484	0.95506	0.32279	0.39733	1.001	0.615	0.896	0.95506	9.65E+00	1.76E+00	3.36E-05	1.40E-02	3.14E-01	5.78E-02	6.35E+00	6.49E+00	1.17E+01
3125	476363.09	3846377.25	1.67091	0.93563	0.30792	0.33388	0.732	0.572	0.8617	0.93563	1.16E+01	1.73E+00	3.21E-05	1.18E-02	2.29E-01	5.37E-02	6.11E+00	6.36E+00	1.34E+01
3126	476863.09	3846377.25	1.65931	0.81763	0.33228	0.49806	0.597	0.575	0.9303	0.81763	1.16E+01	1.51E+00	3.46E-05	1.75E-02	1.87E-01	5.40E-02	6.59E+00	5.56E+00	1.44E+01
3127	477363.09	3846377.25	1.30161	0.68006	0.30088	0.6455	0.603	0.568	0.7752	0.68006	9.07E+00	1.26E+00	3.13E-05	2.27E-02	1.89E-01	5.33E-02	5.49E+00	4.62E+00	1.15E+01
3128	477863.09	3846377.25	1.03585	0.6158	0.27233	0.73085	1.111	0.482	0.6451	0.6158	7.22E+00	1.14E+00	2.84E-05	2.57E-02	3.48E-01	4.53E-02	4.57E+00	4.19E+00	9.16E+00
3129	478363.09	3846377.25	0.93632	0.56995	0.29523	0.56062	2.034	0.328	0.5755	0.56995	6.53E+00	1.05E+00	3.07E-05	1.97E-02	6.37E-01	3.09E-02	4.08E+00	3.88E+00	8.47E+00
3130	478863.09	3846377.25	1.13418	0.56261	0.28186	0.40527	1.583	0.278	0.5664	0.56261	7.91E+00	1.04E+00	2.93E-05	1.43E-02	4.96E-01	2.61E-02	4.01E+00	3.83E+00	9.67E+00
3131	479363.09	3846377.25	1.22927	0.55935	0.29071	0.38986	0.672	0.318	0.5582	0.55935	8.57E+00	1.03E+00	3.03E-05	1.37E-02	2.10E-01	2.99E-02	3.96E+00	3.80E+00	1.00E+01

3132	479863.09	3846377.25	1.33417	0.55601	0.30522	0.37111	0.488	0.367	0.5312	0.55601	9.30E+00	1.03E+00	3.18E-05	1.31E-02	1.53E-01	3.45E-02	3.76E+00	3.78E+00	1.05E+01
3133	480363.09	3846377.25	1.48855	0.49992	0.34577	0.38322	0.44	0.386	0.4871	0.49992	1.04E+01	9.23E-01	3.60E-05	1.35E-02	1.38E-01	3.63E-02	3.45E+00	3.40E+00	1.15E+01
3134	480863.09	3846377.25	1.25346	0.4628	0.39756	0.35753	0.537	0.336	0.4434	0.4628	8.74E+00	8.55E-01	4.14E-05	1.26E-02	1.68E-01	3.16E-02	3.14E+00	3.15E+00	9.80E+00
3135	481363.09	3846377.25	1.0433	0.36203	0.38276	0.34321	0.797	0.332	0.3793	0.36203	7.27E+00	6.69E-01	3.98E-05	1.21E-02	2.50E-01	3.12E-02	2.69E+00	2.46E+00	8.46E+00
3136	481863.09	3846377.25	0.8952	0.32081	0.30836	0.30929	0.717	0.292	0.3284	0.32081	6.24E+00	5.93E-01	3.21E-05	1.09E-02	2.25E-01	2.74E-02	2.33E+00	2.18E+00	7.24E+00
3137	482363.09	3846377.25	0.64777	0.31539	0.23107	0.27464	0.64	0.305	0.3228	0.31539	4.52E+00	5.83E-01	2.41E-05	9.67E-03	2.00E-01	2.87E-02	2.29E+00	2.14E+00	5.48E+00
3138	482863.09	3846377.25	0.51112	0.29545	0.25712	0.27093	0.599	0.327	0.3027	0.29545	3.56E+00	5.46E-01	2.68E-05	9.54E-03	1.88E-01	3.07E-02	2.15E+00	2.01E+00	4.47E+00
3139	483363.09	3846377.25	0.5157	0.2972	0.33405	0.2861	0.768	0.342	0.3011	0.2972	3.60E+00	5.49E-01	3.48E-05	1.01E-02	2.41E-01	3.21E-02	2.13E+00	2.02E+00	4.54E+00
3140	483863.09	3846377.25	0.52949	0.27311	0.35305	0.28183	1.062	0.311	0.2877	0.27311	3.69E+00	5.04E-01	3.68E-05	9.92E-03	3.33E-01	2.92E-02	2.04E+00	1.86E+00	4.75E+00
3141	484363.09	3846377.25	0.50689	0.26913	0.35509	0.27664	1.078	0.263	0.2805	0.26913	3.53E+00	4.97E-01	3.70E-05	9.74E-03	3.38E-01	2.48E-02	1.99E+00	1.83E+00	4.56E+00
3142	484863.09	3846377.25	0.49076	0.2681	0.36184	0.27762	0.987	0.221	0.2754	0.2681	3.42E+00	4.95E-01	3.77E-05	9.77E-03	3.09E-01	2.08E-02	1.95E+00	1.82E+00	4.38E+00
3143	485363.09	3846377.25	0.45441	0.26648	0.31233	0.28286	0.777	0.232	0.2709	0.26648	3.17E+00	4.92E-01	3.25E-05	9.96E-03	2.43E-01	2.18E-02	1.92E+00	1.81E+00	4.04E+00
3144	485863.09	3846377.25	0.45629	0.26529	0.31396	0.28774	0.474	0.234	0.2682	0.26529	3.18E+00	4.90E-01	3.27E-05	1.01E-02	1.49E-01	2.20E-02	1.90E+00	1.80E+00	3.95E+00
3145	486363.09	3846377.25	0.43095	0.23911	0.282	0.25472	0.558	0.237	0.2409	0.23911	3.00E+00	4.42E-01	2.94E-05	8.97E-03	1.75E-01	2.22E-02	1.71E+00	1.63E+00	3.73E+00
3146	486863.09	3846377.25	0.45205	0.23976	0.2699	0.23645	0.612	0.261	0.2415	0.23976	3.15E+00	4.43E-01	2.81E-05	8.32E-03	1.92E-01	2.46E-02	1.71E+00	1.63E+00	3.90E+00
3147	487363.09	3846377.25	0.47678	0.23846	0.29841	0.22228	0.794	0.29	0.2403	0.23846	3.32E+00	4.40E-01	3.11E-05	7.82E-03	2.49E-01	2.72E-02	1.70E+00	1.62E+00	4.13E+00
3148	487863.09	3846377.25	0.49249	0.24425	0.30773	0.22402	1.233	0.301	0.2462	0.24425	3.43E+00	4.51E-01	3.20E-05	7.88E-03	3.86E-01	2.83E-02	1.74E+00	1.66E+00	4.39E+00
3149	488363.09	3846377.25	0.47923	0.24092	0.25193	0.23352	1.638	0.299	0.2428	0.24092	3.34E+00	4.45E-01	2.62E-05	8.22E-03	5.13E-01	2.81E-02	1.72E+00	1.64E+00	4.42E+00
3150	488863.09	3846377.25	0.43893	0.23764	0.23803	0.26436	1.245	0.274	0.2395	0.23764	3.06E+00	4.39E-01	2.48E-05	9.30E-03	3.90E-01	2.58E-02	1.70E+00	1.62E+00	4.00E+00
3151	489363.09	3846377.25	0.35815	0.23328	0.25694	0.29957	0.799	0.235	0.2352	0.23328	2.50E+00	4.31E-01	2.67E-05	1.05E-02	2.50E-01	2.20E-02	1.67E+00	1.59E+00	3.29E+00
3152	489863.09	3846377.25	0.30722	0.22897	0.30337	0.32407	0.603	0.192	0.2309	0.22897	2.14E+00	4.23E-01	3.16E-05	1.14E-02	1.89E-01	1.80E-02	1.64E+00	1.56E+00	2.86E+00
3153	490363.09	3846377.25	0.32161	0.22741	0.27055	0.25574	0.593	0.186	0.2293	0.22741	2.24E+00	4.20E-01	2.82E-05	9.00E-03	1.86E-01	1.75E-02	1.62E+00	1.55E+00	2.95E+00
3154	490863.09	3846377.25	0.32928	0.22471	0.20537	0.22789	0.674	0.181	0.2266	0.22471	2.30E+00	4.15E-01	2.14E-05	8.02E-03	2.11E-01	1.70E-02	1.61E+00	1.53E+00	3.02E+00
3155	491363.09	3846377.25	0.32671	0.22002	0.20156	0.23528	0.678	0.18	0.2218	0.22002	2.28E+00	4.06E-01	2.10E-05	8.28E-03	2.12E-01	1.69E-02	1.57E+00	1.50E+00	3.00E+00
3156	491863.09	3846377.25	0.32519	0.21371	0.25623	0.27705	0.481	0.176	0.2146	0.21371	2.27E+00	3.95E-01	2.67E-05	9.75E-03	1.51E-01	1.65E-02	1.52E+00	1.45E+00	2.91E+00
3157	492363.09	3846377.25	0.31466	0.21059	0.24622	0.2717	0.436	0.164	0.2105	0.21059	2.19E+00	3.89E-01	2.56E-05	9.56E-03	1.36E-01	1.54E-02	1.49E+00	1.43E+00	2.80E+00
3158	492863.09	3846377.25	0.30949	0.20765	0.19175	0.2323	0.469	0.146	0.2074	0.20765	2.16E+00	3.84E-01	2.00E-05	8.18E-03	1.47E-01	1.38E-02	1.47E+00	1.41E+00	2.77E+00
3159	493363.09	3846377.25	0.30539	0.20448	0.19497	0.23788	0.504	0.153	0.2051	0.20448	2.13E+00	3.78E-01	2.03E-05	8.37E-03	1.58E-01	1.44E-02	1.45E+00	1.39E+00	2.75E+00
3160	493863.09	3846377.25	0.30486	0.20172	0.21333	0.26145	0.669	0.166	0.2035	0.20172	2.13E+00	3.73E-01	2.22E-05	9.20E-03	2.10E-01	1.56E-02	1.44E+00	1.37E+00	2.80E+00
3161	494363.09	3846377.25	0.30508	0.19976	0.19676	0.26389	0.772	0.177	0.2024	0.19976	2.13E+00	3.69E-01	2.05E-05	9.29E-03	2.42E-01	1.66E-02	1.43E+00	1.36E+00	2.84E+00
3162	494863.09	3846377.25	0.31216	0.19845	0.1824	0.2589	0.745	0.182	0.2016	0.19845	2.18E+00	3.67E-01	1.90E-05	9.11E-03	2.33E-01	1.71E-02	1.43E+00	1.35E+00	2.88E+00
3163	495363.09	3846377.25	0.32345	0.19741	0.17654	0.21947	0.821	0.206	0.2006	0.19741	2.25E+00	3.65E-01	1.84E-05	7.72E-03	2.57E-01	1.94E-02	1.42E+00	1.34E+00	2.98E+00
3164	495863.09	3846377.25	0.33786	0.20018	0.19126	0.21889	1.022	0.207	0.2016	0.20018	2.36E+00	3.70E-01	1.99E-05	7.70E-03	3.20E-01	1.94E-02	1.43E+00	1.36E+00	3.14E+00
3165	496363.09	3846377.25	0.35223	0.2035	0.21426	0.21324	1.09	0.203	0.2049	0.2035	2.46E+00	3.76E-01	2.23E-05	7.51E-03	3.42E-01	1.91E-02	1.45E+00	1.38E+00	3.27E+00
3166	496863.09	3846377.25	0.35909	0.2034	0.20794	0.20531	1.007	0.209	0.2047	0.2034	2.50E+00	3.76E-01	2.16E-05	7.23E-03	3.16E-01	1.96E-02	1.45E+00	1.38E+00	3.29E+00
3167	497363.09	3846377.25	0.35679	0.20373	0.20243	0.22822	0.838	0.218	0.2048	0.20373	2.49E+00	3.76E-01	2.11E-05	8.03E-03	2.62E-01	2.05E-02	1.45E+00	1.39E+00	3.22E+00
3168	497863.09	3846377.25	0.34555	0.20307	0.18115	0.25773	0.767	0.202	0.204	0.20307	2.41E+00	3.75E-01	1.89E-05	9.07E-03	2.40E-01	1.90E-02	1.45E+00	1.38E+00	3.12E+00
3169	498363.09	3846377.25	0.32634	0.20197	0.18537	0.26825	0.757	0.181	0.2031	0.20197	2.28E+00	3.73E-01	1.93E-05	9.44E-03	2.37E-01	1.70E-02	1.44E+00	1.37E+00	2.98E+00
3170	471363.09	3846877.25	0.89671	2.30582	0.68193	0.69051	1.244	0.592	2.3425	2.30582	6.25E+00	4.26E+00	7.10E-05	2.43E-02	3.90E-01	5.56E-02	1.66E+01	1.57E+01	1.19E+01
3171	471863.09	3846877.25	0.9584	3.71053	0.42454	0.66666	1.348	0.619	3.8471	3.71053	6.68E+00	6.85E+00	4.42E-05	2.35E-02	4.22E-01	5.82E-02	2.73E+01	2.52E+01	1.61E+01
3172	472363.09	3846877.25	1.02038	22.59786	0.26633	0.63229	1.201	0.617	22.798	22.59786	7.11E+00	4.17E+01	2.77E-05	2.23E-02	3.76E-01	5.80E-02	1.62E+02	1.54E+02	5.72E+01
3173	472863.09	3846877.25	0.97078	1.13266	0.24755	0.33348	0.582	0.429	1.1181	1.13266	6.77E+00	2.09E+00	2.58E-05	1.17E-02	1.82E-01	4.03E-02	7.92E+00	7.70E+00	9.31E+00
3174	473363.09	3846877.25	1.10406	1.0717	0.42087	0.32532	0.576	0.483	1.0539	1.0717	7.70E+00	1.98E+00	4.38E-05	1.15E-02	1.80E-01	4.54E-02	7.47E+00	7.29E+00	1.01E+01
3175	473863.09	3846877.25	1.18502	1.35295	0.66673	0.39247	0.673	0.465	1.3669	1.35295	8.26E+00	2.50E+00	6.94E-05	1.38E-02	2.11E-01	4.37E-02	9.69E+00	9.20E+00	1.15E+01
3176	474363.09	3846877.25	1.15656	1.29121	0.67396	0.55221	0.804	0.503	1.3039	1.29121	8.06E+00	2.38E+00	7.02E-05	1.94E-02	2.52E-01	4.72E-02	9.24E+00	8.78E+00	1.12E+01
3177	474863.09	3846877.25	1.03243	1.23961	0.54334	0.8869	1.219	0.602	1.3115	1.23961	7.20E+00	2.29E+00	5.66E-05	3.12E-02	3.82E-01	5.66E-02	9.29E+00	8.43E+00	1.08E+01
3178	475363.09	3846877.25	0.95178	1.12412	0.44307	0.7461	1.554	0.488	1.1348	1.12412	6.64E+00	2.08E+00	4.61E-05	2.63E-02	4.87E-01	4.58E-02	8.04E+00	7.64E+00	9.67E+00
3179	475863.09	3846877.25	1.10616	1.12715	0.3911	0.61481	1.348	0.492	1.1841	1.12715	7.71E+00	2.08E+00	4.07E-05	2.16E-02	4.22E-01	4.62E-02	8.39E+00	7.66E+00	1.10E+01
3180	476363.09	3846877.25	1.50468	1.11607	0.33325	0.43107	1.099	0.678	1.0497	1.11607	1.05E+01	2.06E+00	3.47E-05	1.52E-02	3.44E-01	6.37E-02	7.44E+00	7.59E+00	1.28E+01
3181	476863.09	3846877.25	1.78167	1.10044	0.32944	0.3535	0.789	0.596	1.0336	1.10044	1.24E+01	2.03E+00	3.43E-05	1.24E-02	2.47E-01	5.60E-02	7.32E+00	7.48E+00	1.46E+01
3182	477363.09	3846877.25	1.70787	0.93421	0.3433	0.56608	0.619	0.616	1.0863	0.93421	1.19E+01	1.73E+00	3.57E-05	1.99E-02	1.94E-01	5.79E-02	7.70E+00	6.35E+00	1.52E+01
3183	477863.09	3846877.25	1.36615	0.78264	0.29855	0.70388	0.646	0.59	0.8878	0.78264	9.52E+00	1.45E+00	3.11E-05	2.48E-02	2.02E-01	5.55E-02	6.29E+00	5.32E+00	1.22E+01
3184	478363.09	3846877.25	1.13535	0.70987	0.31247	0.78463	1.382	0.511	0.7367	0.70987	7.92E+00	1.31E+00	3.25E-05	2.76E-02	4.33E-01	4.81E-02	5.22E+00	4.83E+00	1.01E+01
3185	478863.09	3846877.25	1.20637	0.66732	0.35318	0.59825	2.431	0.357	0.6746	0.66732	8.41E+00	1.23E+00	3.68E-05	2.11E-02	7.62E-01	3.35E-02	4.78E+00	4.54E+00	1.07E+01
3186	479363.09	3846877.25	1.29895	0.60187	0.29041	0.46973	1.524	0.325	0.6081	0.60187	9.06E+00	1.11E+00	3.02E-05	1.65E-02	4.78E-01	3.06E-02	4.31E+00	4.09E+00	1.09E+01
3187	479863.09	3846877.25	1.22333	0.51223	0.29771	0.34022	0.604	0.313	0.4959	0.51223	8.53E+00	9.46E-01	3.10E-05	1.20E-02	1.89E-01	2.94E-02	3.51E+00	3.48E+00	9.74E+00
3188	480363.09	3846877.25	1.22276	0.47423	0.34201	0.29244	0.488	0.314	0.452	0.47423	8.52E+00	8.76E-01	3.56E-05	1.03E-02	1.53E-01	2.95E-02	3.20E+00	3.22E+00	9.57E+00

3189	480863.09	3846877.25	1.20459	0.40193	0.37259	0.30551	0.477	0.312	0.3665	0.40193	8.40E+00	7.42E-01	3.88E-05	1.08E-02	1.49E-01	2.93E-02	2.60E+00	2.73E+00	9.19E+00
3190	481363.09	3846877.25	1.11398	0.3757	0.42419	0.34563	0.642	0.336	0.3747	0.3757	7.77E+00	6.94E-01	4.42E-05	1.22E-02	2.01E-01	3.16E-02	2.66E+00	2.55E+00	8.81E+00
3191	481863.09	3846877.25	0.9674	0.3395	0.31606	0.33574	0.765	0.322	0.3563	0.3395	6.74E+00	6.27E-01	3.29E-05	1.18E-02	2.40E-01	3.03E-02	2.52E+00	2.31E+00	7.87E+00
3192	482363.09	3846877.25	0.66408	0.31684	0.23979	0.2856	0.685	0.305	0.3224	0.31684	4.63E+00	5.85E-01	2.50E-05	1.01E-02	2.15E-01	2.87E-02	2.28E+00	2.15E+00	5.60E+00
3193	482863.09	3846877.25	0.64228	0.31311	0.26739	0.28052	0.614	0.331	0.3206	0.31311	4.48E+00	5.78E-01	2.78E-05	9.87E-03	1.92E-01	3.11E-02	2.27E+00	2.13E+00	5.43E+00
3194	483363.09	3846877.25	0.52894	0.31075	0.35186	0.29023	0.71	0.354	0.3177	0.31075	3.69E+00	5.74E-01	3.66E-05	1.02E-02	2.23E-01	3.33E-02	2.25E+00	2.11E+00	4.67E+00
3195	483863.09	3846877.25	0.5481	0.30862	0.36019	0.30496	0.989	0.34	0.3139	0.30862	3.82E+00	5.70E-01	3.75E-05	1.07E-02	3.10E-01	3.19E-02	2.22E+00	2.10E+00	4.87E+00
3196	484363.09	3846877.25	0.51496	0.30666	0.36806	0.30885	1.176	0.293	0.3093	0.30666	3.59E+00	5.66E-01	3.83E-05	1.09E-02	3.68E-01	2.76E-02	2.19E+00	2.09E+00	4.67E+00
3197	484863.09	3846877.25	0.50825	0.28962	0.36608	0.28427	1.08	0.231	0.297	0.28962	3.54E+00	5.35E-01	3.81E-05	1.00E-02	3.38E-01	2.18E-02	2.10E+00	1.97E+00	4.58E+00
3198	485363.09	3846877.25	0.51208	0.2846	0.35948	0.2881	0.903	0.236	0.2896	0.2846	3.57E+00	5.26E-01	3.74E-05	1.01E-02	2.83E-01	2.21E-02	2.05E+00	1.94E+00	4.53E+00
3199	485863.09	3846877.25	0.45998	0.28123	0.33458	0.29414	0.505	0.247	0.2847	0.28123	3.21E+00	5.19E-01	3.48E-05	1.04E-02	1.58E-01	2.32E-02	2.02E+00	1.91E+00	4.02E+00
3200	486363.09	3846877.25	0.53196	0.28127	0.30949	0.26526	0.602	0.27	0.284	0.28127	3.71E+00	5.19E-01	3.22E-05	9.34E-03	1.89E-01	2.53E-02	2.01E+00	1.91E+00	4.55E+00
3201	486863.09	3846877.25	0.46526	0.27462	0.29208	0.25376	0.63	0.278	0.2773	0.27462	3.24E+00	5.07E-01	3.04E-05	8.93E-03	1.97E-01	2.61E-02	1.96E+00	1.87E+00	4.08E+00
3202	487363.09	3846877.25	0.48532	0.27704	0.32919	0.23974	0.895	0.313	0.2796	0.27704	3.38E+00	5.12E-01	3.43E-05	8.44E-03	2.81E-01	2.94E-02	1.98E+00	1.88E+00	4.31E+00
3203	487863.09	3846877.25	0.49674	0.26742	0.30935	0.2347	1.293	0.311	0.2701	0.26742	3.46E+00	4.94E-01	3.22E-05	8.26E-03	4.05E-01	2.92E-02	1.91E+00	1.82E+00	4.50E+00
3204	488363.09	3846877.25	0.48073	0.25207	0.25088	0.2429	1.698	0.31	0.2542	0.25207	3.35E+00	4.66E-01	2.61E-05	8.55E-03	5.32E-01	2.92E-02	1.80E+00	1.71E+00	4.47E+00
3205	488863.09	3846877.25	0.44542	0.24808	0.23817	0.26901	1.313	0.28	0.2502	0.24808	3.11E+00	4.58E-01	2.48E-05	9.47E-03	4.11E-01	2.63E-02	1.77E+00	1.69E+00	4.10E+00
3206	489363.09	3846877.25	0.38062	0.2455	0.29482	0.30709	0.803	0.236	0.2476	0.2455	2.65E+00	4.53E-01	3.07E-05	1.08E-02	2.52E-01	2.22E-02	1.75E+00	1.67E+00	3.48E+00
3207	489863.09	3846877.25	0.31953	0.23951	0.29855	0.33294	0.679	0.194	0.2414	0.23951	2.23E+00	4.42E-01	3.11E-05	1.17E-02	2.13E-01	1.82E-02	1.71E+00	1.63E+00	2.99E+00
3208	490363.09	3846877.25	0.33212	0.22869	0.25271	0.29773	0.659	0.19	0.2305	0.22869	2.32E+00	4.22E-01	2.63E-05	1.05E-02	2.06E-01	1.79E-02	1.63E+00	1.56E+00	3.05E+00
3209	490863.09	3846877.25	0.33382	0.22395	0.21792	0.25613	0.726	0.184	0.2255	0.22395	2.33E+00	4.14E-01	2.27E-05	9.01E-03	2.28E-01	1.73E-02	1.60E+00	1.52E+00	3.07E+00
3210	491363.09	3846877.25	0.32756	0.2199	0.2591	0.26632	0.672	0.183	0.2204	0.2199	2.28E+00	4.06E-01	2.70E-05	9.37E-03	2.11E-01	1.72E-02	1.56E+00	1.50E+00	2.99E+00
3211	491863.09	3846877.25	0.31853	0.21473	0.2596	0.27129	0.48	0.176	0.2144	0.21473	2.22E+00	3.97E-01	2.70E-05	9.55E-03	1.50E-01	1.65E-02	1.52E+00	1.46E+00	2.85E+00
3212	492363.09	3846877.25	0.31282	0.21075	0.21214	0.28899	0.59	0.164	0.2106	0.21075	2.18E+00	3.89E-01	2.21E-05	1.02E-02	1.85E-01	1.54E-02	1.49E+00	1.43E+00	2.84E+00
3213	492863.09	3846877.25	0.3058	0.2085	0.17759	0.23775	0.542	0.151	0.2095	0.2085	2.13E+00	3.85E-01	1.85E-05	8.37E-03	1.70E-01	1.42E-02	1.48E+00	1.42E+00	2.78E+00
3214	493363.09	3846877.25	0.30381	0.20669	0.21579	0.26402	0.626	0.162	0.2089	0.20669	2.12E+00	3.82E-01	2.25E-05	9.29E-03	1.96E-01	1.52E-02	1.48E+00	1.41E+00	2.80E+00
3215	493863.09	3846877.25	0.30467	0.20555	0.22344	0.27844	0.774	0.174	0.2085	0.20555	2.12E+00	3.80E-01	2.33E-05	9.80E-03	2.42E-01	1.63E-02	1.48E+00	1.40E+00	2.85E+00
3216	494363.09	3846877.25	0.31444	0.20484	0.1866	0.27526	0.797	0.183	0.2081	0.20484	2.19E+00	3.78E-01	1.94E-05	9.69E-03	2.50E-01	1.72E-02	1.47E+00	1.39E+00	2.93E+00
3217	494863.09	3846877.25	0.32506	0.20421	0.18152	0.25279	0.817	0.193	0.2075	0.20421	2.27E+00	3.77E-01	1.89E-05	8.90E-03	2.56E-01	1.81E-02	1.47E+00	1.39E+00	3.01E+00
3218	495363.09	3846877.25	0.34186	0.20353	0.18519	0.21969	1.006	0.213	0.2063	0.20353	2.38E+00	3.76E-01	1.93E-05	7.73E-03	3.15E-01	2.00E-02	1.46E+00	1.38E+00	3.18E+00
3219	495863.09	3846877.25	0.35687	0.20289	0.21537	0.22154	1.128	0.206	0.2048	0.20289	2.49E+00	3.75E-01	2.24E-05	7.80E-03	3.54E-01	1.93E-02	1.45E+00	1.38E+00	3.31E+00
3220	496363.09	3846877.25	0.36467	0.20516	0.21142	0.2066	1.06	0.202	0.2062	0.20516	2.54E+00	3.79E-01	2.20E-05	7.27E-03	3.32E-01	1.90E-02	1.46E+00	1.40E+00	3.35E+00
3221	496863.09	3846877.25	0.36267	0.20914	0.19198	0.21982	0.885	0.205	0.21	0.20914	2.53E+00	3.86E-01	2.00E-05	7.74E-03	2.77E-01	1.93E-02	1.49E+00	1.42E+00	3.28E+00
3222	497363.09	3846877.25	0.37589	0.21257	0.18727	0.24968	0.798	0.218	0.2137	0.21257	2.62E+00	3.93E-01	1.95E-05	8.79E-03	2.50E-01	2.05E-02	1.51E+00	1.45E+00	3.36E+00
3223	497863.09	3846877.25	0.37497	0.21767	0.1844	0.28281	0.789	0.209	0.2198	0.21767	2.61E+00	4.02E-01	1.92E-05	9.95E-03	2.47E-01	1.96E-02	1.56E+00	1.48E+00	3.37E+00
3224	498363.09	3846877.25	0.36054	0.21407	0.2191	0.28579	0.823	0.212	0.2176	0.21407	2.51E+00	3.95E-01	2.28E-05	1.01E-02	2.58E-01	1.99E-02	1.54E+00	1.46E+00	3.28E+00
3225	471363.09	3847377.25	0.93591	1.90568	1.01711	0.71088	0.939	0.62	1.9222	1.90568	6.52E+00	3.52E+00	1.06E-04	2.50E-02	2.94E-01	5.83E-02	1.36E+01	1.30E+01	1.11E+01
3226	471863.09	3847377.25	0.94659	2.36606	0.8705	0.73657	1.188	0.623	2.385	2.36606	6.60E+00	4.37E+00	9.06E-05	2.59E-02	3.72E-01	5.85E-02	1.69E+01	1.61E+01	1.22E+01
3227	472363.09	3847377.25	0.9741	3.08837	0.58318	0.71199	1.389	0.638	3.1181	3.08837	6.79E+00	5.70E+00	6.07E-05	2.51E-02	4.35E-01	6.00E-02	2.21E+01	2.10E+01	1.41E+01
3228	472863.09	3847377.25	1.10876	7.55058	0.32001	0.72181	1.417	0.679	7.6627	7.55058	7.73E+00	1.39E+01	3.33E-05	2.54E-02	4.44E-01	6.38E-02	5.43E+01	5.13E+01	2.52E+01
3229	473363.09	3847377.25	1.07227	3.40292	0.26023	0.52731	0.914	0.565	3.4245	3.40292	7.48E+00	6.28E+00	2.71E-05	1.86E-02	2.86E-01	5.31E-02	2.43E+01	2.31E+01	1.52E+01
3230	473863.09	3847377.25	1.15044	2.0312	0.45014	0.3689	0.623	0.535	2.0459	2.0312	8.02E+00	3.75E+00	4.69E-05	1.30E-02	1.95E-01	5.02E-02	1.45E+01	1.38E+01	1.27E+01
3231	474363.09	3847377.25	1.24158	2.32768	0.75564	0.38808	0.671	0.503	2.3456	2.32768	8.66E+00	4.30E+00	7.87E-05	1.37E-02	2.10E-01	4.73E-02	1.66E+01	1.58E+01	1.40E+01
3232	474863.09	3847377.25	1.22418	1.69716	0.75424	0.51114	0.799	0.504	1.7116	1.69716	8.53E+00	3.13E+00	7.85E-05	1.80E-02	2.50E-01	4.74E-02	1.21E+01	1.15E+01	1.26E+01
3233	475363.09	3847377.25	1.09937	1.18422	0.58295	0.88766	1.157	0.621	1.3055	1.18422	7.66E+00	2.19E+00	6.07E-05	3.12E-02	3.63E-01	5.83E-02	9.25E+00	8.05E+00	1.15E+01
3234	475863.09	3847377.25	1.10638	1.25247	0.49768	0.87619	1.645	0.558	1.3618	1.25247	7.71E+00	2.31E+00	5.18E-05	3.08E-02	5.16E-01	5.24E-02	9.65E+00	8.52E+00	1.18E+01
3235	476363.09	3847377.25	1.29643	1.21696	0.41659	0.70124	1.535	0.656	1.2991	1.21696	9.04E+00	2.25E+00	4.34E-05	2.47E-02	4.81E-01	6.16E-02	9.20E+00	8.28E+00	1.28E+01
3236	476863.09	3847377.25	1.63496	1.27156	0.34406	0.47289	1.217	0.749	1.1455	1.27156	1.14E+01	2.35E+00	3.58E-05	1.66E-02	3.81E-01	7.04E-02	8.12E+00	8.65E+00	1.37E+01
3237	477363.09	3847377.25	1.90335	1.27762	0.35528	0.40666	0.859	0.654	1.2132	1.27762	1.33E+01	2.36E+00	3.70E-05	1.43E-02	2.69E-01	6.15E-02	8.60E+00	8.69E+00	1.59E+01
3238	477863.09	3847377.25	1.7783	0.99101	0.35036	0.62878	0.642	0.653	1.1829	0.99101	1.24E+01	1.83E+00	3.65E-05	2.21E-02	2.01E-01	6.14E-02	8.38E+00	6.74E+00	1.62E+01
3239	478363.09	3847377.25	1.49133	0.90239	0.30053	0.79786	0.743	0.638	1.0358	0.90239	1.04E+01	1.67E+00	3.13E-05	2.81E-02	2.33E-01	6.00E-02	7.34E+00	6.14E+00	1.36E+01
3240	478863.09	3847377.25	1.27763	0.85444	0.3267	0.86266	1.777	0.564	0.8742	0.85444	8.91E+00	1.58E+00	3.40E-05	3.04E-02	5.57E-01	5.30E-02	6.19E+00	5.81E+00	1.15E+01
3241	479363.09	3847377.25	1.24532	0.71041	0.28624	0.52281	2.308	0.314	0.7171	0.71041	8.68E+00	1.31E+00	2.98E-05	1.84E-02	7.23E-01	2.95E-02	5.08E+00	4.83E+00	1.10E+01
3242	479863.09	3847377.25	1.01936	0.52124	0.29031	0.32276	0.942	0.255	0.5257	0.52124	7.11E+00	9.63E-01	3.02E-05	1.14E-02	2.95E-01	2.40E-02	3.72E+00	3.54E+00	8.58E+00
3243	480363.09	3847377.25	0.78504	0.39739	0.34052	0.2622	0.582	0.273	0.3722	0.39739	5.47E+00	7.34E-01	3.55E-05	9.23E-03	1.82E-01	2.56E-02	2.64E+00	2.70E+00	6.36E+00
3244	480863.09	3847377.25	0.64027	0.37508	0.35909	0.2635	0.484	0.303	0.3532	0.37508	4.46E+00	6.93E-01	3.74E-05	9.27E-03	1.52E-01	2.84E-02	2.50E+00	2.55E+00	5.30E+00
3245	481363.09	3847377.25	0.83051	0.35584	0.36575	0.28745	0.522	0.302	0.3333	0.35584	5.79E+00	6.57E-01	3.81E-05	1.01E-02	1.64E-01	2.84E-02	2.36E+00	2.42E+00	6.59E+00

3246	481863.09	3847377.25	1.03252	0.36927	0.33582	0.35013	0.763	0.335	0.3918	0.36927	7.20E+00	6.82E-01	3.50E-05	1.23E-02	2.39E-01	3.15E-02	2.78E+00	2.51E+00	8.43E+00
3247	482363.09	3847377.25	0.92264	0.36291	0.32993	0.33996	0.799	0.325	0.3817	0.36291	6.43E+00	6.70E-01	3.43E-05	1.20E-02	2.50E-01	3.05E-02	2.70E+00	2.47E+00	7.63E+00
3248	482863.09	3847377.25	0.81755	0.34027	0.27903	0.28903	0.761	0.326	0.3474	0.34027	5.70E+00	6.28E-01	2.90E-05	1.02E-02	2.38E-01	3.06E-02	2.46E+00	2.31E+00	6.75E+00
3249	483363.09	3847377.25	0.66669	0.30757	0.37074	0.29091	0.677	0.355	0.3191	0.30757	4.65E+00	5.68E-01	3.86E-05	1.02E-02	2.12E-01	3.34E-02	2.26E+00	2.09E+00	5.64E+00
3250	483863.09	3847377.25	0.67626	0.30449	0.37602	0.30659	0.901	0.354	0.3148	0.30449	4.71E+00	5.62E-01	3.91E-05	1.08E-02	2.82E-01	3.33E-02	2.23E+00	2.07E+00	5.76E+00
3251	484363.09	3847377.25	0.64649	0.30228	0.37859	0.3162	1.217	0.313	0.3096	0.30228	4.51E+00	5.58E-01	3.94E-05	1.11E-02	3.81E-01	2.94E-02	2.19E+00	2.06E+00	5.63E+00
3252	484863.09	3847377.25	0.54577	0.29938	0.39442	0.31296	1.35	0.265	0.302	0.29938	3.80E+00	5.53E-01	4.11E-05	1.10E-02	4.23E-01	2.49E-02	2.14E+00	2.04E+00	4.92E+00
3253	485363.09	3847377.25	0.53609	0.29699	0.40372	0.29758	1.367	0.241	0.2994	0.29699	3.74E+00	5.49E-01	4.20E-05	1.05E-02	4.28E-01	2.27E-02	2.12E+00	2.02E+00	4.85E+00
3254	485863.09	3847377.25	0.52941	0.29515	0.38911	0.30508	0.723	0.257	0.2976	0.29515	3.69E+00	5.45E-01	4.05E-05	1.07E-02	2.27E-01	2.42E-02	2.11E+00	2.01E+00	4.60E+00
3255	486363.09	3847377.25	0.53542	0.29379	0.37954	0.29242	0.626	0.281	0.2963	0.29379	3.73E+00	5.43E-01	3.95E-05	1.03E-02	1.96E-01	2.64E-02	2.10E+00	2.00E+00	4.61E+00
3256	486863.09	3847377.25	0.54357	0.28456	0.30963	0.26299	0.656	0.328	0.2872	0.28456	3.79E+00	5.26E-01	3.22E-05	9.26E-03	2.05E-01	3.08E-02	2.04E+00	1.93E+00	4.66E+00
3257	487363.09	3847377.25	0.56339	0.28332	0.37829	0.24929	0.922	0.367	0.2861	0.28332	3.93E+00	5.23E-01	3.94E-05	8.77E-03	2.89E-01	3.45E-02	2.03E+00	1.93E+00	4.88E+00
3258	487863.09	3847377.25	0.52445	0.2792	0.33915	0.23984	1.359	0.36	0.2821	0.2792	3.66E+00	5.16E-01	3.53E-05	8.44E-03	4.26E-01	3.39E-02	2.00E+00	1.90E+00	4.74E+00
3259	488363.09	3847377.25	0.51721	0.27473	0.25593	0.255	1.759	0.333	0.2775	0.27473	3.61E+00	5.07E-01	2.66E-05	8.98E-03	5.51E-01	3.13E-02	1.97E+00	1.87E+00	4.80E+00
3260	488863.09	3847377.25	0.45364	0.27066	0.26248	0.29164	1.292	0.287	0.2733	0.27066	3.16E+00	5.00E-01	2.73E-05	1.03E-02	4.05E-01	2.70E-02	1.94E+00	1.84E+00	4.20E+00
3261	489363.09	3847377.25	0.41245	0.26671	0.3134	0.35309	0.82	0.244	0.2692	0.26671	2.88E+00	4.93E-01	3.26E-05	1.24E-02	2.57E-01	2.29E-02	1.91E+00	1.81E+00	3.75E+00
3262	489863.09	3847377.25	0.35618	0.24202	0.28516	0.34246	0.663	0.2	0.2439	0.24202	2.48E+00	4.47E-01	2.97E-05	1.21E-02	2.08E-01	1.88E-02	1.73E+00	1.65E+00	3.25E+00
3263	490363.09	3847377.25	0.33894	0.22529	0.25416	0.31677	0.776	0.205	0.2264	0.22529	2.36E+00	4.16E-01	2.65E-05	1.11E-02	2.43E-01	1.93E-02	1.60E+00	1.53E+00	3.12E+00
3264	490863.09	3847377.25	0.33404	0.22308	0.26314	0.30605	0.856	0.195	0.2232	0.22308	2.33E+00	4.12E-01	2.74E-05	1.08E-02	2.68E-01	1.84E-02	1.58E+00	1.52E+00	3.10E+00
3265	491363.09	3847377.25	0.32478	0.22088	0.27161	0.32031	0.706	0.191	0.2204	0.22088	2.26E+00	4.08E-01	2.83E-05	1.13E-02	2.21E-01	1.80E-02	1.56E+00	1.50E+00	2.98E+00
3266	491863.09	3847377.25	0.31704	0.2185	0.23079	0.33483	0.608	0.197	0.2187	0.2185	2.21E+00	4.04E-01	2.40E-05	1.18E-02	1.91E-01	1.85E-02	1.55E+00	1.49E+00	2.90E+00
3267	492363.09	3847377.25	0.30777	0.21726	0.18086	0.29756	0.615	0.173	0.2188	0.21726	2.15E+00	4.01E-01	1.88E-05	1.05E-02	1.93E-01	1.63E-02	1.55E+00	1.48E+00	2.84E+00
3268	492863.09	3847377.25	0.30282	0.21741	0.20313	0.25574	0.568	0.172	0.219	0.21741	2.11E+00	4.02E-01	2.11E-05	9.00E-03	1.78E-01	1.62E-02	1.55E+00	1.48E+00	2.79E+00
3269	493363.09	3847377.25	0.30827	0.21769	0.23953	0.29242	0.748	0.18	0.2193	0.21769	2.15E+00	4.02E-01	2.49E-05	1.03E-02	2.34E-01	1.69E-02	1.55E+00	1.48E+00	2.89E+00
3270	493863.09	3847377.25	0.31647	0.21781	0.21532	0.28376	0.836	0.181	0.2194	0.21781	2.21E+00	4.02E-01	2.24E-05	9.99E-03	2.62E-01	1.70E-02	1.55E+00	1.48E+00	2.97E+00
3271	494363.09	3847377.25	0.32678	0.21774	0.18267	0.26314	0.833	0.193	0.2193	0.21774	2.28E+00	4.02E-01	1.90E-05	9.26E-03	2.61E-01	1.81E-02	1.55E+00	1.48E+00	3.04E+00
3272	494863.09	3847377.25	0.3451	0.21761	0.18018	0.22686	0.972	0.202	0.2189	0.21761	2.41E+00	4.02E-01	1.88E-05	7.98E-03	3.05E-01	1.89E-02	1.55E+00	1.48E+00	3.21E+00
3273	495363.09	3847377.25	0.3606	0.21757	0.20637	0.21632	1.086	0.216	0.2186	0.21757	2.51E+00	4.02E-01	2.15E-05	7.61E-03	3.40E-01	2.03E-02	1.55E+00	1.48E+00	3.35E+00
3274	495863.09	3847377.25	0.36935	0.21764	0.21382	0.21504	0.997	0.21	0.2185	0.21764	2.57E+00	4.02E-01	2.23E-05	7.57E-03	3.12E-01	1.97E-02	1.55E+00	1.48E+00	3.38E+00
3275	496363.09	3847377.25	0.36751	0.21764	0.19885	0.21139	0.759	0.202	0.2187	0.21764	2.56E+00	4.02E-01	2.07E-05	7.44E-03	2.38E-01	1.90E-02	1.55E+00	1.48E+00	3.30E+00
3276	496863.09	3847377.25	0.3544	0.21737	0.18907	0.24347	0.83	0.204	0.2194	0.21737	2.47E+00	4.01E-01	1.97E-05	8.57E-03	2.60E-01	1.92E-02	1.55E+00	1.48E+00	3.24E+00
3277	497363.09	3847377.25	0.33053	0.21816	0.20573	0.27501	0.807	0.241	0.2219	0.21816	2.30E+00	4.03E-01	2.14E-05	9.68E-03	2.53E-01	2.27E-02	1.57E+00	1.48E+00	3.08E+00
3278	497863.09	3847377.25	0.38341	0.22904	0.28747	0.29178	0.875	0.236	0.2348	0.22904	2.67E+00	4.23E-01	2.99E-05	1.03E-02	2.74E-01	2.22E-02	1.66E+00	1.56E+00	3.51E+00
3279	498363.09	3847377.25	0.41058	0.23089	0.34433	0.3041	0.871	0.225	0.2381	0.23089	2.86E+00	4.26E-01	3.58E-05	1.07E-02	2.73E-01	2.11E-02	1.69E+00	1.57E+00	3.71E+00
3280	471363.09	3847877.25	1.01877	1.82697	0.98973	0.60532	1.208	0.672	1.841	1.82697	7.10E+00	3.37E+00	1.03E-04	2.13E-02	3.79E-01	6.31E-02	1.30E+01	1.24E+01	1.16E+01
3281	471863.09	3847877.25	1.00316	1.88949	1.13383	0.71924	1.02	0.664	1.8275	1.88949	6.99E+00	3.49E+00	1.18E-04	2.53E-02	3.20E-01	6.24E-02	1.29E+01	1.28E+01	1.10E+01
3282	472363.09	3847877.25	1.0014	2.3262	1.07005	0.79988	1.121	0.676	2.3429	2.3262	6.98E+00	4.30E+00	1.11E-04	2.82E-02	3.51E-01	6.36E-02	1.66E+01	1.58E+01	1.25E+01
3283	472863.09	3847877.25	1.05764	2.91784	0.8034	0.78574	1.379	0.671	2.9385	2.91784	7.37E+00	5.39E+00	8.36E-05	2.77E-02	4.32E-01	6.31E-02	2.08E+01	1.98E+01	1.43E+01
3284	473363.09	3847877.25	1.14393	4.0032	0.49002	0.74585	1.505	0.714	4.0394	4.0032	7.98E+00	7.39E+00	5.10E-05	2.63E-02	4.71E-01	6.71E-02	2.86E+01	2.72E+01	1.73E+01
3285	473863.09	3847877.25	1.33981	27.38794	0.29951	0.72909	1.382	0.751	28.799	27.38794	9.34E+00	5.06E+01	3.12E-05	2.57E-02	4.33E-01	7.06E-02	2.04E+02	1.86E+02	7.83E+01
3286	474363.09	3847877.25	1.20296	2.73597	0.44546	0.47137	0.822	0.618	2.7686	2.73597	8.39E+00	5.05E+00	4.64E-05	1.66E-02	2.58E-01	5.81E-02	1.96E+01	1.86E+01	1.48E+01
3287	474863.09	3847877.25	1.30061	2.67986	0.82164	0.41011	0.673	0.545	2.7173	2.67986	9.07E+00	4.95E+00	8.55E-05	1.44E-02	2.11E-01	5.12E-02	1.93E+01	1.82E+01	1.53E+01
3288	475363.09	3847877.25	1.28986	1.94196	0.83923	0.46736	0.788	0.508	1.9611	1.94196	8.99E+00	3.59E+00	8.74E-05	1.64E-02	2.47E-01	4.77E-02	1.39E+01	1.32E+01	1.36E+01
3289	475863.09	3847877.25	1.17653	1.63559	0.64195	0.86951	1.098	0.634	1.7807	1.63559	8.20E+00	3.02E+00	6.68E-05	3.06E-02	3.44E-01	5.96E-02	1.26E+01	1.11E+01	1.32E+01
3290	476363.09	3847877.25	1.30704	1.51399	0.5686	1.00697	1.704	0.634	1.6421	1.51399	9.11E+00	2.80E+00	5.92E-05	3.54E-02	5.34E-01	5.96E-02	1.16E+01	1.03E+01	1.39E+01
3291	476863.09	3847877.25	1.4774	1.32028	0.44752	0.78273	1.697	0.801	1.3528	1.32028	1.03E+01	2.44E+00	4.66E-05	2.75E-02	5.32E-01	7.53E-02	9.58E+00	8.98E+00	1.40E+01
3292	477363.09	3847877.25	1.77526	1.45699	0.36056	0.52887	1.367	0.857	1.2049	1.45699	1.24E+01	2.69E+00	3.75E-05	1.86E-02	4.28E-01	8.06E-02	8.54E+00	9.91E+00	1.42E+01
3293	477863.09	3847877.25	2.05709	1.43832	0.38036	0.46777	0.934	0.717	1.4042	1.43832	1.43E+01	2.66E+00	3.96E-05	1.65E-02	2.93E-01	6.74E-02	9.95E+00	9.78E+00	1.75E+01
3294	478363.09	3847877.25	1.8804	1.06133	0.3532	0.69453	0.667	0.702	1.2456	1.06133	1.31E+01	1.96E+00	3.68E-05	2.44E-02	2.09E-01	6.60E-02	8.83E+00	7.22E+00	1.70E+01
3295	478863.09	3847877.25	1.60981	0.92377	0.32358	0.8923	0.858	0.701	1.1056	0.92377	1.12E+01	1.71E+00	3.37E-05	3.14E-02	2.69E-01	6.59E-02	7.83E+00	6.28E+00	1.48E+01
3296	479363.09	3847877.25	1.13322	0.69321	0.30374	0.67956	1.563	0.402	0.6997	0.69321	7.90E+00	1.28E+00	3.16E-05	2.39E-02	4.90E-01	3.78E-02	4.96E+00	4.71E+00	9.98E+00
3297	479863.09	3847877.25	0.65467	0.37741	0.29914	0.31768	1.029	0.254	0.3741	0.37741	4.56E+00	6.97E-01	3.11E-05	1.12E-02	3.22E-01	2.39E-02	2.65E+00	2.57E+00	5.70E+00
3298	480363.09	3847877.25	0.91177	0.4322	0.33319	0.28617	0.756	0.272	0.4117	0.4322	6.36E+00	7.98E-01	3.47E-05	1.01E-02	2.37E-01	2.56E-02	2.92E+00	2.94E+00	7.41E+00
3299	480863.09	3847877.25	0.85269	0.39467	0.37257	0.26934	0.565	0.302	0.3672	0.39467	5.94E+00	7.29E-01	3.88E-05	9.48E-03	1.77E-01	2.84E-02	2.60E+00	2.68E+00	6.81E+00
3300	481363.09	3847877.25	0.88524	0.39808	0.44728	0.29198	0.501	0.312	0.3547	0.39808	6.17E+00	7.35E-01	4.66E-05	1.03E-02	1.57E-01	2.93E-02	2.51E+00	2.71E+00	6.91E+00
3301	481863.09	3847877.25	1.23734	0.49099	0.36813	0.4131	0.657	0.366	0.4958	0.49099	8.63E+00	9.07E-01	3.83E-05	1.45E-02	2.06E-01	3.44E-02	3.51E+00	3.34E+00	9.96E+00
3302	482363.09	3847877.25	1.04088	0.43728	0.33944	0.37223	0.906	0.344	0.4413	0.43728	7.26E+00	8.08E-01	3.53E-05	1.31E-02	2.84E-01	3.24E-02	3.13E+00	2.97E+00	8.55E+00

3303	482863.09	3847877.25	0.87283	0.37013	0.3131	0.33395	0.846	0.333	0.3732	0.37013	6.09E+00	6.84E-01	3.26E-05	1.18E-02	2.65E-01	3.13E-02	2.64E+00	2.52E+00	7.20E+00
3304	483363.09	3847877.25	0.90565	0.33062	0.39062	0.2976	0.722	0.354	0.3375	0.33062	6.31E+00	6.11E-01	4.07E-05	1.05E-02	2.26E-01	3.33E-02	2.39E+00	2.25E+00	7.34E+00
3305	483863.09	3847877.25	0.93885	0.31593	0.39221	0.30808	0.829	0.366	0.3255	0.31593	6.55E+00	5.83E-01	4.08E-05	1.08E-02	2.60E-01	3.44E-02	2.31E+00	2.15E+00	7.59E+00
3306	484363.09	3847877.25	0.92501	0.31878	0.40798	0.32062	1.178	0.333	0.3239	0.31878	6.45E+00	5.89E-01	4.25E-05	1.13E-02	3.69E-01	3.13E-02	2.30E+00	2.17E+00	7.58E+00
3307	484863.09	3847877.25	0.80693	0.31048	0.39921	0.32611	1.389	0.29	0.3132	0.31048	5.63E+00	5.73E-01	4.16E-05	1.15E-02	4.35E-01	2.73E-02	2.22E+00	2.11E+00	6.78E+00
3308	485363.09	3847877.25	0.66089	0.31178	0.435	0.35347	1.504	0.27	0.3146	0.31178	4.61E+00	5.76E-01	4.53E-05	1.24E-02	4.71E-01	2.54E-02	2.23E+00	2.12E+00	5.80E+00
3309	485863.09	3847877.25	0.61575	0.31372	0.39515	0.33716	1.081	0.267	0.3166	0.31372	4.29E+00	5.79E-01	4.11E-05	1.19E-02	3.39E-01	2.51E-02	2.24E+00	2.13E+00	5.36E+00
3310	486363.09	3847877.25	0.53697	0.31373	0.40745	0.30671	0.67	0.286	0.3167	0.31373	3.74E+00	5.79E-01	4.24E-05	1.08E-02	2.10E-01	2.69E-02	2.24E+00	2.13E+00	4.68E+00
3311	486863.09	3847877.25	0.54829	0.3095	0.38203	0.28642	0.699	0.344	0.3124	0.3095	3.82E+00	5.72E-01	3.98E-05	1.01E-02	2.19E-01	3.24E-02	2.21E+00	2.10E+00	4.76E+00
3312	487363.09	3847877.25	0.57553	0.30462	0.3999	0.25988	0.949	0.372	0.3075	0.30462	4.01E+00	5.63E-01	4.16E-05	9.15E-03	2.97E-01	3.50E-02	2.18E+00	2.07E+00	5.02E+00
3313	487863.09	3847877.25	0.57611	0.29704	0.37355	0.24319	1.431	0.375	0.3001	0.29704	4.02E+00	5.49E-01	3.89E-05	8.56E-03	4.48E-01	3.53E-02	2.13E+00	2.02E+00	5.16E+00
3314	488363.09	3847877.25	0.598	0.29655	0.28335	0.25921	1.821	0.381	0.2996	0.29655	4.17E+00	5.48E-01	2.95E-05	9.12E-03	5.71E-01	3.58E-02	2.12E+00	2.02E+00	5.44E+00
3315	488863.09	3847877.25	0.60285	0.29405	0.3	0.30086	1.271	0.327	0.2969	0.29405	4.20E+00	5.43E-01	3.12E-05	1.06E-02	3.98E-01	3.07E-02	2.10E+00	2.00E+00	5.29E+00
3316	489363.09	3847877.25	0.47755	0.28906	0.30706	0.37999	0.842	0.266	0.2918	0.28906	3.33E+00	5.34E-01	3.20E-05	1.34E-02	2.64E-01	2.50E-02	2.07E+00	1.97E+00	4.27E+00
3317	489863.09	3847877.25	0.61087	0.29135	0.30622	0.43684	0.971	0.226	0.2942	0.29135	4.26E+00	5.38E-01	3.19E-05	1.54E-02	3.04E-01	2.12E-02	2.08E+00	1.98E+00	5.24E+00
3318	490363.09	3847877.25	0.46982	0.28538	0.31034	0.39323	1.088	0.22	0.2881	0.28538	3.28E+00	5.27E-01	3.23E-05	1.38E-02	3.41E-01	2.07E-02	2.04E+00	1.94E+00	4.28E+00
3319	490863.09	3847877.25	0.43162	0.27453	0.29983	0.37758	1.149	0.221	0.277	0.27453	3.01E+00	5.07E-01	3.12E-05	1.33E-02	3.60E-01	2.08E-02	1.96E+00	1.87E+00	4.01E+00
3320	491363.09	3847877.25	0.39365	0.24581	0.24759	0.34205	0.648	0.225	0.2477	0.24581	2.74E+00	4.54E-01	2.58E-05	1.20E-02	2.03E-01	2.11E-02	1.76E+00	1.67E+00	3.52E+00
3321	491863.09	3847877.25	0.3395	0.24214	0.20136	0.35013	0.676	0.211	0.244	0.24214	2.37E+00	4.47E-01	2.10E-05	1.23E-02	2.12E-01	1.98E-02	1.73E+00	1.65E+00	3.14E+00
3322	492363.09	3847877.25	0.3148	0.23992	0.2003	0.31921	0.652	0.194	0.2417	0.23992	2.19E+00	4.43E-01	2.09E-05	1.12E-02	2.04E-01	1.83E-02	1.71E+00	1.63E+00	2.95E+00
3323	492863.09	3847877.25	0.31189	0.23944	0.23392	0.28044	0.7	0.204	0.2412	0.23944	2.17E+00	4.42E-01	2.44E-05	9.87E-03	2.19E-01	1.91E-02	1.71E+00	1.63E+00	2.95E+00
3324	493363.09	3847877.25	0.31829	0.23863	0.2419	0.29295	0.85	0.184	0.2403	0.23863	2.22E+00	4.41E-01	2.52E-05	1.03E-02	2.66E-01	1.73E-02	1.70E+00	1.62E+00	3.03E+00
3325	493863.09	3847877.25	0.32988	0.23769	0.19284	0.26817	0.85	0.192	0.2392	0.23769	2.30E+00	4.39E-01	2.01E-05	9.44E-03	2.66E-01	1.81E-02	1.69E+00	1.62E+00	3.11E+00
3326	494363.09	3847877.25	0.34772	0.23682	0.1852	0.25143	0.949	0.203	0.238	0.23682	2.42E+00	4.37E-01	1.93E-05	8.85E-03	2.97E-01	1.91E-02	1.69E+00	1.61E+00	3.26E+00
3327	494863.09	3847877.25	0.36355	0.23605	0.202	0.21167	1.111	0.208	0.2369	0.23605	2.53E+00	4.36E-01	2.10E-05	7.45E-03	3.48E-01	1.95E-02	1.68E+00	1.61E+00	3.42E+00
3328	495363.09	3847877.25	0.37296	0.23516	0.21355	0.21916	1.062	0.221	0.2363	0.23516	2.60E+00	4.34E-01	2.22E-05	7.71E-03	3.33E-01	2.07E-02	1.67E+00	1.60E+00	3.47E+00
3329	495863.09	3847877.25	0.34688	0.23393	0.18223	0.20647	0.811	0.214	0.2362	0.23393	2.42E+00	4.32E-01	1.90E-05	7.27E-03	2.54E-01	2.01E-02	1.67E+00	1.59E+00	3.21E+00
3330	496363.09	3847877.25	0.35755	0.23237	0.19663	0.2344	0.715	0.22	0.2364	0.23237	2.49E+00	4.29E-01	2.05E-05	8.25E-03	2.24E-01	2.06E-02	1.68E+00	1.58E+00	3.27E+00
3331	496863.09	3847877.25	0.33335	0.2307	0.24242	0.26934	0.829	0.23	0.2366	0.2307	2.32E+00	4.26E-01	2.52E-05	9.48E-03	2.60E-01	2.16E-02	1.68E+00	1.57E+00	3.15E+00
3332	497363.09	3847877.25	0.32885	0.2294	0.3124	0.29863	0.847	0.25	0.2365	0.2294	2.29E+00	4.24E-01	3.25E-05	1.05E-02	2.66E-01	2.35E-02	1.68E+00	1.56E+00	3.13E+00
3333	497863.09	3847877.25	0.43684	0.24114	0.3611	0.31268	0.9	0.238	0.2493	0.24114	3.05E+00	4.45E-01	3.76E-05	1.10E-02	2.82E-01	2.23E-02	1.77E+00	1.64E+00	3.93E+00
3334	498363.09	3847877.25	0.46242	0.25686	0.35685	0.32803	0.795	0.225	0.2653	0.25686	3.22E+00	4.74E-01	3.72E-05	1.15E-02	2.49E-01	2.11E-02	1.88E+00	1.75E+00	4.11E+00
3335	471363.09	3848377.25	1.09417	1.95787	0.8712	0.52685	1.215	0.661	1.9699	1.95787	7.63E+00	3.62E+00	9.07E-05	1.85E-02	3.81E-01	6.21E-02	1.40E+01	1.33E+01	1.24E+01
3336	471863.09	3848377.25	1.14737	2.23184	0.96673	0.58248	1.32	0.714	2.246	2.23184	8.00E+00	4.12E+00	1.01E-04	2.05E-02	4.14E-01	6.71E-02	1.59E+01	1.52E+01	1.34E+01
3337	472363.09	3848377.25	1.15514	2.59126	1.16106	0.68665	1.25	0.698	2.6064	2.59126	8.05E+00	4.79E+00	1.21E-04	2.42E-02	3.92E-01	6.56E-02	1.85E+01	1.76E+01	1.42E+01
3338	472863.09	3848377.25	1.1453	2.82809	1.24073	0.82558	1.105	0.72	2.8493	2.82809	7.98E+00	5.22E+00	1.29E-04	2.91E-02	3.46E-01	6.77E-02	2.02E+01	1.92E+01	1.46E+01
3339	473363.09	3848377.25	1.13594	3.04653	1.03455	0.87674	1.323	0.731	3.0706	3.04653	7.92E+00	5.63E+00	1.08E-04	3.09E-02	4.14E-01	6.87E-02	2.18E+01	2.07E+01	1.51E+01
3340	473863.09	3848377.25	1.26309	3.87053	0.6846	0.81422	1.557	0.74	3.9005	3.87053	8.81E+00	7.15E+00	7.13E-05	2.87E-02	4.88E-01	6.96E-02	2.76E+01	2.63E+01	1.79E+01
3341	474363.09	3848377.25	1.74143	8.15537	0.36754	0.81066	1.616	0.817	8.4437	8.15537	1.21E+01	1.51E+01	3.83E-05	2.85E-02	5.06E-01	7.68E-02	5.98E+01	5.55E+01	3.22E+01
3342	474863.09	3848377.25	1.29996	5.46776	0.43393	0.67348	1.17	0.762	5.5319	5.46776	9.06E+00	1.01E+01	4.52E-05	2.37E-02	3.67E-01	7.16E-02	3.92E+01	3.72E+01	2.16E+01
3343	475363.09	3848377.25	1.42076	3.45978	0.92529	0.48553	0.822	0.633	3.5128	3.45978	9.91E+00	6.39E+00	9.63E-05	1.71E-02	2.58E-01	5.95E-02	2.49E+01	2.35E+01	1.80E+01
3344	475863.09	3848377.25	1.38003	2.47314	0.97552	0.46035	0.778	0.525	2.4979	2.47314	9.62E+00	4.57E+00	1.02E-04	1.62E-02	2.44E-01	4.94E-02	1.77E+01	1.68E+01	1.54E+01
3345	476363.09	3848377.25	1.27102	1.8423	0.71726	0.82763	1.036	0.638	1.9759	1.8423	8.86E+00	3.40E+00	7.47E-05	2.91E-02	3.25E-01	6.00E-02	1.40E+01	1.25E+01	1.42E+01
3346	476863.09	3848377.25	1.50748	1.74785	0.64053	1.11531	1.712	0.718	1.9736	1.74785	1.05E+01	3.23E+00	6.67E-05	3.93E-02	5.37E-01	6.75E-02	1.40E+01	1.19E+01	1.65E+01
3347	477363.09	3848377.25	1.68459	1.59589	0.47981	0.8765	1.853	0.957	1.7538	1.59589	1.17E+01	2.95E+00	5.00E-05	3.08E-02	5.80E-01	9.00E-02	1.24E+01	1.09E+01	1.70E+01
3348	477863.09	3848377.25	1.92552	1.6898	0.377	0.58781	1.525	0.922	1.4838	1.6898	1.34E+01	3.12E+00	3.92E-05	2.07E-02	4.78E-01	8.66E-02	1.05E+01	1.15E+01	1.62E+01
3349	478363.09	3848377.25	2.21995	1.57713	0.40261	0.56792	1.013	0.766	1.6093	1.57713	1.55E+01	2.91E+00	4.19E-05	2.00E-02	3.17E-01	7.20E-02	1.14E+01	1.07E+01	1.95E+01
3350	478863.09	3848377.25	1.98448	1.07951	0.34984	0.73374	0.694	0.706	1.1955	1.07951	1.38E+01	1.99E+00	3.64E-05	2.58E-02	2.17E-01	6.64E-02	8.47E+00	7.34E+00	1.73E+01
3351	479363.09	3848377.25	1.47229	0.81977	0.31655	0.79275	0.811	0.555	0.9103	0.81977	1.03E+01	1.51E+00	3.30E-05	2.79E-02	2.54E-01	5.21E-02	6.45E+00	5.57E+00	1.30E+01
3352	479863.09	3848377.25	0.49592	0.33604	0.31689	0.31449	0.606	0.27	0.3313	0.33604	3.46E+00	6.21E-01	3.30E-05	1.11E-02	1.90E-01	2.54E-02	2.35E+00	2.29E+00	4.37E+00
3353	480363.09	3848377.25	0.7513	0.428	0.32392	0.3161	0.976	0.27	0.414	0.428	5.24E+00	7.90E-01	3.37E-05	1.11E-02	3.06E-01	2.54E-02	2.93E+00	2.91E+00	6.39E+00
3354	480863.09	3848377.25	1.39018	0.62528	0.38113	0.34253	0.841	0.347	0.5943	0.62528	9.69E+00	1.15E+00	3.97E-05	1.21E-02	2.63E-01	3.26E-02	4.21E+00	4.25E+00	1.11E+01
3355	481363.09	3848377.25	1.58632	0.58286	0.43592	0.39382	0.575	0.382	0.5737	0.58286	1.11E+01	1.08E+00	4.54E-05	1.39E-02	1.80E-01	3.59E-02	4.06E+00	3.96E+00	1.25E+01
3356	481863.09	3848377.25	1.48903	0.57239	0.42266	0.46457	0.551	0.406	0.5783	0.57239	1.04E+01	1.06E+00	4.40E-05	1.64E-02	1.73E-01	3.81E-02	4.10E+00	3.89E+00	1.19E+01
3357	482363.09	3848377.25	1.27002	0.5603	0.34355	0.45143	0.984	0.389	0.5661	0.5603	8.85E+00	1.03E+00	3.58E-05	1.59E-02	3.08E-01	3.66E-02	4.01E+00	3.81E+00	1.05E+01
3358	482863.09	3848377.25	1.02467	0.43432	0.36033	0.37531	1.007	0.37	0.4388	0.43432	7.14E+00	8.02E-01	3.75E-05	1.32E-02	3.15E-01	3.48E-02	3.11E+00	2.95E+00	8.46E+00
3359	483363.09	3848377.25	1.009	0.40959	0.41147	0.37094	0.971	0.377	0.4157	0.40959	7.03E+00	7.56E-01	4.28E-05	1.31E-02	3.04E-01	3.54E-02	2.95E+00	2.79E+00	8.30E+00

3360	483863.09	3848377.25	0.98741	0.38027	0.4081	0.33323	0.777	0.375	0.3835	0.38027	6.88E+00	7.02E-01	4.25E-05	1.17E-02	2.43E-01	3.53E-02	2.72E+00	2.59E+00	8.01E+00
3361	484363.09	3848377.25	0.97926	0.38349	0.44401	0.33081	1.083	0.366	0.3869	0.38349	6.83E+00	7.08E-01	4.62E-05	1.16E-02	3.39E-01	3.44E-02	2.74E+00	2.61E+00	8.05E+00
3362	484863.09	3848377.25	0.92636	0.40544	0.54449	0.35936	1.501	0.387	0.4093	0.40544	6.46E+00	7.49E-01	5.67E-05	1.26E-02	4.70E-01	3.64E-02	2.90E+00	2.76E+00	7.87E+00
3363	485363.09	3848377.25	0.75729	0.3998	0.44294	0.38607	1.573	0.317	0.4035	0.3998	5.28E+00	7.38E-01	4.61E-05	1.36E-02	4.93E-01	2.98E-02	2.86E+00	2.72E+00	6.69E+00
3364	485863.09	3848377.25	0.6487	0.3966	0.42695	0.36427	1.415	0.272	0.4003	0.3966	4.52E+00	7.32E-01	4.44E-05	1.28E-02	4.43E-01	2.56E-02	2.84E+00	2.70E+00	5.88E+00
3365	486363.09	3848377.25	0.61573	0.38823	0.4531	0.36198	0.789	0.303	0.3917	0.38823	4.29E+00	7.17E-01	4.72E-05	1.27E-02	2.47E-01	2.85E-02	2.78E+00	2.64E+00	5.43E+00
3366	486863.09	3848377.25	0.6465	0.38522	0.42889	0.2921	0.746	0.354	0.3887	0.38522	4.51E+00	7.11E-01	4.47E-05	1.03E-02	2.34E-01	3.33E-02	2.75E+00	2.62E+00	5.63E+00
3367	487363.09	3848377.25	0.58428	0.34836	0.39256	0.28391	0.977	0.382	0.3514	0.34836	4.07E+00	6.43E-01	4.09E-05	9.99E-03	3.06E-01	3.59E-02	2.49E+00	2.37E+00	5.19E+00
3368	487863.09	3848377.25	0.6064	0.3372	0.36571	0.25562	1.508	0.387	0.3404	0.3372	4.23E+00	6.23E-01	3.81E-05	9.00E-03	4.72E-01	3.64E-02	2.41E+00	2.29E+00	5.49E+00
3369	488363.09	3848377.25	0.62678	0.33327	0.31656	0.28004	1.882	0.389	0.3363	0.33327	4.37E+00	6.16E-01	3.30E-05	9.86E-03	5.90E-01	3.66E-02	2.38E+00	2.27E+00	5.74E+00
3370	488863.09	3848377.25	0.63116	0.33018	0.2864	0.34075	1.298	0.328	0.3331	0.33018	4.40E+00	6.10E-01	2.98E-05	1.20E-02	4.07E-01	3.08E-02	2.36E+00	2.25E+00	5.57E+00
3371	489363.09	3848377.25	0.62643	0.32817	0.30769	0.43342	1.074	0.276	0.331	0.32817	4.37E+00	6.06E-01	3.20E-05	1.53E-02	3.37E-01	2.59E-02	2.35E+00	2.23E+00	5.46E+00
3372	489863.09	3848377.25	0.61965	0.3268	0.32198	0.48502	1.081	0.234	0.3297	0.3268	4.32E+00	6.04E-01	3.35E-05	1.71E-02	3.39E-01	2.20E-02	2.34E+00	2.22E+00	5.42E+00
3373	490363.09	3848377.25	0.60753	0.32495	0.34557	0.42302	1.198	0.235	0.3277	0.32495	4.24E+00	6.00E-01	3.60E-05	1.49E-02	3.75E-01	2.20E-02	2.32E+00	2.21E+00	5.36E+00
3374	490863.09	3848377.25	0.54923	0.31244	0.29396	0.39329	1.175	0.241	0.3151	0.31244	3.83E+00	5.77E-01	3.06E-05	1.38E-02	3.68E-01	2.26E-02	2.23E+00	2.12E+00	4.92E+00
3375	491363.09	3848377.25	0.4599	0.29059	0.22921	0.38252	0.875	0.228	0.293	0.29059	3.21E+00	5.37E-01	2.39E-05	1.35E-02	2.74E-01	2.14E-02	2.08E+00	1.98E+00	4.15E+00
3376	491863.09	3848377.25	0.45948	0.26828	0.21382	0.36401	0.874	0.215	0.2703	0.26828	3.20E+00	4.95E-01	2.23E-05	1.28E-02	2.74E-01	2.02E-02	1.92E+00	1.82E+00	4.10E+00
3377	492363.09	3848377.25	0.31698	0.25555	0.21436	0.32566	0.645	0.199	0.2573	0.25555	2.21E+00	4.72E-01	2.23E-05	1.15E-02	2.02E-01	1.87E-02	1.82E+00	1.74E+00	3.00E+00
3378	492863.09	3848377.25	0.3199	0.25351	0.24681	0.28699	0.827	0.181	0.255	0.25351	2.23E+00	4.68E-01	2.57E-05	1.01E-02	2.59E-01	1.70E-02	1.81E+00	1.72E+00	3.07E+00
3379	493363.09	3848377.25	0.33262	0.25178	0.23906	0.27671	0.888	0.191	0.2528	0.25178	2.32E+00	4.65E-01	2.49E-05	9.74E-03	2.78E-01	1.79E-02	1.79E+00	1.71E+00	3.17E+00
3380	493863.09	3848377.25	0.34977	0.25032	0.18226	0.26219	0.946	0.204	0.251	0.25032	2.44E+00	4.62E-01	1.90E-05	9.23E-03	2.96E-01	1.92E-02	1.78E+00	1.70E+00	3.30E+00
3381	494363.09	3848377.25	0.34612	0.24885	0.18896	0.23614	1.122	0.211	0.2499	0.24885	2.41E+00	4.60E-01	1.97E-05	8.31E-03	3.51E-01	1.98E-02	1.77E+00	1.69E+00	3.33E+00
3382	494863.09	3848377.25	0.37572	0.24712	0.21053	0.21418	1.123	0.213	0.2494	0.24712	2.62E+00	4.56E-01	2.19E-05	7.54E-03	3.52E-01	2.00E-02	1.77E+00	1.68E+00	3.54E+00
3383	495363.09	3848377.25	0.34905	0.24515	0.20553	0.21527	0.887	0.244	0.2495	0.24515	2.43E+00	4.53E-01	2.14E-05	7.58E-03	2.78E-01	2.29E-02	1.77E+00	1.67E+00	3.30E+00
3384	495863.09	3848377.25	0.33592	0.24321	0.23055	0.23782	0.751	0.236	0.2494	0.24321	2.34E+00	4.49E-01	2.40E-05	8.37E-03	2.35E-01	2.22E-02	1.77E+00	1.65E+00	3.17E+00
3385	496363.09	3848377.25	0.32696	0.24156	0.28615	0.2698	0.761	0.231	0.249	0.24156	2.28E+00	4.46E-01	2.98E-05	9.50E-03	2.38E-01	2.17E-02	1.76E+00	1.64E+00	3.12E+00
3386	496863.09	3848377.25	0.33141	0.24027	0.31117	0.3014	0.749	0.235	0.2482	0.24027	2.31E+00	4.44E-01	3.24E-05	1.06E-02	2.35E-01	2.21E-02	1.76E+00	1.63E+00	3.15E+00
3387	497363.09	3848377.25	0.35097	0.23916	0.31413	0.32427	0.738	0.233	0.2473	0.23916	2.45E+00	4.42E-01	3.27E-05	1.14E-02	2.31E-01	2.19E-02	1.75E+00	1.63E+00	3.28E+00
3388	497863.09	3848377.25	0.48773	0.26179	0.33942	0.33128	0.808	0.229	0.2702	0.26179	3.40E+00	4.84E-01	3.53E-05	1.17E-02	2.53E-01	2.15E-02	1.91E+00	1.78E+00	4.30E+00
3389	498363.09	3848377.25	0.49986	0.26298	0.33506	0.35669	0.79	0.229	0.2705	0.26298	3.48E+00	4.86E-01	3.49E-05	1.26E-02	2.48E-01	2.15E-02	1.92E+00	1.79E+00	4.38E+00
3390	471363.09	3848877.25	0.97534	1.69161	0.84048	0.60471	0.782	0.594	1.6329	1.69161	6.80E+00	3.12E+00	8.75E-05	2.13E-02	2.45E-01	5.58E-02	1.16E+01	1.15E+01	1.03E+01
3391	471863.09	3848877.25	1.0757	1.80956	0.92168	0.57219	1.085	0.65	1.7894	1.80956	7.50E+00	3.34E+00	9.60E-05	2.01E-02	3.40E-01	6.11E-02	1.27E+01	1.23E+01	1.16E+01
3392	472363.09	3848877.25	1.1572	1.96985	1.0205	0.56549	1.312	0.74	1.9841	1.96985	8.07E+00	3.64E+00	1.06E-04	1.99E-02	4.11E-01	6.96E-02	1.41E+01	1.34E+01	1.29E+01
3393	472863.09	3848877.25	1.19819	2.25635	1.16382	0.63149	1.401	0.756	2.2725	2.25635	8.35E+00	4.17E+00	1.21E-04	2.22E-02	4.39E-01	7.11E-02	1.61E+01	1.53E+01	1.38E+01
3394	473363.09	3848877.25	1.24598	2.72253	1.3703	0.79292	1.283	0.752	2.7443	2.72253	8.69E+00	5.03E+00	1.43E-04	2.79E-02	4.02E-01	7.07E-02	1.94E+01	1.85E+01	1.51E+01
3395	473863.09	3848877.25	1.3072	3.5012	1.29498	0.94041	1.281	0.791	3.5259	3.5012	9.11E+00	6.47E+00	1.35E-04	3.31E-02	4.01E-01	7.43E-02	2.50E+01	2.38E+01	1.73E+01
3396	474363.09	3848877.25	1.44586	5.14248	0.96732	0.93114	1.531	0.785	5.1798	5.14248	1.01E+01	9.50E+00	1.01E-04	3.28E-02	4.80E-01	7.38E-02	3.67E+01	3.50E+01	2.19E+01
3397	474863.09	3848877.25	1.88037	9.49638	0.48333	0.88703	1.786	0.846	9.5742	9.49638	1.31E+01	1.75E+01	5.03E-05	3.12E-02	5.59E-01	7.95E-02	6.78E+01	6.46E+01	3.46E+01
3398	475363.09	3848877.25	1.76093	7.10353	0.44825	0.87118	1.598	0.932	7.1532	7.10353	1.23E+01	1.31E+01	4.67E-05	3.07E-02	5.01E-01	8.76E-02	5.07E+01	4.83E+01	2.84E+01
3399	475863.09	3848877.25	1.62617	5.24477	0.96632	0.62862	1.11	0.784	5.3938	5.24477	1.13E+01	9.69E+00	1.01E-04	2.21E-02	3.48E-01	7.37E-02	3.82E+01	3.57E+01	2.40E+01
3400	476363.09	3848877.25	1.52755	3.04406	1.16767	0.49889	0.789	0.561	3.0082	3.04406	1.06E+01	5.62E+00	1.22E-04	1.76E-02	2.47E-01	5.27E-02	2.13E+01	2.07E+01	1.72E+01
3401	476863.09	3848877.25	1.44701	2.12969	0.8689	0.796	1.003	0.656	2.2567	2.12969	1.01E+01	3.93E+00	9.05E-05	2.80E-02	3.14E-01	6.16E-02	1.60E+01	1.45E+01	1.59E+01
3402	477363.09	3848877.25	1.72134	2.4501	0.72575	1.18967	1.689	0.825	2.6493	2.4501	1.20E+01	4.53E+00	7.56E-05	4.19E-02	5.29E-01	7.75E-02	1.88E+01	1.67E+01	1.93E+01
3403	477863.09	3848877.25	1.95362	2.24279	0.52497	0.99791	1.999	1.195	2.3821	2.24279	1.36E+01	4.14E+00	5.47E-05	3.51E-02	6.26E-01	1.12E-01	1.69E+01	1.53E+01	2.02E+01
3404	478363.09	3848877.25	2.12565	2.21388	0.40967	0.66473	1.711	1.022	2.0733	2.21388	1.48E+01	4.09E+00	4.26E-05	2.34E-02	5.36E-01	9.60E-02	1.47E+01	1.51E+01	1.92E+01
3405	478863.09	3848877.25	2.4025	1.82803	0.41971	0.69326	1.129	0.815	1.9315	1.82803	1.67E+01	3.38E+00	4.37E-05	2.44E-02	3.54E-01	7.66E-02	1.37E+01	1.24E+01	2.18E+01
3406	479363.09	3848877.25	2.07954	1.16029	0.34169	0.76971	0.724	0.706	1.2545	1.16029	1.45E+01	2.14E+00	3.56E-05	2.71E-02	2.27E-01	6.63E-02	8.89E+00	7.89E+00	1.80E+01
3407	479863.09	3848877.25	1.57166	0.96987	0.33535	0.85778	0.933	0.57	1.0144	0.96987	1.10E+01	1.79E+00	3.49E-05	3.02E-02	2.92E-01	5.36E-02	7.19E+00	6.59E+00	1.37E+01
3408	480363.09	3848877.25	1.58037	0.92612	0.34517	0.77389	2.403	0.464	0.9355	0.92612	1.10E+01	1.71E+00	3.59E-05	2.72E-02	7.53E-01	4.37E-02	6.63E+00	6.30E+00	1.39E+01
3409	480863.09	3848877.25	1.75556	0.97702	0.50213	0.61616	2.472	0.519	0.9217	0.97702	1.22E+01	1.80E+00	5.23E-05	2.17E-02	7.75E-01	4.87E-02	6.53E+00	6.64E+00	1.48E+01
3410	481363.09	3848877.25	2.06236	0.87517	0.70683	0.55158	0.885	0.547	0.8622	0.87517	1.44E+01	1.62E+00	7.36E-05	1.94E-02	2.77E-01	5.14E-02	6.11E+00	5.95E+00	1.65E+01
3411	481863.09	3848877.25	1.74598	0.73123	0.51595	0.51368	0.574	0.462	0.7381	0.73123	1.22E+01	1.35E+00	5.37E-05	1.81E-02	1.80E-01	4.34E-02	5.23E+00	4.97E+00	1.40E+01
3412	482363.09	3848877.25	1.26448	0.54629	0.35386	0.42261	0.623	0.374	0.5597	0.54629	8.82E+00	1.01E+00	3.68E-05	1.49E-02	1.95E-01	3.52E-02	3.97E+00	3.71E+00	1.03E+01
3413	482863.09	3848877.25	0.94541	0.48765	0.39609	0.36578	0.774	0.348	0.4918	0.48765	6.59E+00	9.01E-01	4.12E-05	1.29E-02	2.42E-01	3.27E-02	3.48E+00	3.32E+00	7.95E+00
3414	483363.09	3848877.25	0.88514	0.46082	0.43324	0.30952	0.764	0.352	0.4643	0.46082	6.17E+00	8.51E-01	4.51E-05	1.09E-02	2.39E-01	3.31E-02	3.29E+00	3.13E+00	7.46E+00
3415	483863.09	3848877.25	0.81392	0.44198	0.42254	0.30965	0.761	0.378	0.4456	0.44198	5.67E+00	8.16E-01	4.40E-05	1.09E-02	2.39E-01	3.55E-02	3.16E+00	3.01E+00	6.93E+00
3416	484363.09	3848877.25	1.05019	0.44214	0.47617	0.34747	0.98	0.421	0.4419	0.44214	7.32E+00	8.17E-01	4.96E-05	1.22E-02	3.07E-01	3.95E-02	3.13E+00	3.01E+00	8.62E+00

3417	484863.09	3848877.25	1.07011	0.49446	0.59712	0.39507	1.95	0.44	0.4992	0.49446	7.46E+00	9.13E-01	6.22E-05	1.39E-02	6.11E-01	4.14E-02	3.54E+00	3.36E+00	9.21E+00
3418	485363.09	3848877.25	0.87768	0.47072	0.5166	0.41001	1.869	0.382	0.4747	0.47072	6.12E+00	8.69E-01	5.38E-05	1.44E-02	5.86E-01	3.59E-02	3.36E+00	3.20E+00	7.79E+00
3419	485863.09	3848877.25	0.71502	0.449	0.44735	0.41499	1.776	0.32	0.4528	0.449	4.98E+00	8.29E-01	4.66E-05	1.46E-02	5.56E-01	3.01E-02	3.21E+00	3.05E+00	6.57E+00
3420	486363.09	3848877.25	0.6283	0.41779	0.49942	0.38119	0.874	0.312	0.4212	0.41779	4.38E+00	7.72E-01	5.20E-05	1.34E-02	2.74E-01	2.93E-02	2.98E+00	2.84E+00	5.61E+00
3421	486863.09	3848877.25	0.65594	0.40425	0.56441	0.31179	0.791	0.361	0.4074	0.40425	4.57E+00	7.47E-01	5.88E-05	1.10E-02	2.48E-01	3.39E-02	2.89E+00	2.75E+00	5.75E+00
3422	487363.09	3848877.25	0.69786	0.39617	0.44597	0.29611	1.053	0.399	0.3992	0.39617	4.87E+00	7.32E-01	4.64E-05	1.04E-02	3.30E-01	3.75E-02	2.83E+00	2.69E+00	6.11E+00
3423	487863.09	3848877.25	0.63773	0.36658	0.38738	0.27755	1.592	0.399	0.3693	0.36658	4.45E+00	6.77E-01	4.03E-05	9.77E-03	4.99E-01	3.75E-02	2.62E+00	2.49E+00	5.79E+00
3424	488363.09	3848877.25	0.65025	0.35475	0.31339	0.29485	1.943	0.4	0.3579	0.35475	4.53E+00	6.55E-01	3.26E-05	1.04E-02	6.09E-01	3.76E-02	2.54E+00	2.41E+00	5.97E+00
3425	488863.09	3848877.25	0.65153	0.35116	0.38012	0.35482	1.328	0.332	0.3543	0.35116	4.54E+00	6.49E-01	3.96E-05	1.25E-02	4.16E-01	3.12E-02	2.51E+00	2.39E+00	5.77E+00
3426	489363.09	3848877.25	0.63408	0.34812	0.37918	0.45718	1.101	0.282	0.3512	0.34812	4.42E+00	6.43E-01	3.95E-05	1.61E-02	3.45E-01	2.65E-02	2.49E+00	2.37E+00	5.57E+00
3427	489863.09	3848877.25	0.61854	0.34518	0.3474	0.50964	1.166	0.248	0.3482	0.34518	4.31E+00	6.38E-01	3.62E-05	1.79E-02	3.65E-01	2.33E-02	2.47E+00	2.35E+00	5.48E+00
3428	490363.09	3848877.25	0.59199	0.3414	0.3546	0.42787	1.328	0.248	0.3442	0.3414	4.13E+00	6.31E-01	3.69E-05	1.51E-02	4.16E-01	2.33E-02	2.44E+00	2.32E+00	5.33E+00
3429	490863.09	3848877.25	0.5688	0.32335	0.25579	0.41285	1.169	0.241	0.3257	0.32335	3.97E+00	5.97E-01	2.66E-05	1.45E-02	3.66E-01	2.26E-02	2.31E+00	2.20E+00	5.07E+00
3430	491363.09	3848877.25	0.46567	0.29459	0.23237	0.39154	0.938	0.223	0.2972	0.29459	3.25E+00	5.44E-01	2.42E-05	1.38E-02	2.94E-01	2.10E-02	2.11E+00	2.00E+00	4.22E+00
3431	491863.09	3848877.25	0.41468	0.26664	0.22627	0.35689	0.731	0.207	0.2683	0.26664	2.89E+00	4.92E-01	2.36E-05	1.26E-02	2.29E-01	1.94E-02	1.90E+00	1.81E+00	3.73E+00
3432	492363.09	3848877.25	0.32153	0.25756	0.23198	0.32802	0.789	0.195	0.2585	0.25756	2.24E+00	4.76E-01	2.42E-05	1.15E-02	2.47E-01	1.83E-02	1.83E+00	1.75E+00	3.07E+00
3433	492863.09	3848877.25	0.33486	0.25581	0.26583	0.28025	0.921	0.189	0.2563	0.25581	2.33E+00	4.72E-01	2.77E-05	9.86E-03	2.89E-01	1.77E-02	1.82E+00	1.74E+00	3.20E+00
3434	493363.09	3848877.25	0.33617	0.25404	0.20061	0.26966	0.969	0.204	0.2549	0.25404	2.34E+00	4.69E-01	2.09E-05	9.49E-03	3.04E-01	1.92E-02	1.81E+00	1.73E+00	3.22E+00
3435	493863.09	3848877.25	0.34589	0.25199	0.184	0.25688	1.047	0.219	0.2544	0.25199	2.41E+00	4.65E-01	1.92E-05	9.04E-03	3.28E-01	2.06E-02	1.80E+00	1.71E+00	3.32E+00
3436	494363.09	3848877.25	0.35247	0.24973	0.23811	0.22897	1.176	0.234	0.2543	0.24973	2.46E+00	4.61E-01	2.48E-05	8.06E-03	3.68E-01	2.20E-02	1.80E+00	1.70E+00	3.42E+00
3437	494863.09	3848877.25	0.3514	0.24756	0.28438	0.22686	0.979	0.245	0.2541	0.24756	2.45E+00	4.57E-01	2.96E-05	7.98E-03	3.07E-01	2.30E-02	1.80E+00	1.68E+00	3.36E+00
3438	495363.09	3848877.25	0.34318	0.24578	0.3009	0.24619	0.793	0.254	0.2534	0.24578	2.39E+00	4.54E-01	3.13E-05	8.66E-03	2.48E-01	2.39E-02	1.80E+00	1.67E+00	3.25E+00
3439	495863.09	3848877.25	0.35103	0.24441	0.31112	0.26359	0.793	0.237	0.2525	0.24441	2.45E+00	4.51E-01	3.24E-05	9.28E-03	2.48E-01	2.23E-02	1.79E+00	1.66E+00	3.31E+00
3440	496363.09	3848877.25	0.3662	0.24322	0.31364	0.28795	0.779	0.232	0.2514	0.24322	2.55E+00	4.49E-01	3.27E-05	1.01E-02	2.44E-01	2.18E-02	1.78E+00	1.65E+00	3.41E+00
3441	496863.09	3848877.25	0.38018	0.24197	0.29424	0.33324	0.761	0.235	0.2499	0.24197	2.65E+00	4.47E-01	3.06E-05	1.17E-02	2.38E-01	2.21E-02	1.77E+00	1.65E+00	3.49E+00
3442	497363.09	3848877.25	0.43199	0.24059	0.29693	0.33506	0.67	0.252	0.2475	0.24059	3.01E+00	4.44E-01	3.09E-05	1.18E-02	2.10E-01	2.37E-02	1.75E+00	1.64E+00	3.82E+00
3443	497863.09	3848877.25	0.51561	0.24682	0.33375	0.35894	0.85	0.231	0.2524	0.24682	3.59E+00	4.56E-01	3.47E-05	1.26E-02	2.66E-01	2.17E-02	1.79E+00	1.68E+00	4.46E+00
3444	498363.09	3848877.25	0.51638	0.25985	0.36392	0.38064	0.976	0.242	0.2641	0.25985	3.60E+00	4.80E-01	3.79E-05	1.34E-02	3.06E-01	2.28E-02	1.87E+00	1.77E+00	4.53E+00
3445	471363.09	3849377.25	0.86485	1.16369	0.78588	0.56183	0.708	0.599	1.0956	1.16369	6.03E+00	2.15E+00	8.18E-05	1.98E-02	2.22E-01	5.63E-02	7.76E+00	7.91E+00	8.33E+00
3446	471863.09	3849377.25	0.95379	1.37319	0.90646	0.64577	0.632	0.649	1.2868	1.37319	6.65E+00	2.54E+00	9.44E-05	2.27E-02	1.98E-01	6.10E-02	9.12E+00	9.34E+00	9.25E+00
3447	472363.09	3849377.25	1.05489	1.48854	0.938	0.66506	0.879	0.673	1.4267	1.48854	7.35E+00	2.75E+00	9.77E-05	2.34E-02	2.76E-01	6.33E-02	1.01E+01	1.01E+01	1.05E+01
3448	472863.09	3849377.25	1.15906	1.57474	1.06999	0.62369	1.195	0.745	1.5581	1.57474	8.08E+00	2.91E+00	1.11E-04	2.20E-02	3.74E-01	7.00E-02	1.10E+01	1.07E+01	1.18E+01
3449	473363.09	3849377.25	1.22508	1.8101	1.21466	0.61211	1.423	0.812	1.829	1.8101	8.54E+00	3.34E+00	1.26E-04	2.15E-02	4.46E-01	7.63E-02	1.30E+01	1.23E+01	1.31E+01
3450	473863.09	3849377.25	1.28199	2.17331	1.40493	0.71918	1.478	0.793	2.194	2.17331	8.94E+00	4.01E+00	1.46E-04	2.53E-02	4.63E-01	7.45E-02	1.55E+01	1.48E+01	1.43E+01
3451	474363.09	3849377.25	1.33389	2.60461	1.52858	0.92397	1.396	0.823	2.6276	2.60461	9.30E+00	4.81E+00	1.59E-04	3.25E-02	4.37E-01	7.74E-02	1.86E+01	1.77E+01	1.56E+01
3452	474863.09	3849377.25	1.34563	3.09689	1.2586	1.04422	1.51	0.864	3.1236	3.09689	9.38E+00	5.72E+00	1.31E-04	3.68E-02	4.73E-01	8.12E-02	2.21E+01	2.11E+01	1.68E+01
3453	475363.09	3849377.25	1.45083	3.98828	0.79095	0.964	1.753	0.863	4.0231	3.98828	1.01E+01	7.37E+00	8.23E-05	3.39E-02	5.49E-01	8.11E-02	2.85E+01	2.71E+01	1.95E+01
3454	475863.09	3849377.25	1.71753	7.18041	0.58247	0.89106	1.775	1.01	7.2315	7.18041	1.20E+01	1.33E+01	6.06E-05	3.14E-02	5.56E-01	9.49E-02	5.12E+01	4.88E+01	2.83E+01
3455	476363.09	3849377.25	1.82186	8.61939	1.0359	0.78877	1.502	0.983	8.7003	8.61939	1.27E+01	1.59E+01	1.08E-04	2.78E-02	4.71E-01	9.24E-02	6.16E+01	5.86E+01	3.22E+01
3456	476863.09	3849377.25	1.77058	13.48392	1.44004	0.62074	1.053	0.676	13.717	13.48392	1.23E+01	2.49E+01	1.50E-04	2.18E-02	3.30E-01	6.36E-02	9.72E+01	9.17E+01	4.32E+01
3457	477363.09	3849377.25	1.69517	5.90808	1.11874	0.7621	0.987	0.678	5.9689	5.90808	1.18E+01	1.09E+01	1.16E-04	2.68E-02	3.09E-01	6.38E-02	4.23E+01	4.02E+01	2.52E+01
3458	477863.09	3849377.25	1.97464	3.83892	0.77777	1.2714	1.631	0.921	3.8746	3.83892	1.38E+01	7.09E+00	8.10E-05	4.47E-02	5.11E-01	8.66E-02	2.75E+01	2.61E+01	2.28E+01
3459	478363.09	3849377.25	2.24619	2.91896	0.57304	1.12296	2.116	1.438	2.892	2.91896	1.57E+01	5.39E+00	5.97E-05	3.95E-02	6.63E-01	1.35E-01	2.05E+01	1.98E+01	2.25E+01
3460	478863.09	3849377.25	2.36364	2.39969	0.45521	0.73719	1.894	1.006	2.2754	2.39969	1.65E+01	4.43E+00	4.74E-05	2.59E-02	5.93E-01	9.45E-02	1.61E+01	1.63E+01	2.14E+01
3461	479363.09	3849377.25	2.64454	2.20062	0.42881	0.83081	1.271	0.87	2.3669	2.20062	1.84E+01	4.06E+00	4.46E-05	2.92E-02	3.98E-01	8.18E-02	1.68E+01	1.50E+01	2.48E+01
3462	479863.09	3849377.25	2.1996	1.49495	0.36706	0.8348	0.758	0.76	1.5384	1.49495	1.53E+01	2.76E+00	3.82E-05	2.94E-02	2.38E-01	7.14E-02	1.09E+01	1.02E+01	1.92E+01
3463	480363.09	3849377.25	2.13721	1.44952	0.45195	1.14027	1.35	0.791	1.4758	1.44952	1.49E+01	2.68E+00	4.71E-05	4.01E-02	4.23E-01	7.44E-02	1.05E+01	9.86E+00	1.87E+01
3464	480863.09	3849377.25	1.94474	1.24996	0.47024	1.06353	3.351	0.723	1.2633	1.24996	1.36E+01	2.31E+00	4.90E-05	3.74E-02	1.05E+00	6.80E-02	8.95E+00	8.50E+00	1.75E+01
3465	481363.09	3849377.25	2.11676	1.02882	0.67918	0.59983	2.292	0.582	1.0017	1.02882	1.48E+01	1.90E+00	7.07E-05	2.11E-02	7.18E-01	5.47E-02	7.10E+00	7.00E+00	1.76E+01
3466	481863.09	3849377.25	1.63126	0.6142	0.51442	0.42328	0.744	0.404	0.6198	0.6142	1.14E+01	1.13E+00	5.36E-05	1.49E-02	2.33E-01	3.80E-02	4.39E+00	4.18E+00	1.30E+01
3467	482363.09	3849377.25	1.26567	0.53732	0.35964	0.39984	0.595	0.365	0.5508	0.53732	8.82E+00	9.92E-01	3.74E-05	1.41E-02	1.86E-01	3.43E-02	3.90E+00	3.65E+00	1.03E+01
3468	482863.09	3849377.25	0.92007	0.482	0.40952	0.34037	0.659	0.326	0.4859	0.482	6.41E+00	8.90E-01	4.26E-05	1.20E-02	2.06E-01	3.06E-02	3.44E+00	3.28E+00	7.72E+00
3469	483363.09	3849377.25	0.67381	0.44764	0.45896	0.31721	0.719	0.349	0.4626	0.44764	4.70E+00	8.27E-01	4.78E-05	1.12E-02	2.25E-01	3.28E-02	3.28E+00	3.04E+00	6.03E+00
3470	483863.09	3849377.25	0.58385	0.38894	0.4352	0.3099	0.75	0.373	0.404	0.38894	4.07E+00	7.18E-01	4.53E-05	1.09E-02	2.35E-01	3.50E-02	2.86E+00	2.64E+00	5.29E+00
3471	484363.09	3849377.25	1.10304	0.48176	0.5074	0.38063	1.052	0.485	0.4865	0.48176	7.69E+00	8.90E-01	5.28E-05	1.34E-02	3.30E-01	4.56E-02	3.45E+00	3.28E+00	9.14E+00
3472	484863.09	3849377.25	1.21437	0.51759	0.64811	0.43787	2.078	0.472	0.5223	0.51759	8.47E+00	9.56E-01	6.75E-05	1.54E-02	6.51E-01	4.43E-02	3.70E+00	3.52E+00	1.03E+01
3473	485363.09	3849377.25	1.01543	0.4919	0.48435	0.44303	2.581	0.419	0.4963	0.4919	7.08E+00	9.09E-01	5.04E-05	1.56E-02	8.09E-01	3.94E-02	3.52E+00	3.34E+00	9.02E+00

3474	485863.09	3849377.25	0.66288	0.41026	0.48088	0.38359	1.7	0.3	0.4137	0.41026	4.62E+00	7.58E-01	5.01E-05	1.35E-02	5.33E-01	2.82E-02	2.93E+00	2.79E+00	6.10E+00
3475	486363.09	3849377.25	0.56931	0.37436	0.45948	0.33002	0.738	0.301	0.378	0.37436	3.97E+00	6.91E-01	4.78E-05	1.16E-02	2.31E-01	2.83E-02	2.68E+00	2.55E+00	5.06E+00
3476	486863.09	3849377.25	0.66162	0.38875	0.49874	0.36458	0.84	0.388	0.3919	0.38875	4.61E+00	7.18E-01	5.19E-05	1.28E-02	2.63E-01	3.65E-02	2.78E+00	2.64E+00	5.78E+00
3477	487363.09	3849377.25	0.73422	0.38448	0.53999	0.31769	1.131	0.413	0.3875	0.38448	5.12E+00	7.10E-01	5.62E-05	1.12E-02	3.55E-01	3.88E-02	2.75E+00	2.61E+00	6.36E+00
3478	487863.09	3849377.25	0.76862	0.37927	0.42536	0.2974	1.682	0.408	0.3823	0.37927	5.36E+00	7.00E-01	4.43E-05	1.05E-02	5.27E-01	3.83E-02	2.71E+00	2.58E+00	6.77E+00
3479	488363.09	3849377.25	0.77871	0.37188	0.40416	0.30679	2.003	0.407	0.3744	0.37188	5.43E+00	6.87E-01	4.21E-05	1.08E-02	6.27E-01	3.83E-02	2.65E+00	2.53E+00	6.92E+00
3480	488863.09	3849377.25	0.77833	0.36174	0.45275	0.36164	1.361	0.371	0.3648	0.36174	5.43E+00	6.68E-01	4.71E-05	1.27E-02	4.26E-01	3.48E-02	2.58E+00	2.46E+00	6.69E+00
3481	489363.09	3849377.25	0.71384	0.35344	0.42192	0.47095	1.217	0.302	0.3566	0.35344	4.98E+00	6.53E-01	4.39E-05	1.66E-02	3.81E-01	2.84E-02	2.53E+00	2.40E+00	6.18E+00
3482	489863.09	3849377.25	0.60641	0.34462	0.41626	0.52087	1.225	0.271	0.3476	0.34462	4.23E+00	6.36E-01	4.33E-05	1.83E-02	3.84E-01	2.54E-02	2.46E+00	2.34E+00	5.41E+00
3483	490363.09	3849377.25	0.57766	0.33958	0.32447	0.43311	1.458	0.25	0.3423	0.33958	4.03E+00	6.27E-01	3.38E-05	1.52E-02	4.57E-01	2.35E-02	2.43E+00	2.31E+00	5.27E+00
3484	490863.09	3849377.25	0.56092	0.3276	0.2706	0.42139	1.063	0.244	0.3296	0.3276	3.91E+00	6.05E-01	2.82E-05	1.48E-02	3.33E-01	2.29E-02	2.34E+00	2.23E+00	4.99E+00
3485	491363.09	3849377.25	0.54125	0.28918	0.25377	0.40118	0.987	0.224	0.2902	0.28918	3.77E+00	5.34E-01	2.64E-05	1.41E-02	3.09E-01	2.11E-02	2.06E+00	1.97E+00	4.74E+00
3486	491863.09	3849377.25	0.43814	0.26453	0.26777	0.38148	0.766	0.215	0.2655	0.26453	3.05E+00	4.89E-01	2.79E-05	1.34E-02	2.40E-01	2.02E-02	1.88E+00	1.80E+00	3.90E+00
3487	492363.09	3849377.25	0.33741	0.25275	0.2655	0.33942	0.956	0.206	0.2537	0.25275	2.35E+00	4.67E-01	2.76E-05	1.19E-02	3.00E-01	1.94E-02	1.80E+00	1.72E+00	3.23E+00
3488	492863.09	3849377.25	0.35256	0.25084	0.24083	0.28209	0.991	0.222	0.2534	0.25084	2.46E+00	4.63E-01	2.51E-05	9.93E-03	3.10E-01	2.08E-02	1.80E+00	1.71E+00	3.35E+00
3489	493363.09	3849377.25	0.34515	0.24878	0.19824	0.26762	1.11	0.244	0.2538	0.24878	2.41E+00	4.59E-01	2.06E-05	9.42E-03	3.48E-01	2.29E-02	1.80E+00	1.69E+00	3.35E+00
3490	493863.09	3849377.25	0.35332	0.24684	0.30045	0.25573	1.218	0.251	0.2539	0.24684	2.46E+00	4.56E-01	3.13E-05	9.00E-03	3.82E-01	2.36E-02	1.80E+00	1.68E+00	3.45E+00
3491	494363.09	3849377.25	0.3572	0.24534	0.36109	0.23313	1.075	0.249	0.2533	0.24534	2.49E+00	4.53E-01	3.76E-05	8.21E-03	3.37E-01	2.34E-02	1.79E+00	1.67E+00	3.44E+00
3492	494863.09	3849377.25	0.38232	0.24423	0.34864	0.26317	0.891	0.245	0.2525	0.24423	2.67E+00	4.51E-01	3.63E-05	9.26E-03	2.79E-01	2.30E-02	1.79E+00	1.66E+00	3.56E+00
3493	495363.09	3849377.25	0.38482	0.24322	0.37409	0.27048	0.937	0.251	0.2516	0.24322	2.68E+00	4.49E-01	3.89E-05	9.52E-03	2.94E-01	2.36E-02	1.78E+00	1.65E+00	3.59E+00
3494	495863.09	3849377.25	0.39983	0.24206	0.30249	0.28673	0.812	0.236	0.2502	0.24206	2.79E+00	4.47E-01	3.15E-05	1.01E-02	2.54E-01	2.21E-02	1.77E+00	1.65E+00	3.65E+00
3495	496363.09	3849377.25	0.41006	0.24071	0.25415	0.31715	0.743	0.233	0.2477	0.24071	2.86E+00	4.45E-01	2.65E-05	1.12E-02	2.33E-01	2.19E-02	1.75E+00	1.64E+00	3.69E+00
3496	496863.09	3849377.25	0.43222	0.23925	0.27168	0.34693	0.692	0.232	0.2444	0.23925	3.01E+00	4.42E-01	2.83E-05	1.22E-02	2.17E-01	2.18E-02	1.73E+00	1.63E+00	3.81E+00
3497	497363.09	3849377.25	0.45473	0.23778	0.35435	0.34722	0.806	0.258	0.2412	0.23778	3.17E+00	4.39E-01	3.69E-05	1.22E-02	2.53E-01	2.42E-02	1.71E+00	1.62E+00	3.99E+00
3498	497863.09	3849377.25	0.59439	0.28635	0.41464	0.41011	1.079	0.254	0.289	0.28635	4.14E+00	5.29E-01	4.32E-05	1.44E-02	3.38E-01	2.39E-02	2.05E+00	1.95E+00	5.15E+00
3499	498363.09	3849377.25	0.57091	0.25843	0.38319	0.37908	1.162	0.256	0.26	0.25843	3.98E+00	4.77E-01	3.99E-05	1.33E-02	3.64E-01	2.41E-02	1.84E+00	1.76E+00	4.94E+00
3500	471363.09	3849877.25	0.80706	0.86231	0.54255	0.46927	1.182	0.457	0.8709	0.86231	5.63E+00	1.59E+00	5.65E-05	1.65E-02	3.70E-01	4.30E-02	6.17E+00	5.86E+00	7.96E+00
3501	471863.09	3849877.25	0.90216	1.14558	0.74158	0.48267	1.03	0.575	1.1569	1.14558	6.29E+00	2.12E+00	7.72E-05	1.70E-02	3.23E-01	5.41E-02	8.20E+00	7.79E+00	9.21E+00
3502	472363.09	3849877.25	1.0046	1.3767	0.92798	0.60318	0.822	0.671	1.2964	1.3767	7.00E+00	2.54E+00	9.66E-05	2.12E-02	2.58E-01	6.31E-02	9.19E+00	9.36E+00	9.71E+00
3503	472863.09	3849877.25	1.09662	1.53742	1.02378	0.7073	0.742	0.719	1.4478	1.53742	7.65E+00	2.84E+00	1.07E-04	2.49E-02	2.32E-01	6.75E-02	1.03E+01	1.05E+01	1.06E+01
3504	473363.09	3849877.25	1.18113	1.59716	1.06874	0.73595	0.984	0.771	1.539	1.59716	8.23E+00	2.95E+00	1.11E-04	2.59E-02	3.08E-01	7.25E-02	1.09E+01	1.09E+01	1.16E+01
3505	473863.09	3849877.25	1.26422	1.58805	1.2599	0.68044	1.316	0.856	1.5981	1.58805	8.81E+00	2.93E+00	1.31E-04	2.39E-02	4.12E-01	8.05E-02	1.13E+01	1.08E+01	1.28E+01
3506	474363.09	3849877.25	1.29234	1.70528	1.47194	0.67623	1.525	0.867	1.7244	1.70528	9.01E+00	3.15E+00	1.53E-04	2.38E-02	4.78E-01	8.15E-02	1.22E+01	1.16E+01	1.34E+01
3507	474863.09	3849877.25	1.34515	2.01759	1.67718	0.84021	1.551	0.844	1.9108	2.01759	9.38E+00	3.73E+00	1.75E-04	2.96E-02	4.86E-01	7.93E-02	1.35E+01	1.37E+01	1.35E+01
3508	475363.09	3849877.25	1.37912	2.27467	1.60192	1.07953	1.589	0.919	2.2234	2.27467	9.61E+00	4.20E+00	1.67E-04	3.80E-02	4.98E-01	8.64E-02	1.58E+01	1.55E+01	1.47E+01
3509	475863.09	3849877.25	1.47433	2.82083	1.14929	1.13386	1.759	0.936	2.8457	2.82083	1.03E+01	5.21E+00	1.20E-04	3.99E-02	5.51E-01	8.80E-02	2.02E+01	1.92E+01	1.71E+01
3510	476363.09	3849877.25	1.5772	3.13292	0.70758	0.99683	1.907	1.043	3.1575	3.13292	1.10E+01	5.79E+00	7.37E-05	3.51E-02	5.98E-01	9.81E-02	2.24E+01	2.13E+01	1.86E+01
3511	476863.09	3849877.25	1.58	4.52488	0.99791	0.93623	1.749	1.133	4.5673	4.52488	1.10E+01	8.36E+00	1.04E-04	3.30E-02	5.48E-01	1.07E-01	3.24E+01	3.08E+01	2.17E+01
3512	477363.09	3849877.25	1.67623	6.47388	1.6229	0.78195	1.424	0.855	6.539	6.47388	1.17E+01	1.20E+01	1.69E-04	2.75E-02	4.46E-01	8.04E-02	4.63E+01	4.40E+01	2.65E+01
3513	477863.09	3849877.25	2.26219	12.52313	1.35486	0.79022	1.09	0.702	12.513	12.52313	1.58E+01	2.31E+01	1.41E-04	2.78E-02	3.41E-01	6.60E-02	8.87E+01	8.52E+01	4.28E+01
3514	478363.09	3849877.25	2.26349	6.12602	0.88537	1.29183	1.57	1.061	6.1586	6.12602	1.58E+01	1.13E+01	9.22E-05	4.55E-02	4.92E-01	9.97E-02	4.36E+01	4.17E+01	2.97E+01
3515	478863.09	3849877.25	2.54138	3.92536	0.6357	1.23768	2.168	1.731	3.7692	3.92536	1.77E+01	7.25E+00	6.62E-05	4.36E-02	6.79E-01	1.63E-01	2.67E+01	2.67E+01	2.59E+01
3516	479363.09	3849877.25	2.64226	2.88399	0.51219	0.87597	2.114	1.18	2.7144	2.88399	1.84E+01	5.33E+00	5.33E-05	3.08E-02	6.62E-01	1.11E-01	1.92E+01	1.96E+01	2.42E+01
3517	479863.09	3849877.25	2.86739	2.80908	0.50864	1.00689	1.495	1.074	2.9995	2.80908	2.00E+01	5.19E+00	5.30E-05	3.54E-02	4.68E-01	1.01E-01	2.13E+01	1.91E+01	2.79E+01
3518	480363.09	3849877.25	2.50936	1.81259	0.70575	1.01141	0.839	0.968	1.8989	1.81259	1.75E+01	3.35E+00	7.35E-05	3.56E-02	2.63E-01	9.10E-02	1.35E+01	1.23E+01	2.24E+01
3519	480863.09	3849877.25	2.28292	1.37473	0.49386	1.2096	1.548	0.809	1.3891	1.37473	1.59E+01	2.54E+00	5.14E-05	4.26E-02	4.85E-01	7.60E-02	9.84E+00	9.35E+00	1.96E+01
3520	481363.09	3849877.25	2.13139	1.20282	0.62086	0.93519	3.426	0.717	1.2142	1.20282	1.49E+01	2.22E+00	6.46E-05	3.29E-02	1.07E+00	6.74E-02	8.60E+00	8.18E+00	1.87E+01
3521	481863.09	3849877.25	1.66356	0.67659	0.62222	0.42866	1.32	0.397	0.6834	0.67659	1.16E+01	1.25E+00	6.48E-05	1.51E-02	4.14E-01	3.73E-02	4.84E+00	4.60E+00	1.36E+01
3522	482363.09	3849877.25	1.23187	0.53525	0.38298	0.38579	0.711	0.362	0.5484	0.53525	8.59E+00	9.89E-01	3.99E-05	1.36E-02	2.23E-01	3.40E-02	3.89E+00	3.64E+00	1.01E+01
3523	482863.09	3849877.25	0.94978	0.49665	0.3925	0.36226	0.649	0.335	0.5002	0.49665	6.62E+00	9.17E-01	4.09E-05	1.28E-02	2.03E-01	3.15E-02	3.54E+00	3.38E+00	7.95E+00
3524	483363.09	3849877.25	0.67924	0.43162	0.48738	0.32652	0.708	0.35	0.4421	0.43162	4.74E+00	7.97E-01	5.07E-05	1.15E-02	2.22E-01	3.29E-02	3.13E+00	2.93E+00	6.00E+00
3525	483863.09	3849877.25	0.70037	0.42404	0.4471	0.3233	0.762	0.376	0.4368	0.42404	4.88E+00	7.83E-01	4.65E-05	1.14E-02	2.39E-01	3.54E-02	3.10E+00	2.88E+00	6.16E+00
3526	484363.09	3849877.25	1.1372	0.52175	0.5957	0.3953	1.025	0.51	0.5306	0.52175	7.93E+00	9.64E-01	6.20E-05	1.39E-02	3.21E-01	4.79E-02	3.76E+00	3.55E+00	9.49E+00
3527	484863.09	3849877.25	1.38203	0.69226	0.68637	0.49065	1.887	0.514	0.6998	0.69226	9.64E+00	1.28E+00	7.15E-05	1.73E-02	5.91E-01	4.83E-02	4.96E+00	4.71E+00	1.18E+01
3528	485363.09	3849877.25	1.13692	0.60543	0.46446	0.47437	2.734	0.452	0.6111	0.60543	7.93E+00	1.12E+00	4.84E-05	1.67E-02	8.57E-01	4.25E-02	4.33E+00	4.12E+00	1.02E+01
3529	485863.09	3849877.25	0.79493	0.51031	0.54403	0.42548	2.133	0.375	0.5147	0.51031	5.54E+00	9.43E-01	5.66E-05	1.50E-02	6.68E-01	3.53E-02	3.65E+00	3.47E+00	7.38E+00
3530	486363.09	3849877.25	0.66692	0.47385	0.65016	0.3909	1.299	0.342	0.4778	0.47385	4.65E+00	8.75E-01	6.77E-05	1.38E-02	4.07E-01	3.22E-02	3.39E+00	3.22E+00	6.14E+00

3531	486863.09	3849877.25	0.72972	0.4861	0.57405	0.44851	1.044	0.43	0.4903	0.4861	5.09E+00	8.98E-01	5.98E-05	1.58E-02	3.27E-01	4.04E-02	3.47E+00	3.31E+00	6.54E+00
3532	487363.09	3849877.25	0.78469	0.46551	0.66859	0.35554	1.233	0.433	0.4695	0.46551	5.47E+00	8.60E-01	6.96E-05	1.25E-02	3.86E-01	4.07E-02	3.33E+00	3.17E+00	6.93E+00
3533	487863.09	3849877.25	0.79077	0.43614	0.51725	0.30827	1.78	0.419	0.4399	0.43614	5.51E+00	8.06E-01	5.38E-05	1.08E-02	5.58E-01	3.94E-02	3.12E+00	2.97E+00	7.08E+00
3534	488363.09	3849877.25	0.79075	0.41632	0.56591	0.32154	2.059	0.417	0.4199	0.41632	5.51E+00	7.69E-01	5.89E-05	1.13E-02	6.45E-01	3.92E-02	2.98E+00	2.83E+00	7.12E+00
3535	488863.09	3849877.25	0.78393	0.39849	0.43115	0.38377	1.393	0.38	0.4019	0.39849	5.47E+00	7.36E-01	4.49E-05	1.35E-02	4.36E-01	3.58E-02	2.85E+00	2.71E+00	6.83E+00
3536	489363.09	3849877.25	0.69929	0.37897	0.40222	0.48529	1.411	0.324	0.382	0.37897	4.88E+00	7.00E-01	4.19E-05	1.71E-02	4.42E-01	3.05E-02	2.71E+00	2.58E+00	6.19E+00
3537	489863.09	3849877.25	0.61794	0.36039	0.40817	0.53199	1.846	0.278	0.3637	0.36039	4.31E+00	6.66E-01	4.25E-05	1.87E-02	5.78E-01	2.61E-02	2.58E+00	2.45E+00	5.72E+00
3538	490363.09	3849877.25	0.56942	0.35513	0.36739	0.44111	1.504	0.278	0.3587	0.35513	3.97E+00	6.56E-01	3.82E-05	1.55E-02	4.71E-01	2.62E-02	2.54E+00	2.41E+00	5.27E+00
3539	490863.09	3849877.25	0.54821	0.34556	0.33952	0.42563	1.136	0.267	0.3489	0.34556	3.82E+00	6.38E-01	3.53E-05	1.50E-02	3.56E-01	2.51E-02	2.47E+00	2.35E+00	4.98E+00
3540	491363.09	3849877.25	0.52679	0.3174	0.31588	0.40771	0.971	0.234	0.3195	0.3174	3.67E+00	5.86E-01	3.29E-05	1.43E-02	3.04E-01	2.19E-02	2.26E+00	2.16E+00	4.70E+00
3541	491863.09	3849877.25	0.43441	0.27334	0.25832	0.39941	0.954	0.246	0.276	0.27334	3.03E+00	5.05E-01	2.69E-05	1.41E-02	2.99E-01	2.31E-02	1.96E+00	1.86E+00	3.97E+00
3542	492363.09	3849877.25	0.40057	0.25929	0.25045	0.35114	1.077	0.248	0.2653	0.25929	2.79E+00	4.79E-01	2.61E-05	1.24E-02	3.37E-01	2.33E-02	1.88E+00	1.76E+00	3.76E+00
3543	492863.09	3849877.25	0.36824	0.25265	0.27325	0.31095	1.115	0.255	0.2604	0.25265	2.57E+00	4.67E-01	2.84E-05	1.09E-02	3.49E-01	2.40E-02	1.84E+00	1.72E+00	3.55E+00
3544	493363.09	3849877.25	0.38423	0.24915	0.3787	0.27138	1.286	0.257	0.2576	0.24915	2.68E+00	4.60E-01	3.94E-05	9.55E-03	4.03E-01	2.42E-02	1.83E+00	1.69E+00	3.71E+00
3545	493863.09	3849877.25	0.38215	0.24769	0.40563	0.25706	1.172	0.254	0.2563	0.24769	2.66E+00	4.57E-01	4.22E-05	9.05E-03	3.67E-01	2.39E-02	1.82E+00	1.68E+00	3.65E+00
3546	494363.09	3849877.25	0.40044	0.24632	0.35881	0.27943	0.942	0.245	0.255	0.24632	2.79E+00	4.55E-01	3.74E-05	9.83E-03	2.95E-01	2.30E-02	1.81E+00	1.67E+00	3.71E+00
3547	494863.09	3849877.25	0.45556	0.24857	0.36217	0.29827	0.98	0.241	0.2572	0.24857	3.18E+00	4.59E-01	3.77E-05	1.05E-02	3.07E-01	2.27E-02	1.82E+00	1.69E+00	4.11E+00
3548	495363.09	3849877.25	0.42842	0.24268	0.27744	0.29006	0.972	0.252	0.2498	0.24268	2.99E+00	4.48E-01	2.89E-05	1.02E-02	3.05E-01	2.37E-02	1.77E+00	1.65E+00	3.89E+00
3549	495863.09	3849877.25	0.46387	0.24406	0.29721	0.33497	0.876	0.238	0.2493	0.24406	3.23E+00	4.51E-01	3.09E-05	1.18E-02	2.75E-01	2.23E-02	1.77E+00	1.66E+00	4.10E+00
3550	496363.09	3849877.25	0.51654	0.24193	0.34139	0.35991	0.753	0.236	0.2454	0.24193	3.60E+00	4.47E-01	3.55E-05	1.27E-02	2.36E-01	2.22E-02	1.74E+00	1.65E+00	4.41E+00
3551	496863.09	3849877.25	0.53415	0.23986	0.39281	0.36356	1.028	0.26	0.2421	0.23986	3.72E+00	4.43E-01	4.09E-05	1.28E-02	3.22E-01	2.45E-02	1.72E+00	1.63E+00	4.61E+00
3552	497363.09	3849877.25	0.59661	0.2707	0.43069	0.40883	1.163	0.274	0.2721	0.2707	4.16E+00	5.00E-01	4.48E-05	1.44E-02	3.65E-01	2.57E-02	1.93E+00	1.84E+00	5.15E+00
3553	497863.09	3849877.25	0.60106	0.29286	0.38147	0.42206	1.22	0.283	0.2943	0.29286	4.19E+00	5.41E-01	3.97E-05	1.49E-02	3.82E-01	2.66E-02	2.09E+00	1.99E+00	5.25E+00
3554	498363.09	3849877.25	0.56353	0.26549	0.35402	0.36878	1.043	0.275	0.2664	0.26549	3.93E+00	4.90E-01	3.69E-05	1.30E-02	3.27E-01	2.59E-02	1.89E+00	1.81E+00	4.87E+00
3555	471363.09	3850377.25	0.69408	0.47597	0.38868	0.49371	1.206	0.415	0.4877	0.47597	4.84E+00	8.79E-01	4.05E-05	1.74E-02	3.78E-01	3.90E-02	3.46E+00	3.24E+00	6.37E+00
3556	471863.09	3850377.25	0.81324	0.67908	0.53152	0.5371	1.467	0.428	0.686	0.67908	5.67E+00	1.25E+00	5.53E-05	1.89E-02	4.60E-01	4.02E-02	4.86E+00	4.62E+00	7.69E+00
3557	472363.09	3850377.25	0.88644	0.82606	0.65128	0.53399	1.327	0.514	0.834	0.82606	6.18E+00	1.53E+00	6.78E-05	1.88E-02	4.16E-01	4.83E-02	5.91E+00	5.62E+00	8.48E+00
3558	472863.09	3850377.25	0.98398	1.05828	0.89571	0.54858	1.154	0.666	1.0312	1.05828	6.86E+00	1.95E+00	9.32E-05	1.93E-02	3.62E-01	6.26E-02	7.31E+00	7.20E+00	9.37E+00
3559	473363.09	3850377.25	1.09905	1.25956	1.03429	0.65417	0.941	0.714	1.1665	1.25956	7.66E+00	2.33E+00	1.08E-04	2.30E-02	2.95E-01	6.71E-02	8.27E+00	8.56E+00	1.01E+01
3560	473863.09	3850377.25	1.20099	1.39479	1.12324	0.77336	0.838	0.779	1.3018	1.39479	8.37E+00	2.58E+00	1.17E-04	2.72E-02	2.62E-01	7.32E-02	9.22E+00	9.48E+00	1.11E+01
3561	474363.09	3850377.25	1.28119	1.41259	1.24729	0.81081	1.104	0.902	1.3579	1.41259	8.93E+00	2.61E+00	1.30E-04	2.85E-02	3.46E-01	8.48E-02	9.62E+00	9.61E+00	1.20E+01
3562	474863.09	3850377.25	1.35441	1.47494	1.51814	0.74292	1.442	0.971	1.4975	1.47494	9.44E+00	2.72E+00	1.58E-04	2.61E-02	4.52E-01	9.12E-02	1.06E+01	1.00E+01	1.33E+01
3563	475363.09	3850377.25	1.39942	1.70045	1.7844	0.7793	1.623	0.911	1.6261	1.70045	9.76E+00	3.14E+00	1.86E-04	2.74E-02	5.08E-01	8.56E-02	1.15E+01	1.16E+01	1.35E+01
3564	475863.09	3850377.25	1.45711	2.03731	1.91733	1.0006	1.723	0.936	1.851	2.03731	1.02E+01	3.76E+00	2.00E-04	3.52E-02	5.40E-01	8.80E-02	1.31E+01	1.39E+01	1.38E+01
3565	476363.09	3850377.25	1.48386	2.16451	1.56864	1.23524	1.844	1.024	2.1435	2.16451	1.03E+01	4.00E+00	1.63E-04	4.35E-02	5.78E-01	9.63E-02	1.52E+01	1.47E+01	1.55E+01
3566	476863.09	3850377.25	1.62634	2.44944	0.9673	1.19594	1.975	1.057	2.4793	2.44944	1.13E+01	4.52E+00	1.01E-04	4.21E-02	6.19E-01	9.93E-02	1.76E+01	1.67E+01	1.75E+01
3567	477363.09	3850377.25	1.67603	3.04108	1.01791	1.08946	1.864	1.26	3.0759	3.04108	1.17E+01	5.62E+00	1.06E-04	3.83E-02	5.84E-01	1.18E-01	2.18E+01	2.07E+01	1.92E+01
3568	477863.09	3850377.25	1.68865	3.93301	1.74113	0.97651	1.685	1.051	3.9807	3.93301	1.18E+01	7.26E+00	1.81E-04	3.44E-02	5.28E-01	9.88E-02	2.82E+01	2.67E+01	2.12E+01
3569	478363.09	3850377.25	2.07077	7.04597	1.55227	0.84526	1.294	0.751	7.1494	7.04597	1.44E+01	1.30E+01	1.62E-04	2.97E-02	4.05E-01	7.05E-02	5.07E+01	4.79E+01	3.07E+01
3570	478863.09	3850377.25	2.92733	12.25871	1.01924	1.26898	1.516	1.273	12.083	12.25871	2.04E+01	2.26E+01	1.06E-04	4.47E-02	4.75E-01	1.20E-01	8.56E+01	8.34E+01	4.59E+01
3571	479363.09	3850377.25	3.07087	5.63844	0.7023	1.35423	2.149	1.982	5.7695	5.63844	2.14E+01	1.04E+01	7.31E-05	4.77E-02	6.73E-01	1.86E-01	4.09E+01	3.83E+01	3.53E+01
3572	479863.09	3850377.25	3.05771	4.06387	0.5679	1.0723	2.3	1.393	4.0856	4.06387	2.13E+01	7.51E+00	5.91E-05	3.77E-02	7.21E-01	1.31E-01	2.89E+01	2.76E+01	3.10E+01
3573	480363.09	3850377.25	3.22566	3.05273	0.82436	1.12146	1.713	1.287	3.1402	3.05273	2.25E+01	5.64E+00	8.58E-05	3.95E-02	5.37E-01	1.21E-01	2.22E+01	2.08E+01	3.03E+01
3574	480863.09	3850377.25	2.74784	2.28844	0.99803	1.15804	0.988	1.163	2.3635	2.28844	1.92E+01	4.23E+00	1.04E-04	4.08E-02	3.10E-01	1.09E-01	1.67E+01	1.56E+01	2.50E+01
3575	481363.09	3850377.25	2.3321	1.68357	0.6318	1.31255	1.862	0.914	1.697	1.68357	1.63E+01	3.11E+00	6.58E-05	4.62E-02	5.83E-01	8.59E-02	1.20E+01	1.14E+01	2.07E+01
3576	481863.09	3850377.25	2.5025	1.36975	0.84304	0.92657	3.796	0.745	1.3829	1.36975	1.74E+01	2.53E+00	8.78E-05	3.26E-02	1.19E+00	7.00E-02	9.80E+00	9.31E+00	2.18E+01
3577	482363.09	3850377.25	2.34911	1.1564	0.64604	0.7523	1.79	0.62	1.1674	1.1564	1.64E+01	2.14E+00	6.73E-05	2.65E-02	5.61E-01	5.83E-02	8.27E+00	7.86E+00	1.96E+01
3578	482863.09	3850377.25	1.52439	0.71565	0.38707	0.45041	0.706	0.395	0.7222	0.71565	1.06E+01	1.32E+00	4.03E-05	1.59E-02	2.21E-01	3.71E-02	5.12E+00	4.87E+00	1.25E+01
3579	483363.09	3850377.25	1.05699	0.59059	0.56558	0.38578	0.713	0.38	0.6064	0.59059	7.37E+00	1.09E+00	5.89E-05	1.36E-02	2.23E-01	3.57E-02	4.30E+00	4.02E+00	9.01E+00
3580	483863.09	3850377.25	1.15673	0.60733	0.49922	0.42469	0.998	0.464	0.6219	0.60733	8.06E+00	1.12E+00	5.20E-05	1.49E-02	3.13E-01	4.36E-02	4.41E+00	4.13E+00	9.83E+00
3581	484363.09	3850377.25	1.34197	0.66457	0.73453	0.44081	1.634	0.548	0.6834	0.66457	9.36E+00	1.23E+00	7.65E-05	1.55E-02	5.12E-01	5.15E-02	4.84E+00	4.52E+00	1.15E+01
3582	484863.09	3850377.25	1.51126	0.76066	0.70339	0.5219	1.688	0.549	0.768	0.76066	1.05E+01	1.40E+00	7.32E-05	1.84E-02	5.29E-01	5.16E-02	5.44E+00	5.17E+00	1.28E+01
3583	485363.09	3850377.25	1.33352	0.74638	0.50045	0.56727	2.784	0.513	0.7536	0.74638	9.30E+00	1.38E+00	5.21E-05	2.00E-02	8.72E-01	4.82E-02	5.34E+00	5.08E+00	1.19E+01
3584	485863.09	3850377.25	1.0014	0.66938	0.73765	0.49374	2.909	0.417	0.6759	0.66938	6.98E+00	1.24E+00	7.68E-05	1.74E-02	9.11E-01	3.92E-02	4.79E+00	4.55E+00	9.42E+00
3585	486363.09	3850377.25	0.92598	0.65636	0.68992	0.52262	2.243	0.38	0.6629	0.65636	6.46E+00	1.21E+00	7.18E-05	1.84E-02	7.03E-01	3.57E-02	4.70E+00	4.46E+00	8.66E+00
3586	486863.09	3850377.25	0.90299	0.63664	0.63353	0.49422	1.352	0.44	0.6428	0.63664	6.30E+00	1.18E+00	6.60E-05	1.74E-02	4.24E-01	4.14E-02	4.55E+00	4.33E+00	8.18E+00
3587	487363.09	3850377.25	0.84821	0.58549	0.5623	0.41161	1.336	0.456	0.5911	0.58549	5.91E+00	1.08E+00	5.85E-05	1.45E-02	4.19E-01	4.28E-02	4.19E+00	3.98E+00	7.68E+00

3588	487863.09	3850377.25	0.81783	0.55489	0.65242	0.33145	2.356	0.443	0.5602	0.55489	5.70E+00	1.02E+00	6.79E-05	1.17E-02	7.38E-01	4.16E-02	3.97E+00	3.77E+00	7.71E+00
3589	488363.09	3850377.25	0.795	0.51444	0.49061	0.32616	2.112	0.435	0.5193	0.51444	5.54E+00	9.50E-01	5.11E-05	1.15E-02	6.62E-01	4.09E-02	3.68E+00	3.50E+00	7.39E+00
3590	488863.09	3850377.25	0.77702	0.48245	0.6124	0.40872	1.42	0.386	0.4868	0.48245	5.42E+00	8.91E-01	6.38E-05	1.44E-02	4.45E-01	3.63E-02	3.45E+00	3.28E+00	6.97E+00
3591	489363.09	3850377.25	0.70625	0.44936	0.42076	0.50101	1.652	0.329	0.4534	0.44936	4.92E+00	8.30E-01	4.38E-05	1.76E-02	5.18E-01	3.09E-02	3.21E+00	3.06E+00	6.48E+00
3592	489863.09	3850377.25	0.63172	0.41818	0.44818	0.54291	2.095	0.298	0.4219	0.41818	4.40E+00	7.72E-01	4.67E-05	1.91E-02	6.56E-01	2.80E-02	2.99E+00	2.84E+00	6.03E+00
3593	490363.09	3850377.25	0.55545	0.3925	0.55583	0.44511	1.667	0.295	0.3961	0.3925	3.87E+00	7.25E-01	5.79E-05	1.57E-02	5.22E-01	2.77E-02	2.81E+00	2.67E+00	5.30E+00
3594	490863.09	3850377.25	0.53109	0.37452	0.39663	0.47002	1.296	0.3	0.3782	0.37452	3.70E+00	6.92E-01	4.13E-05	1.65E-02	4.06E-01	2.82E-02	2.68E+00	2.55E+00	4.98E+00
3595	491363.09	3850377.25	0.52922	0.34594	0.30782	0.42136	1.274	0.282	0.3493	0.34594	3.69E+00	6.39E-01	3.20E-05	1.48E-02	3.99E-01	2.65E-02	2.47E+00	2.35E+00	4.89E+00
3596	491863.09	3850377.25	0.52522	0.29387	0.35819	0.41697	1.164	0.266	0.2964	0.29387	3.66E+00	5.43E-01	3.73E-05	1.47E-02	3.65E-01	2.50E-02	2.10E+00	2.00E+00	4.71E+00
3597	492363.09	3850377.25	0.41573	0.26857	0.39454	0.35914	1.155	0.261	0.2778	0.26857	2.90E+00	4.96E-01	4.11E-05	1.26E-02	3.62E-01	2.46E-02	1.97E+00	1.83E+00	3.94E+00
3598	492863.09	3850377.25	0.40313	0.26567	0.42191	0.32366	1.388	0.259	0.2748	0.26567	2.81E+00	4.91E-01	4.39E-05	1.14E-02	4.35E-01	2.43E-02	1.95E+00	1.81E+00	3.91E+00
3599	493363.09	3850377.25	0.41491	0.25362	0.41551	0.29222	1.269	0.256	0.2627	0.25362	2.89E+00	4.68E-01	4.33E-05	1.03E-02	3.98E-01	2.41E-02	1.86E+00	1.72E+00	3.93E+00
3600	493863.09	3850377.25	0.42368	0.25773	0.35216	0.29355	1.122	0.248	0.2666	0.25773	2.95E+00	4.76E-01	3.67E-05	1.03E-02	3.52E-01	2.33E-02	1.89E+00	1.75E+00	3.95E+00
3601	494363.09	3850377.25	0.44985	0.25726	0.30284	0.30145	1.027	0.239	0.2646	0.25726	3.14E+00	4.75E-01	3.15E-05	1.06E-02	3.22E-01	2.25E-02	1.87E+00	1.75E+00	4.09E+00
3602	494863.09	3850377.25	0.51643	0.25464	0.34079	0.29445	1.134	0.244	0.2598	0.25464	3.60E+00	4.70E-01	3.55E-05	1.04E-02	3.55E-01	2.30E-02	1.84E+00	1.73E+00	4.57E+00
3603	495363.09	3850377.25	0.61046	0.26369	0.35965	0.33854	1.078	0.259	0.2658	0.26369	4.26E+00	4.87E-01	3.74E-05	1.19E-02	3.38E-01	2.43E-02	1.88E+00	1.79E+00	5.21E+00
3604	495863.09	3850377.25	0.5538	0.24893	0.37745	0.37334	0.983	0.248	0.251	0.24893	3.86E+00	4.60E-01	3.93E-05	1.31E-02	3.08E-01	2.33E-02	1.78E+00	1.69E+00	4.75E+00
3605	496363.09	3850377.25	0.61441	0.26439	0.42337	0.38546	1.126	0.267	0.2662	0.26439	4.28E+00	4.88E-01	4.41E-05	1.36E-02	3.53E-01	2.51E-02	1.89E+00	1.80E+00	5.25E+00
3606	496863.09	3850377.25	0.62926	0.29033	0.43755	0.43636	1.266	0.285	0.2917	0.29033	4.39E+00	5.36E-01	4.56E-05	1.54E-02	3.97E-01	2.68E-02	2.07E+00	1.97E+00	5.45E+00
3607	497363.09	3850377.25	0.60932	0.30094	0.37826	0.4567	1.242	0.298	0.3027	0.30094	4.25E+00	5.56E-01	3.94E-05	1.61E-02	3.89E-01	2.80E-02	2.14E+00	2.05E+00	5.34E+00
3608	497863.09	3850377.25	0.58924	0.2846	0.32105	0.4036	1.141	0.304	0.2857	0.2846	4.11E+00	5.26E-01	3.34E-05	1.42E-02	3.57E-01	2.86E-02	2.02E+00	1.94E+00	5.12E+00
3609	498363.09	3850377.25	0.57236	0.27363	0.28626	0.42838	1.065	0.297	0.2745	0.27363	3.99E+00	5.05E-01	2.98E-05	1.51E-02	3.34E-01	2.80E-02	1.95E+00	1.86E+00	4.96E+00
3610	471363.09	3850877.25	0.77954	0.52476	0.48227	0.60894	1.166	0.523	0.5148	0.52476	5.43E+00	9.69E-01	5.02E-05	2.14E-02	3.65E-01	4.92E-02	3.65E+00	3.57E+00	6.92E+00
3611	471863.09	3850877.25	0.83165	0.59113	0.50939	0.60309	1.114	0.515	0.5968	0.59113	5.80E+00	1.09E+00	5.30E-05	2.12E-02	3.49E-01	4.84E-02	4.23E+00	4.02E+00	7.52E+00
3612	472363.09	3850877.25	0.87174	0.70901	0.55309	0.59712	1.375	0.501	0.7164	0.70901	6.08E+00	1.31E+00	5.76E-05	2.10E-02	4.31E-01	4.71E-02	5.08E+00	4.82E+00	8.14E+00
3613	472863.09	3850877.25	0.91031	0.8326	0.66287	0.58591	1.61	0.534	0.8406	0.8326	6.35E+00	1.54E+00	6.90E-05	2.06E-02	5.04E-01	5.02E-02	5.96E+00	5.66E+00	8.75E+00
3614	473363.09	3850877.25	0.97605	0.85241	0.74812	0.58755	1.536	0.577	0.8596	0.85241	6.80E+00	1.57E+00	7.79E-05	2.07E-02	4.81E-01	5.43E-02	6.09E+00	5.80E+00	9.23E+00
3615	473863.09	3850877.25	1.10778	0.97827	1.00415	0.62467	1.314	0.706	0.9679	0.97827	7.72E+00	1.81E+00	1.05E-04	2.20E-02	4.12E-01	6.63E-02	6.86E+00	6.65E+00	1.02E+01
3616	474363.09	3850877.25	1.24085	1.15791	1.21322	0.70476	1.089	0.802	1.0456	1.15791	8.65E+00	2.14E+00	1.26E-04	2.48E-02	3.41E-01	7.53E-02	7.41E+00	7.87E+00	1.08E+01
3617	474863.09	3850877.25	1.36158	1.24034	1.30343	0.83627	1.016	0.893	1.1386	1.24034	9.49E+00	2.29E+00	1.36E-04	2.94E-02	3.18E-01	8.40E-02	8.07E+00	8.43E+00	1.18E+01
3618	475363.09	3850877.25	1.44681	1.28409	1.49382	0.88638	1.24	1.056	1.2256	1.28409	1.01E+01	2.37E+00	1.56E-04	3.12E-02	3.88E-01	9.93E-02	8.68E+00	8.73E+00	1.29E+01
3619	475863.09	3850877.25	1.48731	1.39094	1.86697	0.8349	1.558	1.078	1.3925	1.39094	1.04E+01	2.57E+00	1.94E-04	2.94E-02	4.88E-01	1.01E-01	9.87E+00	9.46E+00	1.40E+01
3620	476363.09	3850877.25	1.57994	1.84699	2.14002	0.93678	1.705	0.983	1.628	1.84699	1.10E+01	3.41E+00	2.23E-04	3.30E-02	5.34E-01	9.24E-02	1.15E+01	1.26E+01	1.41E+01
3621	476863.09	3850877.25	1.62534	1.95571	2.07549	1.1917	1.964	1.062	1.7839	1.95571	1.13E+01	3.61E+00	2.16E-04	4.19E-02	6.15E-01	9.98E-02	1.26E+01	1.33E+01	1.50E+01
3622	477363.09	3850877.25	1.74067	2.02568	1.43044	1.36293	2.09	1.122	2.0682	2.02568	1.21E+01	3.74E+00	1.49E-04	4.80E-02	6.55E-01	1.05E-01	1.47E+01	1.38E+01	1.76E+01
3623	477863.09	3850877.25	1.79352	2.23395	1.13767	1.27294	2.061	1.342	2.2767	2.23395	1.25E+01	4.13E+00	1.18E-04	4.48E-02	6.46E-01	1.26E-01	1.61E+01	1.52E+01	1.84E+01
3624	478363.09	3850877.25	1.75273	2.82796	1.83576	1.20214	1.999	1.276	2.8827	2.82796	1.22E+01	5.22E+00	1.91E-04	4.23E-02	6.26E-01	1.20E-01	2.04E+01	1.92E+01	1.94E+01
3625	478863.09	3850877.25	1.84136	3.69281	1.87274	1.01873	1.741	0.898	3.7662	3.69281	1.28E+01	6.82E+00	1.95E-04	3.59E-02	5.45E-01	8.44E-02	2.67E+01	2.51E+01	2.19E+01
3626	479363.09	3850877.25	2.34908	6.53667	1.1654	1.22204	1.711	1.521	6.6983	6.53667	1.64E+01	1.21E+01	1.21E-04	4.30E-02	5.36E-01	1.43E-01	4.75E+01	4.44E+01	3.22E+01
3627	479863.09	3850877.25	3.86557	14.43597	0.77046	1.5327	2.107	2.154	14.037	14.43597	2.69E+01	2.67E+01	8.02E-05	5.39E-02	6.60E-01	2.03E-01	9.95E+01	9.82E+01	5.58E+01
3628	480363.09	3850877.25	3.71569	5.80629	0.69785	1.29757	2.257	1.633	5.7129	5.80629	2.59E+01	1.07E+01	7.27E-05	4.57E-02	7.07E-01	1.53E-01	4.05E+01	3.95E+01	3.85E+01
3629	480863.09	3850877.25	3.41781	4.40565	1.56866	1.30138	1.992	1.7	4.0091	4.40565	2.38E+01	8.14E+00	1.63E-04	4.58E-02	6.24E-01	1.60E-01	2.84E+01	3.00E+01	3.12E+01
3630	481363.09	3850877.25	3.05344	3.14385	1.17822	1.49302	1.238	1.453	3.2639	3.14385	2.13E+01	5.81E+00	1.23E-04	5.25E-02	3.88E-01	1.37E-01	2.31E+01	2.14E+01	2.94E+01
3631	481863.09	3850877.25	2.85629	2.55391	1.28199	1.75956	2.955	1.348	2.568	2.55391	1.99E+01	4.72E+00	1.33E-04	6.19E-02	9.26E-01	1.27E-01	1.82E+01	1.74E+01	2.66E+01
3632	482363.09	3850877.25	2.70864	1.8251	0.95662	1.1535	4.508	0.9	1.8376	1.8251	1.89E+01	3.37E+00	9.96E-05	4.06E-02	1.41E+00	8.46E-02	1.30E+01	1.24E+01	2.44E+01
3633	482863.09	3850877.25	2.38709	1.36389	0.63937	0.78908	1.535	0.666	1.3722	1.36389	1.66E+01	2.52E+00	6.66E-05	2.78E-02	4.81E-01	6.26E-02	9.72E+00	9.27E+00	2.02E+01
3634	483363.09	3850877.25	1.79981	1.04695	0.65426	0.55322	0.735	0.466	1.0545	1.04695	1.25E+01	1.93E+00	6.81E-05	1.95E-02	2.30E-01	4.38E-02	7.47E+00	7.12E+00	1.51E+01
3635	483863.09	3850877.25	1.53731	0.95307	0.57146	0.52118	1.314	0.509	0.9608	0.95307	1.07E+01	1.76E+00	5.95E-05	1.83E-02	4.12E-01	4.79E-02	6.81E+00	6.48E+00	1.33E+01
3636	484363.09	3850877.25	1.6455	1.01155	0.89123	0.54976	2.73	0.559	1.0194	1.01155	1.15E+01	1.87E+00	9.28E-05	1.93E-02	8.55E-01	5.25E-02	7.22E+00	6.88E+00	1.46E+01
3637	484863.09	3850877.25	1.60629	0.93563	0.75979	0.54275	1.97	0.609	0.9435	0.93563	1.12E+01	1.73E+00	7.91E-05	1.91E-02	6.17E-01	5.72E-02	6.68E+00	6.36E+00	1.39E+01
3638	485363.09	3850877.25	1.50674	0.84062	0.63385	0.60873	2.502	0.606	0.8478	0.84062	1.05E+01	1.55E+00	6.60E-05	2.14E-02	7.84E-01	5.70E-02	6.01E+00	5.72E+00	1.32E+01
3639	485863.09	3850877.25	1.15848	0.71164	0.76961	0.56034	3.329	0.461	0.7184	0.71164	8.08E+00	1.31E+00	8.01E-05	1.97E-02	1.04E+00	4.34E-02	5.09E+00	4.84E+00	1.07E+01
3640	486363.09	3850877.25	1.11814	0.67561	0.75771	0.66225	3.119	0.411	0.6815	0.67561	7.80E+00	1.25E+00	7.89E-05	2.33E-02	9.77E-01	3.86E-02	4.83E+00	4.59E+00	1.03E+01
3641	486863.09	3850877.25	1.06271	0.62568	0.70143	0.60271	1.664	0.452	0.6308	0.62568	7.41E+00	1.16E+00	7.30E-05	2.12E-02	5.21E-01	4.25E-02	4.47E+00	4.25E+00	9.36E+00
3642	487363.09	3850877.25	0.93756	0.57944	0.65755	0.45374	1.45	0.461	0.5851	0.57944	6.54E+00	1.07E+00	6.85E-05	1.60E-02	4.54E-01	4.33E-02	4.15E+00	3.94E+00	8.33E+00
3643	487863.09	3850877.25	0.86655	0.56427	0.61281	0.38348	2.582	0.464	0.5695	0.56427	6.04E+00	1.04E+00	6.38E-05	1.35E-02	8.09E-01	4.36E-02	4.04E+00	3.84E+00	8.15E+00
3644	488363.09	3850877.25	0.80359	0.55083	0.57705	0.33478	2.907	0.456	0.556	0.55083	5.60E+00	1.02E+00	6.01E-05	1.18E-02	9.11E-01	4.28E-02	3.94E+00	3.75E+00	7.78E+00

3645	488863.09	3850877.25	0.79646	0.5278	0.5965	0.43247	1.566	0.391	0.5328	0.5278	5.55E+00	9.75E-01	6.21E-05	1.52E-02	4.91E-01	3.68E-02	3.77E+00	3.59E+00	7.26E+00
3646	489363.09	3850877.25	0.71104	0.50343	0.53074	0.53383	1.926	0.345	0.5081	0.50343	4.96E+00	9.30E-01	5.53E-05	1.88E-02	6.03E-01	3.24E-02	3.60E+00	3.42E+00	6.72E+00
3647	489863.09	3850877.25	0.63762	0.46679	0.61178	0.55396	2.379	0.329	0.471	0.46679	4.45E+00	8.62E-01	6.37E-05	1.95E-02	7.46E-01	3.09E-02	3.34E+00	3.17E+00	6.27E+00
3648	490363.09	3850877.25	0.61639	0.44287	0.52593	0.45187	1.372	0.324	0.4468	0.44287	4.30E+00	8.18E-01	5.48E-05	1.59E-02	4.30E-01	3.05E-02	3.17E+00	3.01E+00	5.75E+00
3649	490863.09	3850877.25	0.61799	0.42055	0.42846	0.49978	1.432	0.317	0.4242	0.42055	4.31E+00	7.77E-01	4.46E-05	1.76E-02	4.49E-01	2.98E-02	3.01E+00	2.86E+00	5.73E+00
3650	491363.09	3850877.25	0.54066	0.39066	0.52907	0.45875	1.835	0.301	0.3947	0.39066	3.77E+00	7.22E-01	5.51E-05	1.61E-02	5.75E-01	2.83E-02	2.80E+00	2.66E+00	5.25E+00
3651	491863.09	3850877.25	0.57271	0.32111	0.47985	0.46456	1.258	0.28	0.324	0.32111	3.99E+00	5.93E-01	5.00E-05	1.64E-02	3.94E-01	2.63E-02	2.30E+00	2.18E+00	5.13E+00
3652	492363.09	3850877.25	0.59486	0.30497	0.4314	0.37615	1.454	0.264	0.3075	0.30497	4.15E+00	5.63E-01	4.49E-05	1.32E-02	4.56E-01	2.49E-02	2.18E+00	2.07E+00	5.31E+00
3653	492863.09	3850877.25	0.51266	0.27964	0.40525	0.3244	1.486	0.267	0.2837	0.27964	3.57E+00	5.16E-01	4.22E-05	1.14E-02	4.66E-01	2.51E-02	2.01E+00	1.90E+00	4.70E+00
3654	493363.09	3850877.25	0.48735	0.268	0.35083	0.34313	1.193	0.272	0.2721	0.268	3.40E+00	4.95E-01	3.65E-05	1.21E-02	3.74E-01	2.56E-02	1.93E+00	1.82E+00	4.41E+00
3655	493863.09	3850877.25	0.52142	0.27656	0.34347	0.34696	1.101	0.249	0.2789	0.27656	3.64E+00	5.11E-01	3.58E-05	1.22E-02	3.45E-01	2.34E-02	1.98E+00	1.88E+00	4.62E+00
3656	494363.09	3850877.25	0.58639	0.2718	0.34435	0.32621	1.192	0.246	0.274	0.2718	4.09E+00	5.02E-01	3.58E-05	1.15E-02	3.74E-01	2.31E-02	1.94E+00	1.85E+00	5.09E+00
3657	494863.09	3850877.25	0.64839	0.28087	0.40814	0.32983	1.523	0.258	0.2832	0.28087	4.52E+00	5.19E-01	4.25E-05	1.16E-02	4.77E-01	2.43E-02	2.01E+00	1.91E+00	5.65E+00
3658	495363.09	3850877.25	0.65735	0.30417	0.43605	0.44787	1.155	0.283	0.3067	0.30417	4.58E+00	5.62E-01	4.54E-05	1.58E-02	3.62E-01	2.66E-02	2.17E+00	2.07E+00	5.65E+00
3659	495863.09	3850877.25	0.64862	0.29489	0.41771	0.43087	1.243	0.285	0.2973	0.29489	4.52E+00	5.45E-01	4.35E-05	1.52E-02	3.89E-01	2.68E-02	2.11E+00	2.01E+00	5.60E+00
3660	496363.09	3850877.25	0.6364	0.30518	0.42123	0.45379	1.337	0.294	0.3078	0.30518	4.44E+00	5.64E-01	4.39E-05	1.60E-02	4.19E-01	2.77E-02	2.18E+00	2.08E+00	5.57E+00
3661	496863.09	3850877.25	0.62353	0.32411	0.36829	0.56219	1.301	0.316	0.3269	0.32411	4.35E+00	5.99E-01	3.83E-05	1.98E-02	4.08E-01	2.97E-02	2.32E+00	2.20E+00	5.52E+00
3662	497363.09	3850877.25	0.60109	0.31434	0.34914	0.48376	1.236	0.32	0.317	0.31434	4.19E+00	5.81E-01	3.63E-05	1.70E-02	3.87E-01	3.01E-02	2.25E+00	2.14E+00	5.31E+00
3663	497863.09	3850877.25	0.56389	0.29571	0.37264	0.48493	1.133	0.309	0.2983	0.29571	3.93E+00	5.46E-01	3.88E-05	1.71E-02	3.55E-01	2.91E-02	2.11E+00	2.01E+00	4.98E+00
3664	498363.09	3850877.25	0.53088	0.27259	0.37369	0.45076	1.09	0.293	0.2749	0.27259	3.70E+00	5.03E-01	3.89E-05	1.59E-02	3.41E-01	2.75E-02	1.95E+00	1.85E+00	4.68E+00
3665	471363.09	3851377.25	1.00874	0.52076	0.51944	1.03574	1.644	0.752	0.5478	0.52076	7.03E+00	9.62E-01	5.41E-05	3.65E-02	5.15E-01	7.07E-02	3.88E+00	3.54E+00	8.96E+00
3666	471863.09	3851377.25	0.99234	0.64743	0.57069	1.06875	1.582	0.822	0.6864	0.64743	6.92E+00	1.20E+00	5.94E-05	3.76E-02	4.96E-01	7.73E-02	4.86E+00	4.40E+00	9.19E+00
3667	472363.09	3851377.25	0.94852	0.65766	0.56978	0.91824	1.531	0.742	0.6747	0.65766	6.61E+00	1.21E+00	5.93E-05	3.23E-02	4.80E-01	6.98E-02	4.78E+00	4.47E+00	8.72E+00
3668	472863.09	3851377.25	0.93568	0.66582	0.59067	0.74867	1.359	0.653	0.6821	0.66582	6.52E+00	1.23E+00	6.15E-05	2.64E-02	4.26E-01	6.14E-02	4.83E+00	4.53E+00	8.57E+00
3669	473363.09	3851377.25	0.94066	0.58494	0.56002	0.65433	1.287	0.549	0.5908	0.58494	6.56E+00	1.08E+00	5.83E-05	2.30E-02	4.03E-01	5.16E-02	4.19E+00	3.98E+00	8.32E+00
3670	473863.09	3851377.25	0.98064	0.64508	0.57556	0.65301	1.683	0.544	0.6519	0.64508	6.84E+00	1.19E+00	5.99E-05	2.30E-02	5.27E-01	5.12E-02	4.62E+00	4.39E+00	8.86E+00
3671	474363.09	3851377.25	1.11244	0.81188	0.84079	0.65336	1.755	0.66	0.8197	0.81188	7.76E+00	1.50E+00	8.75E-05	2.30E-02	5.50E-01	6.21E-02	5.81E+00	5.52E+00	1.02E+01
3672	474863.09	3851377.25	1.28907	1.05304	1.18804	0.69718	1.472	0.787	0.971	1.05304	8.99E+00	1.94E+00	1.24E-04	2.45E-02	4.61E-01	7.40E-02	6.88E+00	7.16E+00	1.12E+01
3673	475363.09	3851377.25	1.44662	1.22768	1.37167	0.81219	1.256	0.867	1.1031	1.22768	1.01E+01	2.27E+00	1.43E-04	2.86E-02	3.94E-01	8.15E-02	7.82E+00	8.35E+00	1.23E+01
3674	475863.09	3851377.25	1.578	1.26932	1.50806	0.90049	1.184	1.016	1.1705	1.26932	1.10E+01	2.34E+00	1.57E-04	3.17E-02	3.71E-01	9.55E-02	8.29E+00	8.63E+00	1.35E+01
3675	476363.09	3851377.25	1.64885	1.20614	1.78455	0.964	1.423	1.2	1.1757	1.20614	1.15E+01	2.23E+00	1.86E-04	3.39E-02	4.46E-01	1.13E-01	8.33E+00	8.20E+00	1.44E+01
3676	476863.09	3851377.25	1.68618	1.53323	2.18882	0.98208	1.83	1.135	1.3314	1.53323	1.18E+01	2.83E+00	2.28E-04	3.46E-02	5.73E-01	1.07E-01	9.43E+00	1.04E+01	1.43E+01
3677	477363.09	3851377.25	1.73129	1.76928	2.48742	1.15004	1.996	1.108	1.4742	1.76928	1.21E+01	3.27E+00	2.59E-04	4.05E-02	6.26E-01	1.04E-01	1.04E+01	1.20E+01	1.45E+01
3678	477863.09	3851377.25	1.78067	1.85033	2.05265	1.39265	2.272	1.201	1.7663	1.85033	1.24E+01	3.42E+00	2.14E-04	4.90E-02	7.12E-01	1.13E-01	1.25E+01	1.26E+01	1.66E+01
3679	478363.09	3851377.25	1.8756	1.73945	1.38554	1.51152	2.35	1.374	1.9228	1.73945	1.31E+01	3.21E+00	1.44E-04	5.32E-02	7.36E-01	1.29E-01	1.36E+01	1.18E+01	1.90E+01
3680	478863.09	3851377.25	1.80519	2.13019	1.93369	1.44539	2.323	1.494	2.3383	2.13019	1.26E+01	3.93E+00	2.01E-04	5.09E-02	7.28E-01	1.40E-01	1.66E+01	1.45E+01	1.95E+01
3681	479363.09	3851377.25	1.83904	2.54421	2.19604	1.29527	2.054	1.101	2.6142	2.54421	1.28E+01	4.70E+00	2.29E-04	4.56E-02	6.43E-01	1.04E-01	1.85E+01	1.73E+01	1.95E+01
3682	479863.09	3851377.25	2.35353	3.47094	1.33438	1.28022	1.9	1.803	3.5241	3.47094	1.64E+01	6.41E+00	1.39E-04	4.51E-02	5.95E-01	1.69E-01	2.50E+01	2.36E+01	2.50E+01
3683	480363.09	3851377.25	2.82198	6.49759	0.89294	1.6776	2.12	2.352	6.6406	6.49759	1.97E+01	1.20E+01	9.30E-05	5.90E-02	6.64E-01	2.21E-01	4.71E+01	4.42E+01	3.55E+01
3684	480863.09	3851377.25	4.53586	14.96202	1.14398	1.602	2.461	1.976	15.301	14.96202	3.16E+01	2.76E+01	1.19E-04	5.64E-02	7.71E-01	1.86E-01	1.08E+02	1.02E+02	6.69E+01
3685	481363.09	3851377.25	3.46159	6.24391	1.73906	1.45817	2.211	1.781	5.8494	6.24391	2.41E+01	1.15E+01	1.81E-04	5.13E-02	6.93E-01	1.67E-01	4.14E+01	4.25E+01	3.56E+01
3686	481863.09	3851377.25	3.1572	3.7581	1.66392	1.91383	1.515	1.69	3.7885	3.7581	2.20E+01	6.94E+00	1.73E-04	6.74E-02	4.75E-01	1.59E-01	2.68E+01	2.56E+01	3.09E+01
3687	482363.09	3851377.25	2.95721	2.8437	1.3012	1.87606	3.767	1.448	2.8546	2.8437	2.06E+01	5.25E+00	1.35E-04	6.60E-02	1.18E+00	1.36E-01	2.02E+01	1.93E+01	2.81E+01
3688	482863.09	3851377.25	2.84782	2.08754	0.80049	1.28643	4.932	1.064	2.0945	2.08754	1.99E+01	3.86E+00	8.33E-05	4.53E-02	1.55E+00	1.00E-01	1.48E+01	1.42E+01	2.60E+01
3689	483363.09	3851377.25	2.39643	1.4722	0.74275	0.76355	1.284	0.658	1.4793	1.4722	1.67E+01	2.72E+00	7.73E-05	2.69E-02	4.02E-01	6.18E-02	1.05E+01	1.00E+01	2.04E+01
3690	483863.09	3851377.25	1.95363	1.20114	0.64246	0.67956	0.967	0.578	1.2086	1.20114	1.36E+01	2.22E+00	6.69E-05	2.39E-02	3.03E-01	5.44E-02	8.56E+00	8.17E+00	1.66E+01
3691	484363.09	3851377.25	1.93213	1.3713	1.03943	0.75575	3.629	0.79	1.38	1.3713	1.35E+01	2.53E+00	1.08E-04	2.66E-02	1.14E+00	7.43E-02	9.78E+00	9.32E+00	1.77E+01
3692	484863.09	3851377.25	1.57386	1.01783	0.66625	0.50817	2.364	0.602	1.0239	1.01783	1.10E+01	1.88E+00	6.94E-05	1.79E-02	7.41E-01	5.66E-02	7.25E+00	6.92E+00	1.40E+01
3693	485363.09	3851377.25	1.75691	1.1786	0.93844	0.70474	2.173	0.709	1.1867	1.1786	1.22E+01	2.18E+00	9.77E-05	2.48E-02	6.81E-01	6.66E-02	8.41E+00	8.01E+00	1.56E+01
3694	485863.09	3851377.25	1.4104	1.00876	0.84237	0.63905	3.566	0.526	1.0162	1.00876	9.83E+00	1.86E+00	8.77E-05	2.25E-02	1.12E+00	4.94E-02	7.20E+00	6.86E+00	1.32E+01
3695	486363.09	3851377.25	1.43065	0.96756	0.76289	0.74583	4.002	0.461	0.9755	0.96756	9.97E+00	1.79E+00	7.94E-05	2.63E-02	1.25E+00	4.33E-02	6.91E+00	6.58E+00	1.34E+01
3696	486863.09	3851377.25	1.30915	0.86773	0.88882	0.64125	2.245	0.496	0.8751	0.86773	9.13E+00	1.60E+00	9.25E-05	2.26E-02	7.03E-01	4.66E-02	6.20E+00	5.90E+00	1.18E+01
3697	487363.09	3851377.25	0.924	0.73789	0.69643	0.48828	1.479	0.464	0.7445	0.73789	6.44E+00	1.36E+00	7.25E-05	1.72E-02	4.63E-01	4.37E-02	5.28E+00	5.02E+00	8.59E+00
3698	487863.09	3851377.25	0.95538	0.68258	0.60429	0.43198	2.829	0.483	0.689	0.68258	6.66E+00	1.26E+00	6.29E-05	1.52E-02	8.86E-01	4.54E-02	4.88E+00	4.64E+00	9.11E+00
3699	488363.09	3851377.25	0.91248	0.60475	0.62219	0.38639	2.939	0.489	0.6105	0.60475	6.36E+00	1.12E+00	6.48E-05	1.36E-02	9.21E-01	4.60E-02	4.33E+00	4.11E+00	8.67E+00
3700	488863.09	3851377.25	0.8712	0.55257	0.68662	0.46684	1.612	0.44	0.5575	0.55257	6.07E+00	1.02E+00	7.15E-05	1.64E-02	5.05E-01	4.13E-02	3.95E+00	3.76E+00	7.85E+00
3701	489363.09	3851377.25	0.75902	0.51309	0.69185	0.55593	2.227	0.366	0.5174	0.51309	5.29E+00	9.48E-01	7.20E-05	1.96E-02	6.98E-01	3.44E-02	3.67E+00	3.49E+00	7.17E+00

3702	489863.09	3851377.25	0.67816	0.4772	0.64092	0.57481	2.441	0.362	0.4814	0.4772	4.73E+00	8.81E-01	6.67E-05	2.02E-02	7.65E-01	3.40E-02	3.41E+00	3.24E+00	6.59E+00
3703	490363.09	3851377.25	0.63502	0.4486	0.61258	0.46203	1.509	0.361	0.4524	0.4486	4.43E+00	8.29E-01	6.38E-05	1.63E-02	4.73E-01	3.39E-02	3.21E+00	3.05E+00	5.93E+00
3704	490863.09	3851377.25	0.66358	0.42686	0.58617	0.52551	1.741	0.318	0.4305	0.42686	4.63E+00	7.88E-01	6.10E-05	1.85E-02	5.46E-01	2.99E-02	3.05E+00	2.90E+00	6.16E+00
3705	491363.09	3851377.25	0.68429	0.40394	0.54823	0.4735	2.167	0.31	0.4075	0.40394	4.77E+00	7.46E-01	5.71E-05	1.67E-02	6.79E-01	2.92E-02	2.89E+00	2.75E+00	6.38E+00
3706	491863.09	3851377.25	0.63775	0.35897	0.47368	0.49874	1.608	0.288	0.3626	0.35897	4.45E+00	6.63E-01	4.93E-05	1.76E-02	5.04E-01	2.71E-02	2.57E+00	2.44E+00	5.79E+00
3707	492363.09	3851377.25	0.66531	0.33289	0.51079	0.40298	1.799	0.275	0.3356	0.33289	4.64E+00	6.15E-01	5.32E-05	1.42E-02	5.64E-01	2.58E-02	2.38E+00	2.26E+00	5.97E+00
3708	492863.09	3851377.25	0.67288	0.31363	0.40278	0.35824	1.863	0.278	0.3162	0.31363	4.69E+00	5.79E-01	4.19E-05	1.26E-02	5.84E-01	2.61E-02	2.24E+00	2.13E+00	6.00E+00
3709	493363.09	3851377.25	0.52418	0.27682	0.30999	0.35335	1.157	0.252	0.2796	0.27682	3.65E+00	5.11E-01	3.23E-05	1.24E-02	3.62E-01	2.37E-02	1.98E+00	1.88E+00	4.66E+00
3710	493863.09	3851377.25	0.55963	0.28081	0.39083	0.35057	1.255	0.26	0.2831	0.28081	3.90E+00	5.19E-01	4.07E-05	1.23E-02	3.93E-01	2.44E-02	2.01E+00	1.91E+00	4.95E+00
3711	494363.09	3851377.25	0.67359	0.30078	0.46348	0.34845	1.563	0.288	0.3034	0.30078	4.70E+00	5.56E-01	4.83E-05	1.23E-02	4.90E-01	2.70E-02	2.15E+00	2.05E+00	5.89E+00
3712	494863.09	3851377.25	0.67367	0.29765	0.4325	0.42517	1.236	0.292	0.3002	0.29765	4.70E+00	5.50E-01	4.50E-05	1.50E-02	3.87E-01	2.74E-02	2.13E+00	2.02E+00	5.78E+00
3713	495363.09	3851377.25	0.70184	0.35396	0.42358	0.50237	1.416	0.333	0.3569	0.35396	4.89E+00	6.54E-01	4.41E-05	1.77E-02	4.44E-01	3.13E-02	2.53E+00	2.41E+00	6.16E+00
3714	495863.09	3851377.25	0.69844	0.35443	0.39538	0.5241	1.487	0.34	0.3574	0.35443	4.87E+00	6.55E-01	4.12E-05	1.84E-02	4.66E-01	3.20E-02	2.53E+00	2.41E+00	6.16E+00
3715	496363.09	3851377.25	0.697	0.35251	0.41235	0.63021	1.454	0.333	0.3555	0.35251	4.86E+00	6.51E-01	4.29E-05	2.22E-02	4.56E-01	3.13E-02	2.52E+00	2.40E+00	6.14E+00
3716	496863.09	3851377.25	0.71765	0.34559	0.43218	0.55196	1.328	0.336	0.3486	0.34559	5.00E+00	6.38E-01	4.50E-05	1.94E-02	4.16E-01	3.15E-02	2.47E+00	2.35E+00	6.23E+00
3717	497363.09	3851377.25	0.66267	0.33306	0.45717	0.60106	1.336	0.322	0.3356	0.33306	4.62E+00	6.15E-01	4.76E-05	2.12E-02	4.18E-01	3.03E-02	2.38E+00	2.26E+00	5.82E+00
3718	497863.09	3851377.25	0.57859	0.31742	0.45368	0.51634	1.207	0.301	0.3201	0.31742	4.03E+00	5.86E-01	4.72E-05	1.82E-02	3.78E-01	2.83E-02	2.27E+00	2.16E+00	5.15E+00
3719	498363.09	3851377.25	0.51538	0.27049	0.39245	0.40302	1.578	0.298	0.2727	0.27049	3.59E+00	5.00E-01	4.09E-05	1.42E-02	4.94E-01	2.80E-02	1.93E+00	1.84E+00	4.72E+00
3720	471363.09	3851877.25	1.50083	0.52032	0.78915	1.10819	1.711	0.855	0.5649	0.52032	1.05E+01	9.61E-01	8.22E-05	3.90E-02	5.36E-01	8.04E-02	4.00E+00	3.54E+00	1.25E+01
3721	471863.09	3851877.25	1.35604	0.53566	0.70492	1.12623	1.768	0.84	0.5728	0.53566	9.45E+00	9.89E-01	7.34E-05	3.96E-02	5.54E-01	7.90E-02	4.06E+00	3.64E+00	1.15E+01
3722	472363.09	3851877.25	1.24598	0.588	0.69996	1.27693	1.829	0.939	0.6631	0.588	8.69E+00	1.09E+00	7.29E-05	4.49E-02	5.73E-01	8.82E-02	4.70E+00	4.00E+00	1.12E+01
3723	472863.09	3851877.25	1.21633	0.60213	0.6608	1.31856	1.836	0.966	0.7188	0.60213	8.48E+00	1.11E+00	6.88E-05	4.64E-02	5.75E-01	9.08E-02	5.09E+00	4.09E+00	1.13E+01
3724	473363.09	3851877.25	1.14829	0.55866	0.55673	1.20429	1.665	0.891	0.6703	0.55866	8.01E+00	1.03E+00	5.80E-05	4.24E-02	5.22E-01	8.37E-02	4.75E+00	3.80E+00	1.06E+01
3725	473863.09	3851877.25	1.09601	0.57267	0.5715	1.0849	1.548	0.834	0.6577	0.57267	7.64E+00	1.06E+00	5.95E-05	3.82E-02	4.85E-01	7.84E-02	4.66E+00	3.89E+00	1.01E+01
3726	474363.09	3851877.25	1.10002	0.65254	0.66413	0.9952	1.413	0.794	0.6837	0.65254	7.67E+00	1.21E+00	6.91E-05	3.50E-02	4.43E-01	7.46E-02	4.84E+00	4.44E+00	9.83E+00
3727	474863.09	3851877.25	1.15261	0.75565	0.73878	0.8929	1.775	0.844	0.7883	0.75565	8.04E+00	1.40E+00	7.69E-05	3.14E-02	5.56E-01	7.94E-02	5.59E+00	5.14E+00	1.05E+01
3728	475363.09	3851877.25	1.25739	0.85084	0.99736	0.79397	1.955	0.843	0.8644	0.85084	8.77E+00	1.57E+00	1.04E-04	2.79E-02	6.13E-01	7.92E-02	6.12E+00	5.79E+00	1.14E+01
3729	475863.09	3851877.25	1.43792	1.05644	1.33831	0.81016	1.736	0.833	0.9579	1.05644	1.00E+01	1.95E+00	1.39E-04	2.85E-02	5.44E-01	7.83E-02	6.79E+00	7.18E+00	1.22E+01
3730	476363.09	3851877.25	1.64818	1.07334	1.40856	0.92088	1.464	0.869	0.9534	1.07334	1.15E+01	1.98E+00	1.47E-04	3.24E-02	4.59E-01	8.17E-02	6.75E+00	7.30E+00	1.35E+01
3731	476863.09	3851877.25	1.79231	1.15548	1.57101	1.02526	1.309	1.086	1.0754	1.15548	1.25E+01	2.13E+00	1.64E-04	3.61E-02	4.10E-01	1.02E-01	7.62E+00	7.86E+00	1.49E+01
3732	477363.09	3851877.25	1.83821	1.30977	1.97362	1.02855	1.645	1.231	1.1931	1.30977	1.28E+01	2.42E+00	2.05E-04	3.62E-02	5.16E-01	1.16E-01	8.45E+00	8.91E+00	1.54E+01
3733	477863.09	3851877.25	1.8945	1.62777	2.51394	1.18038	2.149	1.195	1.2879	1.62777	1.32E+01	3.01E+00	2.62E-04	4.15E-02	6.73E-01	1.12E-01	9.13E+00	1.11E+01	1.51E+01
3734	478363.09	3851877.25	1.96479	1.75817	2.46785	1.4454	2.426	1.257	1.5596	1.75817	1.37E+01	3.25E+00	2.57E-04	5.09E-02	7.60E-01	1.18E-01	1.11E+01	1.20E+01	1.70E+01
3735	478863.09	3851877.25	2.06153	1.60286	1.68486	1.6677	2.708	1.353	1.749	1.60286	1.44E+01	2.96E+00	1.75E-04	5.87E-02	8.48E-01	1.27E-01	1.24E+01	1.09E+01	1.99E+01
3736	479363.09	3851877.25	2.01585	1.68623	2.07245	1.74807	2.633	1.653	1.9563	1.68623	1.41E+01	3.11E+00	2.16E-04	6.15E-02	8.25E-01	1.55E-01	1.39E+01	1.15E+01	2.06E+01
3737	479863.09	3851877.25	1.99668	2.00541	2.61288	1.69794	2.509	1.398	2.2955	2.00541	1.39E+01	3.70E+00	2.72E-04	5.98E-02	7.86E-01	1.31E-01	1.63E+01	1.36E+01	2.12E+01
3738	480363.09	3851877.25	2.57259	2.41835	1.51076	1.47503	2.213	2.138	2.4808	2.41835	1.79E+01	4.47E+00	1.57E-04	5.19E-02	6.93E-01	2.01E-01	1.76E+01	1.64E+01	2.45E+01
3739	480863.09	3851877.25	2.95335	3.58621	1.02149	1.87118	2.267	2.504	3.6036	3.58621	2.06E+01	6.62E+00	1.06E-04	6.59E-02	7.10E-01	2.35E-01	2.55E+01	2.44E+01	2.94E+01
3740	481363.09	3851877.25	3.95026	7.72571	1.93945	2.03602	2.66	2.47	7.8817	7.72571	2.75E+01	1.43E+01	2.02E-04	7.17E-02	8.33E-01	2.32E-01	5.58E+01	5.25E+01	4.63E+01
3741	481863.09	3851877.25	3.89603	8.00267	1.54713	1.6285	2.532	1.894	8.1443	8.00267	2.72E+01	1.48E+01	1.61E-04	5.73E-02	7.93E-01	1.78E-01	5.77E+01	5.44E+01	4.63E+01
3742	482363.09	3851877.25	3.24203	4.0415	1.89078	2.21606	1.598	1.752	3.8961	4.0415	2.26E+01	7.46E+00	1.97E-04	7.80E-02	5.01E-01	1.65E-01	2.76E+01	2.75E+01	3.09E+01
3743	482863.09	3851877.25	2.94723	2.2016	0.80837	1.65061	3.886	1.144	2.2777	2.2016	2.05E+01	4.07E+00	8.42E-05	5.81E-02	1.22E+00	1.07E-01	1.61E+01	1.50E+01	2.72E+01
3744	483363.09	3851877.25	2.95184	1.95282	0.99498	1.25525	4.812	1.041	2.0186	1.95282	2.06E+01	3.61E+00	1.04E-04	4.42E-02	1.51E+00	9.79E-02	1.43E+01	1.33E+01	2.69E+01
3745	483863.09	3851877.25	2.56594	1.58594	0.83647	1.07444	1.2	0.942	1.5973	1.58594	1.79E+01	2.93E+00	8.71E-05	3.78E-02	3.76E-01	8.86E-02	1.13E+01	1.08E+01	2.19E+01
3746	484363.09	3851877.25	2.21194	1.74059	1.09894	1.03891	2.834	1.015	1.7509	1.74059	1.54E+01	3.21E+00	1.14E-04	3.66E-02	8.88E-01	9.54E-02	1.24E+01	1.18E+01	2.02E+01
3747	484863.09	3851877.25	2.04022	1.58998	0.87541	0.74946	4.838	0.855	1.5985	1.58998	1.42E+01	2.94E+00	9.11E-05	2.64E-02	1.52E+00	8.03E-02	1.13E+01	1.08E+01	1.93E+01
3748	485363.09	3851877.25	1.97174	1.50876	1.00816	0.85219	2.908	0.834	1.5178	1.50876	1.37E+01	2.79E+00	1.05E-04	3.00E-02	9.11E-01	7.84E-02	1.08E+01	1.03E+01	1.80E+01
3749	485863.09	3851877.25	1.89263	1.32762	1.01861	0.93792	3.783	0.732	1.3366	1.32762	1.32E+01	2.45E+00	1.06E-04	3.30E-02	1.19E+00	6.88E-02	9.47E+00	9.03E+00	1.74E+01
3750	486363.09	3851877.25	1.68576	1.11468	0.8693	0.7483	4.624	0.531	1.1218	1.11468	1.18E+01	2.06E+00	9.05E-05	2.63E-02	1.45E+00	4.99E-02	7.95E+00	7.58E+00	1.57E+01
3751	486863.09	3851877.25	1.50477	1.02338	0.71987	0.70304	3.116	0.5	1.0295	1.02338	1.05E+01	1.89E+00	7.49E-05	2.47E-02	9.76E-01	4.70E-02	7.29E+00	6.96E+00	1.38E+01
3752	487363.09	3851877.25	1.25893	0.95865	0.80304	0.60145	1.952	0.496	0.9648	0.95865	8.78E+00	1.77E+00	8.36E-05	2.12E-02	6.12E-01	4.66E-02	6.84E+00	6.52E+00	1.15E+01
3753	487863.09	3851877.25	0.94264	0.82603	0.80337	0.44368	2.972	0.502	0.8317	0.82603	6.57E+00	1.53E+00	8.36E-05	1.56E-02	9.31E-01	4.72E-02	5.89E+00	5.62E+00	9.37E+00
3754	488363.09	3851877.25	0.91099	0.78045	0.75558	0.39675	2.942	0.491	0.7865	0.78045	6.35E+00	1.44E+00	7.87E-05	1.40E-02	9.22E-01	4.61E-02	5.57E+00	5.31E+00	9.04E+00
3755	488863.09	3851877.25	0.81915	0.68754	0.79058	0.45898	1.759	0.415	0.6931	0.68754	5.71E+00	1.27E+00	8.23E-05	1.62E-02	5.51E-01	3.90E-02	4.91E+00	4.68E+00	7.82E+00
3756	489363.09	3851877.25	0.68551	0.59729	0.8357	0.57502	2.411	0.356	0.602	0.59729	4.78E+00	1.10E+00	8.70E-05	2.02E-02	7.55E-01	3.35E-02	4.27E+00	4.06E+00	6.90E+00
3757	489863.09	3851877.25	0.66835	0.53248	0.64104	0.58517	1.948	0.338	0.5365	0.53248	4.66E+00	9.83E-01	6.67E-05	2.06E-02	6.10E-01	3.17E-02	3.80E+00	3.62E+00	6.49E+00
3758	490363.09	3851877.25	0.69627	0.49262	0.53644	0.48233	1.698	0.325	0.4969	0.49262	4.85E+00	9.10E-01	5.58E-05	1.70E-02	5.32E-01	3.06E-02	3.52E+00	3.35E+00	6.51E+00

3759	490863.09	3851877.25	0.71386	0.46427	0.61873	0.52509	2.195	0.324	0.468	0.46427	4.98E+00	8.57E-01	6.44E-05	1.85E-02	6.88E-01	3.05E-02	3.32E+00	3.16E+00	6.73E+00
3760	491363.09	3851877.25	0.71797	0.44242	0.70265	0.48943	2.471	0.32	0.446	0.44242	5.01E+00	8.17E-01	7.32E-05	1.72E-02	7.74E-01	3.01E-02	3.16E+00	3.01E+00	6.80E+00
3761	491863.09	3851877.25	0.72033	0.42215	0.50877	0.52739	2.75	0.309	0.4255	0.42215	5.02E+00	7.80E-01	5.30E-05	1.86E-02	8.62E-01	2.91E-02	3.01E+00	2.87E+00	6.86E+00
3762	492363.09	3851877.25	0.70922	0.4015	0.4861	0.4126	2.436	0.283	0.405	0.4015	4.94E+00	7.42E-01	5.06E-05	1.45E-02	7.63E-01	2.66E-02	2.87E+00	2.73E+00	6.63E+00
3763	492863.09	3851877.25	0.66731	0.31915	0.41741	0.36601	1.802	0.266	0.3215	0.31915	4.65E+00	5.89E-01	4.35E-05	1.29E-02	5.64E-01	2.50E-02	2.28E+00	2.17E+00	5.95E+00
3764	493363.09	3851877.25	0.6863	0.35411	0.51578	0.46313	2.059	0.301	0.3576	0.35411	4.78E+00	6.54E-01	5.37E-05	1.63E-02	6.45E-01	2.83E-02	2.53E+00	2.41E+00	6.25E+00
3765	493863.09	3851877.25	0.81072	0.39286	0.59216	0.4818	1.608	0.397	0.3961	0.39286	5.65E+00	7.26E-01	6.16E-05	1.70E-02	5.04E-01	3.73E-02	2.81E+00	2.67E+00	7.07E+00
3766	494363.09	3851877.25	0.72841	0.37296	0.47552	0.43834	1.366	0.345	0.3761	0.37296	5.08E+00	6.89E-01	4.95E-05	1.54E-02	4.28E-01	3.24E-02	2.67E+00	2.54E+00	6.37E+00
3767	494863.09	3851877.25	0.75629	0.37849	0.51057	0.62564	1.566	0.373	0.3816	0.37849	5.27E+00	6.99E-01	5.32E-05	2.20E-02	4.91E-01	3.50E-02	2.70E+00	2.57E+00	6.65E+00
3768	495363.09	3851877.25	0.77606	0.38353	0.54703	0.61062	1.691	0.381	0.3867	0.38353	5.41E+00	7.08E-01	5.69E-05	2.15E-02	5.30E-01	3.58E-02	2.74E+00	2.61E+00	6.84E+00
3769	495863.09	3851877.25	0.80562	0.38267	0.55177	0.70551	1.647	0.37	0.3859	0.38267	5.62E+00	7.07E-01	5.74E-05	2.48E-02	5.16E-01	3.48E-02	2.73E+00	2.60E+00	7.03E+00
3770	496363.09	3851877.25	0.80897	0.37104	0.50731	0.6083	1.679	0.355	0.3742	0.37104	5.64E+00	6.85E-01	5.28E-05	2.14E-02	5.26E-01	3.33E-02	2.65E+00	2.52E+00	7.03E+00
3771	496863.09	3851877.25	0.81157	0.35799	0.51706	0.68037	1.468	0.336	0.3612	0.35799	5.66E+00	6.61E-01	5.38E-05	2.39E-02	4.60E-01	3.16E-02	2.56E+00	2.43E+00	6.96E+00
3772	497363.09	3851877.25	0.81152	0.34075	0.54337	0.59713	1.794	0.325	0.3439	0.34075	5.66E+00	6.29E-01	5.66E-05	2.10E-02	5.62E-01	3.05E-02	2.44E+00	2.32E+00	7.02E+00
3773	497863.09	3851877.25	0.62623	0.29794	0.39651	0.41733	2.385	0.311	0.3008	0.29794	4.37E+00	5.50E-01	4.13E-05	1.47E-02	7.47E-01	2.92E-02	2.13E+00	2.03E+00	5.81E+00
3774	498363.09	3851877.25	0.55325	0.26663	0.35685	0.40189	2.579	0.305	0.2693	0.26663	3.86E+00	4.92E-01	3.72E-05	1.41E-02	8.08E-01	2.87E-02	1.91E+00	1.81E+00	5.30E+00
3775	471363.09	3852377.25	1.91496	0.48211	0.86515	0.93585	2.219	0.811	0.4675	0.48211	1.34E+01	8.90E-01	9.01E-05	3.29E-02	6.95E-01	7.63E-02	3.31E+00	3.28E+00	1.51E+01
3776	471863.09	3852377.25	1.85682	0.53601	0.86702	1.00605	2.219	0.825	0.5385	0.53601	1.29E+01	9.90E-01	9.03E-05	3.54E-02	6.95E-01	7.75E-02	3.82E+00	3.64E+00	1.49E+01
3777	472363.09	3852377.25	1.76944	0.53498	0.89412	1.05983	2	0.852	0.5553	0.53498	1.23E+01	9.88E-01	9.31E-05	3.73E-02	6.27E-01	8.01E-02	3.93E+00	3.64E+00	1.44E+01
3778	472863.09	3852377.25	1.66544	0.56551	0.90214	1.18264	1.923	0.938	0.5698	0.56551	1.16E+01	1.04E+00	9.39E-05	4.16E-02	6.02E-01	8.82E-02	4.04E+00	3.85E+00	1.36E+01
3779	473363.09	3852377.25	1.54248	0.58575	1.00636	1.2771	2.023	0.986	0.6276	0.58575	1.08E+01	1.08E+00	1.05E-04	4.49E-02	6.34E-01	9.27E-02	4.45E+00	3.98E+00	1.31E+01
3780	473863.09	3852377.25	1.44389	0.59138	0.90976	1.33893	2	1.01	0.6891	0.59138	1.01E+01	1.09E+00	9.47E-05	4.71E-02	6.26E-01	9.49E-02	4.88E+00	4.02E+00	1.28E+01
3781	474363.09	3852377.25	1.41548	0.59481	0.78012	1.39279	1.933	1.024	0.7433	0.59481	9.87E+00	1.10E+00	8.12E-05	4.90E-02	6.06E-01	9.63E-02	5.27E+00	4.04E+00	1.29E+01
3782	474863.09	3852377.25	1.43493	0.67107	0.74562	1.45556	2.028	1.078	0.8623	0.67107	1.00E+01	1.24E+00	7.76E-05	5.12E-02	6.35E-01	1.01E-01	6.11E+00	4.56E+00	1.36E+01
3783	475363.09	3852377.25	1.39515	0.67249	0.75253	1.42607	1.822	1.073	0.8846	0.67249	9.73E+00	1.24E+00	7.83E-05	5.02E-02	5.71E-01	1.01E-01	6.27E+00	4.57E+00	1.34E+01
3784	475863.09	3852377.25	1.36653	0.71082	0.79571	1.32753	1.774	1.087	0.892	0.71082	9.53E+00	1.31E+00	8.28E-05	4.67E-02	5.56E-01	1.02E-01	6.32E+00	4.83E+00	1.30E+01
3785	476363.09	3852377.25	1.47711	0.70536	0.92899	1.12493	2.179	1.033	0.8069	0.70536	1.03E+01	1.30E+00	9.67E-05	3.96E-02	6.83E-01	9.71E-02	5.72E+00	4.80E+00	1.33E+01
3786	476863.09	3852377.25	1.70555	0.87402	1.23603	1.00522	2.066	0.962	0.8725	0.87402	1.19E+01	1.61E+00	1.29E-04	3.54E-02	6.47E-01	9.04E-02	6.18E+00	5.94E+00	1.45E+01
3787	477363.09	3852377.25	1.91609	1.01199	1.35871	1.04738	1.705	0.873	0.9915	1.01199	1.34E+01	1.87E+00	1.41E-04	3.69E-02	5.34E-01	8.21E-02	7.03E+00	6.88E+00	1.60E+01
3788	477863.09	3852377.25	2.02133	1.10994	1.14678	1.02023	1.303	0.817	1.0869	1.10994	1.41E+01	2.05E+00	1.19E-04	3.59E-02	4.08E-01	7.68E-02	7.70E+00	7.55E+00	1.68E+01
3789	478363.09	3852377.25	2.00094	0.8919	1.19824	0.95578	1.644	0.727	0.8413	0.8919	1.39E+01	1.65E+00	1.25E-04	3.36E-02	5.15E-01	6.83E-02	5.96E+00	6.06E+00	1.61E+01
3790	478863.09	3852377.25	2.18313	1.35296	1.80844	1.2952	2.525	1.025	1.1883	1.35296	1.52E+01	2.50E+00	1.88E-04	4.56E-02	7.91E-01	9.64E-02	8.42E+00	9.20E+00	1.79E+01
3791	479363.09	3852377.25	2.27661	1.41123	1.69925	1.70243	2.694	1.323	1.4443	1.41123	1.59E+01	2.61E+00	1.77E-04	5.99E-02	8.44E-01	1.24E-01	1.02E+01	9.60E+00	2.01E+01
3792	479863.09	3852377.25	2.32451	1.34915	1.93105	1.98801	3.231	1.67	1.75	1.34915	1.62E+01	2.49E+00	2.01E-04	7.00E-02	1.01E+00	1.57E-01	1.24E+01	9.17E+00	2.32E+01
3793	480363.09	3852377.25	2.27743	1.96882	3.15415	2.12226	3.003	1.696	2.1801	1.96882	1.59E+01	3.64E+00	3.28E-04	7.47E-02	9.41E-01	1.59E-01	1.54E+01	1.34E+01	2.27E+01
3794	480863.09	3852377.25	2.80923	2.20439	1.7537	1.95895	2.647	2.489	2.4695	2.20439	1.96E+01	4.07E+00	1.83E-04	6.89E-02	8.29E-01	2.34E-01	1.75E+01	1.50E+01	2.73E+01
3795	481363.09	3852377.25	3.4239	3.27956	1.17442	2.09977	2.546	2.669	3.3528	3.27956	2.39E+01	6.06E+00	1.22E-04	7.39E-02	7.98E-01	2.51E-01	2.38E+01	2.23E+01	3.25E+01
3796	481863.09	3852377.25	4.44966	8.46716	2.36519	2.69922	2.865	2.777	8.5952	8.46716	3.10E+01	1.56E+01	2.46E-04	9.50E-02	8.98E-01	2.61E-01	6.09E+01	5.76E+01	5.12E+01
3797	482363.09	3852377.25	3.94259	7.48025	3.23744	2.23488	2.919	2.165	7.2358	7.48025	2.75E+01	1.38E+01	3.37E-04	7.87E-02	9.15E-01	2.03E-01	5.13E+01	5.09E+01	4.29E+01
3798	482863.09	3852377.25	3.14029	3.27729	2.49938	2.33699	2.251	2.052	3.32	3.27729	2.19E+01	6.05E+00	2.60E-04	8.23E-02	7.05E-01	1.93E-01	2.35E+01	2.23E+01	3.02E+01
3799	483363.09	3852377.25	3.28085	3.34693	1.33005	2.09689	5.521	1.508	3.4619	3.34693	2.29E+01	6.18E+00	1.38E-04	7.38E-02	1.73E+00	1.42E-01	2.45E+01	2.28E+01	3.28E+01
3800	483863.09	3852377.25	2.94856	2.30517	1.19417	1.20734	4.473	1.055	2.3929	2.30517	2.06E+01	4.26E+00	1.24E-04	4.25E-02	1.40E+00	9.92E-02	1.70E+01	1.57E+01	2.76E+01
3801	484363.09	3852377.25	2.65544	1.87524	0.99528	1.30565	1.466	1.193	1.9419	1.87524	1.85E+01	3.46E+00	1.04E-04	4.60E-02	4.59E-01	1.12E-01	1.38E+01	1.28E+01	2.36E+01
3802	484863.09	3852377.25	2.43884	1.7355	1.28841	1.1333	5.74	1.107	1.749	1.7355	1.70E+01	3.21E+00	1.34E-04	3.99E-02	1.80E+00	1.04E-01	1.24E+01	1.18E+01	2.27E+01
3803	485363.09	3852377.25	2.34767	1.66761	1.11254	1.05315	6.129	1.083	1.6886	1.66761	1.64E+01	3.08E+00	1.16E-04	3.71E-02	1.92E+00	1.02E-01	1.20E+01	1.13E+01	2.21E+01
3804	485863.09	3852377.25	2.25786	1.51219	1.26055	1.0457	3.316	0.85	1.5261	1.51219	1.57E+01	2.79E+00	1.31E-04	3.68E-02	1.04E+00	7.99E-02	1.08E+01	1.03E+01	2.02E+01
3805	486363.09	3852377.25	1.90869	1.27485	0.73629	0.76282	5.358	0.621	1.2836	1.27485	1.33E+01	2.35E+00	7.67E-05	2.68E-02	1.68E+00	5.84E-02	9.09E+00	8.67E+00	1.79E+01
3806	486863.09	3852377.25	1.59216	1.16476	0.90532	0.74407	3.855	0.516	1.1721	1.16476	1.11E+01	2.15E+00	9.42E-05	2.62E-02	1.21E+00	4.85E-02	8.30E+00	7.92E+00	1.49E+01
3807	487363.09	3852377.25	1.22553	0.96332	1.08199	0.62184	2.014	0.486	0.9704	0.96332	8.54E+00	1.78E+00	1.13E-04	2.19E-02	6.31E-01	4.57E-02	6.88E+00	6.55E+00	1.13E+01
3808	487863.09	3852377.25	0.94159	0.80615	0.91722	0.46421	3.14	0.519	0.8122	0.80615	6.56E+00	1.49E+00	9.55E-05	1.63E-02	9.84E-01	4.88E-02	5.75E+00	5.48E+00	9.38E+00
3809	488363.09	3852377.25	0.85104	0.66503	0.95351	0.40599	2.989	0.46	0.6702	0.66503	5.93E+00	1.23E+00	9.93E-05	1.43E-02	9.36E-01	4.33E-02	4.75E+00	4.52E+00	8.38E+00
3810	488863.09	3852377.25	0.78251	0.57088	0.70418	0.47073	2.085	0.411	0.5749	0.57088	5.46E+00	1.05E+00	7.33E-05	1.66E-02	6.53E-01	3.87E-02	4.07E+00	3.88E+00	7.41E+00
3811	489363.09	3852377.25	0.70152	0.51147	0.61914	0.60458	2.49	0.332	0.515	0.51147	4.89E+00	9.45E-01	6.45E-05	2.13E-02	7.80E-01	3.12E-02	3.65E+00	3.48E+00	6.84E+00
3812	489863.09	3852377.25	0.60686	0.44302	0.60348	0.59563	1.65	0.328	0.4463	0.44302	4.23E+00	8.18E-01	6.28E-05	2.10E-02	5.17E-01	3.08E-02	3.16E+00	3.01E+00	5.77E+00
3813	490363.09	3852377.25	0.65318	0.48252	0.59471	0.50803	2.057	0.331	0.4859	0.48252	4.55E+00	8.91E-01	6.19E-05	1.79E-02	6.45E-01	3.11E-02	3.44E+00	3.28E+00	6.30E+00
3814	490863.09	3852377.25	0.72775	0.49757	0.52972	0.51812	2.537	0.325	0.5012	0.49757	5.07E+00	9.19E-01	5.51E-05	1.82E-02	7.95E-01	3.05E-02	3.55E+00	3.38E+00	7.00E+00
3815	491363.09	3852377.25	0.78291	0.58371	0.61167	0.55298	2.807	0.383	0.5879	0.58371	5.46E+00	1.08E+00	6.37E-05	1.95E-02	8.79E-01	3.60E-02	4.17E+00	3.97E+00	7.67E+00

3816	491863.09	3852377.25	0.80645	0.55844	0.66588	0.56392	2.707	0.382	0.5621	0.55844	5.62E+00	1.03E+00	6.93E-05	1.98E-02	8.48E-01	3.59E-02	3.98E+00	3.80E+00	7.74E+00
3817	492363.09	3852377.25	0.82242	0.52921	0.63038	0.48639	2.392	0.393	0.5329	0.52921	5.73E+00	9.77E-01	6.56E-05	1.71E-02	7.49E-01	3.69E-02	3.78E+00	3.60E+00	7.69E+00
3818	492863.09	3852377.25	0.83774	0.51558	0.65942	0.56511	2.302	0.426	0.5192	0.51558	5.84E+00	9.52E-01	6.86E-05	1.99E-02	7.21E-01	4.00E-02	3.68E+00	3.51E+00	7.75E+00
3819	493363.09	3852377.25	0.93719	0.51477	0.67003	0.64625	1.696	0.444	0.5188	0.51477	6.53E+00	9.51E-01	6.98E-05	2.27E-02	5.31E-01	4.18E-02	3.68E+00	3.50E+00	8.26E+00
3820	493863.09	3852377.25	0.88305	0.47837	0.67047	0.64213	1.663	0.427	0.4821	0.47837	6.16E+00	8.84E-01	6.98E-05	2.26E-02	5.21E-01	4.01E-02	3.42E+00	3.25E+00	7.79E+00
3821	494363.09	3852377.25	0.84754	0.44795	0.6178	0.75907	1.817	0.401	0.4512	0.44795	5.91E+00	8.27E-01	6.43E-05	2.67E-02	5.69E-01	3.77E-02	3.20E+00	3.05E+00	7.52E+00
3822	494863.09	3852377.25	0.89228	0.44348	0.65124	0.75795	1.923	0.402	0.4469	0.44348	6.22E+00	8.19E-01	6.78E-05	2.67E-02	6.03E-01	3.78E-02	3.17E+00	3.02E+00	7.86E+00
3823	495363.09	3852377.25	0.9518	0.44523	0.67	0.81578	2.242	0.407	0.4489	0.44523	6.64E+00	8.22E-01	6.98E-05	2.87E-02	7.02E-01	3.83E-02	3.18E+00	3.03E+00	8.38E+00
3824	495863.09	3852377.25	0.92771	0.41632	0.55241	0.71789	1.952	0.377	0.4197	0.41632	6.47E+00	7.69E-01	5.75E-05	2.53E-02	6.12E-01	3.54E-02	2.97E+00	2.83E+00	8.05E+00
3825	496363.09	3852377.25	0.91876	0.38701	0.55726	0.74966	2.009	0.356	0.3915	0.38701	6.41E+00	7.15E-01	5.80E-05	2.64E-02	6.29E-01	3.35E-02	2.77E+00	2.63E+00	7.95E+00
3826	496863.09	3852377.25	0.91605	0.36893	0.5406	0.65658	2.739	0.359	0.3735	0.36893	6.39E+00	6.81E-01	5.63E-05	2.31E-02	8.58E-01	3.37E-02	2.65E+00	2.51E+00	8.12E+00
3827	497363.09	3852377.25	0.90048	0.34566	0.47143	0.46833	3.015	0.344	0.3506	0.34566	6.28E+00	6.38E-01	4.91E-05	1.65E-02	9.45E-01	3.23E-02	2.48E+00	2.35E+00	8.04E+00
3828	497863.09	3852377.25	0.59227	0.30004	0.40983	0.43914	2.776	0.342	0.3048	0.30004	4.13E+00	5.54E-01	4.27E-05	1.55E-02	8.70E-01	3.22E-02	2.16E+00	2.04E+00	5.72E+00
3829	498363.09	3852377.25	0.54912	0.26729	0.42199	0.47163	2.393	0.372	0.2721	0.26729	3.83E+00	4.94E-01	4.39E-05	1.66E-02	7.50E-01	3.50E-02	1.93E+00	1.82E+00	5.23E+00
3830	471363.09	3852877.25	2.2301	0.4821	0.84002	0.90509	4.176	0.845	0.4633	0.4821	1.55E+01	8.90E-01	8.75E-05	3.19E-02	1.31E+00	7.94E-02	3.28E+00	3.28E+00	1.79E+01
3831	471863.09	3852877.25	2.21393	0.53917	0.8822	0.97738	3.958	0.864	0.5171	0.53917	1.54E+01	9.96E-01	9.18E-05	3.44E-02	1.24E+00	8.12E-02	3.66E+00	3.67E+00	1.78E+01
3832	472363.09	3852877.25	2.17733	0.54791	0.91762	1.01461	3.568	0.876	0.5249	0.54791	1.52E+01	1.01E+00	9.55E-05	3.57E-02	1.12E+00	8.24E-02	3.72E+00	3.73E+00	1.74E+01
3833	472863.09	3852877.25	2.1171	0.54367	0.9423	1.07316	3.061	0.904	0.5297	0.54367	1.48E+01	1.00E+00	9.81E-05	3.78E-02	9.59E-01	8.49E-02	3.75E+00	3.70E+00	1.69E+01
3834	473363.09	3852877.25	2.04323	0.54542	1.06125	1.1628	2.615	0.938	0.5482	0.54542	1.42E+01	1.01E+00	1.10E-04	4.09E-02	8.19E-01	8.82E-02	3.88E+00	3.71E+00	1.64E+01
3835	473863.09	3852877.25	1.961	0.5907	1.21138	1.30062	2.342	1.009	0.6081	0.5907	1.37E+01	1.09E+00	1.26E-04	4.58E-02	7.34E-01	9.49E-02	4.31E+00	4.02E+00	1.59E+01
3836	474363.09	3852877.25	1.86871	0.65965	1.26812	1.33845	2.23	1.05	0.6958	0.65965	1.30E+01	1.22E+00	1.32E-04	4.71E-02	6.99E-01	9.87E-02	4.93E+00	4.49E+00	1.55E+01
3837	474863.09	3852877.25	1.7495	0.59966	1.20672	1.34513	2.283	1.035	0.6628	0.59966	1.22E+01	1.11E+00	1.26E-04	4.73E-02	7.15E-01	9.73E-02	4.70E+00	4.08E+00	1.48E+01
3838	475363.09	3852877.25	1.72405	0.61016	1.20077	1.41465	2.258	1.109	0.7427	0.61016	1.20E+01	1.13E+00	1.25E-04	4.98E-02	7.07E-01	1.04E-01	5.26E+00	4.15E+00	1.51E+01
3839	475863.09	3852877.25	1.70805	0.65168	1.0568	1.47821	2.242	1.129	0.8339	0.65168	1.19E+01	1.20E+00	1.10E-04	5.20E-02	7.02E-01	1.06E-01	5.91E+00	4.43E+00	1.54E+01
3840	476363.09	3852877.25	1.65305	0.70163	0.82898	1.53732	2.07	1.112	0.9595	0.70163	1.15E+01	1.30E+00	8.63E-05	5.41E-02	6.49E-01	1.05E-01	6.80E+00	4.77E+00	1.57E+01
3841	476863.09	3852877.25	1.5478	0.76689	0.68612	1.45974	1.62	1.026	0.9846	0.76689	1.08E+01	1.42E+00	7.14E-05	5.14E-02	5.08E-01	9.65E-02	6.98E+00	5.21E+00	1.46E+01
3842	477363.09	3852877.25	1.5288	0.81768	0.69183	1.26738	2.008	0.919	1.0207	0.81768	1.07E+01	1.51E+00	7.20E-05	4.46E-02	6.29E-01	8.64E-02	7.23E+00	5.56E+00	1.46E+01
3843	477863.09	3852877.25	1.46842	0.65735	0.67982	0.95743	1.955	0.785	0.7863	0.65735	1.02E+01	1.21E+00	7.08E-05	3.37E-02	6.12E-01	7.38E-02	5.57E+00	4.47E+00	1.33E+01
3844	478363.09	3852877.25	1.03044	0.52608	0.69066	0.76077	1.476	0.672	0.5202	0.52608	7.18E+00	9.72E-01	7.19E-05	2.68E-02	4.62E-01	6.32E-02	3.69E+00	3.58E+00	8.82E+00
3845	478863.09	3852877.25	1.36861	0.6586	0.836	0.84625	1.134	0.65	0.5874	0.6586	9.54E+00	1.22E+00	8.70E-05	2.98E-02	3.55E-01	6.11E-02	4.16E+00	4.48E+00	1.09E+01
3846	479363.09	3852877.25	2.07374	0.87877	1.18954	0.99794	1.723	0.776	0.8377	0.87877	1.45E+01	1.62E+00	1.24E-04	3.51E-02	5.40E-01	7.29E-02	5.94E+00	5.98E+00	1.67E+01
3847	479863.09	3852877.25	2.57056	1.45301	2.40797	1.73771	2.954	1.354	1.4947	1.45301	1.79E+01	2.68E+00	2.51E-04	6.12E-02	9.26E-01	1.27E-01	1.06E+01	9.88E+00	2.24E+01
3848	480363.09	3852877.25	2.48696	1.54205	2.76199	2.25468	3.449	2.141	1.7327	1.54205	1.73E+01	2.85E+00	2.88E-04	7.94E-02	1.08E+00	2.01E-01	1.23E+01	1.05E+01	2.33E+01
3849	480863.09	3852877.25	2.70285	2.08453	3.92716	2.46707	3.546	2.071	2.1895	2.08453	1.88E+01	3.85E+00	4.09E-04	8.68E-02	1.11E+00	1.95E-01	1.55E+01	1.42E+01	2.54E+01
3850	481363.09	3852877.25	3.11607	2.23248	2.09336	2.80682	3.268	2.977	2.7387	2.23248	2.17E+01	4.12E+00	2.18E-04	9.88E-02	1.02E+00	2.80E-01	1.94E+01	1.52E+01	3.15E+01
3851	481863.09	3852877.25	4.06328	3.49492	2.0712	2.57349	2.975	3.059	3.5179	3.49492	2.83E+01	6.45E+00	2.16E-04	9.06E-02	9.32E-01	2.88E-01	2.49E+01	2.38E+01	3.73E+01
3852	482363.09	3852877.25	5.57435	9.68918	2.28176	3.62015	3.116	2.97	9.9124	9.68918	3.89E+01	1.79E+01	2.38E-04	1.27E-01	9.76E-01	2.79E-01	7.02E+01	6.59E+01	6.25E+01
3853	482863.09	3852877.25	3.73416	6.10214	3.59704	2.71385	3.38	2.456	6.17	6.10214	2.60E+01	1.13E+01	3.74E-04	9.55E-02	1.06E+00	2.31E-01	4.37E+01	4.15E+01	4.09E+01
3854	483363.09	3852877.25	3.38916	4.21563	1.34659	2.57174	2.866	2.252	4.4075	4.21563	2.36E+01	7.79E+00	1.40E-04	9.05E-02	8.98E-01	2.12E-01	3.12E+01	2.87E+01	3.52E+01
3855	483863.09	3852877.25	3.52696	1.58006	1.56897	2.03999	6.659	1.482	1.648	1.58006	2.46E+01	2.92E+00	1.63E-04	7.18E-02	2.09E+00	1.39E-01	1.17E+01	1.07E+01	3.07E+01
3856	484363.09	3852877.25	3.12673	2.66365	1.51897	1.72638	4.914	1.5	2.753	2.66365	2.18E+01	4.92E+00	1.58E-04	6.08E-02	1.54E+00	1.41E-01	1.95E+01	1.81E+01	2.99E+01
3857	484863.09	3852877.25	2.77155	2.34628	1.15839	1.65318	3.467	1.484	2.414	2.34628	1.93E+01	4.33E+00	1.21E-04	5.82E-02	1.09E+00	1.40E-01	1.71E+01	1.60E+01	2.61E+01
3858	485363.09	3852877.25	2.51955	1.64933	1.54888	1.00311	6.155	0.991	1.7067	1.64933	1.76E+01	3.05E+00	1.61E-04	3.53E-02	1.93E+00	9.32E-02	1.21E+01	1.12E+01	2.35E+01
3859	485863.09	3852877.25	2.26774	1.37853	1.06673	0.81589	3.343	0.774	1.3857	1.37853	1.58E+01	2.55E+00	1.11E-04	2.87E-02	1.05E+00	7.28E-02	9.82E+00	9.37E+00	1.99E+01
3860	486363.09	3852877.25	1.64558	1.14054	1.18179	0.65541	4.458	0.573	1.1449	1.14054	1.15E+01	2.11E+00	1.23E-04	2.31E-02	1.40E+00	5.39E-02	8.11E+00	7.76E+00	1.54E+01
3861	486863.09	3852877.25	1.36934	0.91568	1.23793	0.72369	3.731	0.527	0.9219	0.91568	9.55E+00	1.69E+00	1.29E-04	2.55E-02	1.17E+00	4.95E-02	6.53E+00	6.23E+00	1.28E+01
3862	487363.09	3852877.25	1.02063	0.69294	1.24433	0.63265	1.851	0.493	0.6994	0.69294	7.12E+00	1.28E+00	1.30E-04	2.23E-02	5.80E-01	4.63E-02	4.96E+00	4.71E+00	9.29E+00
3863	487863.09	3852877.25	0.94886	0.59852	1.06807	0.48552	3.199	0.522	0.6039	0.59852	6.62E+00	1.11E+00	1.11E-04	1.71E-02	1.00E+00	4.91E-02	4.28E+00	4.07E+00	9.00E+00
3864	488363.09	3852877.25	0.77299	0.41847	0.72196	0.40184	2.391	0.446	0.4235	0.41847	5.39E+00	7.73E-01	7.52E-05	1.41E-02	7.49E-01	4.19E-02	3.00E+00	2.85E+00	7.12E+00
3865	488863.09	3852877.25	0.81919	0.44498	0.66551	0.44179	2.328	0.412	0.4494	0.44498	5.71E+00	8.22E-01	6.93E-05	1.55E-02	7.30E-01	3.87E-02	3.18E+00	3.03E+00	7.48E+00
3866	489363.09	3852877.25	0.7531	0.44918	0.5827	0.61215	2.272	0.334	0.4535	0.44918	5.25E+00	8.30E-01	6.07E-05	2.15E-02	7.12E-01	3.14E-02	3.21E+00	3.05E+00	7.00E+00
3867	489863.09	3852877.25	0.67444	0.44064	0.62631	0.5877	1.956	0.336	0.4442	0.44064	4.70E+00	8.14E-01	6.52E-05	2.07E-02	6.13E-01	3.16E-02	3.15E+00	3.00E+00	6.33E+00
3868	490363.09	3852877.25	0.80635	0.57728	0.72593	0.57072	2.629	0.433	0.5816	0.57728	5.62E+00	1.07E+00	7.56E-05	2.01E-02	8.24E-01	4.07E-02	4.12E+00	3.93E+00	7.77E+00
3869	490863.09	3852877.25	0.8633	0.61917	0.80697	0.62949	2.986	0.464	0.6226	0.61917	6.02E+00	1.14E+00	8.40E-05	2.22E-02	9.35E-01	4.36E-02	4.41E+00	4.21E+00	8.36E+00
3870	491363.09	3852877.25	0.95716	0.67638	0.99298	0.66422	2.976	0.524	0.6809	0.67638	6.67E+00	1.25E+00	1.03E-04	2.34E-02	9.33E-01	4.92E-02	4.82E+00	4.60E+00	9.15E+00
3871	491863.09	3852877.25	0.99184	0.68142	0.81063	0.66388	2.703	0.517	0.6859	0.68142	6.91E+00	1.26E+00	8.44E-05	2.34E-02	8.47E-01	4.86E-02	4.86E+00	4.63E+00	9.32E+00
3872	492363.09	3852877.25	1.19924	0.67971	0.7576	0.57378	2.546	0.483	0.6845	0.67971	8.36E+00	1.26E+00	7.89E-05	2.02E-02	7.98E-01	4.54E-02	4.85E+00	4.62E+00	1.07E+01

3873	492863.09	3852877.25	1.28072	0.68142	0.7166	0.69166	2.387	0.504	0.6865	0.68142	8.93E+00	1.26E+00	7.46E-05	2.43E-02	7.48E-01	4.74E-02	4.86E+00	4.63E+00	1.12E+01
3874	493363.09	3852877.25	1.27388	0.66257	0.72607	0.64315	2.765	0.488	0.6675	0.66257	8.88E+00	1.22E+00	7.56E-05	2.26E-02	8.66E-01	4.58E-02	4.73E+00	4.51E+00	1.13E+01
3875	493863.09	3852877.25	1.14745	0.62103	0.66991	0.86779	2.952	0.452	0.6258	0.62103	8.00E+00	1.15E+00	6.97E-05	3.05E-02	9.25E-01	4.25E-02	4.43E+00	4.22E+00	1.04E+01
3876	494363.09	3852877.25	1.08271	0.58841	0.66992	0.88184	2.871	0.432	0.5929	0.58841	7.55E+00	1.09E+00	6.97E-05	3.10E-02	8.99E-01	4.06E-02	4.20E+00	4.00E+00	9.81E+00
3877	494863.09	3852877.25	1.08366	0.56086	0.74556	0.88502	2.672	0.428	0.565	0.56086	7.55E+00	1.04E+00	7.76E-05	3.11E-02	8.37E-01	4.02E-02	4.00E+00	3.81E+00	9.69E+00
3878	495363.09	3852877.25	1.02407	0.52066	0.65367	0.80665	2.286	0.393	0.5245	0.52066	7.14E+00	9.62E-01	6.81E-05	2.84E-02	7.16E-01	3.70E-02	3.72E+00	3.54E+00	9.06E+00
3879	495863.09	3852877.25	1.00271	0.48084	0.58776	0.82295	3.031	0.373	0.4842	0.48084	6.99E+00	8.88E-01	6.12E-05	2.90E-02	9.50E-01	3.50E-02	3.43E+00	3.27E+00	9.05E+00
3880	496363.09	3852877.25	0.99758	0.4555	0.57618	0.71625	3.476	0.384	0.4586	0.4555	6.95E+00	8.41E-01	6.00E-05	2.52E-02	1.09E+00	3.61E-02	3.25E+00	3.10E+00	9.10E+00
3881	496863.09	3852877.25	0.98282	0.4234	0.55041	0.50709	3.545	0.393	0.4266	0.4234	6.85E+00	7.82E-01	5.73E-05	1.78E-02	1.11E+00	3.70E-02	3.02E+00	2.88E+00	8.94E+00
3882	497363.09	3852877.25	0.73625	0.36866	0.45274	0.49899	2.82	0.415	0.3743	0.36866	5.13E+00	6.81E-01	4.71E-05	1.76E-02	8.84E-01	3.90E-02	2.65E+00	2.51E+00	6.90E+00
3883	497863.09	3852877.25	0.54381	0.2677	0.39399	0.47418	1.889	0.415	0.2727	0.2677	3.79E+00	4.94E-01	4.10E-05	1.67E-02	5.92E-01	3.90E-02	1.93E+00	1.82E+00	5.05E+00
3884	498363.09	3852877.25	0.53907	0.25967	0.39394	0.41262	1.607	0.433	0.2653	0.25967	3.76E+00	4.80E-01	4.10E-05	1.45E-02	5.04E-01	4.07E-02	1.88E+00	1.77E+00	4.91E+00
3885	471363.09	3853377.25	2.3115	0.43946	0.75458	0.88661	4.015	0.918	0.455	0.43946	1.61E+01	8.12E-01	7.86E-05	3.12E-02	1.26E+00	8.63E-02	3.22E+00	2.99E+00	1.85E+01
3886	471863.09	3853377.25	2.35887	0.47805	0.78043	0.96005	4.622	0.926	0.4933	0.47805	1.64E+01	8.83E-01	8.12E-05	3.38E-02	1.45E+00	8.71E-02	3.50E+00	3.25E+00	1.91E+01
3887	472363.09	3853377.25	2.38284	0.50339	0.81134	1.028	4.965	0.935	0.5115	0.50339	1.66E+01	9.30E-01	8.45E-05	3.62E-02	1.56E+00	8.79E-02	3.62E+00	3.42E+00	1.94E+01
3888	472863.09	3853377.25	2.38756	0.54607	0.85682	1.06801	4.943	0.944	0.5345	0.54607	1.66E+01	1.01E+00	8.92E-05	3.76E-02	1.55E+00	8.87E-02	3.79E+00	3.71E+00	1.94E+01
3889	473363.09	3853377.25	2.36591	0.55775	0.93616	1.09403	4.742	0.975	0.5481	0.55775	1.65E+01	1.03E+00	9.75E-05	3.85E-02	1.49E+00	9.16E-02	3.88E+00	3.79E+00	1.92E+01
3890	473863.09	3853377.25	2.32884	0.57241	0.9889	1.13595	4.36	0.996	0.5735	0.57241	1.62E+01	1.06E+00	1.03E-04	4.00E-02	1.37E+00	9.37E-02	4.06E+00	3.89E+00	1.90E+01
3891	474363.09	3853377.25	2.27181	0.56497	1.05555	1.20175	3.782	0.988	0.5961	0.56497	1.58E+01	1.04E+00	1.10E-04	4.23E-02	1.18E+00	9.29E-02	4.22E+00	3.84E+00	1.86E+01
3892	474863.09	3853377.25	2.17327	0.52615	1.08444	1.12577	3.103	0.932	0.5568	0.52615	1.52E+01	9.72E-01	1.13E-04	3.96E-02	9.72E-01	8.77E-02	3.95E+00	3.58E+00	1.76E+01
3893	475363.09	3853377.25	2.06928	0.53396	0.99613	1.10819	2.637	0.905	0.5285	0.53396	1.44E+01	9.86E-01	1.04E-04	3.90E-02	8.26E-01	8.51E-02	3.74E+00	3.63E+00	1.65E+01
3894	475863.09	3853377.25	1.98475	0.62348	0.97639	1.08143	2.447	0.884	0.602	0.62348	1.38E+01	1.15E+00	1.02E-04	3.81E-02	7.67E-01	8.31E-02	4.27E+00	4.24E+00	1.59E+01
3895	476363.09	3853377.25	1.86257	0.67985	0.97585	1.05131	2.394	0.85	0.6689	0.67985	1.30E+01	1.26E+00	1.02E-04	3.70E-02	7.50E-01	7.99E-02	4.74E+00	4.62E+00	1.52E+01
3896	476863.09	3853377.25	1.3878	0.61155	0.90548	1.0085	2.102	0.838	0.6289	0.61155	9.68E+00	1.13E+00	9.43E-05	3.55E-02	6.59E-01	7.88E-02	4.46E+00	4.16E+00	1.19E+01
3897	477363.09	3853377.25	1.30406	0.62938	0.85601	0.99863	1.9	0.842	0.6845	0.62938	9.09E+00	1.16E+00	8.91E-05	3.51E-02	5.95E-01	7.91E-02	4.85E+00	4.28E+00	1.15E+01
3898	477863.09	3853377.25	1.26198	0.61361	0.75195	1.04385	1.609	0.838	0.7406	0.61361	8.80E+00	1.13E+00	7.83E-05	3.67E-02	5.04E-01	7.88E-02	5.25E+00	4.17E+00	1.16E+01
3899	478363.09	3853377.25	1.09703	0.4538	0.68945	0.8612	1.619	0.786	0.5289	0.4538	7.65E+00	8.38E-01	7.18E-05	3.03E-02	5.07E-01	7.39E-02	3.75E+00	3.09E+00	9.76E+00
3900	478863.09	3853377.25	0.85672	0.35926	0.621	0.79113	1.872	0.704	0.4644	0.35926	5.97E+00	6.64E-01	6.46E-05	2.78E-02	5.86E-01	6.62E-02	3.29E+00	2.44E+00	8.16E+00
3901	479363.09	3853377.25	1.53675	0.66019	0.85083	1.16062	1.919	0.847	0.7355	0.66019	1.07E+01	1.22E+00	8.86E-05	4.08E-02	6.01E-01	7.97E-02	5.21E+00	4.49E+00	1.34E+01
3902	479863.09	3853377.25	2.55821	0.86298	1.31638	1.43465	1.834	1.045	0.9534	0.86298	1.78E+01	1.59E+00	1.37E-04	5.05E-02	5.75E-01	9.82E-02	6.75E+00	5.87E+00	2.10E+01
3903	480363.09	3853377.25	3.08671	1.56408	3.32533	1.93311	2.797	1.681	1.4109	1.56408	2.15E+01	2.89E+00	3.46E-04	6.80E-02	8.76E-01	1.58E-01	1.00E+01	1.06E+01	2.49E+01
3904	480863.09	3853377.25	3.20505	1.40752	2.60478	2.27008	3.533	1.818	1.6987	1.40752	2.23E+01	2.60E+00	2.71E-04	7.99E-02	1.11E+00	1.71E-01	1.20E+01	9.57E+00	2.88E+01
3905	481363.09	3853377.25	3.29961	1.99609	4.60619	2.90769	4.425	2.425	1.9509	1.99609	2.30E+01	3.69E+00	4.80E-04	1.02E-01	1.39E+00	2.28E-01	1.38E+01	1.36E+01	2.87E+01
3906	481863.09	3853377.25	3.5673	2.75785	2.61273	3.50163	4.106	4.056	3.1149	2.75785	2.49E+01	5.09E+00	2.72E-04	1.23E-01	1.29E+00	3.81E-01	2.21E+01	1.88E+01	3.51E+01
3907	482363.09	3853377.25	5.1917	4.46807	3.12362	4.05124	3.637	4.013	4.3016	4.46807	3.62E+01	8.25E+00	3.25E-04	1.43E-01	1.14E+00	3.77E-01	3.05E+01	3.04E+01	4.62E+01
3908	482863.09	3853377.25	5.05268	9.09292	4.48962	4.46772	3.603	3.682	9.1552	9.09292	3.52E+01	1.68E+01	4.67E-04	1.57E-01	1.13E+00	3.46E-01	6.49E+01	6.18E+01	5.67E+01
3909	483363.09	3853377.25	3.91886	4.82516	1.52362	3.18977	3.962	3.367	4.9066	4.82516	2.73E+01	8.91E+00	1.59E-04	1.12E-01	1.24E+00	3.17E-01	3.48E+01	3.28E+01	3.99E+01
3910	483863.09	3853377.25	3.89726	4.15922	1.97529	3.45406	3.698	2.84	4.2819	4.15922	2.72E+01	7.68E+00	2.06E-04	1.22E-01	1.16E+00	2.67E-01	3.03E+01	2.83E+01	3.85E+01
3911	484363.09	3853377.25	3.58531	2.8264	1.81561	2.95378	8.57	2.237	3.0394	2.8264	2.50E+01	5.22E+00	1.89E-04	1.04E-01	2.69E+00	2.10E-01	2.15E+01	1.92E+01	3.55E+01
3912	484863.09	3853377.25	3.29089	1.29652	2.40544	1.92043	4.179	1.564	1.4114	1.29652	2.29E+01	2.39E+00	2.50E-04	6.76E-02	1.31E+00	1.47E-01	1.00E+01	8.82E+00	2.80E+01
3913	485363.09	3853377.25	2.64849	1.42744	1.47609	0.81961	3.138	0.893	1.4441	1.42744	1.85E+01	2.64E+00	1.54E-04	2.88E-02	9.83E-01	8.39E-02	1.02E+01	9.71E+00	2.27E+01
3914	485863.09	3853377.25	1.60607	1.40569	1.44246	0.59076	2.836	0.673	1.4169	1.40569	1.12E+01	2.60E+00	1.50E-04	2.08E-02	8.89E-01	6.33E-02	1.00E+01	9.56E+00	1.52E+01
3915	486363.09	3853377.25	1.45998	1.32687	1.628	0.63608	3.636	0.603	1.3332	1.32687	1.02E+01	2.45E+00	1.69E-04	2.24E-02	1.14E+00	5.67E-02	9.45E+00	9.02E+00	1.43E+01
3916	486863.09	3853377.25	1.17229	0.98703	1.29801	0.75576	3.742	0.569	1.0104	0.98703	8.17E+00	1.82E+00	1.35E-04	2.66E-02	1.17E+00	5.35E-02	7.16E+00	6.71E+00	1.17E+01
3917	487363.09	3853377.25	1.22907	0.94702	1.40473	0.8261	2.149	0.544	0.9758	0.94702	8.57E+00	1.75E+00	1.46E-04	2.91E-02	6.73E-01	5.11E-02	6.91E+00	6.44E+00	1.15E+01
3918	487863.09	3853377.25	1.29288	0.90918	1.21791	0.70066	3.618	0.576	0.9303	0.90918	9.01E+00	1.68E+00	1.27E-04	2.47E-02	1.13E+00	5.41E-02	6.59E+00	6.18E+00	1.23E+01
3919	488363.09	3853377.25	1.40101	0.79081	1.16581	0.59346	3.189	0.522	0.8005	0.79081	9.77E+00	1.46E+00	1.21E-04	2.09E-02	9.99E-01	4.91E-02	5.67E+00	5.38E+00	1.26E+01
3920	488863.09	3853377.25	1.36052	0.67523	1.21289	0.61508	3.046	0.509	0.6814	0.67523	9.49E+00	1.25E+00	1.26E-04	2.16E-02	9.54E-01	4.79E-02	4.83E+00	4.59E+00	1.20E+01
3921	489363.09	3853377.25	1.31233	0.6544	0.95024	0.76083	2.743	0.518	0.6596	0.6544	9.15E+00	1.21E+00	9.89E-05	2.68E-02	8.59E-01	4.87E-02	4.67E+00	4.45E+00	1.15E+01
3922	489863.09	3853377.25	1.17809	0.65524	1.07426	0.6756	2.854	0.534	0.6601	0.65524	8.21E+00	1.21E+00	1.12E-04	2.38E-02	8.94E-01	5.01E-02	4.68E+00	4.46E+00	1.06E+01
3923	490363.09	3853377.25	1.34979	0.73145	1.08906	0.65438	3.177	0.574	0.7356	0.73145	9.41E+00	1.35E+00	1.13E-04	2.30E-02	9.96E-01	5.40E-02	5.21E+00	4.97E+00	1.21E+01
3924	490863.09	3853377.25	1.43961	0.73663	0.96139	0.71002	3.23	0.578	0.7434	0.73663	1.00E+01	1.36E+00	1.00E-04	2.50E-02	1.01E+00	5.43E-02	5.27E+00	5.01E+00	1.27E+01
3925	491363.09	3853377.25	1.48091	0.74779	0.9137	0.75985	3.038	0.584	0.7546	0.74779	1.03E+01	1.38E+00	9.51E-05	2.67E-02	9.52E-01	5.49E-02	5.35E+00	5.08E+00	1.30E+01
3926	491863.09	3853377.25	1.45572	0.73543	0.94572	0.72506	2.989	0.538	0.7419	0.73543	1.01E+01	1.36E+00	9.85E-05	2.55E-02	9.37E-01	5.05E-02	5.26E+00	5.00E+00	1.28E+01
3927	492363.09	3853377.25	1.47526	0.73894	0.82232	0.69576	2.999	0.522	0.7449	0.73894	1.03E+01	1.36E+00	8.56E-05	2.45E-02	9.40E-01	4.91E-02	5.28E+00	5.02E+00	1.29E+01
3928	492863.09	3853377.25	1.49008	0.74603	0.87161	0.82475	3.384	0.523	0.7512	0.74603	1.04E+01	1.38E+00	9.07E-05	2.90E-02	1.06E+00	4.92E-02	5.32E+00	5.07E+00	1.32E+01
3929	493363.09	3853377.25	1.39568	0.73618	0.90326	0.85806	3.784	0.521	0.7408	0.73618	9.73E+00	1.36E+00	9.40E-05	3.02E-02	1.19E+00	4.89E-02	5.25E+00	5.01E+00	1.26E+01

3930	493863.09	3853377.25	1.33901	0.72795	0.74369	1.11613	3.676	0.528	0.7326	0.72795	9.34E+00	1.34E+00	7.74E-05	3.93E-02	1.15E+00	4.96E-02	5.19E+00	4.95E+00	1.22E+01
3931	494363.09	3853377.25	1.25334	0.69949	0.77911	0.93461	3.302	0.47	0.7042	0.69949	8.74E+00	1.29E+00	8.11E-05	3.29E-02	1.03E+00	4.42E-02	4.99E+00	4.76E+00	1.14E+01
3932	494863.09	3853377.25	1.17018	0.65808	0.72639	0.92277	4.105	0.446	0.6627	0.65808	8.16E+00	1.22E+00	7.56E-05	3.25E-02	1.29E+00	4.19E-02	4.70E+00	4.47E+00	1.10E+01
3933	495363.09	3853377.25	1.1558	0.63054	0.68076	1.01749	3.884	0.439	0.6352	0.63054	8.06E+00	1.16E+00	7.09E-05	3.58E-02	1.22E+00	4.12E-02	4.50E+00	4.29E+00	1.07E+01
3934	495863.09	3853377.25	1.12894	0.5906	0.67621	0.7996	3.944	0.472	0.5949	0.5906	7.87E+00	1.09E+00	7.04E-05	2.81E-02	1.24E+00	4.43E-02	4.21E+00	4.02E+00	1.05E+01
3935	496363.09	3853377.25	1.03169	0.53598	0.58614	0.59092	3.28	0.496	0.5387	0.53598	7.19E+00	9.90E-01	6.10E-05	2.08E-02	1.03E+00	4.66E-02	3.82E+00	3.64E+00	9.45E+00
3936	496863.09	3853377.25	0.99685	0.45074	0.53307	0.57604	2.62	0.521	0.4541	0.45074	6.95E+00	8.32E-01	5.55E-05	2.03E-02	8.21E-01	4.90E-02	3.22E+00	3.06E+00	8.82E+00
3937	497363.09	3853377.25	0.64955	0.36057	0.50785	0.49051	1.797	0.505	0.3662	0.36057	4.53E+00	6.66E-01	5.29E-05	1.73E-02	5.63E-01	4.74E-02	2.59E+00	2.45E+00	5.97E+00
3938	497863.09	3853377.25	0.57604	0.2564	0.43161	0.37526	1.369	0.479	0.2785	0.2564	4.02E+00	4.74E-01	4.49E-05	1.32E-02	4.29E-01	4.51E-02	1.97E+00	1.74E+00	5.21E+00
3939	498363.09	3853377.25	0.58253	0.2521	0.38416	0.32476	1.138	0.458	0.274	0.2521	4.06E+00	4.66E-01	4.00E-05	1.14E-02	3.57E-01	4.30E-02	1.94E+00	1.71E+00	5.17E+00
3940	471363.09	3853877.25	2.10395	0.45519	0.75851	0.81158	2.644	1.017	0.4327	0.45519	1.47E+01	8.41E-01	7.90E-05	2.86E-02	8.28E-01	9.56E-02	3.07E+00	3.10E+00	1.64E+01
3941	471863.09	3853877.25	2.23282	0.46872	0.7749	0.94174	2.931	1.042	0.4581	0.46872	1.56E+01	8.66E-01	8.07E-05	3.31E-02	9.18E-01	9.80E-02	3.25E+00	3.19E+00	1.75E+01
3942	472363.09	3853877.25	2.32433	0.47096	0.78459	1.0239	3.222	1.039	0.4615	0.47096	1.62E+01	8.70E-01	8.17E-05	3.60E-02	1.01E+00	9.76E-02	3.27E+00	3.20E+00	1.83E+01
3943	472863.09	3853877.25	2.40432	0.51465	0.80181	1.07951	3.758	1.031	0.4888	0.51465	1.68E+01	9.51E-01	8.35E-05	3.80E-02	1.18E+00	9.69E-02	3.46E+00	3.50E+00	1.90E+01
3944	473363.09	3853877.25	2.44379	0.53783	0.8108	1.09459	4.561	1.01	0.5059	0.53783	1.70E+01	9.93E-01	8.44E-05	3.85E-02	1.43E+00	9.49E-02	3.58E+00	3.66E+00	1.95E+01
3945	473863.09	3853877.25	2.47382	0.56458	0.82895	1.10099	5.228	0.995	0.5323	0.56458	1.72E+01	1.04E+00	8.63E-05	3.88E-02	1.64E+00	9.35E-02	3.77E+00	3.84E+00	2.00E+01
3946	474363.09	3853877.25	2.48659	0.58041	0.85858	1.11596	5.608	1.011	0.5552	0.58041	1.73E+01	1.07E+00	8.94E-05	3.93E-02	1.76E+00	9.50E-02	3.93E+00	3.95E+00	2.03E+01
3947	474863.09	3853877.25	2.4729	0.56026	0.91456	1.12605	5.48	1.025	0.5433	0.56026	1.72E+01	1.03E+00	9.52E-05	3.96E-02	1.72E+00	9.63E-02	3.85E+00	3.81E+00	2.02E+01
3948	475363.09	3853877.25	2.4066	0.51497	0.94563	1.05985	5.085	0.947	0.504	0.51497	1.68E+01	9.51E-01	9.84E-05	3.73E-02	1.59E+00	8.90E-02	3.57E+00	3.50E+00	1.95E+01
3949	475863.09	3853877.25	2.2528	0.4849	0.93231	0.96251	4.36	0.883	0.4482	0.4849	1.57E+01	8.96E-01	9.71E-05	3.39E-02	1.37E+00	8.30E-02	3.18E+00	3.30E+00	1.80E+01
3950	476363.09	3853877.25	1.66775	0.49527	0.91279	0.75996	3.126	0.785	0.4789	0.49527	1.16E+01	9.15E-01	9.50E-05	2.67E-02	9.79E-01	7.38E-02	3.39E+00	3.37E+00	1.36E+01
3951	476863.09	3853877.25	1.26716	0.52325	0.89233	0.68641	1.992	0.745	0.4594	0.52325	8.83E+00	9.66E-01	9.29E-05	2.42E-02	6.24E-01	7.00E-02	3.26E+00	3.56E+00	1.02E+01
3952	477363.09	3853877.25	1.45102	0.5433	0.8993	0.68891	1.833	0.753	0.4482	0.5433	1.01E+01	1.00E+00	9.36E-05	2.42E-02	5.74E-01	7.08E-02	3.18E+00	3.69E+00	1.13E+01
3953	477863.09	3853877.25	1.41107	0.59089	0.94008	0.73541	1.971	0.754	0.5275	0.59089	9.84E+00	1.09E+00	9.79E-05	2.59E-02	6.18E-01	7.09E-02	3.74E+00	4.02E+00	1.14E+01
3954	478363.09	3853877.25	1.37032	0.52158	0.99522	0.76066	2.117	0.773	0.4826	0.52158	9.55E+00	9.63E-01	1.04E-04	2.68E-02	6.63E-01	7.26E-02	3.42E+00	3.55E+00	1.12E+01
3955	478863.09	3853877.25	0.99355	0.34472	0.90035	0.71646	1.464	0.76	0.3523	0.34472	6.93E+00	6.37E-01	9.37E-05	2.52E-02	4.59E-01	7.15E-02	2.50E+00	2.34E+00	8.27E+00
3956	479363.09	3853877.25	1.27672	0.43278	0.94649	0.747	1.695	0.834	0.4174	0.43278	8.90E+00	7.99E-01	9.85E-05	2.63E-02	5.31E-01	7.84E-02	2.96E+00	2.94E+00	1.04E+01
3957	479863.09	3853877.25	2.61333	0.67399	1.17525	1.42382	2.731	1.128	0.7507	0.67399	1.82E+01	1.24E+00	1.22E-04	5.01E-02	8.56E-01	1.06E-01	5.32E+00	4.58E+00	2.12E+01
3958	480363.09	3853877.25	3.40656	0.9691	1.85132	2.23683	2.894	1.44	1.2581	0.9691	2.37E+01	1.79E+00	1.93E-04	7.87E-02	9.07E-01	1.35E-01	8.91E+00	6.59E+00	2.90E+01
3959	480863.09	3853877.25	3.62994	1.53287	3.93326	2.73582	3.108	1.965	1.7439	1.53287	2.53E+01	2.83E+00	4.09E-04	9.63E-02	9.74E-01	1.85E-01	1.24E+01	1.04E+01	3.13E+01
3960	481363.09	3853877.25	3.52507	2.03826	6.32426	2.92885	3.553	2.92	2.1321	2.03826	2.46E+01	3.76E+00	6.58E-04	1.03E-01	1.11E+00	2.74E-01	1.51E+01	1.39E+01	3.11E+01
3961	481863.09	3853877.25	3.60914	2.74367	7.9263	3.07584	4.442	3.953	2.304	2.74367	2.52E+01	5.07E+00	8.25E-04	1.08E-01	1.39E+00	3.72E-01	1.63E+01	1.87E+01	2.98E+01
3962	482363.09	3853877.25	4.75024	4.39288	3.45253	4.0537	5.029	6.529	3.0528	4.39288	3.31E+01	8.11E+00	3.59E-04	1.43E-01	1.58E+00	6.14E-01	2.16E+01	2.99E+01	3.53E+01
3963	482863.09	3853877.25	6.69114	11.7527	4.49461	9.03087	4.651	11.04	8.5686	11.7527	4.66E+01	2.17E+01	4.68E-04	3.18E-01	1.46E+00	1.04E+00	6.07E+01	7.99E+01	5.20E+01
3964	483363.09	3853877.25	6.04958	3.56901	3.36169	7.56215	4.555	8.292	4.1174	3.56901	4.22E+01	6.59E+00	3.50E-04	2.66E-01	1.43E+00	7.79E-01	2.92E+01	2.43E+01	5.61E+01
3965	483863.09	3853877.25	4.77554	3.37802	4.06592	4.93292	4.668	4.111	3.9401	3.37802	3.33E+01	6.24E+00	4.23E-04	1.74E-01	1.46E+00	3.86E-01	2.79E+01	2.30E+01	4.65E+01
3966	484363.09	3853877.25	4.62166	3.42036	4.46507	4.28237	4.674	2.755	3.662	3.42036	3.22E+01	6.32E+00	4.65E-04	1.51E-01	1.46E+00	2.59E-01	2.59E+01	2.33E+01	4.31E+01
3967	484863.09	3853877.25	4.18567	2.90044	2.6944	2.00334	8.182	1.458	2.936	2.90044	2.92E+01	5.36E+00	2.81E-04	7.05E-02	2.56E+00	1.37E-01	2.08E+01	1.97E+01	3.84E+01
3968	485363.09	3853877.25	2.43645	1.24497	2.12146	0.74163	1.748	0.864	1.3032	1.24497	1.70E+01	2.30E+00	2.21E-04	2.61E-02	5.48E-01	8.12E-02	9.23E+00	8.47E+00	2.07E+01
3969	485863.09	3853877.25	2.32835	0.80048	2.15713	0.89229	3.714	0.891	0.8532	0.80048	1.62E+01	1.48E+00	2.25E-04	3.14E-02	1.16E+00	8.37E-02	6.05E+00	5.44E+00	1.96E+01
3970	486363.09	3853877.25	2.02152	0.99699	1.86265	0.85519	3.879	0.807	1.0076	0.99699	1.41E+01	1.84E+00	1.94E-04	3.01E-02	1.22E+00	7.58E-02	7.14E+00	6.78E+00	1.76E+01
3971	486863.09	3853877.25	1.61992	1.27658	1.651	0.83988	4.702	0.679	1.2885	1.27658	1.13E+01	2.36E+00	1.72E-04	2.96E-02	1.47E+00	6.38E-02	9.13E+00	8.68E+00	1.57E+01
3972	487363.09	3853877.25	1.70803	1.41093	1.55797	0.91759	2.878	0.633	1.4196	1.41093	1.19E+01	2.61E+00	1.62E-04	3.23E-02	9.02E-01	5.95E-02	1.01E+01	9.59E+00	1.60E+01
3973	487863.09	3853877.25	2.07354	1.17816	1.51453	0.94405	4.252	0.7	1.206	1.17816	1.45E+01	2.18E+00	1.58E-04	3.32E-02	1.33E+00	6.58E-02	8.54E+00	8.01E+00	1.86E+01
3974	488363.09	3853877.25	2.17618	1.02821	1.52892	0.99259	3.36	0.676	1.0635	1.02821	1.52E+01	1.90E+00	1.59E-04	3.49E-02	1.05E+00	6.35E-02	7.54E+00	6.99E+00	1.88E+01
3975	488863.09	3853877.25	2.39261	1.06013	1.51502	1.10687	4.251	0.747	1.0953	1.06013	1.67E+01	1.96E+00	1.58E-04	3.90E-02	1.33E+00	7.02E-02	7.76E+00	7.21E+00	2.06E+01
3976	489363.09	3853877.25	2.1371	0.92813	1.2975	0.99861	3.787	0.65	0.9501	0.92813	1.49E+01	1.71E+00	1.35E-04	3.51E-02	1.19E+00	6.11E-02	6.73E+00	6.31E+00	1.83E+01
3977	489863.09	3853877.25	2.11953	0.81402	1.17172	0.92923	4.362	0.679	0.8522	0.81402	1.48E+01	1.50E+00	1.22E-04	3.27E-02	1.37E+00	6.38E-02	6.04E+00	5.54E+00	1.82E+01
3978	490363.09	3853877.25	1.9855	0.72379	1.1881	0.84805	3.557	0.688	0.7582	0.72379	1.38E+01	1.34E+00	1.24E-04	2.98E-02	1.11E+00	6.47E-02	5.37E+00	4.92E+00	1.68E+01
3979	490863.09	3853877.25	1.9234	0.77607	0.98824	0.91106	3.979	0.691	0.8097	0.77607	1.34E+01	1.43E+00	1.03E-04	3.21E-02	1.25E+00	6.50E-02	5.74E+00	5.28E+00	1.66E+01
3980	491363.09	3853877.25	1.79427	0.82996	1.07325	0.93539	4.037	0.664	0.8499	0.82996	1.25E+01	1.53E+00	1.12E-04	3.29E-02	1.26E+00	6.24E-02	6.02E+00	5.64E+00	1.58E+01
3981	491863.09	3853877.25	1.69844	0.84408	1.06684	0.91367	3.723	0.625	0.85	0.84408	1.18E+01	1.56E+00	1.11E-04	3.22E-02	1.17E+00	5.88E-02	6.02E+00	5.74E+00	1.49E+01
3982	492363.09	3853877.25	1.70237	0.86426	1.10885	0.93331	4.441	0.644	0.8711	0.86426	1.19E+01	1.60E+00	1.15E-04	3.28E-02	1.39E+00	6.06E-02	6.17E+00	5.88E+00	1.52E+01
3983	492863.09	3853877.25	1.67497	0.83026	1.11074	1.06263	5.273	0.668	0.8374	0.83026	1.17E+01	1.53E+00	1.16E-04	3.74E-02	1.65E+00	6.28E-02	5.93E+00	5.65E+00	1.53E+01
3984	493363.09	3853877.25	1.64816	0.79098	1.00652	1.41191	4.969	0.671	0.7983	0.79098	1.15E+01	1.46E+00	1.05E-04	4.97E-02	1.56E+00	6.31E-02	5.66E+00	5.38E+00	1.49E+01
3985	493863.09	3853877.25	1.59941	0.7467	0.95591	1.12045	4.682	0.636	0.7535	0.7467	1.12E+01	1.38E+00	9.95E-05	3.94E-02	1.47E+00	5.98E-02	5.34E+00	5.08E+00	1.44E+01
3986	494363.09	3853877.25	1.53836	0.70954	0.89861	1.13341	5.345	0.595	0.7157	0.70954	1.07E+01	1.31E+00	9.36E-05	3.99E-02	1.67E+00	5.59E-02	5.07E+00	4.82E+00	1.41E+01

3987	494863.09	3853877.25	1.47689	0.67501	0.84897	1.46673	5.248	0.61	0.6801	0.67501	1.03E+01	1.25E+00	8.84E-05	5.16E-02	1.64E+00	5.73E-02	4.82E+00	4.59E+00	1.35E+01
3988	495363.09	3853877.25	1.33013	0.6196	0.82392	0.84235	3.63	0.572	0.6237	0.6196	9.27E+00	1.14E+00	8.58E-05	2.96E-02	1.14E+00	5.38E-02	4.42E+00	4.21E+00	1.18E+01
3989	495863.09	3853877.25	1.04959	0.54021	0.70118	0.67416	2.877	0.586	0.5419	0.54021	7.32E+00	9.98E-01	7.30E-05	2.37E-02	9.01E-01	5.51E-02	3.84E+00	3.67E+00	9.46E+00
3990	496363.09	3853877.25	1.05909	0.47519	0.6695	0.62861	2.689	0.595	0.4782	0.47519	7.38E+00	8.78E-01	6.97E-05	2.21E-02	8.42E-01	5.59E-02	3.39E+00	3.23E+00	9.34E+00
3991	496863.09	3853877.25	0.88333	0.38824	0.59106	0.57531	2.389	0.554	0.3913	0.38824	6.16E+00	7.17E-01	6.15E-05	2.02E-02	7.49E-01	5.21E-02	2.77E+00	2.64E+00	7.83E+00
3992	497363.09	3853877.25	0.73515	0.29564	0.53494	0.49211	1.644	0.499	0.322	0.29564	5.13E+00	5.46E-01	5.57E-05	1.73E-02	5.15E-01	4.69E-02	2.28E+00	2.01E+00	6.52E+00
3993	497863.09	3853877.25	0.71847	0.27055	0.46359	0.53008	1.454	0.464	0.2947	0.27055	5.01E+00	5.00E-01	4.83E-05	1.87E-02	4.56E-01	4.36E-02	2.09E+00	1.84E+00	6.27E+00
3994	498363.09	3853877.25	0.67102	0.26915	0.44784	0.65732	1.484	0.442	0.2924	0.26915	4.68E+00	4.97E-01	4.66E-05	2.31E-02	4.65E-01	4.16E-02	2.07E+00	1.83E+00	5.95E+00
3995	471363.09	3854377.25	1.87847	0.50602	0.7793	0.80285	1.638	1.088	0.4593	0.50602	1.31E+01	9.35E-01	8.11E-05	2.83E-02	5.13E-01	1.02E-01	3.25E+00	3.44E+00	1.45E+01
3996	471863.09	3854377.25	1.97568	0.52792	0.79	0.8341	1.897	1.155	0.4905	0.52792	1.38E+01	9.75E-01	8.22E-05	2.94E-02	5.94E-01	1.09E-01	3.48E+00	3.59E+00	1.54E+01
3997	472363.09	3854377.25	2.07276	0.53876	0.79239	0.8726	2.28	1.174	0.5038	0.53876	1.45E+01	9.95E-01	8.25E-05	3.07E-02	7.14E-01	1.10E-01	3.57E+00	3.66E+00	1.62E+01
3998	472863.09	3854377.25	2.1759	0.53279	0.78681	0.93004	2.64	1.16	0.5014	0.53279	1.52E+01	9.84E-01	8.19E-05	3.27E-02	8.27E-01	1.09E-01	3.55E+00	3.62E+00	1.71E+01
3999	473363.09	3854377.25	2.29862	0.5381	0.77601	1.01226	3.013	1.156	0.5086	0.5381	1.60E+01	9.94E-01	8.08E-05	3.56E-02	9.44E-01	1.09E-01	3.60E+00	3.66E+00	1.81E+01
4000	473863.09	3854377.25	2.4252	0.56221	0.78272	1.10146	3.371	1.185	0.5193	0.56221	1.69E+01	1.04E+00	8.15E-05	3.88E-02	1.06E+00	1.11E-01	3.68E+00	3.82E+00	1.90E+01
4001	474363.09	3854377.25	2.53541	0.58339	0.84741	1.15791	3.768	1.18	0.5308	0.58339	1.77E+01	1.08E+00	8.82E-05	4.08E-02	1.18E+00	1.11E-01	3.76E+00	3.97E+00	1.99E+01
4002	474863.09	3854377.25	2.5551	0.5397	0.79172	1.12221	4.079	1.041	0.5047	0.5397	1.78E+01	9.97E-01	8.24E-05	3.95E-02	1.28E+00	9.79E-02	3.58E+00	3.67E+00	2.01E+01
4003	475363.09	3854377.25	2.45595	0.46511	0.77645	0.9509	4.425	0.94	0.4516	0.46511	1.71E+01	8.59E-01	8.08E-05	3.35E-02	1.39E+00	8.84E-02	3.20E+00	3.16E+00	1.95E+01
4004	475863.09	3854377.25	1.78785	0.3942	0.79135	0.77042	3.307	0.841	0.3398	0.3942	1.25E+01	7.28E-01	8.24E-05	2.71E-02	1.04E+00	7.91E-02	2.41E+00	2.68E+00	1.41E+01
4005	476363.09	3854377.25	1.43728	0.39947	0.84923	0.75121	3.455	0.813	0.3374	0.39947	1.00E+01	7.38E-01	8.84E-05	2.64E-02	1.08E+00	7.64E-02	2.39E+00	2.72E+00	1.16E+01
4006	476863.09	3854377.25	1.41674	0.41703	0.90396	0.73213	3.509	0.774	0.361	0.41703	9.88E+00	7.70E-01	9.41E-05	2.58E-02	1.10E+00	7.28E-02	2.56E+00	2.84E+00	1.16E+01
4007	477363.09	3854377.25	1.18184	0.42639	0.93857	0.71512	3.389	0.761	0.3825	0.42639	8.24E+00	7.88E-01	9.77E-05	2.52E-02	1.06E+00	7.15E-02	2.71E+00	2.90E+00	1.00E+01
4008	477863.09	3854377.25	1.14844	0.45746	0.93579	0.70695	3.034	0.754	0.3997	0.45746	8.01E+00	8.45E-01	9.74E-05	2.49E-02	9.51E-01	7.09E-02	2.83E+00	3.11E+00	9.62E+00
4009	478363.09	3854377.25	1.31027	0.52834	0.90952	0.6952	2.503	0.782	0.4523	0.52834	9.13E+00	9.76E-01	9.47E-05	2.45E-02	7.84E-01	7.36E-02	3.20E+00	3.59E+00	1.06E+01
4010	478863.09	3854377.25	1.27876	0.52794	0.87782	0.6956	2.093	0.776	0.434	0.52794	8.92E+00	9.75E-01	9.14E-05	2.45E-02	6.56E-01	7.29E-02	3.07E+00	3.59E+00	1.01E+01
4011	479363.09	3854377.25	1.71385	0.66185	0.94022	0.95124	2.801	0.831	0.6213	0.66185	1.19E+01	1.22E+00	9.79E-05	3.35E-02	8.78E-01	7.81E-02	4.40E+00	4.50E+00	1.41E+01
4012	479863.09	3854377.25	2.40758	0.65014	1.0681	1.055	2.707	0.903	0.6474	0.65014	1.68E+01	1.20E+00	1.11E-04	3.71E-02	8.48E-01	8.49E-02	4.59E+00	4.42E+00	1.91E+01
4013	480363.09	3854377.25	3.31719	0.76016	1.79027	1.59319	3.084	1.206	0.9252	0.76016	2.31E+01	1.40E+00	1.86E-04	5.61E-02	9.66E-01	1.13E-01	6.56E+00	5.17E+00	2.71E+01
4014	480863.09	3854377.25	4.22441	1.09989	2.92435	2.34422	3.811	1.683	1.3915	1.09989	2.95E+01	2.03E+00	3.04E-04	8.25E-02	1.19E+00	1.58E-01	9.86E+00	7.48E+00	3.53E+01
4015	481363.09	3854377.25	4.34753	1.42785	5.02983	2.66553	3.934	2.375	1.5542	1.42785	3.03E+01	2.64E+00	5.24E-04	9.38E-02	1.23E+00	2.23E-01	1.10E+01	9.71E+00	3.58E+01
4016	481863.09	3854377.25	3.97385	2.87188	9.16246	2.62569	4.037	3.561	1.8691	2.87188	2.77E+01	5.30E+00	9.54E-04	9.24E-02	1.26E+00	3.35E-01	1.32E+01	1.95E+01	2.84E+01
4017	482363.09	3854377.25	4.72964	3.62427	10.93156	3.13746	4.566	5.833	2.3529	3.62427	3.30E+01	6.69E+00	1.14E-03	1.10E-01	1.43E+00	5.48E-01	1.67E+01	2.46E+01	3.38E+01
4018	482863.09	3854377.25	6.32578	16.19842	5.00581	4.21772	5.978	6.377	3.1606	16.19842	4.41E+01	2.99E+01	5.21E-04	1.48E-01	1.87E+00	5.99E-01	2.24E+01	1.10E+02	-1.11E+01
4019	483363.09	3854377.25	7.21015	4.59833	6.06288	6.88118	6.385	4.316	10.675	4.59833	5.03E+01	8.49E+00	6.31E-04	2.42E-01	2.00E+00	4.06E-01	7.56E+01	3.13E+01	1.06E+02
4020	483863.09	3854377.25	7.17977	2.01817	7.46117	12.61687	5.517	6.443	5.2994	2.01817	5.01E+01	3.73E+00	7.77E-04	4.44E-01	1.73E+00	6.06E-01	3.75E+01	1.37E+01	8.04E+01
4021	484363.09	3854377.25	6.91264	1.93563	4.93311	5.77052	5.692	3.089	3.3399	1.93563	4.82E+01	3.57E+00	5.14E-04	2.03E-01	1.78E+00	2.90E-01	2.37E+01	1.32E+01	6.45E+01
4022	484863.09	3854377.25	4.22413	1.95929	3.89975	1.75667	3.303	1.189	1.9825	1.95929	2.94E+01	3.62E+00	4.06E-04	6.18E-02	1.03E+00	1.12E-01	1.40E+01	1.33E+01	3.50E+01
4023	485363.09	3854377.25	4.69334	2.46605	3.47617	2.25397	7.575	1.434	2.4956	2.46605	3.27E+01	4.55E+00	3.62E-04	7.93E-02	2.37E+00	1.35E-01	1.77E+01	1.68E+01	4.08E+01
4024	485863.09	3854377.25	2.91824	2.07897	2.36372	1.22858	2.35	0.994	2.1334	2.07897	2.03E+01	3.84E+00	2.46E-04	4.32E-02	7.36E-01	9.34E-02	1.51E+01	1.41E+01	2.60E+01
4025	486363.09	3854377.25	3.1334	1.24476	1.97193	1.52281	5.698	1.027	1.291	1.24476	2.18E+01	2.30E+00	2.05E-04	5.36E-02	1.79E+00	9.65E-02	9.15E+00	8.46E+00	2.68E+01
4026	486863.09	3854377.25	2.66814	0.7226	1.83581	1.37273	5.928	0.897	0.8676	0.7226	1.86E+01	1.33E+00	1.91E-04	4.83E-02	1.86E+00	8.43E-02	6.15E+00	4.91E+00	2.32E+01
4027	487363.09	3854377.25	2.7511	0.88599	1.92689	1.4645	5.065	0.834	0.9699	0.88599	1.92E+01	1.64E+00	2.01E-04	5.15E-02	1.59E+00	7.84E-02	6.87E+00	6.02E+00	2.34E+01
4028	487863.09	3854377.25	2.91213	1.34569	2.02511	1.3976	5.055	0.954	1.3601	1.34569	2.03E+01	2.49E+00	2.11E-04	4.92E-02	1.58E+00	8.97E-02	9.64E+00	9.15E+00	2.50E+01
4029	488363.09	3854377.25	2.9495	1.52226	1.87802	1.33968	3.793	0.911	1.5495	1.52226	2.06E+01	2.81E+00	1.96E-04	4.72E-02	1.19E+00	8.57E-02	1.10E+01	1.04E+01	2.53E+01
4030	488863.09	3854377.25	2.93333	1.27276	1.78553	1.2979	5.818	0.928	1.3338	1.27276	2.05E+01	2.35E+00	1.86E-04	4.57E-02	1.82E+00	8.72E-02	9.45E+00	8.65E+00	2.56E+01
4031	489363.09	3854377.25	2.79126	1.05424	1.67813	1.20326	7.075	0.862	1.1065	1.05424	1.95E+01	1.95E+00	1.75E-04	4.24E-02	2.22E+00	8.10E-02	7.84E+00	7.17E+00	2.44E+01
4032	489863.09	3854377.25	2.54674	1.03845	1.64178	1.08791	4.543	0.865	1.0796	1.03845	1.78E+01	1.92E+00	1.71E-04	3.83E-02	1.42E+00	8.13E-02	7.65E+00	7.06E+00	2.18E+01
4033	490363.09	3854377.25	2.39169	0.98006	1.54602	1.01049	6.303	0.795	1.0071	0.98006	1.67E+01	1.81E+00	1.61E-04	3.56E-02	1.97E+00	7.47E-02	7.14E+00	6.66E+00	2.10E+01
4034	490863.09	3854377.25	1.92689	0.82234	1.35838	0.98566	3.93	0.751	0.8412	0.82234	1.34E+01	1.52E+00	1.41E-04	3.47E-02	1.23E+00	7.06E-02	5.96E+00	5.59E+00	1.67E+01
4035	491363.09	3854377.25	2.01021	0.7602	1.38408	1.05573	4.695	0.724	0.8082	0.7602	1.40E+01	1.40E+00	1.44E-04	3.72E-02	1.47E+00	6.80E-02	5.73E+00	5.17E+00	1.76E+01
4036	491863.09	3854377.25	2.08788	0.76589	1.37329	1.09715	6.472	0.787	0.8456	0.76589	1.46E+01	1.41E+00	1.43E-04	3.86E-02	2.03E+00	7.39E-02	5.99E+00	5.21E+00	1.89E+01
4037	492363.09	3854377.25	2.08199	0.84415	1.34998	1.10109	7.559	0.845	0.8969	0.84415	1.45E+01	1.56E+00	1.41E-04	3.88E-02	2.37E+00	7.94E-02	6.35E+00	5.74E+00	1.92E+01
4038	492863.09	3854377.25	2.04777	0.85463	1.29533	1.28431	7.317	0.835	0.8948	0.85463	1.43E+01	1.58E+00	1.35E-04	4.52E-02	2.29E+00	7.85E-02	6.34E+00	5.81E+00	1.88E+01
4039	493363.09	3854377.25	1.98339	0.83267	1.17454	1.69959	8.257	0.76	0.8566	0.83267	1.38E+01	1.54E+00	1.22E-04	5.98E-02	2.59E+00	7.14E-02	6.07E+00	5.66E+00	1.85E+01
4040	493863.09	3854377.25	1.88368	0.79598	1.02204	1.29778	8.232	0.718	0.8072	0.79598	1.31E+01	1.47E+00	1.06E-04	4.57E-02	2.58E+00	6.75E-02	5.72E+00	5.41E+00	1.76E+01
4041	494363.09	3854377.25	1.83741	0.74647	1.032	2.05291	5.368	0.727	0.7523	0.74647	1.28E+01	1.38E+00	1.07E-04	7.23E-02	1.68E+00	6.83E-02	5.33E+00	5.08E+00	1.63E+01
4042	494863.09	3854377.25	1.55109	0.59604	0.94357	0.94817	3.371	0.678	0.6016	0.59604	1.08E+01	1.10E+00	9.82E-05	3.34E-02	1.06E+00	6.37E-02	4.26E+00	4.05E+00	1.33E+01
4043	495363.09	3854377.25	1.14945	0.40702	0.84873	0.708	2.802	0.623	0.4211	0.40702	8.01E+00	7.52E-01	8.84E-05	2.49E-02	8.78E-01	5.86E-02	2.98E+00	2.77E+00	9.94E+00

4044	495863.09	3854377.25	1.00654	0.34025	0.68116	0.64575	2.37	0.589	0.3602	0.34025	7.02E+00	6.28E-01	7.09E-05	2.27E-02	7.42E-01	5.54E-02	2.55E+00	2.31E+00	8.70E+00
4045	496363.09	3854377.25	0.90227	0.31926	0.61998	0.5731	1.956	0.54	0.3428	0.31926	6.29E+00	5.90E-01	6.45E-05	2.02E-02	6.13E-01	5.07E-02	2.43E+00	2.17E+00	7.82E+00
4046	496863.09	3854377.25	0.87457	0.29602	0.55982	0.62005	1.804	0.503	0.311	0.29602	6.10E+00	5.47E-01	5.83E-05	2.18E-02	5.65E-01	4.72E-02	2.20E+00	2.01E+00	7.47E+00
4047	497363.09	3854377.25	0.82202	0.27599	0.51666	0.71227	1.796	0.452	0.2891	0.27599	5.73E+00	5.10E-01	5.38E-05	2.51E-02	5.63E-01	4.25E-02	2.05E+00	1.88E+00	7.04E+00
4048	497863.09	3854377.25	0.81069	0.27419	0.5205	0.83648	1.823	0.445	0.2879	0.27419	5.65E+00	5.06E-01	5.42E-05	2.94E-02	5.71E-01	4.18E-02	2.04E+00	1.86E+00	6.98E+00
4049	498363.09	3854377.25	0.71796	0.27354	0.52885	0.82066	1.811	0.435	0.2873	0.27354	5.01E+00	5.05E-01	5.51E-05	2.89E-02	5.67E-01	4.09E-02	2.04E+00	1.86E+00	6.32E+00
4050	471363.09	3854877.25	1.79227	0.54431	0.7282	0.76712	2.57	0.961	0.5119	0.54431	1.25E+01	1.01E+00	7.58E-05	2.70E-02	8.05E-01	9.04E-02	3.63E+00	3.70E+00	1.43E+01
4051	471863.09	3854877.25	1.85867	0.56659	0.75078	0.81423	2.551	1.058	0.5222	0.56659	1.30E+01	1.05E+00	7.82E-05	2.87E-02	7.99E-01	9.94E-02	3.70E+00	3.85E+00	1.48E+01
4052	472363.09	3854877.25	1.9099	0.57658	0.7819	0.84297	2.429	1.131	0.5163	0.57658	1.33E+01	1.06E+00	8.14E-05	2.97E-02	7.61E-01	1.06E-01	3.66E+00	3.92E+00	1.50E+01
4053	472863.09	3854877.25	1.93639	0.56798	0.80606	0.84979	2.183	1.175	0.5105	0.56798	1.35E+01	1.05E+00	8.39E-05	2.99E-02	6.84E-01	1.10E-01	3.62E+00	3.86E+00	1.51E+01
4054	473363.09	3854877.25	2.01725	0.58566	0.84037	0.88761	2.142	1.268	0.5292	0.58566	1.41E+01	1.08E+00	8.75E-05	3.12E-02	6.71E-01	1.19E-01	3.75E+00	3.98E+00	1.57E+01
4055	473863.09	3854877.25	2.1095	0.59608	0.85796	0.92341	2.307	1.351	0.5427	0.59608	1.47E+01	1.10E+00	8.93E-05	3.25E-02	7.23E-01	1.27E-01	3.84E+00	4.05E+00	1.65E+01
4056	474363.09	3854877.25	2.235	0.62301	0.93454	1.04941	2.554	1.445	0.5578	0.62301	1.56E+01	1.15E+00	9.73E-05	3.69E-02	8.00E-01	1.36E-01	3.95E+00	4.24E+00	1.74E+01
4057	474863.09	3854877.25	2.2295	0.48963	0.81637	0.89067	2.413	1.14	0.4428	0.48963	1.55E+01	9.04E-01	8.50E-05	3.13E-02	7.56E-01	1.07E-01	3.14E+00	3.33E+00	1.72E+01
4058	475363.09	3854877.25	1.68236	0.44519	0.74602	0.8088	2.008	1.017	0.3408	0.44519	1.17E+01	8.22E-01	7.77E-05	2.85E-02	6.29E-01	9.56E-02	2.41E+00	3.03E+00	1.27E+01
4059	475863.09	3854877.25	1.63592	0.42302	0.71034	0.81217	1.961	0.941	0.3333	0.42302	1.14E+01	7.81E-01	7.40E-05	2.86E-02	6.15E-01	8.84E-02	2.36E+00	2.88E+00	1.24E+01
4060	476363.09	3854877.25	1.21201	0.39602	0.64009	0.79734	2.061	0.848	0.3203	0.39602	8.45E+00	7.31E-01	6.66E-05	2.81E-02	6.46E-01	7.97E-02	2.27E+00	2.69E+00	9.51E+00
4061	476863.09	3854877.25	1.24257	0.38462	0.61575	0.79633	2.474	0.8	0.3166	0.38462	8.66E+00	7.10E-01	6.41E-05	2.80E-02	7.75E-01	7.52E-02	2.24E+00	2.62E+00	9.88E+00
4062	477363.09	3854877.25	1.25996	0.39681	0.66148	0.79099	3.136	0.778	0.3337	0.39681	8.78E+00	7.33E-01	6.89E-05	2.78E-02	9.83E-01	7.31E-02	2.36E+00	2.70E+00	1.03E+01
4063	477863.09	3854877.25	1.25907	0.40539	0.71079	0.78639	3.588	0.778	0.3404	0.40539	8.78E+00	7.49E-01	7.40E-05	2.77E-02	1.12E+00	7.31E-02	2.41E+00	2.76E+00	1.04E+01
4064	478363.09	3854877.25	1.77586	0.46743	0.82458	0.76488	3.905	0.828	0.4199	0.46743	1.24E+01	8.63E-01	8.58E-05	2.69E-02	1.22E+00	7.79E-02	2.98E+00	3.18E+00	1.44E+01
4065	478863.09	3854877.25	1.87308	0.69073	0.89366	0.80221	4.863	0.879	0.6501	0.69073	1.31E+01	1.28E+00	9.30E-05	2.82E-02	1.52E+00	8.26E-02	4.61E+00	4.70E+00	1.59E+01
4066	479363.09	3854877.25	2.63679	0.82567	1.03991	1.05108	5.903	0.962	0.7629	0.82567	1.84E+01	1.52E+00	1.08E-04	3.70E-02	1.85E+00	9.04E-02	5.41E+00	5.61E+00	2.17E+01
4067	479863.09	3854877.25	3.28615	0.92211	1.33705	1.35796	6.307	1.134	0.8911	0.92211	2.29E+01	1.70E+00	1.39E-04	4.78E-02	1.98E+00	1.07E-01	6.31E+00	6.27E+00	2.68E+01
4068	480363.09	3854877.25	3.84271	0.90267	1.29465	1.51912	4.587	1.223	0.9043	0.90267	2.68E+01	1.67E+00	1.35E-04	5.35E-02	1.44E+00	1.15E-01	6.41E+00	6.14E+00	3.03E+01
4069	480863.09	3854877.25	4.36814	0.89045	1.53393	1.80935	4.573	1.549	1.1659	0.89045	3.05E+01	1.64E+00	1.60E-04	6.37E-02	1.43E+00	1.46E-01	8.26E+00	6.05E+00	3.59E+01
4070	481363.09	3854877.25	4.7134	1.23665	2.54098	2.01516	4.781	1.75	1.3181	1.23665	3.29E+01	2.28E+00	2.65E-04	7.09E-02	1.50E+00	1.65E-01	9.34E+00	8.41E+00	3.78E+01
4071	481863.09	3854877.25	5.69495	1.27982	2.63961	2.40851	4.69	1.902	1.5077	1.27982	3.97E+01	2.36E+00	2.75E-04	8.48E-02	1.47E+00	1.79E-01	1.07E+01	8.70E+00	4.58E+01
4072	482363.09	3854877.25	5.4993	3.21326	6.73263	2.30829	4.874	4.921	1.5888	3.21326	3.83E+01	5.93E+00	7.01E-04	8.12E-02	1.53E+00	4.63E-01	1.13E+01	2.18E+01	3.58E+01
4073	482863.09	3854877.25	6.51734	5.43416	11.79581	2.79885	5.424	7.49	2.1187	5.43416	4.54E+01	1.00E+01	1.23E-03	9.85E-02	1.70E+00	7.04E-01	1.50E+01	3.70E+01	3.60E+01
4074	483363.09	3854877.25	6.76125	6.85605	74.04438	3.75421	6.498	7.288	2.8757	6.85605	4.71E+01	1.27E+01	7.71E-03	1.32E-01	2.04E+00	6.85E-01	2.04E+01	4.66E+01	3.64E+01
4075	483863.09	3854877.25	7.75124	3.2221	28.41675	5.93345	8.369	3.923	6.3753	3.2221	5.40E+01	5.95E+00	2.96E-03	2.09E-01	2.62E+00	3.69E-01	4.52E+01	2.19E+01	8.65E+01
4076	484363.09	3854877.25	8.80117	1.57318	10.48924	13.27192	7.454	10.93	14.21	1.57318	6.14E+01	2.91E+00	1.09E-03	4.67E-01	2.34E+00	1.03E+00	1.01E+02	1.07E+01	1.58E+02
4077	484863.09	3854877.25	8.14328	1.76672	6.74234	13.90457	7.065	5.848	6.0351	1.76672	5.68E+01	3.26E+00	7.02E-04	4.89E-01	2.21E+00	5.50E-01	4.28E+01	1.20E+01	9.40E+01
4078	485363.09	3854877.25	6.71227	2.0144	5.10484	6.07142	8.323	3.128	3.1961	2.0144	4.68E+01	3.72E+00	5.31E-04	2.14E-01	2.61E+00	2.94E-01	2.26E+01	1.37E+01	6.26E+01
4079	485863.09	3854877.25	5.41573	2.28986	3.9765	3.78919	8.974	2.082	2.5457	2.28986	3.78E+01	4.23E+00	4.14E-04	1.33E-01	2.81E+00	1.96E-01	1.80E+01	1.56E+01	4.76E+01
4080	486363.09	3854877.25	4.46637	2.2691	3.28473	2.68801	7.895	1.601	2.4215	2.2691	3.11E+01	4.19E+00	3.42E-04	9.46E-02	2.47E+00	1.50E-01	1.72E+01	1.54E+01	3.98E+01
4081	486863.09	3854877.25	3.93931	1.96464	3.17557	2.11762	7.689	1.326	2.1516	1.96464	2.75E+01	3.63E+00	3.31E-04	7.45E-02	2.41E+00	1.25E-01	1.52E+01	1.34E+01	3.56E+01
4082	487363.09	3854877.25	3.82248	1.16241	2.57638	1.93831	8.891	1.267	1.4651	1.16241	2.66E+01	2.15E+00	2.68E-04	6.82E-02	2.79E+00	1.19E-01	1.04E+01	7.90E+00	3.42E+01
4083	487863.09	3854877.25	3.55855	0.72527	2.82696	1.77792	6.267	1.318	1.0834	0.72527	2.48E+01	1.34E+00	2.94E-04	6.26E-02	1.96E+00	1.24E-01	7.68E+00	4.93E+00	3.10E+01
4084	488363.09	3854877.25	3.41929	0.87352	2.72117	1.66373	5.637	1.194	1.1656	0.87352	2.38E+01	1.61E+00	2.83E-04	5.86E-02	1.77E+00	1.12E-01	8.26E+00	5.94E+00	2.97E+01
4085	488863.09	3854877.25	3.20497	1.20524	2.66285	1.6467	11.6	1.191	1.4237	1.20524	2.23E+01	2.23E+00	2.77E-04	5.80E-02	3.63E+00	1.12E-01	1.01E+01	8.20E+00	3.03E+01
4086	489363.09	3854877.25	2.96755	1.34236	2.46395	1.48687	9.316	1.13	1.5109	1.34236	2.07E+01	2.48E+00	2.57E-04	5.23E-02	2.92E+00	1.06E-01	1.07E+01	9.13E+00	2.78E+01
4087	489863.09	3854877.25	2.78429	1.22463	2.1066	1.3184	9.447	1.004	1.3523	1.22463	1.94E+01	2.26E+00	2.19E-04	4.64E-02	2.96E+00	9.44E-02	9.58E+00	8.33E+00	2.60E+01
4088	490363.09	3854877.25	2.41336	0.99579	1.22846	1.02062	4.645	0.769	1.0298	0.99579	1.68E+01	1.84E+00	1.28E-04	3.59E-02	1.46E+00	7.23E-02	7.30E+00	6.77E+00	2.08E+01
4089	490863.09	3854877.25	1.60934	0.65924	1.00428	0.72581	3.522	0.605	0.6849	0.65924	1.12E+01	1.22E+00	1.05E-04	2.55E-02	1.10E+00	5.68E-02	4.85E+00	4.48E+00	1.40E+01
4090	491363.09	3854877.25	1.72203	0.70741	0.99336	0.84682	4.058	0.628	0.7283	0.70741	1.20E+01	1.31E+00	1.03E-04	2.98E-02	1.27E+00	5.90E-02	5.16E+00	4.81E+00	1.50E+01
4091	491863.09	3854877.25	2.49202	0.87838	1.647	1.15928	9.724	0.948	0.9861	0.87838	1.74E+01	1.62E+00	1.71E-04	4.08E-02	3.05E+00	8.91E-02	6.99E+00	5.97E+00	2.32E+01
4092	492363.09	3854877.25	2.46504	0.77749	1.71384	1.47431	12.47	0.954	0.9018	0.77749	1.72E+01	1.44E+00	1.78E-04	5.19E-02	3.91E+00	8.97E-02	6.39E+00	5.29E+00	2.38E+01
4093	492863.09	3854877.25	2.39037	0.71263	1.45201	2.74322	11.38	0.897	0.8244	0.71263	1.67E+01	1.32E+00	1.51E-04	9.66E-02	3.56E+00	8.43E-02	5.84E+00	4.85E+00	2.27E+01
4094	493363.09	3854877.25	2.28735	0.69551	1.22502	1.34616	8.653	0.867	0.7963	0.69551	1.59E+01	1.28E+00	1.28E-04	4.74E-02	2.71E+00	8.15E-02	5.64E+00	4.73E+00	2.10E+01
4095	493863.09	3854877.25	2.23744	0.72103	1.27898	2.72728	6.657	0.842	0.793	0.72103	1.56E+01	1.33E+00	1.33E-04	9.60E-02	2.09E+00	7.91E-02	5.62E+00	4.90E+00	1.99E+01
4096	494363.09	3854877.25	1.80529	0.5787	1.02802	1.00288	3.632	0.703	0.6047	0.5787	1.26E+01	1.07E+00	1.07E-04	3.53E-02	1.14E+00	6.61E-02	4.28E+00	3.94E+00	1.52E+01
4097	494863.09	3854877.25	1.21084	0.37233	0.82736	0.70318	2.625	0.614	0.3939	0.37233	8.44E+00	6.88E-01	8.61E-05	2.47E-02	8.22E-01	5.77E-02	2.79E+00	2.53E+00	1.03E+01
4098	495363.09	3854877.25	1.04863	0.32141	0.67881	0.64339	2.398	0.549	0.3285	0.32141	7.31E+00	5.94E-01	7.07E-05	2.26E-02	7.51E-01	5.16E-02	2.33E+00	2.19E+00	8.87E+00
4099	495863.09	3854877.25	1.01421	0.28974	0.59934	0.60733	2.204	0.495	0.292	0.28974	7.07E+00	5.35E-01	6.24E-05	2.14E-02	6.91E-01	4.65E-02	2.07E+00	1.97E+00	8.46E+00
4100	496363.09	3854877.25	0.89731	0.2677	0.57964	0.74177	2.067	0.453	0.2693	0.2677	6.26E+00	4.94E-01	6.03E-05	2.61E-02	6.48E-01	4.26E-02	1.91E+00	1.82E+00	7.55E+00

4101	496863.09	3854877.25	0.79693	0.26283	0.58877	0.79337	2.057	0.448	0.264	0.26283	5.56E+00	4.85E-01	6.13E-05	2.79E-02	6.44E-01	4.21E-02	1.87E+00	1.79E+00	6.84E+00
4102	497363.09	3854877.25	0.77949	0.26216	0.6014	0.82256	2.037	0.445	0.264	0.26216	5.43E+00	4.84E-01	6.26E-05	2.90E-02	6.38E-01	4.19E-02	1.87E+00	1.78E+00	6.72E+00
4103	497863.09	3854877.25	0.76784	0.26373	0.61612	0.75356	1.959	0.441	0.2664	0.26373	5.35E+00	4.87E-01	6.41E-05	2.65E-02	6.14E-01	4.14E-02	1.89E+00	1.79E+00	6.62E+00
4104	498363.09	3854877.25	0.76245	0.26614	0.6183	0.61107	1.848	0.46	0.2695	0.26614	5.32E+00	4.92E-01	6.44E-05	2.15E-02	5.79E-01	4.32E-02	1.91E+00	1.81E+00	6.55E+00
4105	471363.09	3855377.25	1.59584	0.54345	0.6288	0.68637	2.864	0.792	0.5306	0.54345	1.11E+01	1.00E+00	6.55E-05	2.42E-02	8.97E-01	7.44E-02	3.76E+00	3.70E+00	1.32E+01
4106	471863.09	3855377.25	1.6926	0.55724	0.66369	0.71602	3.034	0.849	0.5424	0.55724	1.18E+01	1.03E+00	6.91E-05	2.52E-02	9.51E-01	7.98E-02	3.84E+00	3.79E+00	1.39E+01
4107	472363.09	3855377.25	1.8027	0.56698	0.7043	0.76333	3.311	0.922	0.5536	0.56698	1.26E+01	1.05E+00	7.33E-05	2.69E-02	1.04E+00	8.67E-02	3.92E+00	3.86E+00	1.48E+01
4108	472863.09	3855377.25	1.8853	0.57998	0.74055	0.79529	3.427	0.973	0.5586	0.57998	1.31E+01	1.07E+00	7.71E-05	2.80E-02	1.07E+00	9.15E-02	3.96E+00	3.94E+00	1.54E+01
4109	473363.09	3855377.25	1.98577	0.60666	0.78977	0.90853	3.72	1.112	0.5752	0.60666	1.38E+01	1.12E+00	8.22E-05	3.20E-02	1.17E+00	1.05E-01	4.08E+00	4.13E+00	1.62E+01
4110	473863.09	3855377.25	2.06709	0.65743	0.95816	1.01932	3.887	1.278	0.6079	0.65743	1.44E+01	1.21E+00	9.98E-05	3.59E-02	1.22E+00	1.20E-01	4.31E+00	4.47E+00	1.68E+01
4111	474363.09	3855377.25	2.1394	0.69439	0.98763	1.06733	3.923	1.4	0.6297	0.69439	1.49E+01	1.28E+00	1.03E-04	3.76E-02	1.23E+00	1.32E-01	4.46E+00	4.72E+00	1.73E+01
4112	474863.09	3855377.25	2.05085	0.56569	0.90334	0.86404	3.025	1.213	0.5013	0.56569	1.43E+01	1.04E+00	9.40E-05	3.04E-02	9.48E-01	1.14E-01	3.55E+00	3.85E+00	1.61E+01
4113	475363.09	3855377.25	1.0929	0.50508	0.87118	0.75566	0.951	1.124	0.4088	0.50508	7.62E+00	9.33E-01	9.07E-05	2.66E-02	2.98E-01	1.06E-01	2.90E+00	3.43E+00	8.44E+00
4114	475863.09	3855377.25	0.98749	0.48828	0.86257	0.74035	0.954	1.092	0.3764	0.48828	6.88E+00	9.02E-01	8.98E-05	2.61E-02	2.99E-01	1.03E-01	2.67E+00	3.32E+00	7.56E+00
4115	476363.09	3855377.25	1.02771	0.48377	0.87734	0.75669	1.024	1.077	0.3598	0.48377	7.16E+00	8.93E-01	9.13E-05	2.66E-02	3.21E-01	1.01E-01	2.55E+00	3.29E+00	7.77E+00
4116	476863.09	3855377.25	1.07803	0.46539	0.85416	0.77323	1.216	1.028	0.335	0.46539	7.52E+00	8.60E-01	8.89E-05	2.72E-02	3.81E-01	9.66E-02	2.37E+00	3.16E+00	8.09E+00
4117	477363.09	3855377.25	1.13932	0.45348	0.82804	0.8031	1.519	0.974	0.3589	0.45348	7.94E+00	8.38E-01	8.62E-05	2.83E-02	4.76E-01	9.16E-02	2.54E+00	3.08E+00	8.84E+00
4118	477863.09	3855377.25	1.3755	0.49612	0.79042	0.8395	1.904	0.924	0.4325	0.49612	9.59E+00	9.16E-01	8.23E-05	2.95E-02	5.97E-01	8.68E-02	3.06E+00	3.37E+00	1.09E+01
4119	478363.09	3855377.25	1.7879	0.53779	0.87867	0.85214	2.523	0.911	0.4876	0.53779	1.25E+01	9.93E-01	9.15E-05	3.00E-02	7.90E-01	8.57E-02	3.45E+00	3.66E+00	1.42E+01
4120	478863.09	3855377.25	1.96778	0.68152	0.91094	0.8588	3.232	0.94	0.6133	0.68152	1.37E+01	1.26E+00	9.48E-05	3.02E-02	1.01E+00	8.84E-02	4.35E+00	4.63E+00	1.58E+01
4121	479363.09	3855377.25	2.73907	0.7514	1.00396	1.06163	5.118	1.03	0.6811	0.7514	1.91E+01	1.39E+00	1.05E-04	3.74E-02	1.60E+00	9.68E-02	4.83E+00	5.11E+00	2.19E+01
4122	479863.09	3855377.25	3.16196	0.78751	1.16027	1.25421	6.822	1.078	0.7724	0.78751	2.20E+01	1.45E+00	1.21E-04	4.41E-02	2.14E+00	1.01E-01	5.47E+00	5.35E+00	2.59E+01
4123	480363.09	3855377.25	3.99364	0.95705	2.03561	1.68115	11.1	1.321	1.001	0.95705	2.78E+01	1.77E+00	2.12E-04	5.92E-02	3.48E+00	1.24E-01	7.09E+00	6.51E+00	3.39E+01
4124	480863.09	3855377.25	4.47764	1.08968	4.23167	1.79034	11.85	1.565	1.0495	1.08968	3.12E+01	2.01E+00	4.41E-04	6.30E-02	3.71E+00	1.47E-01	7.44E+00	7.41E+00	3.72E+01
4125	481363.09	3855377.25	4.48154	1.21918	6.60536	1.93805	10.03	2.128	1.0741	1.21918	3.12E+01	2.25E+00	6.88E-04	6.82E-02	3.14E+00	2.00E-01	7.61E+00	8.29E+00	3.62E+01
4126	481863.09	3855377.25	4.78342	1.64182	10.19572	1.94883	7.662	2.639	1.1226	1.64182	3.33E+01	3.03E+00	1.06E-03	6.86E-02	2.40E+00	2.48E-01	7.95E+00	1.12E+01	3.59E+01
4127	482363.09	3855377.25	5.9768	2.28417	9.00572	1.99309	6.146	3.47	1.3389	2.28417	4.17E+01	4.22E+00	9.38E-04	7.01E-02	1.93E+00	3.26E-01	9.49E+00	1.55E+01	4.22E+01
4128	482863.09	3855377.25	7.20744	3.16343	14.16094	2.31167	5.597	4.684	1.4947	3.16343	5.02E+01	5.84E+00	1.47E-03	8.14E-02	1.75E+00	4.40E-01	1.06E+01	2.15E+01	4.74E+01
4129	483363.09	3855377.25	7.23501	5.22215	11.18336	2.56788	6.523	11.41	1.8318	5.22215	5.04E+01	9.64E+00	1.16E-03	9.04E-02	2.04E+00	1.07E+00	1.30E+01	3.55E+01	4.08E+01
4130	483863.09	3855377.25	7.69642	9.01343	13.46089	3.24142	7.547	4.689	3.0658	9.01343	5.37E+01	1.66E+01	1.40E-03	1.14E-01	2.36E+00	4.41E-01	2.17E+01	6.13E+01	3.37E+01
4131	484363.09	3855377.25	7.95436	2.68718	16.26143	4.54274	10.03	2.89	4.5815	2.68718	5.55E+01	4.96E+00	1.69E-03	1.60E-01	3.14E+00	2.72E-01	3.25E+01	1.83E+01	7.82E+01
4132	484863.09	3855377.25	8.60527	1.58727	9.93289	7.29141	11.47	4.427	5.1134	1.58727	6.00E+01	2.93E+00	1.03E-03	2.57E-01	3.59E+00	4.16E-01	3.62E+01	1.08E+01	9.26E+01
4133	485363.09	3855377.25	7.95771	1.62395	7.66776	22.20457	10.91	9.237	8.2308	1.62395	5.55E+01	3.00E+00	7.98E-04	7.82E-01	3.42E+00	8.68E-01	5.83E+01	1.10E+01	1.11E+02
4134	485863.09	3855377.25	6.36557	1.67076	7.33189	7.12874	15.06	3.972	3.7096	1.67076	4.44E+01	3.09E+00	7.63E-04	2.51E-01	4.72E+00	3.73E-01	2.63E+01	1.14E+01	6.77E+01
4135	486363.09	3855377.25	5.75115	2.0695	4.70772	4.77285	14.39	2.821	2.8134	2.0695	4.01E+01	3.82E+00	4.90E-04	1.68E-01	4.51E+00	2.65E-01	1.99E+01	1.41E+01	5.47E+01
4136	486863.09	3855377.25	5.11442	2.05765	3.56489	3.67756	14.48	2.087	2.4302	2.05765	3.57E+01	3.80E+00	3.71E-04	1.29E-01	4.54E+00	1.96E-01	1.72E+01	1.40E+01	4.75E+01
4137	487363.09	3855377.25	4.49514	2.10726	3.49964	2.77652	14.74	1.799	2.4037	2.10726	3.13E+01	3.89E+00	3.64E-04	9.77E-02	4.62E+00	1.69E-01	1.70E+01	1.43E+01	4.28E+01
4138	487863.09	3855377.25	3.89584	1.70248	3.57671	2.21647	9.47	1.68	2.0454	1.70248	2.72E+01	3.14E+00	3.72E-04	7.80E-02	2.97E+00	1.58E-01	1.45E+01	1.16E+01	3.64E+01
4139	488363.09	3855377.25	3.61399	1.08094	3.32025	1.94759	12.76	1.537	1.3979	1.08094	2.52E+01	2.00E+00	3.46E-04	6.85E-02	4.00E+00	1.44E-01	9.90E+00	7.35E+00	3.40E+01
4140	488863.09	3855377.25	3.40336	0.73323	3.1317	1.84151	16.13	1.469	1.0675	0.73323	2.37E+01	1.35E+00	3.26E-04	6.48E-02	5.05E+00	1.38E-01	7.56E+00	4.99E+00	3.29E+01
4141	489363.09	3855377.25	3.22138	0.84829	3.08897	1.64348	15.73	1.4	1.1181	0.84829	2.25E+01	1.57E+00	3.22E-04	5.78E-02	4.93E+00	1.32E-01	7.92E+00	5.77E+00	3.13E+01
4142	489863.09	3855377.25	3.235	1.02925	2.74246	1.52702	13.57	1.278	1.2425	1.02925	2.26E+01	1.90E+00	2.86E-04	5.37E-02	4.25E+00	1.20E-01	8.80E+00	7.00E+00	3.07E+01
4143	490363.09	3855377.25	3.13484	1.13718	2.52784	1.44836	15.35	1.255	1.3004	1.13718	2.19E+01	2.10E+00	2.63E-04	5.10E-02	4.81E+00	1.18E-01	9.21E+00	7.73E+00	3.04E+01
4144	490863.09	3855377.25	2.47727	1.12676	1.25733	1.19506	6.078	0.78	1.1923	1.12676	1.73E+01	2.08E+00	1.31E-04	4.21E-02	1.90E+00	7.34E-02	8.45E+00	7.66E+00	2.22E+01
4145	491363.09	3855377.25	2.0002	0.93045	1.11097	0.96349	6.224	0.628	0.9767	0.93045	1.39E+01	1.72E+00	1.16E-04	3.39E-02	1.95E+00	5.90E-02	6.92E+00	6.33E+00	1.83E+01
4146	491863.09	3855377.25	2.78948	0.84767	1.87436	1.32821	14.26	1.113	0.9893	0.84767	1.94E+01	1.57E+00	1.95E-04	4.67E-02	4.47E+00	1.05E-01	7.01E+00	5.76E+00	2.69E+01
4147	492363.09	3855377.25	2.68078	0.84255	2.02905	2.16504	12.14	1.099	0.9917	0.84255	1.87E+01	1.56E+00	2.11E-04	7.62E-02	3.80E+00	1.03E-01	7.03E+00	5.73E+00	2.55E+01
4148	492863.09	3855377.25	2.57174	0.8343	1.83356	2.11871	9.649	1.09	0.9942	0.8343	1.79E+01	1.54E+00	1.91E-04	7.46E-02	3.02E+00	1.02E-01	7.04E+00	5.67E+00	2.40E+01
4149	493363.09	3855377.25	2.4827	0.79837	1.31623	3.15466	6.797	0.951	0.9403	0.79837	1.73E+01	1.47E+00	1.37E-04	1.11E-01	2.13E+00	8.94E-02	6.66E+00	5.43E+00	2.23E+01
4150	493863.09	3855377.25	2.02415	0.65783	1.11962	1.19567	4.639	0.698	0.7141	0.65783	1.41E+01	1.21E+00	1.17E-04	4.21E-02	1.45E+00	6.56E-02	5.06E+00	4.47E+00	1.75E+01
4151	494363.09	3855377.25	1.23984	0.44504	0.857	0.8705	3.563	0.583	0.4486	0.44504	8.64E+00	8.22E-01	8.92E-05	3.06E-02	1.12E+00	5.48E-02	3.18E+00	3.03E+00	1.08E+01
4152	494863.09	3855377.25	1.16094	0.31209	0.7009	0.65135	2.859	0.543	0.3125	0.31209	8.09E+00	5.76E-01	7.30E-05	2.29E-02	8.96E-01	5.10E-02	2.21E+00	2.12E+00	9.73E+00
4153	495363.09	3855377.25	0.94521	0.27102	0.66156	0.80169	2.452	0.482	0.2662	0.27102	6.59E+00	5.01E-01	6.89E-05	2.82E-02	7.68E-01	4.53E-02	1.89E+00	1.84E+00	7.98E+00
4154	495863.09	3855377.25	0.84085	0.25742	0.65238	0.81676	2.231	0.463	0.252	0.25742	5.86E+00	4.75E-01	6.79E-05	2.87E-02	6.99E-01	4.35E-02	1.79E+00	1.75E+00	7.14E+00
4155	496363.09	3855377.25	0.82472	0.25892	0.64687	0.8627	2.038	0.46	0.2538	0.25892	5.75E+00	4.78E-01	6.73E-05	3.04E-02	6.38E-01	4.32E-02	1.80E+00	1.76E+00	6.98E+00
4156	496863.09	3855377.25	0.81522	0.25944	0.63086	0.74869	1.927	0.454	0.2553	0.25944	5.68E+00	4.79E-01	6.57E-05	2.64E-02	6.04E-01	4.26E-02	1.81E+00	1.76E+00	6.88E+00
4157	497363.09	3855377.25	0.8115	0.25926	0.61677	0.61221	1.839	0.452	0.256	0.25926	5.66E+00	4.79E-01	6.42E-05	2.15E-02	5.76E-01	4.25E-02	1.81E+00	1.76E+00	6.83E+00

4158	497863.09	3855377.25	0.81035	0.25875	0.62718	0.55	1.728	0.479	0.2562	0.25875	5.65E+00	4.78E-01	6.53E-05	1.94E-02	5.41E-01	4.50E-02	1.82E+00	1.76E+00	6.79E+00
4159	498363.09	3855377.25	0.89014	0.25848	0.64373	0.54307	1.599	0.493	0.2565	0.25848	6.21E+00	4.77E-01	6.70E-05	1.91E-02	5.01E-01	4.63E-02	1.82E+00	1.76E+00	7.31E+00
4160	471363.09	3855877.25	1.2757	0.53305	0.58152	0.6711	2.377	0.666	0.536	0.53305	8.89E+00	9.85E-01	6.05E-05	2.36E-02	7.45E-01	6.26E-02	3.80E+00	3.62E+00	1.09E+01
4161	471863.09	3855877.25	1.34466	0.5488	0.61974	0.6896	2.522	0.688	0.5538	0.5488	9.37E+00	1.01E+00	6.45E-05	2.43E-02	7.90E-01	6.47E-02	3.92E+00	3.73E+00	1.15E+01
4162	472363.09	3855877.25	1.43841	0.56144	0.67583	0.74024	2.763	0.743	0.5717	0.56144	1.00E+01	1.04E+00	7.04E-05	2.61E-02	8.66E-01	6.99E-02	4.05E+00	3.82E+00	1.23E+01
4163	472863.09	3855877.25	1.52149	0.56313	0.70659	0.7417	2.87	0.777	0.561	0.56313	1.06E+01	1.04E+00	7.36E-05	2.61E-02	8.99E-01	7.31E-02	3.97E+00	3.83E+00	1.28E+01
4164	473363.09	3855877.25	1.65694	0.61352	0.80185	0.81172	3.164	0.893	0.6186	0.61352	1.16E+01	1.13E+00	8.35E-05	2.86E-02	9.91E-01	8.39E-02	4.38E+00	4.17E+00	1.40E+01
4165	473863.09	3855877.25	1.77967	0.65652	0.87504	0.87463	3.508	0.99	0.6608	0.65652	1.24E+01	1.21E+00	9.11E-05	3.08E-02	1.10E+00	9.30E-02	4.68E+00	4.46E+00	1.51E+01
4166	474363.09	3855877.25	1.89365	0.68244	0.91377	0.94245	3.82	1.067	0.6823	0.68244	1.32E+01	1.26E+00	9.51E-05	3.32E-02	1.20E+00	1.00E-01	4.83E+00	4.64E+00	1.60E+01
4167	474863.09	3855877.25	1.85235	0.57551	0.78311	0.77892	3.082	0.956	0.5508	0.57551	1.29E+01	1.06E+00	8.15E-05	2.74E-02	9.66E-01	8.99E-02	3.90E+00	3.91E+00	1.50E+01
4168	475363.09	3855877.25	1.24826	0.5441	0.79403	0.71434	1.73	0.987	0.5008	0.5441	8.70E+00	1.00E+00	8.27E-05	2.51E-02	5.42E-01	9.28E-02	3.55E+00	3.70E+00	1.02E+01
4169	475863.09	3855877.25	0.91342	0.49868	0.64595	0.64481	0.958	0.978	0.454	0.49868	6.37E+00	9.21E-01	6.72E-05	2.27E-02	3.00E-01	9.19E-02	3.22E+00	3.39E+00	7.53E+00
4170	476363.09	3855877.25	0.9313	0.49398	0.67739	0.68541	0.991	1.051	0.4345	0.49398	6.49E+00	9.12E-01	7.05E-05	2.41E-02	3.10E-01	9.88E-02	3.08E+00	3.36E+00	7.56E+00
4171	476863.09	3855877.25	0.9495	0.5247	0.80318	0.75118	1.196	1.139	0.4399	0.5247	6.62E+00	9.69E-01	8.36E-05	2.64E-02	3.75E-01	1.07E-01	3.12E+00	3.57E+00	7.65E+00
4172	477363.09	3855877.25	1.10317	0.52151	0.83167	0.78749	1.231	1.177	0.4214	0.52151	7.69E+00	9.63E-01	8.66E-05	2.77E-02	3.86E-01	1.11E-01	2.99E+00	3.55E+00	8.62E+00
4173	477863.09	3855877.25	1.37419	0.58088	0.88298	0.79543	1.265	1.206	0.4636	0.58088	9.58E+00	1.07E+00	9.19E-05	2.80E-02	3.96E-01	1.13E-01	3.28E+00	3.95E+00	1.05E+01
4174	478363.09	3855877.25	1.4408	0.62388	0.95701	0.80591	1.48	1.179	0.5054	0.62388	1.00E+01	1.15E+00	9.96E-05	2.84E-02	4.64E-01	1.11E-01	3.58E+00	4.24E+00	1.11E+01
4175	478863.09	3855877.25	2.13343	0.68255	1.00906	0.83026	2.13	1.13	0.6068	0.68255	1.49E+01	1.26E+00	1.05E-04	2.92E-02	6.67E-01	1.06E-01	4.30E+00	4.64E+00	1.66E+01
4176	479363.09	3855877.25	2.72841	0.79656	1.08053	1.09077	3.069	1.168	0.7219	0.79656	1.90E+01	1.47E+00	1.12E-04	3.84E-02	9.62E-01	1.10E-01	5.11E+00	5.42E+00	2.13E+01
4177	479863.09	3855877.25	3.37733	0.8541	1.2594	1.32818	4.23	1.276	0.7549	0.8541	2.35E+01	1.58E+00	1.31E-04	4.67E-02	1.33E+00	1.20E-01	5.35E+00	5.81E+00	2.62E+01
4178	480363.09	3855877.25	4.07796	0.8498	2.49263	1.64118	6.624	1.365	0.8283	0.8498	2.84E+01	1.57E+00	2.59E-04	5.78E-02	2.08E+00	1.28E-01	5.87E+00	5.78E+00	3.24E+01
4179	480863.09	3855877.25	4.5912	0.85587	4.00846	2.08465	9.251	1.581	0.9936	0.85587	3.20E+01	1.58E+00	4.17E-04	7.34E-02	2.90E+00	1.49E-01	7.04E+00	5.82E+00	3.79E+01
4180	481363.09	3855877.25	5.08286	0.99452	2.88288	2.07528	11.27	1.61	1.1178	0.99452	3.54E+01	1.84E+00	3.00E-04	7.30E-02	3.53E+00	1.51E-01	7.92E+00	6.76E+00	4.22E+01
4181	481863.09	3855877.25	4.63076	1.56094	6.27871	2.03977	12.92	2.308	1.1157	1.56094	3.23E+01	2.88E+00	6.54E-04	7.18E-02	4.05E+00	2.17E-01	7.90E+00	1.06E+01	3.68E+01
4182	482363.09	3855877.25	5.32717	1.71505	8.01034	1.92713	12.98	2.818	1.1123	1.71505	3.71E+01	3.17E+00	8.34E-04	6.78E-02	4.07E+00	2.65E-01	7.88E+00	1.17E+01	4.09E+01
4183	482863.09	3855877.25	6.94769	2.03957	10.57163	2.004	13.02	3.533	1.1493	2.03957	4.84E+01	3.77E+00	1.10E-03	7.05E-02	4.08E+00	3.32E-01	8.14E+00	1.39E+01	5.10E+01
4184	483363.09	3855877.25	7.77459	3.29824	9.96323	2.23784	10.94	5.277	1.5477	3.29824	5.42E+01	6.09E+00	1.04E-03	7.88E-02	3.43E+00	4.96E-01	1.10E+01	2.24E+01	5.28E+01
4185	483863.09	3855877.25	7.89524	4.87005	12.29249	2.59073	9.008	13.69	1.7008	4.87005	5.50E+01	8.99E+00	1.28E-03	9.12E-02	2.82E+00	1.29E+00	1.21E+01	3.31E+01	4.72E+01
4186	484363.09	3855877.25	8.25114	11.92333	15.41162	3.14868	9.293	4.546	2.7544	11.92333	5.75E+01	2.20E+01	1.60E-03	1.11E-01	2.91E+00	4.27E-01	1.95E+01	8.11E+01	2.14E+01
4187	484863.09	3855877.25	8.20561	3.38998	23.62072	4.40298	11.69	3.399	3.6367	3.38998	5.72E+01	6.26E+00	2.46E-03	1.55E-01	3.66E+00	3.19E-01	2.58E+01	2.31E+01	7.03E+01
4188	485363.09	3855877.25	8.62818	1.86308	21.17329	6.37117	16.57	4.023	4.8981	1.86308	6.02E+01	3.44E+00	2.20E-03	2.24E-01	5.19E+00	3.78E-01	3.47E+01	1.27E+01	9.14E+01
4189	485863.09	3855877.25	8.35662	1.47845	12.64926	42.63594	16.81	11.16	8.5026	1.47845	5.83E+01	2.73E+00	1.32E-03	1.50E+00	5.27E+00	1.05E+00	6.02E+01	1.01E+01	1.19E+02
4190	486363.09	3855877.25	6.63059	1.38129	6.58674	8.07614	23.85	4.221	3.8045	1.38129	4.62E+01	2.55E+00	6.86E-04	2.84E-01	7.47E+00	3.97E-01	2.70E+01	9.39E+00	7.45E+01
4191	486863.09	3855877.25	5.82264	1.73619	5.04817	4.42636	24.02	2.706	2.4515	1.73619	4.06E+01	3.21E+00	5.26E-04	1.56E-01	7.53E+00	2.54E-01	1.74E+01	1.18E+01	5.73E+01
4192	487363.09	3855877.25	4.98934	1.90702	4.86427	3.51704	22.82	2.403	2.1647	1.90702	3.48E+01	3.52E+00	5.06E-04	1.24E-01	7.15E+00	2.26E-01	1.53E+01	1.30E+01	4.82E+01
4193	487863.09	3855877.25	4.43682	1.88222	4.65677	3.02971	17.79	2.093	2.1034	1.88222	3.09E+01	3.48E+00	4.85E-04	1.07E-01	5.57E+00	1.97E-01	1.49E+01	1.28E+01	4.24E+01
4194	488363.09	3855877.25	4.09998	1.7598	4.07552	2.68565	27.92	1.831	2.0161	1.7598	2.86E+01	3.25E+00	4.24E-04	9.45E-02	8.75E+00	1.72E-01	1.43E+01	1.20E+01	4.32E+01
4195	488863.09	3855877.25	3.81416	1.34929	3.46506	2.23058	25.95	1.662	1.6335	1.34929	2.66E+01	2.49E+00	3.61E-04	7.85E-02	8.13E+00	1.56E-01	1.16E+01	9.17E+00	3.98E+01
4196	489363.09	3855877.25	3.58228	0.98071	4.09946	1.83578	22.39	1.45	1.1886	0.98071	2.50E+01	1.81E+00	4.27E-04	6.46E-02	7.01E+00	1.36E-01	8.42E+00	6.67E+00	3.58E+01
4197	489863.09	3855877.25	3.46504	0.78478	3.02287	1.61733	24.9	1.534	1.0293	0.78478	2.42E+01	1.45E+00	3.15E-04	5.69E-02	7.80E+00	1.44E-01	7.29E+00	5.34E+00	3.56E+01
4198	490363.09	3855877.25	3.19174	0.83932	2.74233	1.57252	25.32	1.412	1.0296	0.83932	2.23E+01	1.55E+00	2.85E-04	5.53E-02	7.93E+00	1.33E-01	7.29E+00	5.71E+00	3.35E+01
4199	490863.09	3855877.25	3.07229	0.91371	2.49261	1.7595	21.15	1.408	1.1072	0.91371	2.14E+01	1.69E+00	2.59E-04	6.19E-02	6.63E+00	1.32E-01	7.84E+00	6.21E+00	3.16E+01
4200	491363.09	3855877.25	3.02559	1.00336	1.94183	1.55558	12.75	1.14	1.169	1.00336	2.11E+01	1.85E+00	2.02E-04	5.48E-02	4.00E+00	1.07E-01	8.28E+00	6.82E+00	2.86E+01
4201	491863.09	3855877.25	2.85731	1.01722	2.18958	1.66239	13.97	1.331	1.1271	1.01722	1.99E+01	1.88E+00	2.28E-04	5.85E-02	4.38E+00	1.25E-01	7.99E+00	6.92E+00	2.74E+01
4202	492363.09	3855877.25	2.83996	0.94635	1.76648	5.45865	11.7	1.321	1.0493	0.94635	1.98E+01	1.75E+00	1.84E-04	1.92E-01	3.67E+00	1.24E-01	7.43E+00	6.44E+00	2.65E+01
4203	492863.09	3855877.25	2.77428	0.78669	1.92348	4.58302	10.87	1.132	0.8804	0.78669	1.93E+01	1.45E+00	2.00E-04	1.61E-01	3.41E+00	1.06E-01	6.24E+00	5.35E+00	2.54E+01
4204	493363.09	3855877.25	2.41894	0.72133	1.06113	1.90582	6.523	0.843	0.7472	0.72133	1.69E+01	1.33E+00	1.10E-04	6.71E-02	2.04E+00	7.93E-02	5.29E+00	4.90E+00	2.08E+01
4205	493863.09	3855877.25	1.68351	0.52108	0.85278	1.1501	5.034	0.617	0.524	0.52108	1.17E+01	9.62E-01	8.88E-05	4.05E-02	1.58E+00	5.80E-02	3.71E+00	3.54E+00	1.45E+01
4206	494363.09	3855877.25	1.21297	0.38521	0.65106	0.97809	2.904	0.532	0.3792	0.38521	8.46E+00	7.11E-01	6.78E-05	3.44E-02	9.10E-01	5.00E-02	2.69E+00	2.62E+00	1.02E+01
4207	494863.09	3855877.25	0.99982	0.2934	0.60514	0.89493	2.314	0.492	0.2858	0.2934	6.97E+00	5.42E-01	6.30E-05	3.15E-02	7.25E-01	4.62E-02	2.02E+00	2.00E+00	8.34E+00
4208	495363.09	3855877.25	0.85619	0.25353	0.56449	0.94489	2.017	0.488	0.2526	0.25353	5.97E+00	4.68E-01	5.88E-05	3.33E-02	6.32E-01	4.59E-02	1.79E+00	1.72E+00	7.21E+00
4209	495863.09	3855877.25	0.84396	0.25202	0.54047	0.80403	1.802	0.484	0.2507	0.25202	5.88E+00	4.65E-01	5.63E-05	2.83E-02	5.65E-01	4.55E-02	1.78E+00	1.71E+00	7.05E+00
4210	496363.09	3855877.25	0.83733	0.24876	0.51077	0.65306	1.615	0.483	0.2475	0.24876	5.84E+00	4.59E-01	5.32E-05	2.30E-02	5.06E-01	4.54E-02	1.75E+00	1.69E+00	6.93E+00
4211	496863.09	3855877.25	0.83646	0.24861	0.53514	0.5791	1.505	0.483	0.2473	0.24861	5.83E+00	4.59E-01	5.57E-05	2.04E-02	4.72E-01	4.54E-02	1.75E+00	1.69E+00	6.89E+00
4212	497363.09	3855877.25	0.83422	0.25204	0.55733	0.56376	1.563	0.503	0.2488	0.25204	5.82E+00	4.65E-01	5.80E-05	1.98E-02	4.90E-01	4.73E-02	1.76E+00	1.71E+00	6.89E+00
4213	497863.09	3855877.25	0.90462	0.25524	0.51675	0.56628	1.695	0.519	0.254	0.25524	6.31E+00	4.71E-01	5.38E-05	1.99E-02	5.31E-01	4.88E-02	1.80E+00	1.74E+00	7.44E+00
4214	498363.09	3855877.25	1.0625	0.2695	0.48876	0.60285	2.148	0.555	0.2742	0.2695	7.41E+00	4.98E-01	5.09E-05	2.12E-02	6.73E-01	5.22E-02	1.94E+00	1.83E+00	8.76E+00

4215	471363.09	3856377.25	1.08006	0.41872	0.60825	0.63645	2.243	0.681	0.4297	0.41872	7.53E+00	7.73E-01	6.33E-05	2.24E-02	7.03E-01	6.40E-02	3.04E+00	2.85E+00	9.29E+00
4216	471863.09	3856377.25	1.12604	0.45789	0.6144	0.65339	2.312	0.676	0.4769	0.45789	7.85E+00	8.46E-01	6.40E-05	2.30E-02	7.24E-01	6.35E-02	3.38E+00	3.11E+00	9.77E+00
4217	472363.09	3856377.25	1.21324	0.4992	0.65065	0.70087	2.433	0.705	0.5274	0.4992	8.46E+00	9.22E-01	6.77E-05	2.47E-02	7.62E-01	6.63E-02	3.74E+00	3.39E+00	1.06E+01
4218	472863.09	3856377.25	1.3097	0.5623	0.70113	0.76151	2.58	0.748	0.5831	0.5623	9.13E+00	1.04E+00	7.30E-05	2.68E-02	8.08E-01	7.03E-02	4.13E+00	3.82E+00	1.14E+01
4219	473363.09	3856377.25	1.40423	0.61417	0.78108	0.80948	2.71	0.779	0.6322	0.61417	9.79E+00	1.13E+00	8.13E-05	2.85E-02	8.49E-01	7.33E-02	4.48E+00	4.18E+00	1.22E+01
4220	473863.09	3856377.25	1.52608	0.65852	0.90012	0.8956	2.912	0.86	0.6753	0.65852	1.06E+01	1.22E+00	9.37E-05	3.15E-02	9.12E-01	8.08E-02	4.78E+00	4.48E+00	1.32E+01
4221	474363.09	3856377.25	1.59393	0.62865	0.89486	0.87437	2.927	0.82	0.6674	0.62865	1.11E+01	1.16E+00	9.32E-05	3.08E-02	9.17E-01	7.71E-02	4.73E+00	4.27E+00	1.38E+01
4222	474863.09	3856377.25	1.64073	0.588	0.80351	0.81755	2.846	0.782	0.6306	0.588	1.14E+01	1.09E+00	8.37E-05	2.88E-02	8.92E-01	7.35E-02	4.47E+00	4.00E+00	1.40E+01
4223	475363.09	3856377.25	1.54642	0.5743	0.72814	0.66638	2.433	0.763	0.5821	0.5743	1.08E+01	1.06E+00	7.58E-05	2.35E-02	7.62E-01	7.17E-02	4.12E+00	3.91E+00	1.29E+01
4224	475863.09	3856377.25	1.09537	0.56038	0.67116	0.58937	1.838	0.802	0.5427	0.56038	7.64E+00	1.03E+00	6.99E-05	2.07E-02	5.76E-01	7.54E-02	3.85E+00	3.81E+00	9.38E+00
4225	476363.09	3856377.25	1.13046	0.56203	0.75237	0.65025	1.807	0.869	0.5374	0.56203	7.88E+00	1.04E+00	7.83E-05	2.29E-02	5.66E-01	8.17E-02	3.81E+00	3.82E+00	9.58E+00
4226	476863.09	3856377.25	1.18396	0.56189	0.81309	0.71003	1.832	0.949	0.5296	0.56189	8.25E+00	1.04E+00	8.46E-05	2.50E-02	5.74E-01	8.92E-02	3.75E+00	3.82E+00	9.91E+00
4227	477363.09	3856377.25	1.23074	0.57477	0.87789	0.75895	1.882	1.035	0.537	0.57477	8.58E+00	1.06E+00	9.14E-05	2.67E-02	5.90E-01	9.73E-02	3.80E+00	3.91E+00	1.03E+01
4228	477863.09	3856377.25	0.9458	0.5634	0.79008	0.7754	1.705	1.071	0.5188	0.5634	6.59E+00	1.04E+00	8.23E-05	2.73E-02	5.34E-01	1.01E-01	3.68E+00	3.83E+00	8.14E+00
4229	478363.09	3856377.25	0.95105	0.55171	0.83417	0.78105	1.411	1.157	0.4881	0.55171	6.63E+00	1.02E+00	8.68E-05	2.75E-02	4.42E-01	1.09E-01	3.46E+00	3.75E+00	7.93E+00
4230	478863.09	3856377.25	1.33466	0.66674	1.09878	0.88651	2.23	1.298	0.588	0.66674	9.30E+00	1.23E+00	1.14E-04	3.12E-02	6.99E-01	1.22E-01	4.17E+00	4.53E+00	1.10E+01
4231	479363.09	3856377.25	1.94765	0.71554	1.48021	0.88025	2.893	1.352	0.6285	0.71554	1.36E+01	1.32E+00	1.54E-04	3.10E-02	9.06E-01	1.27E-01	4.45E+00	4.87E+00	1.56E+01
4232	479863.09	3856377.25	3.20765	0.85494	1.66552	1.2177	5.579	1.69	0.7621	0.85494	2.24E+01	1.58E+00	1.73E-04	4.29E-02	1.75E+00	1.59E-01	5.40E+00	5.81E+00	2.55E+01
4233	480363.09	3856377.25	3.92783	0.83902	2.2809	1.47193	8.602	1.936	0.7718	0.83902	2.74E+01	1.55E+00	2.37E-04	5.18E-02	2.70E+00	1.82E-01	5.47E+00	5.71E+00	3.16E+01
4234	480863.09	3856377.25	4.34016	0.89135	3.07605	1.9078	10.33	1.977	0.8735	0.89135	3.03E+01	1.65E+00	3.20E-04	6.71E-02	3.24E+00	1.86E-01	6.19E+00	6.06E+00	3.55E+01
4235	481363.09	3856377.25	4.56267	1.09881	4.70149	2.14605	11.02	2.025	0.956	1.09881	3.18E+01	2.03E+00	4.89E-04	7.55E-02	3.45E+00	1.90E-01	6.77E+00	7.47E+00	3.69E+01
4236	481863.09	3856377.25	4.60439	1.3718	6.70075	2.2853	10.52	2.466	1.062	1.3718	3.21E+01	2.53E+00	6.98E-04	8.04E-02	3.29E+00	2.32E-01	7.52E+00	9.33E+00	3.64E+01
4237	482363.09	3856377.25	4.94238	1.58672	8.05772	2.26602	10.7	2.606	1.1772	1.58672	3.45E+01	2.93E+00	8.39E-04	7.98E-02	3.35E+00	2.45E-01	8.34E+00	1.08E+01	3.86E+01
4238	482863.09	3856377.25	5.94037	1.80568	10.76407	2.26296	12.11	2.801	1.1654	1.80568	4.14E+01	3.33E+00	1.12E-03	7.96E-02	3.79E+00	2.63E-01	8.26E+00	1.23E+01	4.49E+01
4239	483363.09	3856377.25	8.1158	2.18954	11.47902	2.24921	14.52	3.548	1.2263	2.18954	5.66E+01	4.04E+00	1.20E-03	7.92E-02	4.55E+00	3.33E-01	8.69E+00	1.49E+01	5.94E+01
4240	483863.09	3856377.25	8.46711	2.60638	18.09419	2.27724	16.84	5.163	1.3109	2.60638	5.90E+01	4.81E+00	1.88E-03	8.02E-02	5.28E+00	4.85E-01	9.29E+00	1.77E+01	6.13E+01
4241	484363.09	3856377.25	8.37225	4.34253	18.99558	2.5767	17.75	15.9	1.704	4.34253	5.84E+01	8.02E+00	1.98E-03	9.07E-02	5.56E+00	1.49E+00	1.21E+01	2.95E+01	5.61E+01
4242	484863.09	3856377.25	8.53927	15.732	27.79688	3.0058	18.09	5.311	2.4614	15.732	5.95E+01	2.91E+01	2.89E-03	1.06E-01	5.67E+00	4.99E-01	1.74E+01	1.07E+02	5.33E+00
4243	485363.09	3856377.25	8.53632	4.30189	18.31237	4.10428	18.57	4.283	3.2091	4.30189	5.95E+01	7.95E+00	1.91E-03	1.44E-01	5.82E+00	4.03E-01	2.27E+01	2.93E+01	6.73E+01
4244	485863.09	3856377.25	8.73198	2.32163	14.24959	5.8268	22.18	3.705	4.7004	2.32163	6.09E+01	4.29E+00	1.48E-03	2.05E-01	6.95E+00	3.48E-01	3.33E+01	1.58E+01	9.02E+01
4245	486363.09	3856377.25	9.45887	1.35813	8.2173	21.35313	30.27	15.55	8.5573	1.35813	6.59E+01	2.51E+00	8.55E-04	7.52E-01	9.48E+00	1.46E+00	6.06E+01	9.24E+00	1.32E+02
4246	486863.09	3856377.25	6.77605	1.25645	5.59906	8.94663	40.57	4.698	3.9925	1.25645	4.72E+01	2.32E+00	5.83E-04	3.15E-01	1.27E+01	4.42E-01	2.83E+01	8.54E+00	8.28E+01
4247	487363.09	3856377.25	5.62298	1.44111	5.11695	4.91115	42.62	3.014	2.7875	1.44111	3.92E+01	2.66E+00	5.33E-04	1.73E-01	1.34E+01	2.83E-01	1.98E+01	9.80E+00	6.56E+01
4248	487863.09	3856377.25	4.79415	1.64385	5.21457	3.56123	40.76	2.573	2.1179	1.64385	3.34E+01	3.04E+00	5.43E-04	1.25E-01	1.28E+01	2.42E-01	1.50E+01	1.12E+01	5.34E+01
4249	488363.09	3856377.25	4.28825	1.60206	4.92108	3.1014	46.19	2.241	1.8643	1.60206	2.99E+01	2.96E+00	5.12E-04	1.09E-01	1.45E+01	2.11E-01	1.32E+01	1.09E+01	5.00E+01
4250	488863.09	3856377.25	3.93374	1.62556	5.2569	2.93482	43.25	2.077	1.8002	1.62556	2.74E+01	3.00E+00	5.47E-04	1.03E-01	1.35E+01	1.95E-01	1.28E+01	1.11E+01	4.60E+01
4251	489363.09	3856377.25	3.6549	1.45226	4.34672	2.33656	38.34	2.191	1.5737	1.45226	2.55E+01	2.68E+00	4.53E-04	8.22E-02	1.20E+01	2.06E-01	1.12E+01	9.88E+00	4.17E+01
4252	489863.09	3856377.25	3.4348	1.14167	3.68931	2.12519	31.71	2.008	1.2985	1.14167	2.39E+01	2.11E+00	3.84E-04	7.48E-02	9.93E+00	1.89E-01	9.20E+00	7.76E+00	3.77E+01
4253	490363.09	3856377.25	3.33508	0.90533	3.51855	2.45859	24.88	1.867	1.051	0.90533	2.33E+01	1.67E+00	3.66E-04	8.65E-02	7.80E+00	1.75E-01	7.45E+00	6.16E+00	3.43E+01
4254	490863.09	3856377.25	3.2626	0.77974	3.20258	1.91623	21.58	1.815	0.9817	0.77974	2.27E+01	1.44E+00	3.33E-04	6.74E-02	6.76E+00	1.71E-01	6.96E+00	5.30E+00	3.28E+01
4255	491363.09	3856377.25	3.22682	0.78886	2.81282	2.43073	19.07	1.774	0.9639	0.78886	2.25E+01	1.46E+00	2.93E-04	8.56E-02	5.97E+00	1.67E-01	6.83E+00	5.36E+00	3.16E+01
4256	491863.09	3856377.25	3.24001	0.82033	2.61852	3.42544	17.89	1.514	0.9967	0.82033	2.26E+01	1.52E+00	2.73E-04	1.21E-01	5.61E+00	1.42E-01	7.06E+00	5.58E+00	3.15E+01
4257	492363.09	3856377.25	3.24457	0.88746	2.05033	5.77105	15.85	1.182	1.0726	0.88746	2.26E+01	1.64E+00	2.13E-04	2.03E-01	4.97E+00	1.11E-01	7.60E+00	6.03E+00	3.11E+01
4258	492863.09	3856377.25	2.99803	0.9707	1.33171	5.65743	9.521	1.001	1.0838	0.9707	2.09E+01	1.79E+00	1.39E-04	1.99E-01	2.98E+00	9.41E-02	7.68E+00	6.60E+00	2.70E+01
4259	493363.09	3856377.25	1.86971	0.76946	0.71108	1.35226	4.826	0.665	0.7749	0.76946	1.30E+01	1.42E+00	7.40E-05	4.76E-02	1.51E+00	6.25E-02	5.49E+00	5.23E+00	1.63E+01
4260	493863.09	3856377.25	1.26001	0.56483	0.66056	1.2083	4.144	0.589	0.571	0.56483	8.78E+00	1.04E+00	6.88E-05	4.25E-02	1.30E+00	5.54E-02	4.05E+00	3.84E+00	1.14E+01
4261	494363.09	3856377.25	1.08612	0.38023	0.55226	1.04028	3.139	0.569	0.3732	0.38023	7.57E+00	7.02E-01	5.75E-05	3.66E-02	9.83E-01	5.35E-02	2.64E+00	2.59E+00	9.41E+00
4262	494863.09	3856377.25	0.84432	0.28612	0.44381	0.8863	2.702	0.521	0.3024	0.28612	5.89E+00	5.28E-01	4.62E-05	3.12E-02	8.47E-01	4.90E-02	2.14E+00	1.95E+00	7.54E+00
4263	495363.09	3856377.25	0.81972	0.25869	0.38384	0.71674	2.775	0.512	0.272	0.25869	5.71E+00	4.78E-01	4.00E-05	2.52E-02	8.69E-01	4.81E-02	1.93E+00	1.76E+00	7.30E+00
4264	495863.09	3856377.25	0.81367	0.25252	0.43604	0.66384	2.843	0.503	0.2631	0.25252	5.67E+00	4.66E-01	4.54E-05	2.34E-02	8.91E-01	4.73E-02	1.86E+00	1.72E+00	7.25E+00
4265	496363.09	3856377.25	0.80638	0.25165	0.44857	0.66525	2.881	0.5	0.2596	0.25165	5.62E+00	4.65E-01	4.67E-05	2.34E-02	9.03E-01	4.70E-02	1.84E+00	1.71E+00	7.19E+00
4266	496863.09	3856377.25	0.79829	0.25253	0.40761	0.694	2.895	0.498	0.2585	0.25253	5.57E+00	4.66E-01	4.24E-05	2.44E-02	9.07E-01	4.68E-02	1.83E+00	1.72E+00	7.12E+00
4267	497363.09	3856377.25	0.87176	0.25356	0.36955	0.7106	2.905	0.527	0.2562	0.25356	6.08E+00	4.68E-01	3.85E-05	2.50E-02	9.10E-01	4.95E-02	1.82E+00	1.72E+00	7.62E+00
4268	497863.09	3856377.25	0.89661	0.26721	0.40845	0.71641	3.019	0.55	0.2748	0.26721	6.25E+00	4.94E-01	4.25E-05	2.52E-02	9.46E-01	5.17E-02	1.95E+00	1.82E+00	7.90E+00
4269	498363.09	3856377.25	1.00988	0.28632	0.43417	0.73935	3.224	1.674	0.293	0.28632	7.04E+00	5.29E-01	4.52E-05	2.60E-02	1.01E+00	1.57E-01	2.08E+00	1.95E+00	8.89E+00
4270	471363.09	3856877.25	1.17427	0.41401	0.68948	0.67287	1.843	0.789	0.436	0.41401	8.19E+00	7.65E-01	7.18E-05	2.37E-02	5.77E-01	7.41E-02	3.09E+00	2.82E+00	9.90E+00
4271	471863.09	3856877.25	1.22159	0.41182	0.69698	0.67961	1.903	0.769	0.4392	0.41182	8.52E+00	7.61E-01	7.26E-05	2.39E-02	5.96E-01	7.23E-02	3.11E+00	2.80E+00	1.03E+01

4272	472363.09	3856877.25	1.28349	0.42028	0.75775	0.71273	2.003	0.79	0.4494	0.42028	8.95E+00	7.76E-01	7.89E-05	2.51E-02	6.27E-01	7.43E-02	3.18E+00	2.86E+00	1.08E+01
4273	472863.09	3856877.25	1.34606	0.4379	0.81565	0.74282	2.105	0.808	0.4747	0.4379	9.38E+00	8.09E-01	8.49E-05	2.61E-02	6.59E-01	7.60E-02	3.36E+00	2.98E+00	1.13E+01
4274	473363.09	3856877.25	1.42138	0.4739	0.94536	0.80974	2.252	0.887	0.5076	0.4739	9.91E+00	8.75E-01	9.84E-05	2.85E-02	7.06E-01	8.34E-02	3.60E+00	3.22E+00	1.20E+01
4275	473863.09	3856877.25	1.48591	0.51901	0.93522	0.83699	2.364	0.905	0.5562	0.51901	1.04E+01	9.59E-01	9.74E-05	2.95E-02	7.41E-01	8.50E-02	3.94E+00	3.53E+00	1.26E+01
4276	474363.09	3856877.25	1.52829	0.54475	0.81141	0.78656	2.399	0.807	0.5965	0.54475	1.07E+01	1.01E+00	8.45E-05	2.77E-02	7.52E-01	7.58E-02	4.23E+00	3.70E+00	1.30E+01
4277	474863.09	3856877.25	1.54425	0.55224	0.64236	0.71445	2.354	0.692	0.6052	0.55224	1.08E+01	1.02E+00	6.69E-05	2.51E-02	7.38E-01	6.51E-02	4.29E+00	3.76E+00	1.31E+01
4278	475363.09	3856877.25	1.45023	0.5751	0.56484	0.61593	2.147	0.627	0.5894	0.5751	1.01E+01	1.06E+00	5.88E-05	2.17E-02	6.73E-01	5.89E-02	4.18E+00	3.91E+00	1.22E+01
4279	475863.09	3856877.25	1.46888	0.58192	0.54658	0.5978	2.163	0.648	0.6006	0.58192	1.02E+01	1.07E+00	5.69E-05	2.10E-02	6.78E-01	6.09E-02	4.26E+00	3.96E+00	1.24E+01
4280	476363.09	3856877.25	1.33345	0.58051	0.55415	0.59063	1.972	0.688	0.5939	0.58051	9.30E+00	1.07E+00	5.77E-05	2.08E-02	6.18E-01	6.47E-02	4.21E+00	3.95E+00	1.13E+01
4281	476863.09	3856877.25	1.10406	0.58606	0.64228	0.61909	1.929	0.744	0.5846	0.58606	7.70E+00	1.08E+00	6.69E-05	2.18E-02	6.04E-01	6.99E-02	4.14E+00	3.99E+00	9.63E+00
4282	477363.09	3856877.25	1.13697	0.58849	0.77094	0.5771	1.801	0.767	0.5827	0.58849	7.93E+00	1.09E+00	8.03E-05	2.03E-02	5.64E-01	7.21E-02	4.13E+00	4.00E+00	9.80E+00
4283	477863.09	3856877.25	0.87978	0.56796	0.6628	0.60512	1.404	0.798	0.5586	0.56796	6.13E+00	1.05E+00	6.90E-05	2.13E-02	4.40E-01	7.50E-02	3.96E+00	3.86E+00	7.81E+00
4284	478363.09	3856877.25	0.90375	0.56763	0.67836	0.66808	1.39	0.868	0.5509	0.56763	6.30E+00	1.05E+00	7.06E-05	2.35E-02	4.35E-01	8.16E-02	3.90E+00	3.86E+00	7.93E+00
4285	478863.09	3856877.25	0.98107	0.61315	0.85665	0.73207	1.519	0.952	0.597	0.61315	6.84E+00	1.13E+00	8.92E-05	2.58E-02	4.76E-01	8.95E-02	4.23E+00	4.17E+00	8.62E+00
4286	479363.09	3856877.25	1.30089	0.66161	0.96117	0.80244	1.919	1.091	0.6294	0.66161	9.07E+00	1.22E+00	1.00E-04	2.82E-02	6.01E-01	1.03E-01	4.46E+00	4.50E+00	1.10E+01
4287	479863.09	3856877.25	2.57075	0.79901	1.60103	1.04859	3.94	1.379	0.7885	0.79901	1.79E+01	1.48E+00	1.67E-04	3.69E-02	1.23E+00	1.30E-01	5.59E+00	5.43E+00	2.10E+01
4288	480363.09	3856877.25	3.3265	0.85733	2.52589	1.51798	5.592	2.015	0.805	0.85733	2.32E+01	1.58E+00	2.63E-04	5.34E-02	1.75E+00	1.89E-01	5.70E+00	5.83E+00	2.66E+01
4289	480863.09	3856877.25	3.53038	1.12498	4.14834	2.05207	6.606	2.661	0.9715	1.12498	2.46E+01	2.08E+00	4.32E-04	7.22E-02	2.07E+00	2.50E-01	6.88E+00	7.65E+00	2.83E+01
4290	481363.09	3856877.25	3.64765	1.24342	4.90771	2.08537	7.197	3.276	0.9157	1.24342	2.54E+01	2.30E+00	5.11E-04	7.34E-02	2.25E+00	3.08E-01	6.49E+00	8.46E+00	2.84E+01
4291	481863.09	3856877.25	3.94788	1.33541	5.35837	2.1177	8.217	3.26	0.9657	1.33541	2.75E+01	2.47E+00	5.58E-04	7.45E-02	2.57E+00	3.06E-01	6.84E+00	9.08E+00	3.07E+01
4292	482363.09	3856877.25	4.31334	1.57172	6.82077	2.14021	8.9	3.088	1.0936	1.57172	3.01E+01	2.90E+00	7.10E-04	7.53E-02	2.79E+00	2.90E-01	7.75E+00	1.07E+01	3.32E+01
4293	482863.09	3856877.25	5.30648	1.63003	7.0934	2.25102	10.34	2.818	1.0961	1.63003	3.70E+01	3.01E+00	7.38E-04	7.92E-02	3.24E+00	2.65E-01	7.77E+00	1.11E+01	4.03E+01
4294	483363.09	3856877.25	7.18857	1.76837	7.32468	2.41555	12.19	3.143	1.2199	1.76837	5.01E+01	3.27E+00	7.63E-04	8.50E-02	3.82E+00	2.95E-01	8.64E+00	1.20E+01	5.42E+01
4295	483863.09	3856877.25	9.04963	2.11952	8.89664	2.59602	14.38	3.525	1.3489	2.11952	6.31E+01	3.91E+00	9.26E-04	9.14E-02	4.51E+00	3.31E-01	9.56E+00	1.44E+01	6.71E+01
4296	484363.09	3856877.25	9.02063	2.81027	12.34597	2.74647	17	4.765	1.3877	2.81027	6.29E+01	5.19E+00	1.29E-03	9.67E-02	5.33E+00	4.48E-01	9.83E+00	1.91E+01	6.47E+01
4297	484863.09	3856877.25	8.89165	3.97277	7.77851	2.86506	20.49	10.76	1.5395	3.97277	6.20E+01	7.34E+00	8.10E-04	1.01E-01	6.42E+00	1.01E+00	1.09E+01	2.70E+01	6.08E+01
4298	485363.09	3856877.25	8.99755	9.34241	14.78124	3.32936	26.48	6.511	2.3204	9.34241	6.27E+01	1.73E+01	1.54E-03	1.17E-01	8.30E+00	6.12E-01	1.64E+01	6.35E+01	4.19E+01
4299	485863.09	3856877.25	8.9856	5.80842	12.40415	4.03793	35.22	4.215	3.138	5.80842	6.26E+01	1.07E+01	1.29E-03	1.42E-01	1.10E+01	3.96E-01	2.22E+01	3.95E+01	6.77E+01
4300	486363.09	3856877.25	9.15442	2.007	8.53343	6.14849	55.49	3.742	5.1201	2.007	6.38E+01	3.71E+00	8.88E-04	2.16E-01	1.74E+01	3.52E-01	3.63E+01	1.36E+01	1.08E+02
4301	486863.09	3856877.25	9.67414	1.47741	6.50462	15.39664	81.46	15.28	8.3188	1.47741	6.74E+01	2.73E+00	6.77E-04	5.42E-01	2.55E+01	1.44E+00	5.89E+01	1.00E+01	1.47E+02
4302	487363.09	3856877.25	6.81603	1.44618	5.83997	9.03931	89.61	5.019	3.9051	1.44618	4.75E+01	2.67E+00	6.08E-04	3.18E-01	2.81E+01	4.72E-01	2.77E+01	9.83E+00	9.69E+01
4303	487863.09	3856877.25	5.42397	1.40284	5.50275	5.6249	93.75	3.563	2.7083	1.40284	3.78E+01	2.59E+00	5.73E-04	1.98E-01	2.94E+01	3.35E-01	1.92E+01	9.54E+00	8.00E+01
4304	488363.09	3856877.25	4.59583	1.50561	8.04615	3.84934	68.52	3.89	2.0635	1.50561	3.20E+01	2.78E+00	8.38E-04	1.35E-01	2.15E+01	3.66E-01	1.46E+01	1.02E+01	6.12E+01
4305	488863.09	3856877.25	4.03867	1.40206	6.25826	3.79151	51.36	3.272	1.7644	1.40206	2.82E+01	2.59E+00	6.52E-04	1.33E-01	1.61E+01	3.08E-01	1.25E+01	9.53E+00	5.02E+01
4306	489363.09	3856877.25	3.664	1.42957	6.82719	2.71084	39.97	2.894	1.6001	1.42957	2.55E+01	2.64E+00	7.11E-04	9.54E-02	1.25E+01	2.72E-01	1.13E+01	9.72E+00	4.27E+01
4307	489863.09	3856877.25	3.52999	1.41188	3.77639	2.50266	34.23	3.122	1.4931	1.41188	2.46E+01	2.61E+00	3.93E-04	8.81E-02	1.07E+01	2.94E-01	1.06E+01	9.60E+00	3.93E+01
4308	490363.09	3856877.25	3.50862	1.25782	5.02512	2.71272	29.1	2.761	1.3445	1.25782	2.45E+01	2.32E+00	5.23E-04	9.55E-02	9.12E+00	2.60E-01	9.53E+00	8.55E+00	3.72E+01
4309	490863.09	3856877.25	3.5191	1.01905	3.90828	3.09924	24.28	2.11	1.1162	1.01905	2.45E+01	1.88E+00	4.07E-04	1.09E-01	7.61E+00	1.98E-01	7.91E+00	6.93E+00	3.53E+01
4310	491363.09	3856877.25	3.51907	0.81261	3.17008	4.8175	20.44	1.647	0.9259	0.81261	2.45E+01	1.50E+00	3.30E-04	1.70E-01	6.41E+00	1.55E-01	6.56E+00	5.53E+00	3.38E+01
4311	491863.09	3856877.25	3.40591	0.73327	2.81186	26.52344	17.44	1.493	0.8805	0.73327	2.37E+01	1.35E+00	2.93E-04	9.34E-01	5.46E+00	1.40E-01	6.24E+00	4.99E+00	3.29E+01
4312	492363.09	3856877.25	3.21237	0.55873	1.6919	10.19789	12.65	1.188	0.8591	0.55873	2.24E+01	1.03E+00	1.76E-04	3.59E-01	3.96E+00	1.12E-01	6.09E+00	3.80E+00	3.02E+01
4313	492863.09	3856877.25	2.64325	0.54041	1.41156	2.73594	9.408	0.97	0.6917	0.54041	1.84E+01	9.98E-01	1.47E-04	9.63E-02	2.95E+00	9.12E-02	4.90E+00	3.67E+00	2.38E+01
4314	493363.09	3856877.25	1.84256	0.54437	0.90019	1.62129	6.499	0.691	0.5999	0.54437	1.28E+01	1.01E+00	9.37E-05	5.71E-02	2.04E+00	6.50E-02	4.25E+00	3.70E+00	1.66E+01
4315	493863.09	3856877.25	1.09211	0.39108	0.70519	1.22403	5.371	0.611	0.398	0.39108	7.61E+00	7.22E-01	7.34E-05	4.31E-02	1.68E+00	5.74E-02	2.82E+00	2.66E+00	1.03E+01
4316	494363.09	3856877.25	0.88397	0.27579	0.51429	0.93845	4.183	0.534	0.2852	0.27579	6.16E+00	5.09E-01	5.35E-05	3.30E-02	1.31E+00	5.02E-02	2.02E+00	1.88E+00	8.21E+00
4317	494863.09	3856877.25	0.81085	0.27068	0.53839	0.9051	3.862	0.534	0.2887	0.27068	5.65E+00	5.00E-01	5.60E-05	3.19E-02	1.21E+00	5.02E-02	2.05E+00	1.84E+00	7.65E+00
4318	495363.09	3856877.25	0.75269	0.27438	0.53851	0.88031	4.522	0.537	0.2972	0.27438	5.25E+00	5.07E-01	5.61E-05	3.10E-02	1.42E+00	5.05E-02	2.11E+00	1.87E+00	7.49E+00
4319	495863.09	3856877.25	0.74624	0.28283	0.45222	0.86062	3.547	0.524	0.3045	0.28283	5.20E+00	5.22E-01	4.71E-05	3.03E-02	1.11E+00	4.92E-02	2.16E+00	1.92E+00	7.15E+00
4320	496363.09	3856877.25	0.7844	0.28294	0.40746	0.81168	3.392	0.509	0.3021	0.28294	5.47E+00	5.23E-01	4.24E-05	2.86E-02	1.06E+00	4.78E-02	2.14E+00	1.92E+00	7.35E+00
4321	496863.09	3856877.25	0.77505	0.28035	0.44248	0.75902	3.241	0.557	0.2959	0.28035	5.40E+00	5.18E-01	4.61E-05	2.67E-02	1.02E+00	5.24E-02	2.10E+00	1.91E+00	7.21E+00
4322	497363.09	3856877.25	0.82687	0.2822	0.48132	0.74299	3.173	0.574	0.2923	0.2822	5.76E+00	5.21E-01	5.01E-05	2.62E-02	9.94E-01	5.39E-02	2.07E+00	1.92E+00	7.51E+00
4323	497863.09	3856877.25	0.97029	0.31387	0.53746	0.74796	3.196	2.032	0.3057	0.31387	6.76E+00	5.80E-01	5.60E-05	2.63E-02	1.00E+00	1.91E-01	2.17E+00	2.13E+00	8.59E+00
4324	498363.09	3856877.25	1.00687	0.33978	0.56588	0.80333	3.871	1.561	0.3421	0.33978	7.02E+00	6.28E-01	5.89E-05	2.83E-02	1.21E+00	1.47E-01	2.42E+00	2.31E+00	9.15E+00
4325	471363.09	3857377.25	1.21143	0.40819	0.75561	0.64439	1.303	0.78	0.4426	0.40819	8.45E+00	7.54E-01	7.87E-05	2.27E-02	4.08E-01	7.33E-02	3.14E+00	2.78E+00	1.01E+01
4326	471863.09	3857377.25	1.26098	0.4048	0.68829	0.64357	1.343	0.778	0.44	0.4048	8.79E+00	7.48E-01	7.17E-05	2.27E-02	4.21E-01	7.31E-02	3.12E+00	2.75E+00	1.04E+01
4327	472363.09	3857377.25	1.32057	0.41417	0.66378	0.65632	1.386	0.804	0.4476	0.41417	9.21E+00	7.65E-01	6.91E-05	2.31E-02	4.34E-01	7.56E-02	3.17E+00	2.82E+00	1.09E+01
4328	472863.09	3857377.25	1.38504	0.43628	0.67347	0.67242	1.433	0.843	0.4666	0.43628	9.66E+00	8.06E-01	7.01E-05	2.37E-02	4.49E-01	7.92E-02	3.31E+00	2.97E+00	1.14E+01

4329	473363.09	3857377.25	1.45308	0.46606	0.77005	0.7121	1.488	0.9	0.4922	0.46606	1.01E+01	8.61E-01	8.02E-05	2.51E-02	4.66E-01	8.46E-02	3.49E+00	3.17E+00	1.19E+01
4330	473863.09	3857377.25	1.52011	0.48758	0.97387	0.7701	1.545	0.973	0.5081	0.48758	1.06E+01	9.01E-01	1.01E-04	2.71E-02	4.84E-01	9.15E-02	3.60E+00	3.32E+00	1.24E+01
4331	474363.09	3857377.25	1.56262	0.44574	0.8442	0.70769	1.615	0.829	0.4741	0.44574	1.09E+01	8.23E-01	8.79E-05	2.49E-02	5.06E-01	7.79E-02	3.36E+00	3.03E+00	1.27E+01
4332	474863.09	3857377.25	1.39318	0.39602	0.61392	0.62176	1.67	0.64	0.4356	0.39602	9.71E+00	7.31E-01	6.39E-05	2.19E-02	5.23E-01	6.01E-02	3.09E+00	2.69E+00	1.14E+01
4333	475363.09	3857377.25	0.93812	0.39955	0.54867	0.51129	1.684	0.523	0.4084	0.39955	6.54E+00	7.38E-01	5.71E-05	1.80E-02	5.28E-01	4.92E-02	2.89E+00	2.72E+00	8.05E+00
4334	475863.09	3857377.25	0.81776	0.43286	0.58377	0.49659	1.742	0.527	0.4351	0.43286	5.70E+00	7.99E-01	6.08E-05	1.75E-02	5.46E-01	4.95E-02	3.08E+00	2.94E+00	7.25E+00
4335	476363.09	3857377.25	1.11951	0.5071	0.78827	0.56445	1.854	0.623	0.5311	0.5071	7.80E+00	9.37E-01	8.21E-05	1.99E-02	5.81E-01	5.86E-02	3.76E+00	3.45E+00	9.72E+00
4336	476863.09	3857377.25	1.17378	0.55641	0.92165	0.54464	1.938	0.626	0.5657	0.55641	8.18E+00	1.03E+00	9.59E-05	1.92E-02	6.07E-01	5.88E-02	4.01E+00	3.78E+00	1.01E+01
4337	477363.09	3857377.25	1.11747	0.55722	0.75769	0.50961	1.986	0.577	0.5709	0.55722	7.79E+00	1.03E+00	7.89E-05	1.79E-02	6.22E-01	5.43E-02	4.04E+00	3.79E+00	9.77E+00
4338	477863.09	3857377.25	0.87926	0.58149	0.63215	0.45807	2.016	0.594	0.5837	0.58149	6.13E+00	1.07E+00	6.58E-05	1.61E-02	6.32E-01	5.58E-02	4.14E+00	3.95E+00	8.09E+00
4339	478363.09	3857377.25	0.80587	0.585	0.54763	0.45212	1.818	0.648	0.5772	0.585	5.62E+00	1.08E+00	5.70E-05	1.59E-02	5.70E-01	6.09E-02	4.09E+00	3.98E+00	7.46E+00
4340	478863.09	3857377.25	0.80858	0.57708	0.52998	0.45167	1.688	0.629	0.5721	0.57708	5.64E+00	1.07E+00	5.52E-05	1.59E-02	5.29E-01	5.91E-02	4.05E+00	3.92E+00	7.44E+00
4341	479363.09	3857377.25	0.95922	0.65002	0.68661	0.54563	2.265	0.778	0.6435	0.65002	6.69E+00	1.20E+00	7.15E-05	1.92E-02	7.10E-01	7.31E-02	4.56E+00	4.42E+00	8.83E+00
4342	479863.09	3857377.25	2.24826	0.7815	0.95593	0.73302	2.7	0.915	0.7862	0.7815	1.57E+01	1.44E+00	9.95E-05	2.58E-02	8.46E-01	8.60E-02	5.57E+00	5.31E+00	1.83E+01
4343	480363.09	3857377.25	1.87275	0.7473	1.02454	0.72955	2.744	0.957	0.7435	0.7473	1.31E+01	1.38E+00	1.07E-04	2.57E-02	8.60E-01	9.00E-02	5.27E+00	5.08E+00	1.56E+01
4344	480863.09	3857377.25	3.34814	1.1568	4.34437	1.98717	4.477	2.202	1.1242	1.1568	2.33E+01	2.14E+00	4.52E-04	6.99E-02	1.40E+00	2.07E-01	7.97E+00	7.87E+00	2.73E+01
4345	481363.09	3857377.25	3.67131	1.21612	3.80517	2.22248	5.056	2.484	1.1309	1.21612	2.56E+01	2.25E+00	3.96E-04	7.82E-02	1.58E+00	2.34E-01	8.01E+00	8.27E+00	2.95E+01
4346	481863.09	3857377.25	3.73359	1.32434	5.21429	2.55643	5.866	3.062	1.1746	1.32434	2.60E+01	2.45E+00	5.43E-04	9.00E-02	1.84E+00	2.88E-01	8.32E+00	9.01E+00	3.00E+01
4347	482363.09	3857377.25	3.65122	1.54775	5.27633	2.43732	6.451	3.981	1.1769	1.54775	2.55E+01	2.86E+00	5.49E-04	8.58E-02	2.02E+00	3.74E-01	8.34E+00	1.05E+01	2.86E+01
4348	482863.09	3857377.25	3.99945	1.57219	7.22831	2.43717	7.478	4.283	1.1347	1.57219	2.79E+01	2.90E+00	7.53E-04	8.58E-02	2.34E+00	4.03E-01	8.04E+00	1.07E+01	3.10E+01
4349	483363.09	3857377.25	4.47663	1.65661	6.48773	2.45404	8.98	4.441	1.1692	1.65661	3.12E+01	3.06E+00	6.75E-04	8.64E-02	2.81E+00	4.17E-01	8.28E+00	1.13E+01	3.46E+01
4350	483863.09	3857377.25	5.23527	1.90882	10.20903	2.51302	11	4.432	1.2549	1.90882	3.65E+01	3.53E+00	1.06E-03	8.84E-02	3.45E+00	4.17E-01	8.89E+00	1.30E+01	3.99E+01
4351	484363.09	3857377.25	6.56721	2.10079	7.54859	2.6121	13.51	4.576	1.3263	2.10079	4.58E+01	3.88E+00	7.86E-04	9.19E-02	4.23E+00	4.30E-01	9.40E+00	1.43E+01	4.95E+01
4352	484863.09	3857377.25	7.08629	2.74072	6.2863	2.87096	16.68	5.367	1.5801	2.74072	4.94E+01	5.06E+00	6.54E-04	1.01E-01	5.23E+00	5.04E-01	1.12E+01	1.86E+01	5.29E+01
4353	485363.09	3857377.25	8.86582	3.75981	6.74533	3.26656	20.71	9.546	1.6462	3.75981	6.18E+01	6.94E+00	7.02E-04	1.15E-01	6.49E+00	8.97E-01	1.17E+01	2.56E+01	6.24E+01
4354	485863.09	3857377.25	8.86279	6.06594	8.99618	3.67831	26.07	9.482	2.1494	6.06594	6.18E+01	1.12E+01	9.37E-04	1.29E-01	8.17E+00	8.91E-01	1.52E+01	4.12E+01	5.62E+01
4355	486363.09	3857377.25	8.9965	8.10753	10.89342	4.97585	37.3	4.493	3.0344	8.10753	6.27E+01	1.50E+01	1.13E-03	1.75E-01	1.17E+01	4.22E-01	2.15E+01	5.51E+01	5.63E+01
4356	486863.09	3857377.25	9.2284	2.99543	10.42726	6.42708	62.94	3.69	5.0694	2.99543	6.43E+01	5.53E+00	1.09E-03	2.26E-01	1.97E+01	3.47E-01	3.59E+01	2.04E+01	1.06E+02
4357	487363.09	3857377.25	9.48559	2.0492	6.73656	13.69975	89.51	9.009	8.7281	2.0492	6.61E+01	3.78E+00	7.01E-04	4.82E-01	2.80E+01	8.47E-01	6.18E+01	1.39E+01	1.47E+02
4358	487863.09	3857377.25	6.85691	1.85772	8.88949	9.57444	90.96	6.038	3.6704	1.85772	4.78E+01	3.43E+00	9.25E-04	3.37E-01	2.85E+01	5.68E-01	2.60E+01	1.26E+01	9.40E+01
4359	488363.09	3857377.25	5.23853	1.68519	9.31424	5.78342	95.9	4.719	2.644	1.68519	3.65E+01	3.11E+00	9.70E-04	2.04E-01	3.00E+01	4.44E-01	1.87E+01	1.15E+01	7.76E+01
4360	488863.09	3857377.25	4.7042	1.58964	7.50714	5.28496	62.96	5.126	2.1321	1.58964	3.28E+01	2.94E+00	7.82E-04	1.86E-01	1.97E+01	4.82E-01	1.51E+01	1.08E+01	6.04E+01
4361	489363.09	3857377.25	4.20411	1.35788	9.00305	3.53885	43.95	4.867	1.7031	1.35788	2.93E+01	2.51E+00	9.37E-04	1.25E-01	1.38E+01	4.58E-01	1.21E+01	9.23E+00	4.90E+01
4362	489863.09	3857377.25	3.99448	1.28136	6.88891	4.67942	36.46	3.49	1.5316	1.28136	2.78E+01	2.37E+00	7.17E-04	1.65E-01	1.14E+01	3.28E-01	1.09E+01	8.71E+00	4.43E+01
4363	490363.09	3857377.25	3.98179	1.32006	6.14304	4.06451	30.9	2.871	1.4567	1.32006	2.78E+01	2.44E+00	6.40E-04	1.43E-01	9.68E+00	2.70E-01	1.03E+01	8.98E+00	4.16E+01
4364	490863.09	3857377.25	3.74491	1.29307	5.05014	4.82548	26.13	2.457	1.3401	1.29307	2.61E+01	2.39E+00	5.26E-04	1.70E-01	8.19E+00	2.31E-01	9.49E+00	8.79E+00	3.78E+01
4365	491363.09	3857377.25	3.35559	1.12348	4.23177	9.56729	22.19	2.298	1.1895	1.12348	2.34E+01	2.07E+00	4.41E-04	3.37E-01	6.95E+00	2.16E-01	8.43E+00	7.64E+00	3.38E+01
4366	491863.09	3857377.25	3.25755	0.89266	3.31663	9.90119	19.61	1.778	1.0467	0.89266	2.27E+01	1.65E+00	3.45E-04	3.48E-01	6.15E+00	1.67E-01	7.42E+00	6.07E+00	3.24E+01
4367	492363.09	3857377.25	3.24433	0.61385	1.67409	2.96748	11.85	1.207	0.7568	0.61385	2.26E+01	1.13E+00	1.74E-04	1.04E-01	3.71E+00	1.13E-01	5.36E+00	4.17E+00	2.89E+01
4368	492863.09	3857377.25	2.29405	0.49372	1.20524	1.45467	5.091	0.843	0.5163	0.49372	1.60E+01	9.12E-01	1.25E-04	5.12E-02	1.60E+00	7.93E-02	3.66E+00	3.36E+00	1.89E+01
4369	493363.09	3857377.25	1.33372	0.4413	0.86605	1.07935	4.08	0.735	0.4262	0.4413	9.30E+00	8.15E-01	9.02E-05	3.80E-02	1.28E+00	6.91E-02	3.02E+00	3.00E+00	1.15E+01
4370	493863.09	3857377.25	1.10239	0.40713	0.89102	1.06061	3.478	0.803	0.3922	0.40713	7.69E+00	7.52E-01	9.28E-05	3.73E-02	1.09E+00	7.54E-02	2.78E+00	2.77E+00	9.65E+00
4371	494363.09	3857377.25	0.97196	0.34109	0.86182	0.95485	2.753	0.818	0.3256	0.34109	6.78E+00	6.30E-01	8.97E-05	3.36E-02	8.62E-01	7.69E-02	2.31E+00	2.32E+00	8.37E+00
4372	494863.09	3857377.25	0.89341	0.301	0.77656	0.82803	2.602	0.777	0.2958	0.301	6.23E+00	5.56E-01	8.08E-05	2.91E-02	8.15E-01	7.30E-02	2.10E+00	2.05E+00	7.75E+00
4373	495363.09	3857377.25	0.87856	0.27813	0.73679	0.75464	2.466	0.638	0.2768	0.27813	6.13E+00	5.14E-01	7.67E-05	2.66E-02	7.73E-01	6.00E-02	1.96E+00	1.89E+00	7.57E+00
4374	495863.09	3857377.25	0.86388	0.29761	0.75431	0.73624	2.343	0.67	0.2887	0.29761	6.02E+00	5.50E-01	7.85E-05	2.59E-02	7.34E-01	6.29E-02	2.05E+00	2.02E+00	7.42E+00
4375	496363.09	3857377.25	0.84907	0.33334	0.76446	0.73546	2.231	0.705	0.3199	0.33334	5.92E+00	6.16E-01	7.96E-05	2.59E-02	6.99E-01	6.63E-02	2.27E+00	2.27E+00	7.33E+00
4376	496863.09	3857377.25	0.90055	0.34784	0.74982	0.7423	2.129	0.66	0.3391	0.34784	6.28E+00	6.42E-01	7.81E-05	2.61E-02	6.67E-01	6.20E-02	2.40E+00	2.37E+00	7.71E+00
4377	497363.09	3857377.25	0.99487	0.34949	0.72104	0.75403	2.036	1.921	0.3449	0.34949	6.94E+00	6.45E-01	7.51E-05	2.65E-02	6.38E-01	1.81E-01	2.44E+00	2.38E+00	8.49E+00
4378	497863.09	3857377.25	1.07874	0.36828	0.68673	0.80157	2.44	3.384	0.3518	0.36828	7.52E+00	6.80E-01	7.15E-05	2.82E-02	7.64E-01	3.18E-01	2.49E+00	2.50E+00	9.30E+00
4379	498363.09	3857377.25	1.18544	0.41626	0.75934	0.94936	2.656	2.968	0.4301	0.41626	8.26E+00	7.69E-01	7.91E-05	3.34E-02	8.32E-01	2.79E-01	3.05E+00	2.83E+00	1.04E+01
4380	471363.09	3857877.25	1.21079	0.39029	0.69332	0.63437	1.404	0.734	0.441	0.39029	8.44E+00	7.21E-01	7.22E-05	2.23E-02	4.40E-01	6.90E-02	3.12E+00	2.65E+00	1.02E+01
4381	471863.09	3857877.25	1.25597	0.38716	0.7396	0.64592	1.473	0.73	0.438	0.38716	8.76E+00	7.15E-01	7.70E-05	2.27E-02	4.62E-01	6.87E-02	3.10E+00	2.63E+00	1.05E+01
4382	472363.09	3857877.25	1.30511	0.39065	0.78264	0.66443	1.559	0.754	0.4425	0.39065	9.10E+00	7.22E-01	8.15E-05	2.34E-02	4.89E-01	7.09E-02	3.14E+00	2.66E+00	1.09E+01
4383	472863.09	3857877.25	1.35962	0.40796	0.817	0.69169	1.675	0.804	0.4571	0.40796	9.48E+00	7.53E-01	8.51E-05	2.43E-02	5.25E-01	7.55E-02	3.24E+00	2.77E+00	1.13E+01
4384	473363.09	3857877.25	1.41097	0.42501	0.78941	0.70978	1.786	0.828	0.4702	0.42501	9.84E+00	7.85E-01	8.22E-05	2.50E-02	5.60E-01	7.78E-02	3.33E+00	2.89E+00	1.17E+01
4385	473863.09	3857877.25	1.46301	0.44154	0.86749	0.73418	1.926	0.873	0.4759	0.44154	1.02E+01	8.15E-01	9.03E-05	2.58E-02	6.03E-01	8.20E-02	3.37E+00	3.00E+00	1.21E+01

4386	474363.09	3857877.25	1.49374	0.40229	0.89027	0.69592	1.963	0.773	0.4355	0.40229	1.04E+01	7.43E-01	9.27E-05	2.45E-02	6.15E-01	7.27E-02	3.09E+00	2.74E+00	1.22E+01
4387	474863.09	3857877.25	1.27677	0.358	0.78808	0.56478	1.831	0.634	0.3843	0.358	8.90E+00	6.61E-01	8.20E-05	1.99E-02	5.74E-01	5.96E-02	2.72E+00	2.43E+00	1.05E+01
4388	475363.09	3857877.25	0.81809	0.25336	0.556	0.44565	1.63	0.468	0.2546	0.25336	5.70E+00	4.68E-01	5.79E-05	1.57E-02	5.11E-01	4.40E-02	1.80E+00	1.72E+00	6.82E+00
4389	475863.09	3857877.25	0.63183	0.23092	0.31869	0.3255	1.113	0.36	0.2323	0.23092	4.40E+00	4.26E-01	3.32E-05	1.15E-02	3.49E-01	3.39E-02	1.65E+00	1.57E+00	5.30E+00
4390	476363.09	3857877.25	0.86128	0.2872	0.55836	0.46692	1.719	0.485	0.2982	0.2872	6.00E+00	5.30E-01	5.81E-05	1.64E-02	5.39E-01	4.56E-02	2.11E+00	1.95E+00	7.30E+00
4391	476863.09	3857877.25	1.09336	0.34448	0.62912	0.51711	1.901	0.528	0.3586	0.34448	7.62E+00	6.36E-01	6.55E-05	1.82E-02	5.96E-01	4.96E-02	2.54E+00	2.34E+00	9.12E+00
4392	477363.09	3857877.25	1.08214	0.39301	0.73289	0.52136	1.907	0.545	0.4072	0.39301	7.54E+00	7.26E-01	7.63E-05	1.83E-02	5.97E-01	5.12E-02	2.89E+00	2.67E+00	9.15E+00
4393	477863.09	3857877.25	0.92224	0.44221	0.74552	0.49141	1.9	0.542	0.4518	0.44221	6.43E+00	8.17E-01	7.76E-05	1.73E-02	5.95E-01	5.10E-02	3.20E+00	3.01E+00	8.10E+00
4394	478363.09	3857877.25	0.70842	0.47783	0.51032	0.43465	1.445	0.509	0.4745	0.47783	4.94E+00	8.83E-01	5.31E-05	1.53E-02	4.53E-01	4.78E-02	3.36E+00	3.25E+00	6.45E+00
4395	478863.09	3857877.25	0.72411	0.51439	0.40274	0.35743	1.301	0.45	0.5135	0.51439	5.05E+00	9.50E-01	4.19E-05	1.26E-02	4.08E-01	4.23E-02	3.64E+00	3.50E+00	6.60E+00
4396	479363.09	3857877.25	2.08827	0.71712	1.24689	0.69077	3.402	0.709	0.7488	0.71712	1.46E+01	1.32E+00	1.30E-04	2.43E-02	1.07E+00	6.66E-02	5.31E+00	4.88E+00	1.75E+01
4397	479863.09	3857877.25	2.77666	0.82255	2.3018	1.13458	5.9	1.025	0.8345	0.82255	1.94E+01	1.52E+00	2.40E-04	3.99E-02	1.85E+00	9.64E-02	5.91E+00	5.59E+00	2.32E+01
4398	480363.09	3857877.25	2.83742	0.97275	3.10298	1.2992	6.707	1.344	0.9791	0.97275	1.98E+01	1.80E+00	3.23E-04	4.57E-02	2.10E+00	1.26E-01	6.94E+00	6.61E+00	2.42E+01
4399	480863.09	3857877.25	2.93775	1.02776	2.39531	1.36765	7.599	1.501	1.0253	1.02776	2.05E+01	1.90E+00	2.49E-04	4.81E-02	2.38E+00	1.41E-01	7.26E+00	6.99E+00	2.52E+01
4400	481363.09	3857877.25	3.1126	1.07501	3.81849	1.45385	8.664	1.735	1.0845	1.07501	2.17E+01	1.99E+00	3.98E-04	5.12E-02	2.71E+00	1.63E-01	7.68E+00	7.31E+00	2.70E+01
4401	481863.09	3857877.25	3.31113	1.19026	4.12845	1.63104	10.3	2.131	1.18	1.19026	2.31E+01	2.20E+00	4.30E-04	5.74E-02	3.23E+00	2.00E-01	8.36E+00	8.09E+00	2.90E+01
4402	482363.09	3857877.25	3.33464	1.39506	5.83443	1.98282	11.4	2.953	1.3343	1.39506	2.32E+01	2.58E+00	6.07E-04	6.98E-02	3.57E+00	2.78E-01	9.45E+00	9.49E+00	2.97E+01
4403	482863.09	3857877.25	3.24637	1.4257	6.13887	2.17499	11.86	3.567	1.3447	1.4257	2.26E+01	2.63E+00	6.39E-04	7.66E-02	3.72E+00	3.35E-01	9.53E+00	9.69E+00	2.92E+01
4404	483363.09	3857877.25	3.29587	1.50013	6.08921	2.43998	12.93	4.046	1.3436	1.50013	2.30E+01	2.77E+00	6.34E-04	8.59E-02	4.05E+00	3.80E-01	9.52E+00	1.02E+01	2.96E+01
4405	483863.09	3857877.25	3.35555	1.68925	5.60139	2.63686	14.2	4.657	1.3282	1.68925	2.34E+01	3.12E+00	5.83E-04	9.28E-02	4.45E+00	4.38E-01	9.41E+00	1.15E+01	2.94E+01
4406	484363.09	3857877.25	4.19765	1.78518	6.7464	2.75012	16.38	5.539	1.366	1.78518	2.93E+01	3.30E+00	7.02E-04	9.68E-02	5.13E+00	5.21E-01	9.68E+00	1.21E+01	3.59E+01
4407	484863.09	3857877.25	5.10609	2.1824	4.80724	2.8698	18.49	6.794	1.4515	2.1824	3.56E+01	4.03E+00	5.00E-04	1.01E-01	5.79E+00	6.39E-01	1.03E+01	1.48E+01	4.16E+01
4408	485363.09	3857877.25	6.21654	2.58397	5.95021	3.18046	20.5	8.64	1.6011	2.58397	4.33E+01	4.77E+00	6.19E-04	1.12E-01	6.42E+00	8.12E-01	1.13E+01	1.76E+01	4.92E+01
4409	485863.09	3857877.25	8.19583	3.45087	8.00027	3.65538	22.69	13.9	1.8066	3.45087	5.71E+01	6.37E+00	8.33E-04	1.29E-01	7.11E+00	1.31E+00	1.28E+01	2.35E+01	6.14E+01
4410	486363.09	3857877.25	8.93842	4.84909	9.49572	4.23085	27.19	14.29	2.1009	4.84909	6.23E+01	8.96E+00	9.89E-04	1.49E-01	8.52E+00	1.34E+00	1.49E+01	3.30E+01	6.32E+01
4411	486863.09	3857877.25	8.9657	14.24033	20.59736	5.10287	36.51	8.157	2.7828	14.24033	6.25E+01	2.63E+01	2.14E-03	1.80E-01	1.14E+01	7.67E-01	1.97E+01	9.68E+01	2.41E+01
4412	487363.09	3857877.25	8.95421	5.50184	19.86584	7.44792	42.39	5.783	5.2355	5.50184	6.24E+01	1.02E+01	2.07E-03	2.62E-01	1.33E+01	5.44E-01	3.71E+01	3.74E+01	8.64E+01
4413	487863.09	3857877.25	9.01344	3.20868	28.9035	13.44524	54.24	11.07	9.3212	3.20868	6.28E+01	5.93E+00	3.01E-03	4.73E-01	1.70E+01	1.04E+00	6.60E+01	2.18E+01	1.32E+02
4414	488363.09	3857877.25	7.10615	2.39526	17.56801	10.86942	71.95	10.01	3.5289	2.39526	4.95E+01	4.42E+00	1.83E-03	3.83E-01	2.25E+01	9.41E-01	2.50E+01	1.63E+01	8.66E+01
4415	488863.09	3857877.25	5.54433	1.97718	12.37386	7.18814	54.45	6.889	2.6439	1.97718	3.87E+01	3.65E+00	1.29E-03	2.53E-01	1.71E+01	6.48E-01	1.87E+01	1.34E+01	6.56E+01
4416	489363.09	3857877.25	5.38042	1.83616	9.51928	5.56753	36.34	5.172	2.2167	1.83616	3.75E+01	3.39E+00	9.91E-04	1.96E-01	1.14E+01	4.86E-01	1.57E+01	1.25E+01	5.62E+01
4417	489863.09	3857877.25	4.57149	1.4061	6.96643	6.32646	37.79	4.111	1.7587	1.4061	3.19E+01	2.60E+00	7.25E-04	2.23E-01	1.18E+01	3.86E-01	1.25E+01	9.56E+00	4.98E+01
4418	490363.09	3857877.25	4.29719	1.27096	5.37187	8.43325	34.22	3.573	1.4912	1.27096	3.00E+01	2.35E+00	5.59E-04	2.97E-01	1.07E+01	3.36E-01	1.06E+01	8.64E+00	4.56E+01
4419	490863.09	3857877.25	3.73294	1.23294	4.49768	9.03346	26.6	3.093	1.4157	1.23294	2.60E+01	2.28E+00	4.68E-04	3.18E-01	8.33E+00	2.91E-01	1.00E+01	8.38E+00	3.89E+01
4420	491363.09	3857877.25	3.60758	1.2474	4.62207	19.99745	21.3	2.256	1.4122	1.2474	2.52E+01	2.30E+00	4.81E-04	7.04E-01	6.67E+00	2.12E-01	1.00E+01	8.48E+00	3.66E+01
4421	491863.09	3857877.25	3.55149	1.26784	3.25115	5.49883	18.05	1.782	1.3889	1.26784	2.48E+01	2.34E+00	3.38E-04	1.94E-01	5.65E+00	1.67E-01	9.84E+00	8.62E+00	3.43E+01
4422	492363.09	3857877.25	3.04068	1.0678	1.89111	2.36025	8.352	1.222	1.1228	1.0678	2.12E+01	1.97E+00	1.97E-04	8.31E-02	2.62E+00	1.15E-01	7.96E+00	7.26E+00	2.67E+01
4423	492863.09	3857877.25	2.00915	0.56032	1.3035	1.5046	4.643	0.993	0.6408	0.56032	1.40E+01	1.03E+00	1.36E-04	5.30E-02	1.45E+00	9.33E-02	4.54E+00	3.81E+00	1.74E+01
4424	493363.09	3857877.25	1.40207	0.48596	1.14956	1.27702	3.879	0.984	0.4538	0.48596	9.77E+00	8.98E-01	1.20E-04	4.49E-02	1.22E+00	9.25E-02	3.22E+00	3.30E+00	1.19E+01
4425	493863.09	3857877.25	1.37083	0.46053	1.03352	1.21922	3.767	0.945	0.4365	0.46053	9.56E+00	8.51E-01	1.08E-04	4.29E-02	1.18E+00	8.88E-02	3.09E+00	3.13E+00	1.17E+01
4426	494363.09	3857877.25	1.34207	0.43529	0.91428	1.15735	3.084	0.983	0.4112	0.43529	9.36E+00	8.04E-01	9.52E-05	4.07E-02	9.66E-01	9.24E-02	2.91E+00	2.96E+00	1.12E+01
4427	494863.09	3857877.25	1.11071	0.39119	0.90065	1.09941	2.637	1.031	0.367	0.39119	7.74E+00	7.22E-01	9.38E-05	3.87E-02	8.26E-01	9.69E-02	2.60E+00	2.66E+00	9.37E+00
4428	495363.09	3857877.25	1.07975	0.36605	0.88854	1.08864	2.119	1.143	0.3436	0.36605	7.53E+00	6.76E-01	9.25E-05	3.83E-02	6.64E-01	1.07E-01	2.43E+00	2.49E+00	8.96E+00
4429	495863.09	3857877.25	1.03034	0.34196	0.82427	1.06548	1.999	1.366	0.3193	0.34196	7.18E+00	6.32E-01	8.58E-05	3.75E-02	6.26E-01	1.28E-01	2.26E+00	2.33E+00	8.54E+00
4430	496363.09	3857877.25	1.10866	0.34008	0.78733	1.03702	2.149	2.72	0.3189	0.34008	7.73E+00	6.28E-01	8.20E-05	3.65E-02	6.73E-01	2.56E-01	2.26E+00	2.31E+00	9.27E+00
4431	496863.09	3857877.25	1.1077	0.38625	0.75109	1.00319	2.021	9.858	0.3655	0.38625	7.72E+00	7.13E-01	7.82E-05	3.53E-02	6.33E-01	9.27E-01	2.59E+00	2.63E+00	9.99E+00
4432	497363.09	3857877.25	1.10586	0.41522	0.69676	0.98618	1.901	12.14	0.4078	0.41522	7.71E+00	7.67E-01	7.25E-05	3.47E-02	5.96E-01	1.14E+00	2.89E+00	2.82E+00	1.03E+01
4433	497863.09	3857877.25	1.20307	0.49101	0.73208	1.08364	2.729	2.85	0.4995	0.49101	8.39E+00	9.07E-01	7.62E-05	3.81E-02	8.55E-01	2.68E-01	3.54E+00	3.34E+00	1.07E+01
4434	498363.09	3857877.25	1.77242	0.47342	0.78961	1.156	2.956	2.212	0.5313	0.47342	1.24E+01	8.74E-01	8.22E-05	4.07E-02	9.26E-01	2.08E-01	3.76E+00	3.22E+00	1.50E+01
4435	471363.09	3858377.25	1.18127	0.42275	0.64369	0.59156	2.38	0.7	0.4616	0.42275	8.24E+00	7.81E-01	6.70E-05	2.08E-02	7.46E-01	6.58E-02	3.27E+00	2.87E+00	1.02E+01
4436	471863.09	3858377.25	1.22445	0.41441	0.67425	0.60057	2.539	0.707	0.4557	0.41441	8.54E+00	7.65E-01	7.02E-05	2.11E-02	7.96E-01	6.65E-02	3.23E+00	2.82E+00	1.06E+01
4437	472363.09	3858377.25	1.27042	0.4077	0.74658	0.6083	2.695	0.713	0.4491	0.4077	8.86E+00	7.53E-01	7.77E-05	2.14E-02	8.45E-01	6.70E-02	3.18E+00	2.77E+00	1.10E+01
4438	472863.09	3858377.25	1.33625	0.41899	0.89222	0.61761	2.881	0.738	0.458	0.41899	9.32E+00	7.74E-01	9.29E-05	2.17E-02	9.03E-01	6.94E-02	3.25E+00	2.85E+00	1.15E+01
4439	473363.09	3858377.25	1.41778	0.4562	1.06268	0.62876	3.174	0.805	0.4848	0.4562	9.88E+00	8.43E-01	1.11E-04	2.21E-02	9.94E-01	7.57E-02	3.43E+00	3.10E+00	1.22E+01
4440	473863.09	3858377.25	1.47579	0.42441	0.96031	0.63593	3.357	0.784	0.4586	0.42441	1.03E+01	7.84E-01	1.00E-04	2.24E-02	1.05E+00	7.37E-02	3.25E+00	2.89E+00	1.26E+01
4441	474363.09	3858377.25	1.49265	0.3565	0.77289	0.62185	3.216	0.682	0.4096	0.3565	1.04E+01	6.58E-01	8.05E-05	2.19E-02	1.01E+00	6.41E-02	2.90E+00	2.42E+00	1.26E+01
4442	474863.09	3858377.25	1.37056	0.33679	0.62323	0.57969	2.606	0.615	0.3718	0.33679	9.56E+00	6.22E-01	6.49E-05	2.04E-02	8.16E-01	5.78E-02	2.63E+00	2.29E+00	1.14E+01

4443	475363.09	3858377.25	1.08863	0.26579	0.57766	0.51023	1.747	0.516	0.2786	0.26579	7.59E+00	4.91E-01	6.01E-05	1.80E-02	5.47E-01	4.85E-02	1.97E+00	1.81E+00	8.86E+00
4444	475863.09	3858377.25	0.86419	0.2395	0.54176	0.46168	1.463	0.475	0.2436	0.2395	6.02E+00	4.42E-01	5.64E-05	1.62E-02	4.58E-01	4.46E-02	1.73E+00	1.63E+00	7.08E+00
4445	476363.09	3858377.25	0.88496	0.24298	0.54028	0.47465	1.518	0.483	0.2488	0.24298	6.17E+00	4.49E-01	5.62E-05	1.67E-02	4.76E-01	4.54E-02	1.76E+00	1.65E+00	7.27E+00
4446	476863.09	3858377.25	0.90012	0.24567	0.52186	0.48188	1.585	0.494	0.2523	0.24567	6.28E+00	4.54E-01	5.43E-05	1.70E-02	4.97E-01	4.64E-02	1.79E+00	1.67E+00	7.41E+00
4447	477363.09	3858377.25	0.91393	0.25558	0.53759	0.48462	1.653	0.499	0.2582	0.25558	6.37E+00	4.72E-01	5.60E-05	1.71E-02	5.18E-01	4.69E-02	1.83E+00	1.74E+00	7.52E+00
4448	477863.09	3858377.25	1.12711	0.26943	0.71697	0.53921	1.726	0.55	0.2751	0.26943	7.86E+00	4.98E-01	7.46E-05	1.90E-02	5.41E-01	5.17E-02	1.95E+00	1.83E+00	9.08E+00
4449	478363.09	3858377.25	1.13655	0.30254	0.77521	0.5486	1.83	0.569	0.3011	0.30254	7.92E+00	5.59E-01	8.07E-05	1.93E-02	5.73E-01	5.35E-02	2.13E+00	2.06E+00	9.20E+00
4450	478863.09	3858377.25	0.9279	0.33858	0.62995	0.50214	1.434	0.552	0.337	0.33858	6.47E+00	6.25E-01	6.56E-05	1.77E-02	4.49E-01	5.19E-02	2.39E+00	2.30E+00	7.70E+00
4451	479363.09	3858377.25	1.93917	0.50193	1.05042	0.69705	3.551	0.709	0.5325	0.50193	1.35E+01	9.27E-01	1.09E-04	2.45E-02	1.11E+00	6.66E-02	3.77E+00	3.41E+00	1.60E+01
4452	479863.09	3858377.25	2.39611	0.6651	2.3361	1.08397	7.69	1.262	0.7163	0.6651	1.67E+01	1.23E+00	2.43E-04	3.82E-02	2.41E+00	1.19E-01	5.08E+00	4.52E+00	2.11E+01
4453	480363.09	3858377.25	2.46484	0.91703	2.11508	1.27225	8.922	1.545	0.9133	0.91703	1.72E+01	1.69E+00	2.20E-04	4.48E-02	2.80E+00	1.45E-01	6.47E+00	6.24E+00	2.21E+01
4454	480863.09	3858377.25	2.67788	1.07698	2.94686	1.35689	9.97	1.616	1.05	1.07698	1.87E+01	1.99E+00	3.07E-04	4.78E-02	3.12E+00	1.52E-01	7.44E+00	7.32E+00	2.41E+01
4455	481363.09	3858377.25	2.85704	1.20999	3.97892	1.45362	10.72	1.653	1.1798	1.20999	1.99E+01	2.23E+00	4.14E-04	5.12E-02	3.36E+00	1.55E-01	8.36E+00	8.23E+00	2.59E+01
4456	481863.09	3858377.25	3.07848	1.17131	3.90947	1.51907	11.42	1.635	1.178	1.17131	2.15E+01	2.16E+00	4.07E-04	5.35E-02	3.58E+00	1.54E-01	8.35E+00	7.96E+00	2.78E+01
4457	482363.09	3858377.25	3.19777	1.35535	4.36448	1.63206	11.81	1.869	1.2898	1.35535	2.23E+01	2.50E+00	4.54E-04	5.74E-02	3.70E+00	1.76E-01	9.14E+00	9.22E+00	2.87E+01
4458	482863.09	3858377.25	2.94933	1.42438	4.87755	1.77765	12.44	2.399	1.3519	1.42438	2.06E+01	2.63E+00	5.08E-04	6.26E-02	3.90E+00	2.25E-01	9.58E+00	9.69E+00	2.73E+01
4459	483363.09	3858377.25	2.86142	1.50321	5.97261	1.77596	12.36	2.934	1.4568	1.50321	1.99E+01	2.78E+00	6.22E-04	6.25E-02	3.87E+00	2.76E-01	1.03E+01	1.02E+01	2.70E+01
4460	483863.09	3858377.25	3.07239	1.49678	5.46574	1.99407	12.75	3.328	1.4025	1.49678	2.14E+01	2.76E+00	5.69E-04	7.02E-02	4.00E+00	3.13E-01	9.94E+00	1.02E+01	2.83E+01
4461	484363.09	3858377.25	3.20872	1.56482	6.08512	2.30836	14.5	3.968	1.4055	1.56482	2.24E+01	2.89E+00	6.33E-04	8.12E-02	4.54E+00	3.73E-01	9.96E+00	1.06E+01	2.96E+01
4462	484863.09	3858377.25	4.25135	1.75645	6.31413	2.66766	15.95	4.836	1.5015	1.75645	2.96E+01	3.24E+00	6.57E-04	9.39E-02	5.00E+00	4.55E-01	1.06E+01	1.19E+01	3.71E+01
4463	485363.09	3858377.25	5.12258	2.12731	8.74399	3.01029	17.33	6.158	1.6569	2.12731	3.57E+01	3.93E+00	9.10E-04	1.06E-01	5.43E+00	5.79E-01	1.17E+01	1.45E+01	4.30E+01
4464	485863.09	3858377.25	6.12329	2.34032	10.73591	3.30507	19.48	8.619	1.8222	2.34032	4.27E+01	4.32E+00	1.12E-03	1.16E-01	6.10E+00	8.10E-01	1.29E+01	1.59E+01	5.10E+01
4465	486363.09	3858377.25	8.59409	2.9627	15.48916	3.49759	25.15	17.31	1.8759	2.9627	5.99E+01	5.47E+00	1.61E-03	1.23E-01	7.88E+00	1.63E+00	1.33E+01	2.01E+01	6.82E+01
4466	486863.09	3858377.25	8.8711	3.74081	11.48568	3.79471	25.89	17.95	2.229	3.74081	6.18E+01	6.91E+00	1.20E-03	1.34E-01	8.11E+00	1.69E+00	1.58E+01	2.54E+01	6.90E+01
4467	487363.09	3858377.25	8.83775	5.2244	11.51788	4.68258	22.58	15.17	2.8028	5.2244	6.16E+01	9.65E+00	1.20E-03	1.65E-01	7.08E+00	1.43E+00	1.99E+01	3.55E+01	6.43E+01
4468	487863.09	3858377.25	9.14675	21.8524	19.19557	6.65579	26.48	11.56	4.724	21.8524	6.38E+01	4.04E+01	2.00E-03	2.34E-01	8.30E+00	1.09E+00	3.35E+01	1.49E+02	-1.37E+00
4469	488363.09	3858377.25	9.08845	5.47882	14.5799	13.70722	44.74	8.169	11.529	5.47882	6.34E+01	1.01E+01	1.52E-03	4.82E-01	1.40E+01	7.68E-01	8.17E+01	3.73E+01	1.33E+02
4470	488863.09	3858377.25	7.99431	3.38426	12.4751	13.57082	31.12	10	3.7764	3.38426	5.57E+01	6.25E+00	1.30E-03	4.78E-01	9.75E+00	9.40E-01	2.68E+01	2.30E+01	7.69E+01
4471	489363.09	3858377.25	5.83958	2.50441	10.35595	42.49108	33.67	6.657	2.698	2.50441	4.07E+01	4.63E+00	1.08E-03	1.50E+00	1.06E+01	6.26E-01	1.91E+01	1.70E+01	6.01E+01
4472	489863.09	3858377.25	4.83456	2.20084	5.99354	28.04134	31.86	5.185	2.2987	2.20084	3.37E+01	4.06E+00	6.24E-04	9.87E-01	9.98E+00	4.87E-01	1.63E+01	1.50E+01	5.05E+01
4473	490363.09	3858377.25	4.47829	1.65874	6.16587	25.92067	22.31	4.238	1.8186	1.65874	3.12E+01	3.06E+00	6.42E-04	9.12E-01	6.99E+00	3.98E-01	1.29E+01	1.13E+01	4.42E+01
4474	490863.09	3858377.25	4.27252	1.39772	6.42294	23.80148	19.97	3.6	1.5648	1.39772	2.98E+01	2.58E+00	6.69E-04	8.38E-01	6.26E+00	3.38E-01	1.11E+01	9.50E+00	4.14E+01
4475	491363.09	3858377.25	4.19624	1.12358	5.73796	12.25863	20.69	2.585	1.3877	1.12358	2.93E+01	2.08E+00	5.97E-04	4.31E-01	6.48E+00	2.43E-01	9.83E+00	7.64E+00	4.07E+01
4476	491863.09	3858377.25	4.07854	1.12207	2.7826	3.90396	17.91	1.376	1.2252	1.12207	2.84E+01	2.07E+00	2.90E-04	1.37E-01	5.61E+00	1.29E-01	8.68E+00	7.63E+00	3.74E+01
4477	492363.09	3858377.25	2.7293	1.21639	1.88531	1.7238	6.426	1.232	1.248	1.21639	1.90E+01	2.25E+00	1.96E-04	6.07E-02	2.01E+00	1.16E-01	8.84E+00	8.27E+00	2.40E+01
4478	492863.09	3858377.25	2.93947	1.21566	1.71795	1.69348	8.007	1.057	1.253	1.21566	2.05E+01	2.25E+00	1.79E-04	5.96E-02	2.51E+00	9.93E-02	8.88E+00	8.27E+00	2.60E+01
4479	493363.09	3858377.25	2.45412	0.85126	1.28424	1.39136	6.756	1.001	0.9	0.85126	1.71E+01	1.57E+00	1.34E-04	4.90E-02	2.12E+00	9.41E-02	6.38E+00	5.79E+00	2.15E+01
4480	493863.09	3858377.25	2.20186	0.55478	1.17108	1.27904	5.989	1.089	0.6302	0.55478	1.54E+01	1.02E+00	1.22E-04	4.50E-02	1.88E+00	1.02E-01	4.47E+00	3.77E+00	1.91E+01
4481	494363.09	3858377.25	1.91456	0.47819	1.10179	1.17047	5.082	1.036	0.5079	0.47819	1.33E+01	8.83E-01	1.15E-04	4.12E-02	1.59E+00	9.74E-02	3.60E+00	3.25E+00	1.63E+01
4482	494863.09	3858377.25	1.39484	0.46997	0.81763	1.08623	3.582	1.222	0.4473	0.46997	9.72E+00	8.68E-01	8.51E-05	3.82E-02	1.12E+00	1.15E-01	3.17E+00	3.20E+00	1.18E+01
4483	495363.09	3858377.25	1.36335	0.43545	0.72172	0.97864	3.2	1.718	0.4082	0.43545	9.50E+00	8.04E-01	7.51E-05	3.44E-02	1.00E+00	1.61E-01	2.89E+00	2.96E+00	1.14E+01
4484	495863.09	3858377.25	1.34185	0.41429	0.73272	0.94633	3.02	2.593	0.3882	0.41429	9.35E+00	7.65E-01	7.63E-05	3.33E-02	9.46E-01	2.44E-01	2.75E+00	2.82E+00	1.13E+01
4485	496363.09	3858377.25	1.3191	0.39344	0.72151	0.91331	2.888	8.124	0.3737	0.39344	9.20E+00	7.27E-01	7.51E-05	3.21E-02	9.05E-01	7.64E-01	2.65E+00	2.68E+00	1.16E+01
4486	496863.09	3858377.25	1.32984	0.42687	0.77558	0.91663	2.857	3.805	0.4031	0.42687	9.27E+00	7.88E-01	8.07E-05	3.23E-02	8.95E-01	3.58E-01	2.86E+00	2.90E+00	1.13E+01
4487	497363.09	3858377.25	1.34138	0.46967	0.78612	0.91377	2.771	2.113	0.4651	0.46967	9.35E+00	8.67E-01	8.18E-05	3.22E-02	8.68E-01	1.99E-01	3.30E+00	3.19E+00	1.14E+01
4488	497863.09	3858377.25	1.87237	0.58869	0.81548	1.00534	3.215	2.147	0.6	0.58869	1.31E+01	1.09E+00	8.49E-05	3.54E-02	1.01E+00	2.02E-01	4.25E+00	4.00E+00	1.56E+01
4489	498363.09	3858377.25	2.14865	0.67613	1.04878	1.16641	4.57	2.133	0.7004	0.67613	1.50E+01	1.25E+00	1.09E-04	4.11E-02	1.43E+00	2.01E-01	4.96E+00	4.60E+00	1.83E+01
4490	471363.09	3858877.25	1.25954	0.41461	0.73465	0.59023	3.015	0.61	0.4347	0.41461	8.78E+00	7.66E-01	7.65E-05	2.08E-02	9.45E-01	5.73E-02	3.08E+00	2.82E+00	1.08E+01
4491	471863.09	3858877.25	1.31881	0.41294	0.72818	0.59826	3.03	0.617	0.4365	0.41294	9.19E+00	7.63E-01	7.58E-05	2.11E-02	9.49E-01	5.80E-02	3.09E+00	2.81E+00	1.13E+01
4492	472363.09	3858877.25	1.36937	0.44352	0.75081	0.6156	3.061	0.649	0.4643	0.44352	9.55E+00	8.19E-01	7.82E-05	2.17E-02	9.59E-01	6.10E-02	3.29E+00	3.02E+00	1.17E+01
4493	472863.09	3858877.25	1.42258	0.46718	0.86322	0.63119	3.07	0.672	0.487	0.46718	9.92E+00	8.63E-01	8.99E-05	2.22E-02	9.62E-01	6.32E-02	3.45E+00	3.18E+00	1.21E+01
4494	473363.09	3858877.25	1.45602	0.51249	0.97287	0.64777	3.148	0.716	0.5239	0.51249	1.02E+01	9.47E-01	1.01E-04	2.28E-02	9.86E-01	6.73E-02	3.71E+00	3.48E+00	1.24E+01
4495	473863.09	3858877.25	1.51782	0.47987	0.94499	0.66817	3.176	0.701	0.5015	0.47987	1.06E+01	8.86E-01	9.84E-05	2.35E-02	9.95E-01	6.59E-02	3.55E+00	3.26E+00	1.28E+01
4496	474363.09	3858877.25	1.5332	0.38709	0.77378	0.655	2.954	0.621	0.4254	0.38709	1.07E+01	7.15E-01	8.06E-05	2.31E-02	9.26E-01	5.84E-02	3.01E+00	2.63E+00	1.28E+01
4497	474863.09	3858877.25	1.0993	0.24427	0.57027	0.54382	1.475	0.495	0.2522	0.24427	7.66E+00	4.51E-01	5.94E-05	1.91E-02	4.62E-01	4.65E-02	1.79E+00	1.66E+00	8.77E+00
4498	475363.09	3858877.25	0.86444	0.2276	0.52416	0.45317	1.405	0.455	0.2317	0.2276	6.03E+00	4.20E-01	5.46E-05	1.59E-02	4.40E-01	4.28E-02	1.64E+00	1.55E+00	7.04E+00
4499	475863.09	3858877.25	0.87754	0.23625	0.54671	0.48743	1.515	0.465	0.2453	0.23625	6.12E+00	4.36E-01	5.69E-05	1.72E-02	4.75E-01	4.37E-02	1.74E+00	1.61E+00	7.22E+00

4500	476363.09	3858877.25	0.71429	0.21572	0.48737	0.40922	1.175	0.435	0.21	0.21572	4.98E+00	3.98E-01	5.07E-05	1.44E-02	3.68E-01	4.09E-02	1.49E+00	1.47E+00	5.82E+00
4501	476863.09	3858877.25	0.7818	0.22684	0.49662	0.44025	1.313	0.48	0.2275	0.22684	5.45E+00	4.19E-01	5.17E-05	1.55E-02	4.11E-01	4.52E-02	1.61E+00	1.54E+00	6.41E+00
4502	477363.09	3858877.25	0.88154	0.23567	0.49646	0.44326	1.38	0.489	0.2373	0.23567	6.15E+00	4.35E-01	5.17E-05	1.56E-02	4.32E-01	4.60E-02	1.68E+00	1.60E+00	7.15E+00
4503	477863.09	3858877.25	0.89657	0.24481	0.57219	0.46498	1.716	0.5	0.2441	0.24481	6.25E+00	4.52E-01	5.96E-05	1.64E-02	5.38E-01	4.70E-02	1.73E+00	1.66E+00	7.37E+00
4504	478363.09	3858877.25	1.37478	0.29901	0.66643	0.6145	3.528	0.654	0.3308	0.29901	9.58E+00	5.52E-01	6.94E-05	2.16E-02	1.11E+00	6.14E-02	2.34E+00	2.03E+00	1.16E+01
4505	478863.09	3858877.25	1.09872	0.31329	0.81211	0.59755	2.886	0.651	0.3092	0.31329	7.66E+00	5.79E-01	8.45E-05	2.10E-02	9.04E-01	6.12E-02	2.19E+00	2.13E+00	9.29E+00
4506	479363.09	3858877.25	1.06032	0.31842	0.82227	0.58976	2.764	0.561	0.318	0.31842	7.39E+00	5.88E-01	8.56E-05	2.08E-02	8.66E-01	5.28E-02	2.25E+00	2.17E+00	9.01E+00
4507	479863.09	3858877.25	2.13136	0.58347	1.74058	1.05283	8.199	1.149	0.6025	0.58347	1.49E+01	1.08E+00	1.81E-04	3.71E-02	2.57E+00	1.08E-01	4.27E+00	3.97E+00	1.90E+01
4508	480363.09	3858877.25	2.23411	0.71341	2.18887	1.14683	8.376	1.407	0.7035	0.71341	1.56E+01	1.32E+00	2.28E-04	4.04E-02	2.62E+00	1.32E-01	4.98E+00	4.85E+00	1.98E+01
4509	480863.09	3858877.25	2.42032	0.78528	2.98694	1.2579	8.279	1.685	0.7665	0.78528	1.69E+01	1.45E+00	3.11E-04	4.43E-02	2.59E+00	1.58E-01	5.43E+00	5.34E+00	2.12E+01
4510	481363.09	3858877.25	2.6078	0.84012	4.06034	1.40646	9.29	1.917	0.8039	0.84012	1.82E+01	1.55E+00	4.23E-04	4.95E-02	2.91E+00	1.80E-01	5.70E+00	5.71E+00	2.29E+01
4511	481863.09	3858877.25	2.70057	0.95022	4.28107	1.59049	10.25	2.153	0.929	0.95022	1.88E+01	1.75E+00	4.46E-04	5.60E-02	3.21E+00	2.02E-01	6.58E+00	6.46E+00	2.42E+01
4512	482363.09	3858877.25	2.70388	1.23066	3.1768	1.78676	10.67	2.373	1.1319	1.23066	1.89E+01	2.27E+00	3.31E-04	6.29E-02	3.34E+00	2.23E-01	8.02E+00	8.37E+00	2.44E+01
4513	482863.09	3858877.25	2.73794	1.35596	5.33282	2.0453	12.13	2.673	1.3271	1.35596	1.91E+01	2.50E+00	5.55E-04	7.20E-02	3.80E+00	2.51E-01	9.40E+00	9.22E+00	2.59E+01
4514	483363.09	3858877.25	2.64872	1.9769	4.68888	2.06902	11.41	3.225	1.9576	1.9769	1.85E+01	3.65E+00	4.88E-04	7.28E-02	3.57E+00	3.03E-01	1.39E+01	1.34E+01	2.65E+01
4515	483863.09	3858877.25	2.87334	1.96566	4.31613	2.28491	12.2	3.427	1.9378	1.96566	2.00E+01	3.63E+00	4.49E-04	8.04E-02	3.82E+00	3.22E-01	1.37E+01	1.34E+01	2.83E+01
4516	484363.09	3858877.25	3.00434	1.80537	5.70967	2.55978	12.56	3.839	1.7707	1.80537	2.09E+01	3.33E+00	5.94E-04	9.01E-02	3.93E+00	3.61E-01	1.25E+01	1.23E+01	2.89E+01
4517	484863.09	3858877.25	3.6049	1.68724	5.37731	2.86909	13.88	4.406	1.6387	1.68724	2.51E+01	3.12E+00	5.60E-04	1.01E-01	4.35E+00	4.14E-01	1.16E+01	1.15E+01	3.33E+01
4518	485363.09	3858877.25	4.78017	1.7705	7.13215	3.2278	15.91	4.964	1.5282	1.7705	3.33E+01	3.27E+00	7.43E-04	1.14E-01	4.98E+00	4.67E-01	1.08E+01	1.20E+01	4.09E+01
4519	485863.09	3858877.25	5.81647	1.94316	5.94583	3.67741	20.01	5.796	1.61	1.94316	4.06E+01	3.59E+00	6.19E-04	1.29E-01	6.27E+00	5.45E-01	1.14E+01	1.32E+01	4.93E+01
4520	486363.09	3858877.25	7.40212	2.13593	8.45101	4.13424	19.16	8.386	1.7808	2.13593	5.16E+01	3.94E+00	8.80E-04	1.46E-01	6.00E+00	7.88E-01	1.26E+01	1.45E+01	6.06E+01
4521	486863.09	3858877.25	9.50974	2.62802	16.10153	4.84512	17.24	7.923	2.0714	2.62802	6.63E+01	4.85E+00	1.68E-03	1.71E-01	5.40E+00	7.45E-01	1.47E+01	1.79E+01	7.43E+01
4522	487363.09	3858877.25	8.97166	3.19886	12.10257	6.12038	19.03	9.173	2.4547	3.19886	6.25E+01	5.91E+00	1.26E-03	2.15E-01	5.96E+00	8.62E-01	1.74E+01	2.18E+01	7.11E+01
4523	487863.09	3858877.25	8.69406	3.7364	10.8248	7.32142	16.72	21.13	2.9506	3.7364	6.06E+01	6.90E+00	1.13E-03	2.58E-01	5.24E+00	1.99E+00	2.09E+01	2.54E+01	7.05E+01
4524	488363.09	3858877.25	9.21936	6.05332	12.01838	9.65268	21.46	9.457	4.6893	6.05332	6.43E+01	1.12E+01	1.25E-03	3.40E-01	6.72E+00	8.89E-01	3.32E+01	4.12E+01	7.55E+01
4525	488863.09	3858877.25	9.25305	12.13534	13.66493	15.63561	34.3	7.871	24.579	12.13534	6.45E+01	2.24E+01	1.42E-03	5.50E-01	1.07E+01	7.40E-01	1.74E+02	8.25E+01	1.91E+02
4526	489363.09	3858877.25	7.17779	5.11282	8.09232	21.36977	18.73	11.24	4.8039	5.11282	5.00E+01	9.44E+00	8.42E-04	7.52E-01	5.87E+00	1.06E+00	3.40E+01	3.48E+01	6.64E+01
4527	489863.09	3858877.25	5.62399	3.50146	8.25198	9.32708	19.32	6.766	2.9405	3.50146	3.92E+01	6.47E+00	8.59E-04	3.28E-01	6.05E+00	6.36E-01	2.08E+01	2.38E+01	4.97E+01
4528	490363.09	3858877.25	4.5941	2.43013	11.03153	6.94124	25.3	4.895	2.2714	2.43013	3.20E+01	4.49E+00	1.15E-03	2.44E-01	7.93E+00	4.60E-01	1.61E+01	1.65E+01	4.47E+01
4529	490863.09	3858877.25	4.34442	1.40185	8.26513	6.11756	20.94	2.906	1.679	1.40185	3.03E+01	2.59E+00	8.60E-04	2.15E-01	6.56E+00	2.73E-01	1.19E+01	9.53E+00	4.23E+01
4530	491363.09	3858877.25	4.55451	1.08014	5.19992	3.54952	14.07	1.766	1.5944	1.08014	3.18E+01	1.99E+00	5.41E-04	1.25E-01	4.41E+00	1.66E-01	1.13E+01	7.34E+00	4.24E+01
4531	491863.09	3858877.25	3.97839	1.04294	2.74721	1.82764	9.018	1.334	1.3483	1.04294	2.77E+01	1.93E+00	2.86E-04	6.43E-02	2.83E+00	1.25E-01	9.55E+00	7.09E+00	3.51E+01
4532	492363.09	3858877.25	4.00476	0.95005	2.43357	2.04784	10.83	1.44	1.1768	0.95005	2.79E+01	1.75E+00	2.53E-04	7.21E-02	3.39E+00	1.35E-01	8.34E+00	6.46E+00	3.52E+01
4533	492863.09	3858877.25	3.74793	1.06392	2.93411	3.02892	12.02	1.604	1.16	1.06392	2.61E+01	1.96E+00	3.05E-04	1.07E-01	3.77E+00	1.51E-01	8.22E+00	7.23E+00	3.31E+01
4534	493363.09	3858877.25	3.48558	1.14572	2.1818	2.41082	12.03	1.684	1.1983	1.14572	2.43E+01	2.12E+00	2.27E-04	8.49E-02	3.77E+00	1.58E-01	8.49E+00	7.79E+00	3.11E+01
4535	493863.09	3858877.25	3.03628	1.11626	1.52468	1.70422	7.909	2.198	1.1636	1.11626	2.12E+01	2.06E+00	1.59E-04	6.00E-02	2.48E+00	2.07E-01	8.24E+00	7.59E+00	2.66E+01
4536	494363.09	3858877.25	2.77739	0.82181	1.33645	1.48136	6.323	2.445	0.87	0.82181	1.94E+01	1.52E+00	1.39E-04	5.21E-02	1.98E+00	2.30E-01	6.16E+00	5.59E+00	2.37E+01
4537	494863.09	3858877.25	2.50204	0.55612	1.33137	1.195	6.251	2.275	0.6216	0.55612	1.74E+01	1.03E+00	1.39E-04	4.21E-02	1.96E+00	2.14E-01	4.40E+00	3.78E+00	2.13E+01
4538	495363.09	3858877.25	2.22176	0.49263	1.26715	1.08904	5.869	2.468	0.5303	0.49263	1.55E+01	9.10E-01	1.32E-04	3.83E-02	1.84E+00	2.32E-01	3.76E+00	3.35E+00	1.89E+01
4539	495863.09	3858877.25	2.0847	0.48506	1.24068	1.04549	5.443	7.677	0.5086	0.48506	1.45E+01	8.96E-01	1.29E-04	3.68E-02	1.71E+00	7.22E-01	3.60E+00	3.30E+00	1.82E+01
4540	496363.09	3858877.25	2.05073	0.46807	1.22695	1.04708	5.135	5.208	0.4922	0.46807	1.43E+01	8.64E-01	1.28E-04	3.69E-02	1.61E+00	4.90E-01	3.49E+00	3.18E+00	1.76E+01
4541	496863.09	3858877.25	2.01869	0.45349	1.1977	1.03968	4.851	4.138	0.4788	0.45349	1.41E+01	8.38E-01	1.25E-04	3.66E-02	1.52E+00	3.89E-01	3.39E+00	3.08E+00	1.72E+01
4542	497363.09	3858877.25	1.9746	0.43361	1.15793	1.03848	4.498	2.988	0.4603	0.43361	1.38E+01	8.01E-01	1.21E-04	3.66E-02	1.41E+00	2.81E-01	3.26E+00	2.95E+00	1.66E+01
4543	497863.09	3858877.25	2.15168	0.56919	1.23208	1.16295	4.886	2.223	0.5582	0.56919	1.50E+01	1.05E+00	1.28E-04	4.09E-02	1.53E+00	2.09E-01	3.95E+00	3.87E+00	1.79E+01
4544	498363.09	3858877.25	2.24384	0.64669	1.28504	1.58453	5.321	1.971	0.6686	0.64669	1.56E+01	1.19E+00	1.34E-04	5.58E-02	1.67E+00	1.85E-01	4.74E+00	4.40E+00	1.91E+01
4545	471363.09	3859377.25	1.30876	0.39217	0.77069	0.60786	2.429	0.695	0.408	0.39217	9.12E+00	7.24E-01	8.02E-05	2.14E-02	7.61E-01	6.53E-02	2.89E+00	2.67E+00	1.09E+01
4546	471863.09	3859377.25	1.34461	0.396	0.84003	0.63088	2.561	0.715	0.4126	0.396	9.37E+00	7.31E-01	8.75E-05	2.22E-02	8.02E-01	6.72E-02	2.92E+00	2.69E+00	1.12E+01
4547	472363.09	3859377.25	1.38672	0.41314	0.88985	0.65892	2.822	0.75	0.427	0.41314	9.67E+00	7.63E-01	9.26E-05	2.32E-02	8.84E-01	7.05E-02	3.03E+00	2.81E+00	1.16E+01
4548	472863.09	3859377.25	1.42427	0.43507	0.94302	0.68454	3.115	0.776	0.4474	0.43507	9.93E+00	8.04E-01	9.82E-05	2.41E-02	9.76E-01	7.29E-02	3.17E+00	2.96E+00	1.20E+01
4549	473363.09	3859377.25	1.45103	0.46039	0.96582	0.71406	3.433	0.809	0.4692	0.46039	1.01E+01	8.50E-01	1.01E-04	2.51E-02	1.08E+00	7.60E-02	3.32E+00	3.13E+00	1.23E+01
4550	473863.09	3859377.25	1.49575	0.46257	0.86874	0.73836	3.824	0.812	0.4753	0.46257	1.04E+01	8.54E-01	9.04E-05	2.60E-02	1.20E+00	7.63E-02	3.37E+00	3.15E+00	1.28E+01
4551	474363.09	3859377.25	1.50901	0.38341	0.89131	0.69477	4.185	0.718	0.4125	0.38341	1.05E+01	7.08E-01	9.28E-05	2.45E-02	1.31E+00	6.75E-02	2.92E+00	2.61E+00	1.29E+01
4552	474863.09	3859377.25	1.3714	0.32146	0.78824	0.61597	3.448	0.612	0.3611	0.32146	9.56E+00	5.94E-01	8.21E-05	2.17E-02	1.08E+00	5.75E-02	2.56E+00	2.19E+00	1.17E+01
4553	475363.09	3859377.25	1.05797	0.25321	0.65211	0.55382	2.148	0.507	0.2499	0.25321	7.38E+00	4.68E-01	6.79E-05	1.95E-02	6.73E-01	4.77E-02	1.77E+00	1.72E+00	8.63E+00
4554	475863.09	3859377.25	0.84968	0.22257	0.4814	0.43083	1.493	0.427	0.2244	0.22257	5.92E+00	4.11E-01	5.01E-05	1.52E-02	4.68E-01	4.01E-02	1.59E+00	1.51E+00	6.93E+00
4555	476363.09	3859377.25	0.70173	0.21998	0.40962	0.41152	1.528	0.427	0.2206	0.21998	4.89E+00	4.06E-01	4.26E-05	1.45E-02	4.79E-01	4.02E-02	1.56E+00	1.50E+00	5.90E+00
4556	476863.09	3859377.25	0.63921	0.20728	0.35432	0.36381	1.375	0.384	0.203	0.20728	4.46E+00	3.83E-01	3.69E-05	1.28E-02	4.31E-01	3.61E-02	1.44E+00	1.41E+00	5.35E+00

4557	477363.09	3859377.25	0.64004	0.21097	0.3522	0.39569	1.539	0.392	0.21	0.21097
4558	477863.09	3859377.25	0.8709	0.23882	0.64943	0.50455	2.104	0.47	0.2578	0.23882
4559	478363.09	3859377.25	1.14235	0.27606	0.84261	0.63204	2.909	0.632	0.2782	0.27606
4560	478863.09	3859377.25	1.70507	0.34136	1.01485	0.86794	4.741	0.716	0.4001	0.34136
4561	479363.09	3859377.25	2.00147	0.41898	1.28365	1.15897	7.063	0.801	0.4742	0.41898
4562	479863.09	3859377.25	2.19548	0.50114	1.86891	1.34988	8.329	1.024	0.5213	0.50114
4563	480363.09	3859377.25	2.30842	0.64071	2.72516	1.4448	8.61	1.363	0.6224	0.64071
4564	480863.09	3859377.25	2.39828	0.7091	3.09385	1.51527	8.17	1.573	0.6841	0.7091
4565	481363.09	3859377.25	2.43092	0.78856	3.38604	1.61003	8.954	1.753	0.7582	0.78856
4566	481863.09	3859377.25	2.38729	0.93234	3.44456	1.71009	9.172	1.869	0.8664	0.93234
4567	482363.09	3859377.25	2.39537	1.08064	3.38927	1.82725	10.04	1.949	0.9158	1.08064
4568	482863.09	3859377.25	2.51123	0.98069	4.30812	1.96924	11.48	2.122	0.8868	0.98069
4569	483363.09	3859377.25	2.56409	1.15528	3.6664	2.0907	10.7	2.563	1.0961	1.15528
4570	483863.09	3859377.25	2.55471	1.39616	3.98451	2.23392	9.96	2.684	1.3781	1.39616
4571	484363.09	3859377.25	2.66812	1.70281	5.15085	2.53799	11.9	3.133	1.686	1.70281
4572	484863.09	3859377.25	2.89197	2.11619	2.9349	2.83277	13.77	3.555	2.0938	2.11619
4573	485363.09	3859377.25	3.72816	2.3697	4.46299	3.06597	16.12	4.1	2.3173	2.3697
4574	485863.09	3859377.25	4.74642	2.45649	6.41786	3.25284	14.86	5.239	2.2913	2.45649
4575	486363.09	3859377.25	5.89438	2.21632	7.76835	3.77257	13.19	7.595	2.0299	2.21632
4576	486863.09	3859377.25	8.79687	2.06094	8.79409	4.25737	13.31	15.7	1.7844	2.06094
4577	487363.09	3859377.25	9.73853	2.39232	7.15864	5.12782	16.17	8.155	1.8956	2.39232
4578	487863.09	3859377.25	8.99558	2.83447	5.97729	6.08441	12.45	7.046	2.3631	2.83447
4579	488363.09	3859377.25	8.89861	3.11935	6.31123	7.59328	10.77	14.32	2.8589	3.11935
4580	488863.09	3859377.25	8.90386	4.13117	6.92122	10.27341	21.62	10.73	4.1839	4.13117
4581	489363.09	3859377.25	6.68384	7.81667	11.57916	11.75819	24.26	7.042	7.8113	7.81667
4582	489863.09	3859377.25	7.90854	9.34881	76.98858	31.52863	13.18	22.61	9.0449	9.34881
4583	490363.09	3859377.25	5.87381	4.52438	26.16407	9.6722	12.08	8.213	3.9444	4.52438
4584	490863.09	3859377.25	5.14653	2.28292	14.96076	5.22476	17.46	4.604	2.0362	2.28292
4585	491363.09	3859377.25	4.88758	0.92623	5.57377	3.50985	19.94	2.02	1.7746	0.92623
4586	491863.09	3859377.25	3.99391	1.18063	6.5396	3.80956	14.3	2.489	1.4671	1.18063
4587	492363.09	3859377.25	3.81537	1.11484	5.65741	3.51436	10.42	2.33	1.3458	1.11484
4588	492863.09	3859377.25	3.62403	1.08654	5.10703	3.02677	12.1	2.291	1.2315	1.08654
4589	493363.09	3859377.25	3.5645	1.01299	3.64985	2.48566	10.26	2.352	1.1276	1.01299
4590	493863.09	3859377.25	3.39301	1.05145	3.04895	2.60998	9.86	2.967	1.0968	1.05145
4591	494363.09	3859377.25	3.23737	1.08237	2.61549	2.40593	8.859	5.26	1.0904	1.08237
4592	494863.09	3859377.25	3.04217	0.98818	1.59753	1.81634	7.983	11.07	1.0276	0.98818
4593	495363.09	3859377.25	2.84312	0.74879	1.42662	1.80453	8.39	6.537	0.8124	0.74879
4594	495863.09	3859377.25	2.66927	0.61358	1.22444	1.55522	7.019	3.664	0.6033	0.61358
4595	496363.09	3859377.25	2.57202	0.56307	1.18214	1.50825	6.641	3.905	0.5502	0.56307
4596	496863.09	3859377.25	2.36521	0.54592	0.99789	1.31393	6.16	2.851	0.531	0.54592
4597	497363.09	3859377.25	2.35795	0.52551	1.05211	1.37373	7.349	2.509	0.5125	0.52551
4598	497863.09	3859377.25	2.35393	0.52673	1.37481	1.57009	8.052	2.425	0.5266	0.52673
4599	498363.09	3859377.25	2.28647	0.73825	1.70358	1.94768	7.568	2.658	0.6846	0.73825
4600	471363.09	3859877.25	1.32226	0.40241	0.85489	0.75943	3.479	0.758	0.4093	0.40241
4601	471863.09	3859877.25	1.35417	0.40837	0.90648	0.7899	3.914	0.773	0.4135	0.40837
4602	472363.09	3859877.25	1.38901	0.4154	0.86506	0.81623	4.35	0.775	0.4204	0.4154
4603	472863.09	3859877.25	1.40073	0.42922	0.81973	0.84638	4.637	0.799	0.4292	0.42922
4604	473363.09	3859877.25	1.41079	0.44031	0.89014	0.87169	4.792	0.834	0.4364	0.44031
4605	473863.09	3859877.25	1.42973	0.44251	0.94954	0.89898	4.867	0.855	0.4382	0.44251
4606	474363.09	3859877.25	1.48499	0.40951	0.78413	0.8764	4.969	0.733	0.4206	0.40951
4607	474863.09	3859877.25	1.42635	0.34108	0.81569	0.76659	4.224	0.643	0.3843	0.34108
4608	475363.09	3859877.25	1.10121	0.26047	0.67187	0.57356	2.67	0.601	0.2569	0.26047
4609	475863.09	3859877.25	0.80238	0.22436	0.48188	0.39697	1.876	0.436	0.2257	0.22436
4610	476363.09	3859877.25	0.60557	0.19995	0.29559	0.34626	1.69	0.393	0.1979	0.19995
4611	476863.09	3859877.25	0.5971	0.2058	0.37168	0.36965	1.908	0.404	0.2035	0.2058
4612	477363.09	3859877.25	0.5952	0.20872	0.54727	0.3851	2.184	0.414	0.2088	0.20872
4613	477863.09	3859877.25	0.87021	0.24321	0.62437	0.46908	2.629	0.482	0.2421	0.24321

4.46E+00	3.90E-01	3.67E-05	1.39E-02	4.82E-01	3.68E-02	1.49E+00	1.43E+00	5.44E+00
6.07E+00	4.41E-01	6.76E-05	1.78E-02	6.59E-01	4.42E-02	1.83E+00	1.62E+00	7.44E+00
7.96E+00	5.10E-01	8.77E-05	2.22E-02	9.12E-01	5.94E-02	1.97E+00	1.88E+00	9.56E+00
1.19E+01	6.30E-01	1.06E-04	3.05E-02	1.49E+00	6.73E-02	2.83E+00	2.32E+00	1.46E+01
1.40E+01	7.74E-01	1.34E-04	4.08E-02	2.21E+00	7.53E-02	3.36E+00	2.85E+00	1.76E+01
1.53E+01	9.26E-01	1.95E-04	4.75E-02	2.61E+00	9.62E-02	3.69E+00	3.41E+00	1.93E+01
1.61E+01	1.18E+00	2.84E-04	5.09E-02	2.70E+00	1.28E-01	4.41E+00	4.36E+00	2.02E+01
1.67E+01	1.31E+00	3.22E-04	5.33E-02	2.56E+00	1.48E-01	4.85E+00	4.82E+00	2.08E+01
1.69E+01	1.46E+00	3.53E-04	5.67E-02	2.81E+00	1.65E-01	5.37E+00	5.36E+00	2.14E+01
1.66E+01	1.72E+00	3.59E-04	6.02E-02	2.87E+00	1.76E-01	6.14E+00	6.34E+00	2.13E+01
1.67E+01	2.00E+00	3.53E-04	6.43E-02	3.15E+00	1.83E-01	6.49E+00	7.35E+00	2.12E+01
1.75E+01	1.81E+00	4.49E-04	6.93E-02	3.60E+00	1.99E-01	6.28E+00	6.67E+00	2.28E+01
1.79E+01	2.13E+00	3.82E-04	7.36E-02	3.35E+00	2.41E-01	7.77E+00	7.86E+00	2.36E+01
1.78E+01	2.58E+00	4.15E-04	7.86E-02	3.12E+00	2.52E-01	9.76E+00	9.49E+00	2.41E+01
1.86E+01	3.14E+00	5.36E-04	8.93E-02	3.73E+00	2.95E-01	1.19E+01	1.16E+01	2.62E+01
2.02E+01	3.91E+00	3.06E-04	9.97E-02	4.32E+00	3.34E-01	1.48E+01	1.44E+01	2.93E+01
2.60E+01	4.38E+00	4.65E-04	1.08E-01	5.05E+00	3.85E-01	1.64E+01	1.61E+01	3.62E+01
3.31E+01	4.54E+00	6.68E-04	1.14E-01	4.66E+00	4.92E-01	1.62E+01	1.67E+01	4.24E+01
4.11E+01	4.09E+00	8.09E-04	1.33E-01	4.13E+00	7.14E-01	1.44E+01	1.51E+01	4.95E+01
6.13E+01	3.81E+00	9.16E-04	1.50E-01	4.17E+00	1.48E+00	1.26E+01	1.40E+01	6.96E+01
6.79E+01	4.42E+00	7.45E-04	1.80E-01	5.07E+00	7.67E-01	1.34E+01	1.63E+01	7.55E+01
6.27E+01	5.24E+00	6.22E-04	2.14E-01	3.90E+00	6.62E-01	1.67E+01	1.93E+01	7.02E+01
6.20E+01	5.76E+00	6.57E-04	2.67E-01	3.38E+00	1.35E+00	2.03E+01	2.12E+01	7.18E+01
6.21E+01	7.63E+00	7.21E-04	3.62E-01	6.78E+00	1.01E+00	2.96E+01	2.81E+01	7.94E+01
4.66E+01	1.44E+01	1.21E-03	4.14E-01	7.60E+00	6.62E-01	5.53E+01	5.32E+01	7.19E+01
5.51E+01	1.73E+01	8.01E-03	1.11E+00	4.13E+00	2.13E+00	6.41E+01	6.36E+01	8.03E+01
4.10E+01	8.36E+00	2.72E-03	3.40E-01	3.79E+00	7.72E-01	2.79E+01	3.08E+01	5.14E+01
3.59E+01	4.22E+00	1.56E-03	1.84E-01	5.47E+00	4.33E-01	1.44E+01	1.55E+01	4.51E+01
3.41E+01	1.71E+00	5.80E-04	1.24E-01	6.25E+00	1.90E-01	1.26E+01	6.30E+00	4.86E+01
2.78E+01	2.18E+00	6.81E-04	1.34E-01	4.48E+00	2.34E-01	1.04E+01	8.03E+00	3.72E+01
2.66E+01	2.06E+00	5.89E-04	1.24E-01	3.26E+00	2.19E-01	9.54E+00	7.58E+00	3.42E+01
2.53E+01	2.01E+00	5.32E-04	1.07E-01	3.79E+00	2.15E-01	8.73E+00	7.39E+00	3.27E+01
2.49E+01	1.87E+00	3.80E-04	8.75E-02	3.22E+00	2.21E-01	7.99E+00	6.89E+00	3.13E+01
2.37E+01	1.94E+00	3.17E-04	9.19E-02	3.09E+00	2.79E-01	7.77E+00	7.15E+00	2.97E+01
2.26E+01	2.00E+00	2.72E-04	8.47E-02	2.78E+00	4.94E-01	7.73E+00	7.36E+00	2.83E+01
2.12E+01	1.83E+00	1.66E-04	6.39E-02	2.50E+00	1.04E+00	7.28E+00	6.72E+00	2.72E+01
1.98E+01	1.38E+00	1.49E-04	6.35E-02	2.63E+00	6.14E-01	5.76E+00	5.09E+00	2.52E+01
1.86E+01	1.13E+00	1.27E-04	5.47E-02	2.20E+00	3.44E-01	4.27E+00	4.17E+00	2.24E+01
1.79E+01	1.04E+00	1.23E-04	5.31E-02	2.08E+00	3.67E-01	3.90E+00	3.83E+00	2.15E+01
1.65E+01	1.01E+00	1.04E-04	4.62E-02	1.93E+00	2.68E-01	3.76E+00	3.71E+00	1.98E+01
1.64E+01	9.71E-01	1.10E-04	4.83E-02	2.30E+00	2.36E-01	3.63E+00	3.57E+00	2.01E+01
1.64E+01	9.73E-01	1.43E-04	5.53E-02	2.52E+00	2.28E-01	3.73E+00	3.58E+00	2.03E+01
1.59E+01	1.36E+00	1.77E-04	6.86E-02	2.37E+00	2.50E-01	4.85E+00	5.02E+00	1.98E+01
9.22E+00	7.43E-01	8.90E-05	2.67E-02	1.09E+00	7.13E-02	2.90E+00	2.74E+00	1.13E+01
9.44E+00	7.54E-01	9.44E-05	2.78E-02	1.23E+00	7.26E-02	2.93E+00	2.78E+00	1.17E+01
9.68E+00	7.67E-01	9.01E-05	2.87E-02	1.36E+00	7.28E-02	2.98E+00	2.82E+00	1.21E+01
9.77E+00	7.93E-01	8.53E-05	2.98E-02	1.45E+00	7.51E-02	3.04E+00	2.92E+00	1.22E+01
9.84E+00	8.13E-01	9.27E-05	3.07E-02	1.50E+00	7.84E-02	3.09E+00	2.99E+00	1.24E+01
9.97E+00	8.17E-01	9.89E-05	3.16E-02	1.52E+00	8.04E-02	3.10E+00	3.01E+00	1.25E+01
1.04E+01	7.56E-01	8.16E-05	3.08E-02	1.56E+00	6.89E-02	2.98E+00	2.78E+00	1.30E+01
9.94E+00	6.30E-01	8.49E-05	2.70E-02	1.32E+00	6.05E-02	2.72E+00	2.32E+00	1.24E+01
7.68E+00	4.81E-01	6.99E-05	2.02E-02	8.37E-01	5.65E-02	1.82E+00	1.77E+00	9.12E+00
5.59E+00	4.14E-01	5.02E-05	1.40E-02	5.88E-01	4.10E-02	1.60E+00	1.53E+00	6.72E+00
4.22E+00	3.69E-01	3.08E-05	1.22E-02	5.29E-01	3.69E-02	1.40E+00	1.36E+00	5.21E+00
4.16E+00	3.80E-01	3.87E-05	1.30E-02	5.98E-01	3.79E-02	1.44E+00	1.40E+00	5.23E+00
4.15E+00	3.85E-01	5.70E-05	1.36E-02	6.84E-01	3.89E-02	1.48E+00	1.42E+00	5.33E+00
6.07E+00	4.49E-01	6.50E-05	1.65E-02	8.24E-01	4.53E-02	1.72E+00	1.65E+00	7.46E+00

4614	478363.09	3859877.25	1.23055	0.2737	0.8041	0.62886	3.692	0.65	0.2812	0.2737	8.58E+00	5.06E-01	8.37E-05	2.21E-02	1.16E+00	6.11E-02	1.99E+00	1.86E+00	1.05E+01
4615	478863.09	3859877.25	1.82531	0.33955	0.82891	0.80656	5.634	0.769	0.3966	0.33955	1.27E+01	6.27E-01	8.63E-05	2.84E-02	1.77E+00	7.23E-02	2.81E+00	2.31E+00	1.57E+01
4616	479363.09	3859877.25	2.10225	0.44339	1.24765	1.08898	6.176	0.925	0.4842	0.44339	1.47E+01	8.19E-01	1.30E-04	3.83E-02	1.94E+00	8.69E-02	3.43E+00	3.01E+00	1.80E+01
4617	479863.09	3859877.25	2.2124	0.61605	1.73201	1.32203	6.813	1.133	0.609	0.61605	1.54E+01	1.14E+00	1.80E-04	4.65E-02	2.13E+00	1.06E-01	4.31E+00	4.19E+00	1.90E+01
4618	480363.09	3859877.25	2.25095	0.7861	2.20534	1.48319	7.034	1.436	0.7563	0.7861	1.57E+01	1.45E+00	2.30E-04	5.22E-02	2.20E+00	1.35E-01	5.36E+00	5.35E+00	1.95E+01
4619	480863.09	3859877.25	2.24475	0.88862	3.2165	1.69584	7.473	1.575	0.8492	0.88862	1.56E+01	1.64E+00	3.35E-04	5.97E-02	2.34E+00	1.48E-01	6.02E+00	6.04E+00	1.98E+01
4620	481363.09	3859877.25	2.16945	0.93321	2.3129	1.85296	8.713	1.699	0.904	0.93321	1.51E+01	1.72E+00	2.41E-04	6.52E-02	2.73E+00	1.60E-01	6.41E+00	6.35E+00	1.99E+01
4621	481863.09	3859877.25	2.11529	1.05608	2.7032	1.98785	9.486	1.764	0.9723	1.05608	1.47E+01	1.95E+00	2.81E-04	7.00E-02	2.97E+00	1.66E-01	6.89E+00	7.18E+00	1.96E+01
4622	482363.09	3859877.25	2.21495	1.1081	3.39903	2.09934	9.117	1.853	0.9719	1.1081	1.54E+01	2.05E+00	3.54E-04	7.39E-02	2.86E+00	1.74E-01	6.89E+00	7.53E+00	1.99E+01
4623	482863.09	3859877.25	2.30749	0.9775	4.03165	2.14245	8.229	2.009	0.8977	0.9775	1.61E+01	1.81E+00	4.20E-04	7.54E-02	2.58E+00	1.89E-01	6.36E+00	6.65E+00	2.04E+01
4624	483363.09	3859877.25	2.44869	0.96718	4.40774	2.20939	10.21	2.323	0.8928	0.96718	1.71E+01	1.79E+00	4.59E-04	7.78E-02	3.20E+00	2.18E-01	6.33E+00	6.58E+00	2.21E+01
4625	483863.09	3859877.25	2.33792	1.11066	2.49287	2.1878	10.58	2.585	1.039	1.11066	1.63E+01	2.05E+00	2.60E-04	7.70E-02	3.31E+00	2.43E-01	7.36E+00	7.55E+00	2.18E+01
4626	484363.09	3859877.25	2.33558	1.18731	3.25657	2.54339	11.76	2.709	1.1253	1.18731	1.63E+01	2.19E+00	3.39E-04	8.95E-02	3.68E+00	2.55E-01	7.97E+00	8.07E+00	2.24E+01
4627	484863.09	3859877.25	2.61154	1.25164	4.20299	2.6913	13.12	2.995	1.1985	1.25164	1.82E+01	2.31E+00	4.38E-04	9.47E-02	4.11E+00	2.82E-01	8.49E+00	8.51E+00	2.50E+01
4628	485363.09	3859877.25	2.81945	1.3944	4.58481	2.80828	12.31	3.445	1.3487	1.3944	1.97E+01	2.58E+00	4.77E-04	9.88E-02	3.86E+00	3.24E-01	9.56E+00	9.48E+00	2.66E+01
4629	485863.09	3859877.25	3.69687	1.71927	4.15133	3.10553	10.13	3.829	1.6058	1.71927	2.58E+01	3.18E+00	4.32E-04	1.09E-01	3.17E+00	3.60E-01	1.14E+01	1.17E+01	3.23E+01
4630	486363.09	3859877.25	4.30355	2.1703	7.59949	3.72759	12.12	4.075	2.0404	2.1703	3.00E+01	4.01E+00	7.91E-04	1.31E-01	3.80E+00	3.83E-01	1.45E+01	1.48E+01	3.80E+01
4631	486863.09	3859877.25	5.09253	2.72731	6.3232	3.98781	11.47	5.275	2.5914	2.72731	3.55E+01	5.04E+00	6.58E-04	1.40E-01	3.59E+00	4.96E-01	1.84E+01	1.85E+01	4.46E+01
4632	487363.09	3859877.25	7.20914	2.96888	6.71907	4.17125	13.89	7.15	2.8969	2.96888	5.03E+01	5.48E+00	6.99E-04	1.47E-01	4.35E+00	6.72E-01	2.05E+01	2.02E+01	6.13E+01
4633	487863.09	3859877.25	9.80349	2.84295	7.01265	5.07679	9.634	7.742	2.709	2.84295	6.83E+01	5.25E+00	7.30E-04	1.79E-01	3.02E+00	7.28E-01	1.92E+01	1.93E+01	7.74E+01
4634	488363.09	3859877.25	9.25633	2.52393	9.07354	6.01157	8.06	12.06	2.2958	2.52393	6.45E+01	4.66E+00	9.45E-04	2.12E-01	2.53E+00	1.13E+00	1.63E+01	1.72E+01	7.22E+01
4635	488863.09	3859877.25	7.80278	2.48648	7.5161	8.47271	11.5	6.154	2.328	2.48648	5.44E+01	4.59E+00	7.82E-04	2.98E-01	3.60E+00	5.78E-01	1.65E+01	1.69E+01	6.31E+01
4636	489363.09	3859877.25	6.69853	3.05085	14.24394	9.56537	18.8	6.739	3.2018	3.05085	4.67E+01	5.63E+00	1.48E-03	3.37E-01	5.89E+00	6.33E-01	2.27E+01	2.07E+01	6.11E+01
4637	489863.09	3859877.25	5.43954	4.07035	7.3966	6.81396	17.33	6.311	4.4494	4.07035	3.79E+01	7.52E+00	7.70E-04	2.40E-01	5.43E+00	5.93E-01	3.15E+01	2.77E+01	5.56E+01
4638	490363.09	3859877.25	5.65104	8.57315	15.27162	10.44715	9.52	7.854	7.6659	8.57315	3.94E+01	1.58E+01	1.59E-03	3.68E-01	2.98E+00	7.38E-01	5.43E+01	5.83E+01	5.53E+01
4639	490863.09	3859877.25	7.28241	16.42435	15.83893	35.42532	8.78	29.3	17.543	16.42435	5.08E+01	3.03E+01	1.65E-03	1.25E+00	2.75E+00	2.75E+00	1.24E+02	1.12E+02	1.00E+02
4640	491363.09	3859877.25	4.86588	5.23477	10.63232	15.57815	10.82	8.964	5.2119	5.23477	3.39E+01	9.67E+00	1.11E-03	5.48E-01	3.39E+00	8.43E-01	3.69E+01	3.56E+01	4.97E+01
4641	491863.09	3859877.25	4.07279	3.55216	8.81158	8.12642	13.62	6.094	3.4074	3.55216	2.84E+01	6.56E+00	9.17E-04	2.86E-01	4.27E+00	5.73E-01	2.41E+01	2.42E+01	4.01E+01
4642	492363.09	3859877.25	3.52788	2.76862	7.41886	5.86955	13.29	5.172	2.5166	2.76862	2.46E+01	5.11E+00	7.72E-04	2.07E-01	4.16E+00	4.86E-01	1.78E+01	1.88E+01	3.36E+01
4643	492863.09	3859877.25	3.24291	2.07705	5.46133	4.28671	9.797	3.942	1.8461	2.07705	2.26E+01	3.84E+00	5.69E-04	1.51E-01	3.07E+00	3.71E-01	1.31E+01	1.41E+01	2.90E+01
4644	493363.09	3859877.25	3.117	1.70094	4.14809	3.65064	7.372	3.418	1.5795	1.70094	2.17E+01	3.14E+00	4.32E-04	1.28E-01	2.31E+00	3.21E-01	1.12E+01	1.16E+01	2.73E+01
4645	493863.09	3859877.25	3.0722	1.39848	3.41125	3.08096	8.25	4.792	1.3987	1.39848	2.14E+01	2.58E+00	3.55E-04	1.08E-01	2.59E+00	4.50E-01	9.91E+00	9.51E+00	2.75E+01
4646	494363.09	3859877.25	3.05235	1.14544	2.845	2.6404	8.881	8.626	1.2249	1.14544	2.13E+01	2.12E+00	2.96E-04	9.29E-02	2.78E+00	8.11E-01	8.68E+00	7.79E+00	2.80E+01
4647	494863.09	3859877.25	2.98175	1.08839	2.58432	2.58721	7.624	4.969	1.1612	1.08839	2.08E+01	2.01E+00	2.69E-04	9.11E-02	2.39E+00	4.67E-01	8.23E+00	7.40E+00	2.66E+01
4648	495363.09	3859877.25	2.92025	1.01993	2.35877	2.43659	7.69	3.59	1.044	1.01993	2.04E+01	1.88E+00	2.46E-04	8.58E-02	2.41E+00	3.37E-01	7.40E+00	6.94E+00	2.55E+01
4649	495863.09	3859877.25	2.83675	0.90482	2.11455	2.24084	7.038	3.283	0.9143	0.90482	1.98E+01	1.67E+00	2.20E-04	7.89E-02	2.21E+00	3.09E-01	6.48E+00	6.15E+00	2.44E+01
4650	496363.09	3859877.25	2.72992	0.70841	1.64282	1.69827	6.783	2.546	0.7348	0.70841	1.90E+01	1.31E+00	1.71E-04	5.98E-02	2.13E+00	2.39E-01	5.21E+00	4.82E+00	2.32E+01
4651	496863.09	3859877.25	2.31997	0.50177	0.8608	1.19816	4.558	1.685	0.5223	0.50177	1.62E+01	9.27E-01	8.96E-05	4.22E-02	1.43E+00	1.58E-01	3.70E+00	3.41E+00	1.90E+01
4652	497363.09	3859877.25	2.52028	0.54812	1.28045	1.61292	7.227	2.214	0.5352	0.54812	1.76E+01	1.01E+00	1.33E-04	5.68E-02	2.26E+00	2.08E-01	3.79E+00	3.73E+00	2.12E+01
4653	497863.09	3859877.25	2.42072	0.75637	1.92802	2.00295	7.615	2.599	0.6922	0.75637	1.69E+01	1.40E+00	2.01E-04	7.05E-02	2.39E+00	2.44E-01	4.90E+00	5.14E+00	2.07E+01
4654	498363.09	3859877.25	2.2562	0.83854	2.2719	1.88956	6.318	2.767	0.7637	0.83854	1.57E+01	1.55E+00	2.37E-04	6.65E-02	1.98E+00	2.60E-01	5.41E+00	5.70E+00	1.93E+01
4655	471363.09	3860377.25	1.30878	0.411	0.81067	0.74362	4.023	0.765	0.4069	0.411	9.12E+00	7.59E-01	8.44E-05	2.62E-02	1.26E+00	7.19E-02	2.88E+00	2.79E+00	1.13E+01
4656	471863.09	3860377.25	1.32344	0.418	0.77474	0.7442	4.088	0.788	0.4116	0.418	9.23E+00	7.72E-01	8.07E-05	2.62E-02	1.28E+00	7.41E-02	2.92E+00	2.84E+00	1.15E+01
4657	472363.09	3860377.25	1.32564	0.42963	0.84607	0.76261	4.052	0.823	0.4206	0.42963	9.24E+00	7.93E-01	8.81E-05	2.68E-02	1.27E+00	7.73E-02	2.98E+00	2.92E+00	1.15E+01
4658	472863.09	3860377.25	1.32416	0.44326	0.89871	0.7793	3.948	0.866	0.432	0.44326	9.23E+00	8.19E-01	9.36E-05	2.74E-02	1.24E+00	8.14E-02	3.06E+00	3.01E+00	1.14E+01
4659	473363.09	3860377.25	1.32358	0.45114	1.00853	0.79504	3.903	0.901	0.4401	0.45114	9.23E+00	8.33E-01	1.05E-04	2.80E-02	1.22E+00	8.47E-02	3.12E+00	3.07E+00	1.14E+01
4660	473863.09	3860377.25	1.33485	0.45027	1.20719	0.81233	3.761	0.941	0.4411	0.45027	9.31E+00	8.32E-01	1.26E-04	2.86E-02	1.18E+00	8.85E-02	3.13E+00	3.06E+00	1.15E+01
4661	474363.09	3860377.25	1.36952	0.43959	1.20637	0.84398	3.681	0.905	0.4375	0.43959	9.55E+00	8.12E-01	1.26E-04	2.97E-02	1.15E+00	8.51E-02	3.10E+00	2.99E+00	1.17E+01
4662	474863.09	3860377.25	1.40073	0.4132	1.11862	0.84231	3.984	0.812	0.4242	0.4132	9.77E+00	7.63E-01	1.16E-04	2.96E-02	1.25E+00	7.63E-02	3.01E+00	2.81E+00	1.21E+01
4663	475363.09	3860377.25	1.36018	0.35822	0.84369	0.7606	4.639	0.686	0.4082	0.35822	9.48E+00	6.62E-01	8.78E-05	2.68E-02	1.45E+00	6.45E-02	2.89E+00	2.44E+00	1.21E+01
4664	475863.09	3860377.25	1.29565	0.3424	0.69667	0.64765	4.717	0.687	0.372	0.3424	9.03E+00	6.32E-01	7.25E-05	2.28E-02	1.48E+00	6.46E-02	2.64E+00	2.33E+00	1.15E+01
4665	476363.09	3860377.25	1.13116	0.26959	0.6513	0.57975	3.495	0.609	0.2801	0.26959	7.89E+00	4.98E-01	6.78E-05	2.04E-02	1.10E+00	5.73E-02	1.98E+00	1.83E+00	9.71E+00
4666	476863.09	3860377.25	1.07595	0.26228	0.71439	0.55497	3.178	0.593	0.2753	0.26228	7.50E+00	4.84E-01	7.44E-05	1.95E-02	9.96E-01	5.57E-02	1.95E+00	1.78E+00	9.22E+00
4667	477363.09	3860377.25	0.83356	0.23833	0.41415	0.45253	2.147	0.476	0.2331	0.23833	5.81E+00	4.40E-01	4.31E-05	1.59E-02	6.73E-01	4.47E-02	1.65E+00	1.62E+00	7.02E+00
4668	477863.09	3860377.25	0.91514	0.2535	0.54261	0.51739	2.366	0.509	0.255	0.2535	6.38E+00	4.68E-01	5.65E-05	1.82E-02	7.41E-01	4.78E-02	1.81E+00	1.72E+00	7.74E+00
4669	478363.09	3860377.25	1.47325	0.28707	0.63288	0.79723	3.196	0.685	0.2978	0.28707	1.03E+01	5.30E-01	6.59E-05	2.81E-02	1.00E+00	6.44E-02	2.11E+00	1.95E+00	1.21E+01
4670	478863.09	3860377.25	1.87088	0.36844	0.85132	1.14516	4.902	0.807	0.3816	0.36844	1.30E+01	6.80E-01	8.86E-05	4.03E-02	1.54E+00	7.58E-02	2.70E+00	2.51E+00	1.56E+01

4671	479363.09	3860377.25	2.06075	0.45924	1.21225	1.47809	5.936	1	0.4531	0.45924	1.44E+01	8.48E-01	1.26E-04	5.20E-02	1.86E+00	9.40E-02	3.21E+00	3.12E+00	1.73E+01
4672	479863.09	3860377.25	2.07394	0.55116	2.16307	1.6826	7.069	1.251	0.515	0.55116	1.45E+01	1.02E+00	2.25E-04	5.92E-02	2.21E+00	1.18E-01	3.65E+00	3.75E+00	1.78E+01
4673	480363.09	3860377.25	2.02442	0.6436	2.73574	1.65092	7.649	1.47	0.6064	0.6436	1.41E+01	1.19E+00	2.85E-04	5.81E-02	2.40E+00	1.38E-01	4.30E+00	4.38E+00	1.78E+01
4674	480863.09	3860377.25	1.9285	0.7288	2.32075	1.62009	8.009	1.584	0.6828	0.7288	1.34E+01	1.35E+00	2.42E-04	5.70E-02	2.51E+00	1.49E-01	4.84E+00	4.96E+00	1.74E+01
4675	481363.09	3860377.25	1.87386	0.78729	2.85226	1.66136	7.6	1.615	0.7664	0.78729	1.31E+01	1.45E+00	2.97E-04	5.85E-02	2.38E+00	1.52E-01	5.43E+00	5.35E+00	1.72E+01
4676	481863.09	3860377.25	1.8778	0.98302	2.78279	1.84774	6.536	1.701	0.8994	0.98302	1.31E+01	1.82E+00	2.90E-04	6.50E-02	2.05E+00	1.60E-01	6.37E+00	6.68E+00	1.69E+01
4677	482363.09	3860377.25	1.95157	1.05334	3.29223	2.08648	7.598	1.844	0.9475	1.05334	1.36E+01	1.95E+00	3.43E-04	7.34E-02	2.38E+00	1.73E-01	6.71E+00	7.16E+00	1.77E+01
4678	482863.09	3860377.25	2.04376	1.01258	3.14954	2.25904	9.644	2.02	0.9559	1.01258	1.42E+01	1.87E+00	3.28E-04	7.95E-02	3.02E+00	1.90E-01	6.77E+00	6.89E+00	1.93E+01
4679	483363.09	3860377.25	2.17192	1.12788	3.39744	2.19444	9.781	2.152	1.0777	1.12788	1.51E+01	2.08E+00	3.54E-04	7.72E-02	3.06E+00	2.02E-01	7.64E+00	7.67E+00	2.05E+01
4680	483863.09	3860377.25	2.22184	1.20572	4.20523	2.17154	11.01	2.277	1.1534	1.20572	1.55E+01	2.23E+00	4.38E-04	7.64E-02	3.45E+00	2.14E-01	8.17E+00	8.20E+00	2.14E+01
4681	484363.09	3860377.25	2.13565	1.32186	3.90444	2.26169	11.04	2.419	1.2995	1.32186	1.49E+01	2.44E+00	4.06E-04	7.96E-02	3.46E+00	2.27E-01	9.21E+00	8.99E+00	2.13E+01
4682	484863.09	3860377.25	2.42426	1.37551	4.1346	2.48266	10.5	2.608	1.3452	1.37551	1.69E+01	2.54E+00	4.30E-04	8.74E-02	3.29E+00	2.45E-01	9.53E+00	9.35E+00	2.32E+01
4683	485363.09	3860377.25	2.6462	1.41062	3.33659	2.98042	7.96	2.906	1.3699	1.41062	1.84E+01	2.61E+00	3.47E-04	1.05E-01	2.49E+00	2.73E-01	9.71E+00	9.59E+00	2.40E+01
4684	485863.09	3860377.25	2.92653	1.45963	4.7789	2.97344	10.31	2.975	1.4045	1.45963	2.04E+01	2.70E+00	4.98E-04	1.05E-01	3.23E+00	2.80E-01	9.95E+00	9.93E+00	2.67E+01
4685	486363.09	3860377.25	3.55671	1.60106	4.31772	2.77319	9.422	3.56	1.4688	1.60106	2.48E+01	2.96E+00	4.50E-04	9.76E-02	2.95E+00	3.35E-01	1.04E+01	1.09E+01	3.07E+01
4686	486863.09	3860377.25	4.16818	1.76668	4.08054	3.45407	11.13	4.192	1.6133	1.76668	2.91E+01	3.26E+00	4.25E-04	1.22E-01	3.49E+00	3.94E-01	1.14E+01	1.20E+01	3.57E+01
4687	487363.09	3860377.25	5.99774	1.87815	5.46918	3.94811	11.64	5.988	1.749	1.87815	4.18E+01	3.47E+00	5.69E-04	1.39E-01	3.65E+00	5.63E-01	1.24E+01	1.28E+01	4.93E+01
4688	487863.09	3860377.25	8.81621	2.2299	3.81075	4.53051	7.437	7.421	2.0209	2.2299	6.15E+01	4.12E+00	3.97E-04	1.59E-01	2.33E+00	6.98E-01	1.43E+01	1.52E+01	6.79E+01
4689	488363.09	3860377.25	9.82032	2.67768	6.14143	5.225	6.407	11	2.5191	2.67768	6.85E+01	4.95E+00	6.39E-04	1.84E-01	2.01E+00	1.03E+00	1.78E+01	1.82E+01	7.63E+01
4690	488863.09	3860377.25	8.80551	3.39196	7.19113	7.42665	6.754	5.562	3.3405	3.39196	6.14E+01	6.26E+00	7.49E-04	2.61E-01	2.12E+00	5.23E-01	2.37E+01	2.31E+01	7.12E+01
4691	489363.09	3860377.25	6.88892	3.9519	9.45357	8.94956	13.18	3.99	3.9204	3.9519	4.80E+01	7.30E+00	9.84E-04	3.15E-01	4.13E+00	3.75E-01	2.78E+01	2.69E+01	6.11E+01
4692	489863.09	3860377.25	4.71758	3.42366	7.57673	4.40508	15.29	3.985	3.4025	3.42366	3.29E+01	6.32E+00	7.89E-04	1.55E-01	4.79E+00	3.75E-01	2.41E+01	2.33E+01	4.54E+01
4693	490363.09	3860377.25	4.58587	2.98226	6.39289	5.05786	12.2	4.326	3.4055	2.98226	3.20E+01	5.51E+00	6.66E-04	1.78E-01	3.82E+00	4.07E-01	2.41E+01	2.03E+01	4.57E+01
4694	490863.09	3860377.25	4.39011	3.97767	8.07427	5.93286	7.21	4.462	4.3367	3.97767	3.06E+01	7.35E+00	8.41E-04	2.09E-01	2.26E+00	4.19E-01	3.07E+01	2.70E+01	4.45E+01
4695	491363.09	3860377.25	4.95199	7.28456	11.72885	7.15365	6.824	5.117	6.7464	7.28456	3.45E+01	1.35E+01	1.22E-03	2.52E-01	2.14E+00	4.81E-01	4.78E+01	4.95E+01	4.91E+01
4696	491863.09	3860377.25	6.42131	7.6504	8.50395	10.64711	7.209	7.708	7.3751	7.6504	4.48E+01	1.41E+01	8.85E-04	3.75E-01	2.26E+00	7.24E-01	5.23E+01	5.20E+01	6.25E+01
4697	492363.09	3860377.25	4.1268	4.46462	7.10843	10.2257	9.828	13.59	4.4048	4.46462	2.88E+01	8.25E+00	7.40E-04	3.60E-01	3.08E+00	1.28E+00	3.12E+01	3.04E+01	4.26E+01
4698	492863.09	3860377.25	3.39602	3.38341	5.86749	8.23444	10.77	18.61	3.2988	3.38341	2.37E+01	6.25E+00	6.11E-04	2.90E-01	3.37E+00	1.75E+00	2.34E+01	2.30E+01	3.57E+01
4699	493363.09	3860377.25	3.05659	2.55868	5.8221	6.22496	9.984	11.78	2.395	2.55868	2.13E+01	4.73E+00	6.06E-04	2.19E-01	3.13E+00	1.11E+00	1.70E+01	1.74E+01	3.01E+01
4700	493863.09	3860377.25	2.72294	2.05134	5.41352	4.08987	7.033	11.46	1.8251	2.05134	1.90E+01	3.79E+00	5.64E-04	1.44E-01	2.20E+00	1.08E+00	1.29E+01	1.39E+01	2.52E+01
4701	494363.09	3860377.25	2.63382	1.84371	4.63179	3.45067	5.528	11.69	1.5732	1.84371	1.84E+01	3.41E+00	4.82E-04	1.21E-01	1.73E+00	1.10E+00	1.11E+01	1.25E+01	2.33E+01
4702	494863.09	3860377.25	2.49743	1.64012	4.18778	2.92295	6.156	9.181	1.4476	1.64012	1.74E+01	3.03E+00	4.36E-04	1.03E-01	1.93E+00	8.63E-01	1.03E+01	1.12E+01	2.24E+01
4703	495363.09	3860377.25	2.51476	1.44809	3.50641	2.6867	6.614	6.907	1.3194	1.44809	1.75E+01	2.67E+00	3.65E-04	9.46E-02	2.07E+00	6.49E-01	9.35E+00	9.85E+00	2.25E+01
4704	495863.09	3860377.25	2.60237	1.13436	2.56872	2.37102	6.293	4.691	1.1195	1.13436	1.81E+01	2.10E+00	2.67E-04	8.35E-02	1.97E+00	4.41E-01	7.93E+00	7.71E+00	2.30E+01
4705	496363.09	3860377.25	2.63062	0.96214	1.94211	1.86929	6.38	2.704	0.9655	0.96214	1.83E+01	1.78E+00	2.02E-04	6.58E-02	2.00E+00	2.54E-01	6.84E+00	6.54E+00	2.27E+01
4706	496863.09	3860377.25	2.59069	0.81481	1.55229	1.49759	6.335	2.089	0.8493	0.81481	1.81E+01	1.50E+00	1.62E-04	5.27E-02	1.98E+00	1.96E-01	6.02E+00	5.54E+00	2.23E+01
4707	497363.09	3860377.25	2.51926	0.66059	1.25223	1.29715	4.858	1.705	0.6712	0.66059	1.76E+01	1.22E+00	1.30E-04	4.57E-02	1.52E+00	1.60E-01	4.76E+00	4.49E+00	2.08E+01
4708	497863.09	3860377.25	2.43482	0.70551	1.55157	1.9004	5.445	2.241	0.6513	0.70551	1.70E+01	1.30E+00	1.62E-04	6.69E-02	1.71E+00	2.11E-01	4.61E+00	4.80E+00	2.01E+01
4709	498363.09	3860377.25	2.27233	0.93312	1.8777	2.0356	5.381	2.718	0.8772	0.93312	1.58E+01	1.72E+00	1.95E-04	7.16E-02	1.69E+00	2.55E-01	6.21E+00	6.35E+00	1.94E+01
4710	471363.09	3860877.25	1.24117	0.40931	0.92665	0.70727	3.295	0.811	0.4006	0.40931	8.65E+00	7.56E-01	9.65E-05	2.49E-02	1.03E+00	7.62E-02	2.84E+00	2.78E+00	1.06E+01
4711	471863.09	3860877.25	1.24372	0.41896	0.99578	0.73177	3.087	0.85	0.4095	0.41896	8.67E+00	7.74E-01	1.04E-04	2.58E-02	9.67E-01	7.99E-02	2.90E+00	2.85E+00	1.06E+01
4712	472363.09	3860877.25	1.24549	0.42979	1.09263	0.75999	2.924	0.883	0.4206	0.42979	8.68E+00	7.94E-01	1.14E-04	2.67E-02	9.16E-01	8.30E-02	2.98E+00	2.92E+00	1.06E+01
4713	472863.09	3860877.25	1.24132	0.44341	1.1629	0.79049	3.335	0.93	0.4337	0.44341	8.65E+00	8.19E-01	1.21E-04	2.78E-02	1.04E+00	8.74E-02	3.07E+00	3.02E+00	1.07E+01
4714	473363.09	3860877.25	1.25082	0.44865	1.1894	0.83034	4.082	0.959	0.4374	0.44865	8.72E+00	8.29E-01	1.24E-04	2.92E-02	1.28E+00	9.02E-02	3.10E+00	3.05E+00	1.10E+01
4715	473863.09	3860877.25	1.26818	0.447	1.2168	0.88045	4.771	0.959	0.4321	0.447	8.84E+00	8.26E-01	1.27E-04	3.10E-02	1.49E+00	9.02E-02	3.06E+00	3.04E+00	1.13E+01
4716	474363.09	3860877.25	1.29441	0.44295	1.17499	0.96347	5.307	0.935	0.4247	0.44295	9.02E+00	8.18E-01	1.22E-04	3.39E-02	1.66E+00	8.79E-02	3.01E+00	3.01E+00	1.16E+01
4717	474863.09	3860877.25	1.31368	0.44964	0.96422	1.05491	5.481	0.917	0.4251	0.44964	9.16E+00	8.30E-01	1.00E-04	3.71E-02	1.72E+00	8.62E-02	3.01E+00	3.06E+00	1.18E+01
4718	475363.09	3860877.25	1.38246	0.44435	0.81691	1.13897	5.285	0.862	0.4175	0.44435	9.64E+00	8.21E-01	8.50E-05	4.01E-02	1.66E+00	8.10E-02	2.96E+00	3.02E+00	1.22E+01
4719	475863.09	3860877.25	1.43281	0.42238	0.97254	1.16682	4.59	0.776	0.4218	0.42238	9.99E+00	7.80E-01	1.01E-04	4.11E-02	1.44E+00	7.30E-02	2.99E+00	2.87E+00	1.24E+01
4720	476363.09	3860877.25	1.44015	0.36028	0.97537	1.076	3.786	0.732	0.4061	0.36028	1.00E+01	6.65E-01	1.02E-04	3.79E-02	1.19E+00	6.88E-02	2.88E+00	2.45E+00	1.24E+01
4721	476863.09	3860877.25	1.48184	0.36083	0.77004	0.98158	3.791	0.719	0.3816	0.36083	1.03E+01	6.66E-01	8.02E-05	3.45E-02	1.19E+00	6.76E-02	2.70E+00	2.45E+00	1.25E+01
4722	477363.09	3860877.25	1.58862	0.36931	0.70156	0.97587	4.057	0.739	0.3814	0.36931	1.11E+01	6.82E-01	7.30E-05	3.43E-02	1.27E+00	6.94E-02	2.70E+00	2.51E+00	1.33E+01
4723	477863.09	3860877.25	1.55556	0.30481	0.57919	0.8627	3.503	0.707	0.3155	0.30481	1.08E+01	5.63E-01	6.03E-05	3.04E-02	1.10E+00	6.64E-02	2.24E+00	2.07E+00	1.28E+01
4724	478363.09	3860877.25	1.13739	0.24671	0.49289	0.6782	2.611	0.585	0.2531	0.24671	7.93E+00	4.56E-01	5.13E-05	2.39E-02	8.18E-01	5.50E-02	1.79E+00	1.68E+00	9.40E+00
4725	478863.09	3860877.25	1.8295	0.36214	1.09218	0.94513	4.798	0.746	0.3661	0.36214	1.28E+01	6.69E-01	1.14E-04	3.33E-02	1.50E+00	7.01E-02	2.59E+00	2.46E+00	1.52E+01
4726	479363.09	3860877.25	1.97793	0.48363	1.73987	1.1985	6.947	1	0.4616	0.48363	1.38E+01	8.93E-01	1.81E-04	4.22E-02	2.18E+00	9.40E-02	3.27E+00	3.29E+00	1.70E+01
4727	479863.09	3860877.25	1.90772	0.54944	2.16358	1.50424	7.448	1.249	0.5273	0.54944	1.33E+01	1.01E+00	2.25E-04	5.29E-02	2.33E+00	1.17E-01	3.74E+00	3.74E+00	1.68E+01

4728	480363.09	3860877.25	1.77649	0.60523	2.40369	1.7531	6.479	1.42	0.5898	0.60523	1.24E+01	1.12E+00	2.50E-04	6.17E-02	2.03E+00	1.34E-01	4.18E+00	4.12E+00	1.58E+01
4729	480863.09	3860877.25	1.66935	0.63247	2.18465	1.86681	5.51	1.573	0.6129	0.63247	1.16E+01	1.17E+00	2.27E-04	6.57E-02	1.73E+00	1.48E-01	4.34E+00	4.30E+00	1.48E+01
4730	481363.09	3860877.25	1.63036	0.6844	2.82987	1.88559	5.604	1.71	0.6494	0.6844	1.14E+01	1.26E+00	2.95E-04	6.64E-02	1.76E+00	1.61E-01	4.60E+00	4.65E+00	1.46E+01
4731	481863.09	3860877.25	1.65887	0.81008	2.5554	1.80245	7.791	1.783	0.7066	0.81008	1.16E+01	1.50E+00	2.66E-04	6.34E-02	2.44E+00	1.68E-01	5.01E+00	5.51E+00	1.52E+01
4732	482363.09	3860877.25	1.81007	0.80409	3.30416	1.76344	8.407	1.881	0.6887	0.80409	1.26E+01	1.49E+00	3.44E-04	6.21E-02	2.63E+00	1.77E-01	4.88E+00	5.47E+00	1.64E+01
4733	482863.09	3860877.25	1.96423	0.74161	3.29428	1.84632	8.61	1.931	0.7033	0.74161	1.37E+01	1.37E+00	3.43E-04	6.50E-02	2.70E+00	1.82E-01	4.98E+00	5.04E+00	1.79E+01
4734	483363.09	3860877.25	2.0869	0.79969	2.88763	1.98657	9.59	2.194	0.7576	0.79969	1.45E+01	1.48E+00	3.01E-04	6.99E-02	3.00E+00	2.06E-01	5.37E+00	5.44E+00	1.92E+01
4735	483863.09	3860877.25	2.09242	0.87958	3.7876	2.27856	10.23	2.456	0.8297	0.87958	1.46E+01	1.62E+00	3.94E-04	8.02E-02	3.21E+00	2.31E-01	5.88E+00	5.98E+00	1.96E+01
4736	484363.09	3860877.25	2.10849	0.94696	3.95981	2.53771	9.402	2.552	0.9336	0.94696	1.47E+01	1.75E+00	4.12E-04	8.93E-02	2.95E+00	2.40E-01	6.61E+00	6.44E+00	1.99E+01
4737	484863.09	3860877.25	2.36062	1.11271	3.01029	2.3751	6.405	2.595	1.0981	1.11271	1.65E+01	2.06E+00	3.13E-04	8.36E-02	2.01E+00	2.44E-01	7.78E+00	7.57E+00	2.11E+01
4738	485363.09	3860877.25	2.46152	1.23975	3.85471	2.10093	8.243	2.756	1.225	1.23975	1.72E+01	2.29E+00	4.01E-04	7.39E-02	2.58E+00	2.59E-01	8.68E+00	8.43E+00	2.26E+01
4739	485863.09	3860877.25	2.45938	1.36839	4.74485	2.61796	9.289	3.06	1.3518	1.36839	1.71E+01	2.53E+00	4.94E-04	9.21E-02	2.91E+00	2.88E-01	9.58E+00	9.30E+00	2.32E+01
4740	486363.09	3860877.25	2.89954	1.6145	4.98059	2.97685	7.577	3.537	1.5251	1.6145	2.02E+01	2.98E+00	5.19E-04	1.05E-01	2.37E+00	3.32E-01	1.08E+01	1.10E+01	2.58E+01
4741	486863.09	3860877.25	3.58933	1.83315	4.08548	3.21394	10.09	4.113	1.7067	1.83315	2.50E+01	3.39E+00	4.25E-04	1.13E-01	3.16E+00	3.87E-01	1.21E+01	1.25E+01	3.17E+01
4742	487363.09	3860877.25	4.34322	1.98111	3.75373	3.60217	10.43	4.827	1.855	1.98111	3.03E+01	3.66E+00	3.91E-04	1.27E-01	3.27E+00	4.54E-01	1.31E+01	1.35E+01	3.75E+01
4743	487863.09	3860877.25	5.82429	2.11344	4.63782	3.82897	6.025	6.692	1.9824	2.11344	4.06E+01	3.90E+00	4.83E-04	1.35E-01	1.89E+00	6.29E-01	1.40E+01	1.44E+01	4.68E+01
4744	488363.09	3860877.25	8.94124	2.37379	5.32119	4.40906	5.226	8.981	2.1027	2.37379	6.23E+01	4.38E+00	5.54E-04	1.55E-01	1.64E+00	8.44E-01	1.49E+01	1.61E+01	6.81E+01
4745	488863.09	3860877.25	8.57505	2.60742	7.78884	6.25978	5.435	5.303	2.287	2.60742	5.98E+01	4.82E+00	8.11E-04	2.20E-01	1.70E+00	4.98E-01	1.62E+01	1.77E+01	6.55E+01
4746	489363.09	3860877.25	7.06263	2.49562	6.67356	8.37383	7.097	3.925	2.3623	2.49562	4.92E+01	4.61E+00	6.95E-04	2.95E-01	2.22E+00	3.69E-01	1.67E+01	1.70E+01	5.65E+01
4747	489863.09	3860877.25	4.43416	2.83263	5.20139	3.77463	12.4	3.158	2.9289	2.83263	3.09E+01	5.23E+00	5.41E-04	1.33E-01	3.88E+00	2.97E-01	2.08E+01	1.93E+01	4.20E+01
4748	490363.09	3860877.25	3.87706	3.71072	4.54503	3.33803	12.18	3.026	3.7421	3.71072	2.70E+01	6.85E+00	4.73E-04	1.17E-01	3.82E+00	2.84E-01	2.65E+01	2.52E+01	3.94E+01
4749	490863.09	3860877.25	3.88427	4.93161	4.66306	4.00516	9.622	3.282	5.0654	4.93161	2.71E+01	9.11E+00	4.85E-04	1.41E-01	3.01E+00	3.08E-01	3.59E+01	3.35E+01	4.20E+01
4750	491363.09	3860877.25	3.76287	6.15096	5.02755	4.28794	5.676	3.619	6.4409	6.15096	2.62E+01	1.14E+01	5.23E-04	1.51E-01	1.78E+00	3.40E-01	4.56E+01	4.18E+01	4.37E+01
4751	491863.09	3860877.25	3.96057	6.50273	7.20942	4.25536	5.695	3.718	6.5271	6.50273	2.76E+01	1.20E+01	7.51E-04	1.50E-01	1.78E+00	3.49E-01	4.62E+01	4.42E+01	4.39E+01
4752	492363.09	3860877.25	4.55773	10.63502	8.2072	5.8546	5.021	4.094	10.128	10.63502	3.18E+01	1.96E+01	8.54E-04	2.06E-01	1.57E+00	3.85E-01	7.18E+01	7.23E+01	5.30E+01
4753	492863.09	3860877.25	3.94974	4.37951	6.05857	6.56292	6.761	4.952	4.1908	4.37951	2.75E+01	8.09E+00	6.31E-04	2.31E-01	2.12E+00	4.65E-01	2.97E+01	2.98E+01	3.84E+01
4754	493363.09	3860877.25	3.12561	3.2974	5.30348	4.65015	8.296	5.624	3.0393	3.2974	2.18E+01	6.09E+00	5.52E-04	1.64E-01	2.60E+00	5.29E-01	2.15E+01	2.24E+01	3.03E+01
4755	493863.09	3860877.25	2.6521	2.51938	4.18199	3.72901	8.632	5.259	2.4463	2.51938	1.85E+01	4.65E+00	4.35E-04	1.31E-01	2.70E+00	4.94E-01	1.73E+01	1.71E+01	2.67E+01
4756	494363.09	3860877.25	2.39492	2.1982	3.71687	3.2672	7.412	4.898	2.1393	2.1982	1.67E+01	4.06E+00	3.87E-04	1.15E-01	2.32E+00	4.60E-01	1.52E+01	1.49E+01	2.39E+01
4757	494863.09	3860877.25	2.27609	1.94145	3.83613	3.37962	5.282	5.239	1.8207	1.94145	1.59E+01	3.59E+00	3.99E-04	1.19E-01	1.65E+00	4.92E-01	1.29E+01	1.32E+01	2.14E+01
4758	495363.09	3860877.25	2.21404	1.68647	3.9039	3.11166	4.306	5.131	1.5333	1.68647	1.54E+01	3.11E+00	4.06E-04	1.10E-01	1.35E+00	4.82E-01	1.09E+01	1.15E+01	1.99E+01
4759	495863.09	3860877.25	2.12746	1.47204	3.73219	2.67455	4.639	4.825	1.3861	1.47204	1.48E+01	2.72E+00	3.89E-04	9.41E-02	1.45E+00	4.54E-01	9.82E+00	1.00E+01	1.94E+01
4760	496363.09	3860877.25	2.18305	1.3921	3.48971	2.55691	5.44	4.564	1.181	1.3921	1.52E+01	2.57E+00	3.63E-04	9.00E-02	1.70E+00	4.29E-01	8.37E+00	9.47E+00	1.89E+01
4761	496863.09	3860877.25	2.3126	1.1206	2.68739	2.2677	5.805	3.578	1.0145	1.1206	1.61E+01	2.07E+00	2.80E-04	7.98E-02	1.82E+00	3.36E-01	7.19E+00	7.62E+00	2.00E+01
4762	497363.09	3860877.25	2.26689	1.01269	2.51068	2.05217	4.945	3.033	0.889	1.01269	1.58E+01	1.87E+00	2.61E-04	7.22E-02	1.55E+00	2.85E-01	6.30E+00	6.89E+00	1.90E+01
4763	497863.09	3860877.25	2.26097	0.8822	2.15372	1.83514	5.166	2.754	0.7878	0.8822	1.58E+01	1.63E+00	2.24E-04	6.46E-02	1.62E+00	2.59E-01	5.58E+00	6.00E+00	1.89E+01
4764	498363.09	3860877.25	2.17199	0.99509	2.22215	1.84998	4.285	3.005	0.8942	0.99509	1.51E+01	1.84E+00	2.31E-04	6.51E-02	1.34E+00	2.82E-01	6.34E+00	6.77E+00	1.82E+01
4765	471363.09	3861377.25	1.17659	0.40132	1.03854	0.79857	3.465	0.852	0.3876	0.40132	8.20E+00	7.41E-01	1.08E-04	2.81E-02	1.09E+00	8.01E-02	2.75E+00	2.73E+00	1.02E+01
4766	471863.09	3861377.25	1.1839	0.40789	1.02847	0.85881	4.021	0.861	0.3949	0.40789	8.25E+00	7.53E-01	1.07E-04	3.02E-02	1.26E+00	8.10E-02	2.80E+00	2.77E+00	1.04E+01
4767	472363.09	3861377.25	1.19444	0.41545	0.97348	0.91701	4.445	0.875	0.4037	0.41545	8.33E+00	7.67E-01	1.01E-04	3.23E-02	1.39E+00	8.23E-02	2.86E+00	2.82E+00	1.06E+01
4768	472863.09	3861377.25	1.20174	0.4254	0.91138	0.96001	4.443	0.887	0.4117	0.4254	8.38E+00	7.86E-01	9.49E-05	3.38E-02	1.39E+00	8.34E-02	2.92E+00	2.89E+00	1.07E+01
4769	473363.09	3861377.25	1.21638	0.43181	1.00949	1.00347	4.469	0.887	0.4166	0.43181	8.48E+00	7.98E-01	1.05E-04	3.53E-02	1.40E+00	8.34E-02	2.95E+00	2.94E+00	1.08E+01
4770	473863.09	3861377.25	1.23629	0.43471	1.05559	1.04632	4.451	0.904	0.418	0.43471	8.62E+00	8.03E-01	1.10E-04	3.68E-02	1.39E+00	8.49E-02	2.96E+00	2.96E+00	1.09E+01
4771	474363.09	3861377.25	1.25321	0.44421	1.02097	1.07164	3.982	0.968	0.4266	0.44421	8.74E+00	8.20E-01	1.06E-04	3.77E-02	1.25E+00	9.10E-02	3.02E+00	3.02E+00	1.09E+01
4772	474863.09	3861377.25	1.29918	0.45425	0.97405	1.12216	3.492	1.013	0.4335	0.45425	9.06E+00	8.39E-01	1.01E-04	3.95E-02	1.09E+00	9.53E-02	3.07E+00	3.09E+00	1.11E+01
4773	475363.09	3861377.25	1.32161	0.46652	1.072	1.13053	3.677	1.094	0.4457	0.46652	9.21E+00	8.62E-01	1.12E-04	3.98E-02	1.15E+00	1.03E-01	3.16E+00	3.17E+00	1.14E+01
4774	475863.09	3861377.25	1.38788	0.47064	1.20215	1.12797	3.984	1.094	0.4427	0.47064	9.68E+00	8.69E-01	1.25E-04	3.97E-02	1.25E+00	1.03E-01	3.14E+00	3.20E+00	1.19E+01
4775	476363.09	3861377.25	1.47541	0.45259	1.43518	1.08929	4.251	1.038	0.4314	0.45259	1.03E+01	8.36E-01	1.49E-04	3.83E-02	1.33E+00	9.76E-02	3.06E+00	3.08E+00	1.26E+01
4776	476863.09	3861377.25	1.57495	0.43316	1.51409	1.02942	4.626	0.997	0.4253	0.43316	1.10E+01	8.00E-01	1.58E-04	3.62E-02	1.45E+00	9.37E-02	3.01E+00	2.95E+00	1.34E+01
4777	477363.09	3861377.25	1.659	0.42732	1.0915	1.05092	4.936	0.96	0.4234	0.42732	1.16E+01	7.89E-01	1.14E-04	3.70E-02	1.55E+00	9.02E-02	3.00E+00	2.91E+00	1.41E+01
4778	477863.09	3861377.25	1.66013	0.36496	0.97287	1.02653	4.891	0.719	0.3723	0.36496	1.16E+01	6.74E-01	1.01E-04	3.61E-02	1.53E+00	6.76E-02	2.64E+00	2.48E+00	1.40E+01
4779	478363.09	3861377.25	1.30569	0.25672	0.76697	0.77823	2.956	0.598	0.2713	0.25672	9.10E+00	4.74E-01	7.98E-05	2.74E-02	9.26E-01	5.62E-02	1.92E+00	1.75E+00	1.08E+01
4780	478863.09	3861377.25	1.49569	0.2686	0.7639	1.00649	3.472	0.668	0.2689	0.2686	1.04E+01	4.96E-01	7.95E-05	3.54E-02	1.09E+00	6.28E-02	1.91E+00	1.83E+00	1.22E+01
4781	479363.09	3861377.25	1.80346	0.46727	1.36578	1.59662	5.518	0.939	0.4482	0.46727	1.26E+01	8.63E-01	1.42E-04	5.62E-02	1.73E+00	8.83E-02	3.18E+00	3.18E+00	1.53E+01
4782	479863.09	3861377.25	1.68343	0.52898	1.9859	1.59863	4.769	1.278	0.5203	0.52898	1.17E+01	9.77E-01	2.07E-04	5.63E-02	1.49E+00	1.20E-01	3.69E+00	3.60E+00	1.45E+01
4783	480363.09	3861377.25	1.5457	0.6301	2.09869	1.50491	4.713	1.511	0.6066	0.6301	1.08E+01	1.16E+00	2.18E-04	5.30E-02	1.48E+00	1.42E-01	4.30E+00	4.28E+00	1.36E+01
4784	480863.09	3861377.25	1.47055	0.66095	1.76481	1.47767	6.07	1.56	0.6378	0.66095	1.03E+01	1.22E+00	1.84E-04	5.20E-02	1.90E+00	1.47E-01	4.52E+00	4.49E+00	1.36E+01

4785	481363.09	3861377.25	1.4558	0.72317	2.04374	1.46109	7.356	1.648	0.6774	0.72317	1.01E+01	1.34E+00	2.13E-04	5.14E-02	2.30E+00	1.55E-01	4.80E+00	4.92E+00	1.39E+01
4786	481863.09	3861377.25	1.50734	0.83043	2.35899	1.54467	7.412	1.714	0.7232	0.83043	1.05E+01	1.53E+00	2.46E-04	5.44E-02	2.32E+00	1.61E-01	5.12E+00	5.65E+00	1.41E+01
4787	482363.09	3861377.25	1.70331	0.79691	2.65987	1.75076	7.268	1.833	0.6928	0.79691	1.19E+01	1.47E+00	2.77E-04	6.16E-02	2.28E+00	1.72E-01	4.91E+00	5.42E+00	1.53E+01
4788	482863.09	3861377.25	1.81704	0.73627	3.0234	2.05336	8.295	2.083	0.663	0.73627	1.27E+01	1.36E+00	3.15E-04	7.23E-02	2.60E+00	1.96E-01	4.70E+00	5.01E+00	1.66E+01
4789	483363.09	3861377.25	1.92623	0.7568	2.66491	2.14658	9.036	2.166	0.6769	0.7568	1.34E+01	1.40E+00	2.77E-04	7.56E-02	2.83E+00	2.04E-01	4.80E+00	5.15E+00	1.76E+01
4790	483863.09	3861377.25	1.97069	0.7683	3.83437	2.0458	8.322	2.257	0.6923	0.7683	1.37E+01	1.42E+00	3.99E-04	7.20E-02	2.61E+00	2.12E-01	4.91E+00	5.22E+00	1.77E+01
4791	484363.09	3861377.25	1.99126	0.788	2.98047	1.7977	6.005	2.478	0.7253	0.788	1.39E+01	1.46E+00	3.10E-04	6.33E-02	1.88E+00	2.33E-01	5.14E+00	5.36E+00	1.73E+01
4792	484863.09	3861377.25	2.05687	0.76699	2.758	1.91754	6.708	2.189	0.7531	0.76699	1.43E+01	1.42E+00	2.87E-04	6.75E-02	2.10E+00	2.06E-01	5.34E+00	5.22E+00	1.83E+01
4793	485363.09	3861377.25	2.11889	0.82738	3.26855	2.40193	8.244	2.126	0.8133	0.82738	1.48E+01	1.53E+00	3.40E-04	8.45E-02	2.58E+00	2.00E-01	5.76E+00	5.63E+00	1.93E+01
4794	485863.09	3861377.25	2.16734	0.88199	2.95956	2.60575	7.128	2.236	0.8651	0.88199	1.51E+01	1.63E+00	3.08E-04	9.17E-02	2.23E+00	2.10E-01	6.13E+00	6.00E+00	1.94E+01
4795	486363.09	3861377.25	2.40449	0.9851	2.83768	2.77884	7.661	2.617	0.9339	0.9851	1.68E+01	1.82E+00	2.95E-04	9.78E-02	2.40E+00	2.46E-01	6.62E+00	6.70E+00	2.12E+01
4796	486863.09	3861377.25	2.8311	1.16439	3.7055	3.0406	8.405	2.513	1.0266	1.16439	1.97E+01	2.15E+00	3.86E-04	1.07E-01	2.63E+00	2.36E-01	7.27E+00	7.92E+00	2.42E+01
4797	487363.09	3861377.25	3.27675	1.26233	4.37305	3.20166	9.829	3.391	1.1013	1.26233	2.28E+01	2.33E+00	4.55E-04	1.13E-01	3.08E+00	3.19E-01	7.80E+00	8.58E+00	2.79E+01
4798	487863.09	3861377.25	3.70436	1.30234	3.88981	3.25919	5.107	3.2	1.1971	1.30234	2.58E+01	2.41E+00	4.05E-04	1.15E-01	1.60E+00	3.01E-01	8.48E+00	8.86E+00	2.99E+01
4799	488363.09	3861377.25	5.49877	1.51145	4.1424	3.7321	4.242	4.574	1.3905	1.51145	3.83E+01	2.79E+00	4.31E-04	1.31E-01	1.33E+00	4.30E-01	9.85E+00	1.03E+01	4.26E+01
4800	488863.09	3861377.25	6.79174	1.84866	4.44032	6.36391	4.798	4.501	1.6191	1.84866	4.74E+01	3.41E+00	4.62E-04	2.24E-01	1.50E+00	4.23E-01	1.15E+01	1.26E+01	5.18E+01
4801	489363.09	3861377.25	6.43134	2.1782	3.32383	8.39525	3.978	3.221	1.9291	2.1782	4.48E+01	4.02E+00	3.46E-04	2.95E-01	1.25E+00	3.03E-01	1.37E+01	1.48E+01	4.96E+01
4802	489863.09	3861377.25	4.88012	2.34895	3.77564	3.68205	8.824	2.832	2.3123	2.34895	3.40E+01	4.34E+00	3.93E-04	1.30E-01	2.76E+00	2.66E-01	1.64E+01	1.60E+01	4.19E+01
4803	490363.09	3861377.25	3.38076	2.68187	3.35847	2.78758	10.16	2.717	2.809	2.68187	2.36E+01	4.95E+00	3.50E-04	9.81E-02	3.18E+00	2.55E-01	1.99E+01	1.82E+01	3.37E+01
4804	490863.09	3861377.25	3.27068	3.21225	3.77612	2.95991	9.786	2.533	3.3636	3.21225	2.28E+01	5.93E+00	3.93E-04	1.04E-01	3.07E+00	2.38E-01	2.38E+01	2.18E+01	3.41E+01
4805	491363.09	3861377.25	3.33482	3.81645	3.30252	3.20913	7.69	2.656	3.9199	3.81645	2.32E+01	7.05E+00	3.44E-04	1.13E-01	2.41E+00	2.50E-01	2.78E+01	2.60E+01	3.49E+01
4806	491863.09	3861377.25	3.3265	4.60369	3.57576	3.43145	4.633	2.771	4.8381	4.60369	2.32E+01	8.50E+00	3.72E-04	1.21E-01	1.45E+00	2.60E-01	3.43E+01	3.13E+01	3.65E+01
4807	492363.09	3861377.25	3.35346	6.19012	4.18278	3.18284	4.72	2.937	6.2519	6.19012	2.34E+01	1.14E+01	4.35E-04	1.12E-01	1.48E+00	2.76E-01	4.43E+01	4.21E+01	3.89E+01
4808	492863.09	3861377.25	3.63796	11.40736	6.53843	3.81932	4.005	2.888	11.661	11.40736	2.54E+01	2.11E+01	6.81E-04	1.34E-01	1.26E+00	2.71E-01	8.26E+01	7.76E+01	5.31E+01
4809	493363.09	3861377.25	3.68214	12.16492	6.25768	4.8909	5.115	3.409	11.628	12.16492	2.57E+01	2.25E+01	6.51E-04	1.72E-01	1.60E+00	3.20E-01	8.24E+01	8.27E+01	4.99E+01
4810	493863.09	3861377.25	3.15613	5.75651	4.73203	4.31344	6.333	3.576	5.6764	5.75651	2.20E+01	1.06E+01	4.93E-04	1.52E-01	1.98E+00	3.36E-01	4.02E+01	3.91E+01	3.62E+01
4811	494363.09	3861377.25	2.64796	4.04327	3.89253	3.17034	6.715	3.367	4.0316	4.04327	1.85E+01	7.47E+00	4.05E-04	1.12E-01	2.10E+00	3.16E-01	2.86E+01	2.75E+01	2.95E+01
4812	494863.09	3861377.25	2.28512	3.09454	3.428	2.90614	6.881	3.371	3.0945	3.09454	1.59E+01	5.72E+00	3.57E-04	1.02E-01	2.16E+00	3.17E-01	2.19E+01	2.10E+01	2.51E+01
4813	495363.09	3861377.25	2.02392	2.60726	2.83864	2.38284	5.756	2.95	2.6174	2.60726	1.41E+01	4.82E+00	2.96E-04	8.39E-02	1.80E+00	2.77E-01	1.85E+01	1.77E+01	2.19E+01
4814	495863.09	3861377.25	1.88701	2.32303	2.57093	2.06385	4.057	2.901	2.3279	2.32303	1.32E+01	4.29E+00	2.68E-04	7.26E-02	1.27E+00	2.73E-01	1.65E+01	1.58E+01	1.98E+01
4815	496363.09	3861377.25	1.87295	2.00785	2.6885	2.01473	3.407	3.028	2.0193	2.00785	1.31E+01	3.71E+00	2.80E-04	7.09E-02	1.07E+00	2.85E-01	1.43E+01	1.37E+01	1.88E+01
4816	496863.09	3861377.25	1.88619	1.52419	2.95292	2.14055	3.645	3.374	1.4397	1.52419	1.31E+01	2.82E+00	3.07E-04	7.53E-02	1.14E+00	3.17E-01	1.02E+01	1.04E+01	1.73E+01
4817	497363.09	3861377.25	1.86868	1.37414	2.97792	2.06292	4.422	3.585	1.2743	1.37414	1.30E+01	2.54E+00	3.10E-04	7.26E-02	1.39E+00	3.37E-01	9.03E+00	9.34E+00	1.70E+01
4818	497863.09	3861377.25	1.87567	1.29523	2.90099	1.95191	4.546	3.476	1.1976	1.29523	1.31E+01	2.39E+00	3.02E-04	6.87E-02	1.42E+00	3.27E-01	8.49E+00	8.81E+00	1.70E+01
4819	498363.09	3861377.25	1.88461	1.23629	2.75643	2.00679	4.072	3.25	1.1497	1.23629	1.31E+01	2.28E+00	2.87E-04	7.06E-02	1.28E+00	3.05E-01	8.15E+00	8.41E+00	1.68E+01
4820	471363.09	3861877.25	1.13967	0.40645	0.85191	0.89815	4.093	0.815	0.3914	0.40645	7.95E+00	7.51E-01	8.87E-05	3.16E-02	1.28E+00	7.66E-02	2.77E+00	2.76E+00	1.01E+01
4821	471863.09	3861877.25	1.15254	0.4129	0.81081	0.93117	3.98	0.842	0.3947	0.4129	8.04E+00	7.63E-01	8.44E-05	3.28E-02	1.25E+00	7.91E-02	2.80E+00	2.81E+00	1.01E+01
4822	472363.09	3861877.25	1.16256	0.42217	0.92249	0.95562	3.773	0.891	0.4017	0.42217	8.11E+00	7.80E-01	9.60E-05	3.36E-02	1.18E+00	8.38E-02	2.85E+00	2.87E+00	1.02E+01
4823	472863.09	3861877.25	1.16575	0.43194	1.04945	0.96466	3.435	0.949	0.4091	0.43194	8.13E+00	7.98E-01	1.09E-04	3.40E-02	1.08E+00	8.92E-02	2.90E+00	2.94E+00	1.01E+01
4824	473363.09	3861877.25	1.1679	0.43734	1.06465	0.96429	3.08	1.015	0.4125	0.43734	8.14E+00	8.08E-01	1.11E-04	3.39E-02	9.65E-01	9.54E-02	2.92E+00	2.97E+00	9.99E+00
4825	473863.09	3861877.25	1.20254	0.43908	1.02263	0.95794	3.135	1.064	0.413	0.43908	8.38E+00	8.11E-01	1.06E-04	3.37E-02	9.82E-01	1.00E-01	2.93E+00	2.99E+00	1.03E+01
4826	474363.09	3861877.25	1.22778	0.4407	1.10422	0.95805	3.259	1.098	0.4155	0.4407	8.56E+00	8.14E-01	1.15E-04	3.37E-02	1.02E+00	1.03E-01	2.94E+00	3.00E+00	1.05E+01
4827	474863.09	3861877.25	1.27717	0.44795	1.16602	0.9768	3.332	1.101	0.4233	0.44795	8.90E+00	8.27E-01	1.21E-04	3.44E-02	1.04E+00	1.04E-01	3.00E+00	3.05E+00	1.09E+01
4828	475363.09	3861877.25	1.32075	0.45797	1.48947	1.05191	3.527	1.088	0.4338	0.45797	9.21E+00	8.46E-01	1.55E-04	3.70E-02	1.11E+00	1.02E-01	3.07E+00	3.11E+00	1.13E+01
4829	475863.09	3861877.25	1.3513	0.46733	1.84932	1.15586	3.906	1.085	0.4432	0.46733	9.42E+00	8.63E-01	1.93E-04	4.07E-02	1.22E+00	1.02E-01	3.14E+00	3.18E+00	1.16E+01
4830	476363.09	3861877.25	1.41487	0.47642	1.74885	1.28622	4.399	1.082	0.4527	0.47642	9.86E+00	8.80E-01	1.82E-04	4.53E-02	1.38E+00	1.02E-01	3.21E+00	3.24E+00	1.22E+01
4831	476863.09	3861877.25	1.4923	0.48052	1.43616	1.43628	5.352	1.05	0.4684	0.48052	1.04E+01	8.87E-01	1.50E-04	5.06E-02	1.68E+00	9.87E-02	3.32E+00	3.27E+00	1.32E+01
4832	477363.09	3861877.25	1.56798	0.46954	1.33027	1.52143	5.899	1.026	0.465	0.46954	1.09E+01	8.67E-01	1.38E-04	5.35E-02	1.85E+00	9.65E-02	3.29E+00	3.19E+00	1.39E+01
4833	477863.09	3861877.25	1.60209	0.37104	0.96025	1.1917	5.004	0.762	0.3789	0.37104	1.12E+01	6.85E-01	1.00E-04	4.19E-02	1.57E+00	7.16E-02	2.68E+00	2.52E+00	1.37E+01
4834	478363.09	3861877.25	1.15703	0.25053	0.54917	0.63772	2.599	0.554	0.25	0.25053	8.07E+00	4.63E-01	5.72E-05	2.24E-02	8.14E-01	5.21E-02	1.77E+00	1.70E+00	9.49E+00
4835	478863.09	3861877.25	1.52457	0.28837	0.84863	0.77446	3.101	0.738	0.2915	0.28837	1.06E+01	5.33E-01	8.83E-05	2.73E-02	9.72E-01	6.93E-02	2.07E+00	1.96E+00	1.23E+01
4836	479363.09	3861877.25	1.39353	0.27272	0.75174	0.72975	3.063	0.711	0.2742	0.27272	9.72E+00	5.04E-01	7.83E-05	2.57E-02	9.60E-01	6.69E-02	1.94E+00	1.85E+00	1.14E+01
4837	479863.09	3861877.25	1.51825	0.50918	1.67593	1.27662	4.97	1.17	0.5085	0.50918	1.06E+01	9.40E-01	1.74E-04	4.49E-02	1.56E+00	1.10E-01	3.60E+00	3.46E+00	1.34E+01
4838	480363.09	3861877.25	1.39892	0.56991	1.38017	1.31881	6.196	1.375	0.5467	0.56991	9.75E+00	1.05E+00	1.44E-04	4.64E-02	1.94E+00	1.29E-01	3.87E+00	3.88E+00	1.29E+01
4839	480863.09	3861877.25	1.33516	0.59318	2.01332	1.41947	6.617	1.461	0.5653	0.59318	9.31E+00	1.10E+00	2.10E-04	5.00E-02	2.07E+00	1.37E-01	4.01E+00	4.03E+00	1.26E+01
4840	481363.09	3861877.25	1.32986	0.65438	2.1025	1.63129	6.611	1.538	0.6026	0.65438	9.27E+00	1.21E+00	2.19E-04	5.74E-02	2.07E+00	1.45E-01	4.27E+00	4.45E+00	1.26E+01
4841	481863.09	3861877.25	1.41114	0.74204	1.90304	1.78677	6.179	1.648	0.6383	0.74204	9.84E+00	1.37E+00	1.98E-04	6.29E-02	1.94E+00	1.55E-01	4.52E+00	5.05E+00	1.28E+01

4842	482363.09	3861877.25	1.64435	0.70631	2.5199	1.82286	7.373	1.75	0.6084	0.70631	1.15E+01	1.30E+00	2.62E-04	6.42E-02	2.31E+00	1.65E-01	4.31E+00	4.80E+00	1.48E+01
4843	482863.09	3861877.25	1.80565	0.66793	2.75284	1.72665	8.062	1.743	0.5957	0.66793	1.26E+01	1.23E+00	2.87E-04	6.08E-02	2.53E+00	1.64E-01	4.22E+00	4.54E+00	1.63E+01
4844	483363.09	3861877.25	1.91637	0.68917	3.08616	1.56865	7.331	1.82	0.6073	0.68917	1.34E+01	1.27E+00	3.21E-04	5.52E-02	2.30E+00	1.71E-01	4.30E+00	4.69E+00	1.68E+01
4845	483863.09	3861877.25	1.91425	0.69564	3.4653	1.52389	5.307	1.952	0.6316	0.69564	1.33E+01	1.28E+00	3.61E-04	5.36E-02	1.66E+00	1.84E-01	4.47E+00	4.73E+00	1.63E+01
4846	484363.09	3861877.25	1.81828	0.69888	2.42176	1.96311	5.424	1.762	0.6685	0.69888	1.27E+01	1.29E+00	2.52E-04	6.91E-02	1.70E+00	1.66E-01	4.74E+00	4.75E+00	1.59E+01
4847	484863.09	3861877.25	1.84403	0.72617	2.99531	2.2478	7.195	1.8	0.7003	0.72617	1.29E+01	1.34E+00	3.12E-04	7.91E-02	2.25E+00	1.69E-01	4.96E+00	4.94E+00	1.67E+01
4848	485363.09	3861877.25	1.91264	0.74729	3.04841	2.3173	7.345	1.71	0.7217	0.74729	1.33E+01	1.38E+00	3.17E-04	8.16E-02	2.30E+00	1.61E-01	5.11E+00	5.08E+00	1.73E+01
4849	485863.09	3861877.25	1.97435	0.75192	2.40506	2.42348	5.247	1.944	0.7346	0.75192	1.38E+01	1.39E+00	2.50E-04	8.53E-02	1.64E+00	1.83E-01	5.20E+00	5.11E+00	1.72E+01
4850	486363.09	3861877.25	2.10877	0.79833	2.73581	2.60429	7.273	2.157	0.7835	0.79833	1.47E+01	1.47E+00	2.85E-04	9.17E-02	2.28E+00	2.03E-01	5.55E+00	5.43E+00	1.89E+01
4851	486863.09	3861877.25	2.32667	0.95431	4.3539	2.74976	7.11	2.2	0.8465	0.95431	1.62E+01	1.76E+00	4.53E-04	9.68E-02	2.23E+00	2.07E-01	6.00E+00	6.49E+00	2.00E+01
4852	487363.09	3861877.25	2.7639	1.07424	3.83921	2.73525	9.231	2.89	0.937	1.07424	1.93E+01	1.98E+00	4.00E-04	9.63E-02	2.89E+00	2.72E-01	6.64E+00	7.30E+00	2.38E+01
4853	487863.09	3861877.25	3.01107	1.1358	2.84625	2.85829	4.384	2.596	1.0017	1.1358	2.10E+01	2.10E+00	2.96E-04	1.01E-01	1.37E+00	2.44E-01	7.10E+00	7.72E+00	2.42E+01
4854	488363.09	3861877.25	3.75361	1.14933	4.29861	3.68864	3.675	3.083	1.0663	1.14933	2.62E+01	2.12E+00	4.48E-04	1.30E-01	1.15E+00	2.90E-01	7.55E+00	7.82E+00	2.96E+01
4855	488863.09	3861877.25	5.20949	1.2345	3.39568	6.41464	4.163	3.898	1.1536	1.2345	3.63E+01	2.28E+00	3.54E-04	2.26E-01	1.30E+00	3.66E-01	8.17E+00	8.39E+00	4.03E+01
4856	489363.09	3861877.25	5.65908	1.39109	3.3817	8.13202	3.475	3.375	1.2455	1.39109	3.95E+01	2.57E+00	3.52E-04	2.86E-01	1.09E+00	3.17E-01	8.82E+00	9.46E+00	4.31E+01
4857	489863.09	3861877.25	5.21602	1.56166	2.8563	3.61001	4.919	2.716	1.3806	1.56166	3.64E+01	2.88E+00	2.97E-04	1.27E-01	1.54E+00	2.55E-01	9.78E+00	1.06E+01	4.03E+01
4858	490363.09	3861877.25	3.76704	1.60196	2.6563	2.61245	8.829	2.302	1.5221	1.60196	2.63E+01	2.96E+00	2.77E-04	9.19E-02	2.77E+00	2.16E-01	1.08E+01	1.09E+01	3.22E+01
4859	490863.09	3861877.25	2.7764	1.72898	2.59633	2.4262	8.367	2.23	1.6895	1.72898	1.94E+01	3.19E+00	2.70E-04	8.54E-02	2.62E+00	2.10E-01	1.20E+01	1.18E+01	2.57E+01
4860	491363.09	3861877.25	2.73864	2.01564	2.17953	2.56868	7.771	2.054	2.0144	2.01564	1.91E+01	3.72E+00	2.27E-04	9.04E-02	2.43E+00	1.93E-01	1.43E+01	1.37E+01	2.61E+01
4861	491863.09	3861877.25	2.90071	2.24671	2.67264	2.69927	6.269	2.121	2.3222	2.24671	2.02E+01	4.15E+00	2.78E-04	9.50E-02	1.96E+00	1.99E-01	1.65E+01	1.53E+01	2.78E+01
4862	492363.09	3861877.25	2.94132	2.63526	2.74113	2.67191	3.856	2.289	2.8322	2.63526	2.05E+01	4.87E+00	2.85E-04	9.40E-02	1.21E+00	2.15E-01	2.01E+01	1.79E+01	2.90E+01
4863	492863.09	3861877.25	2.98024	3.27341	2.81135	2.69015	4.089	2.228	3.3036	3.27341	2.08E+01	6.05E+00	2.93E-04	9.47E-02	1.28E+00	2.09E-01	2.34E+01	2.23E+01	2.96E+01
4864	493363.09	3861877.25	3.10605	4.27486	4.26418	2.55487	3.607	2.235	4.3806	4.27486	2.17E+01	7.90E+00	4.44E-04	8.99E-02	1.13E+00	2.10E-01	3.10E+01	2.91E+01	3.30E+01
4865	493863.09	3861877.25	3.28721	7.02456	5.50195	3.52951	3.836	2.585	6.8095	7.02456	2.29E+01	1.30E+01	5.73E-04	1.24E-01	1.20E+00	2.43E-01	4.82E+01	4.78E+01	3.79E+01
4866	494363.09	3861877.25	3.0737	8.53501	4.89641	3.74622	4.924	2.849	8.4193	8.53501	2.14E+01	1.58E+01	5.10E-04	1.32E-01	1.54E+00	2.68E-01	5.97E+01	5.80E+01	4.08E+01
4867	494863.09	3861877.25	2.69416	15.58387	3.79711	3.17121	5.613	2.825	15.951	15.58387	1.88E+01	2.88E+01	3.95E-04	1.12E-01	1.76E+00	2.66E-01	1.13E+02	1.06E+02	5.67E+01
4868	495363.09	3861877.25	2.31592	10.47064	3.13519	2.49182	5.894	2.505	10.447	10.47064	1.61E+01	1.93E+01	3.26E-04	8.77E-02	1.85E+00	2.35E-01	7.40E+01	7.12E+01	4.05E+01
4869	495863.09	3861877.25	2.03486	6.00507	2.81404	2.20825	5.753	2.501	6.0249	6.00507	1.42E+01	1.11E+01	2.93E-04	7.77E-02	1.80E+00	2.35E-01	4.27E+01	4.08E+01	2.92E+01
4870	496363.09	3861877.25	1.84751	4.43734	2.5434	2.09046	4.673	2.395	4.4648	4.43734	1.29E+01	8.20E+00	2.65E-04	7.36E-02	1.46E+00	2.25E-01	3.16E+01	3.02E+01	2.43E+01
4871	496863.09	3861877.25	1.86991	1.69733	2.62352	1.91344	3.834	2.591	1.6557	1.69733	1.30E+01	3.13E+00	2.73E-04	6.73E-02	1.20E+00	2.44E-01	1.17E+01	1.15E+01	1.79E+01
4872	497363.09	3861877.25	1.69762	2.72498	2.20909	1.59683	2.91	2.255	2.7391	2.72498	1.18E+01	5.03E+00	2.30E-04	5.62E-02	9.12E-01	2.12E-01	1.94E+01	1.85E+01	1.89E+01
4873	497863.09	3861877.25	1.62947	2.4636	2.12406	1.4945	2.786	2.166	2.4809	2.4636	1.14E+01	4.55E+00	2.21E-04	5.26E-02	8.73E-01	2.04E-01	1.76E+01	1.68E+01	1.79E+01
4874	498363.09	3861877.25	1.58386	2.2454	2.10583	1.49206	3.421	2.264	2.2612	2.2454	1.10E+01	4.15E+00	2.19E-04	5.25E-02	1.07E+00	2.13E-01	1.60E+01	1.53E+01	1.73E+01
4875	471363.09	3862377.25	1.10977	0.40294	0.89645	0.85371	2.952	0.916	0.3879	0.40294	7.74E+00	7.44E-01	9.33E-05	3.00E-02	9.25E-01	8.61E-02	2.75E+00	2.74E+00	9.53E+00
4876	471863.09	3862377.25	1.11621	0.41096	1.02344	0.85545	2.644	0.967	0.3941	0.41096	7.78E+00	7.59E-01	1.07E-04	3.01E-02	8.28E-01	9.09E-02	2.79E+00	2.79E+00	9.49E+00
4877	472363.09	3862377.25	1.10968	0.41992	1.0741	0.86839	2.694	1.006	0.401	0.41992	7.74E+00	7.76E-01	1.12E-04	3.06E-02	8.44E-01	9.46E-02	2.84E+00	2.86E+00	9.47E+00
4878	472863.09	3862377.25	1.12073	0.42838	1.06166	0.88819	2.779	1.026	0.408	0.42838	7.81E+00	7.91E-01	1.11E-04	3.13E-02	8.71E-01	9.64E-02	2.89E+00	2.91E+00	9.58E+00
4879	473363.09	3862377.25	1.14181	0.43204	1.12727	0.95307	2.855	1.029	0.4112	0.43204	7.96E+00	7.98E-01	1.17E-04	3.35E-02	8.95E-01	9.67E-02	2.91E+00	2.94E+00	9.76E+00
4880	473863.09	3862377.25	1.18212	0.4317	1.20154	1.03441	2.991	1.019	0.4111	0.4317	8.24E+00	7.97E-01	1.25E-04	3.64E-02	9.37E-01	9.58E-02	2.91E+00	2.94E+00	1.01E+01
4881	474363.09	3862377.25	1.22123	0.43462	1.18595	1.13593	3.28	1.01	0.4148	0.43462	8.51E+00	8.03E-01	1.23E-04	4.00E-02	1.03E+00	9.49E-02	2.94E+00	2.96E+00	1.05E+01
4882	474863.09	3862377.25	1.26034	0.44354	1.40697	1.23725	3.608	1.02	0.424	0.44354	8.79E+00	8.19E-01	1.46E-04	4.35E-02	1.13E+00	9.59E-02	3.00E+00	3.02E+00	1.09E+01
4883	475363.09	3862377.25	1.26112	0.45148	1.5537	1.28951	4.097	1.062	0.431	0.45148	8.79E+00	8.34E-01	1.62E-04	4.54E-02	1.28E+00	9.98E-02	3.05E+00	3.07E+00	1.10E+01
4884	475863.09	3862377.25	1.27696	0.4582	1.46543	1.30113	4.463	1.104	0.4375	0.4582	8.90E+00	8.46E-01	1.53E-04	4.58E-02	1.40E+00	1.04E-01	3.10E+00	3.12E+00	1.13E+01
4885	476363.09	3862377.25	1.34041	0.46394	1.37828	1.27463	4.716	1.136	0.4452	0.46394	9.34E+00	8.57E-01	1.43E-04	4.49E-02	1.48E+00	1.07E-01	3.15E+00	3.15E+00	1.18E+01
4886	476863.09	3862377.25	1.40404	0.46843	1.25689	1.18807	4.601	1.142	0.4526	0.46843	9.79E+00	8.65E-01	1.31E-04	4.18E-02	1.44E+00	1.07E-01	3.21E+00	3.19E+00	1.23E+01
4887	477363.09	3862377.25	1.47627	0.46843	1.18397	1.06287	4.383	1.142	0.4573	0.46843	1.03E+01	8.65E-01	1.23E-04	3.74E-02	1.37E+00	1.07E-01	3.24E+00	3.19E+00	1.27E+01
4888	477863.09	3862377.25	1.56104	0.41312	0.85999	0.95898	3.453	0.93	0.417	0.41312	1.09E+01	7.63E-01	8.95E-05	3.38E-02	1.08E+00	8.74E-02	2.95E+00	2.81E+00	1.30E+01
4889	478363.09	3862377.25	1.51786	0.3581	0.8503	0.81574	3.103	0.791	0.3589	0.3581	1.06E+01	6.61E-01	8.85E-05	2.87E-02	9.72E-01	7.44E-02	2.54E+00	2.44E+00	1.24E+01
4890	478863.09	3862377.25	1.47318	0.34545	0.95551	0.90938	3.703	0.812	0.3436	0.34545	1.03E+01	6.38E-01	9.95E-05	3.20E-02	1.16E+00	7.63E-02	2.43E+00	2.35E+00	1.23E+01
4891	479363.09	3862377.25	1.4372	0.40559	1.16839	1.10326	5.148	0.888	0.4115	0.40559	1.00E+01	7.49E-01	1.22E-04	3.88E-02	1.61E+00	8.35E-02	2.92E+00	2.76E+00	1.27E+01
4892	479863.09	3862377.25	1.35586	0.50454	1.30846	1.37456	6.393	1.145	0.4949	0.50454	9.45E+00	9.32E-01	1.36E-04	4.84E-02	2.00E+00	1.08E-01	3.51E+00	3.43E+00	1.26E+01
4893	480363.09	3862377.25	1.25174	0.55288	1.83344	1.54205	5.956	1.292	0.5259	0.55288	8.73E+00	1.02E+00	1.91E-04	5.43E-02	1.87E+00	1.21E-01	3.73E+00	3.76E+00	1.18E+01
4894	480863.09	3862377.25	1.23655	0.57276	1.92023	1.56452	5.85	1.37	0.5426	0.57276	8.62E+00	1.06E+00	2.00E-04	5.51E-02	1.83E+00	1.29E-01	3.84E+00	3.89E+00	1.16E+01
4895	481363.09	3862377.25	1.27888	0.62224	1.99001	1.56976	5.694	1.463	0.5755	0.62224	8.92E+00	1.15E+00	2.07E-04	5.52E-02	1.78E+00	1.38E-01	4.08E+00	4.23E+00	1.19E+01
4896	481863.09	3862377.25	1.40061	0.68732	2.19267	1.48305	6.689	1.52	0.5941	0.68732	9.76E+00	1.27E+00	2.28E-04	5.22E-02	2.10E+00	1.43E-01	4.21E+00	4.67E+00	1.29E+01
4897	482363.09	3862377.25	1.63969	0.65038	2.86339	1.38399	7.174	1.556	0.5581	0.65038	1.14E+01	1.20E+00	2.98E-04	4.87E-02	2.25E+00	1.46E-01	3.95E+00	4.42E+00	1.46E+01
4898	482863.09	3862377.25	1.78021	0.62298	2.93719	1.30324	6.493	1.653	0.5438	0.62298	1.24E+01	1.15E+00	3.06E-04	4.59E-02	2.03E+00	1.55E-01	3.85E+00	4.24E+00	1.54E+01

4899	483363.09	3862377.25	1.85797	0.62919	2.53478	1.52544	4.846	1.736	0.5624	0.62919	1.30E+01	1.16E+00	2.64E-04	5.37E-02	1.52E+00	1.63E-01	3.98E+00	4.28E+00	1.56E+01
4900	483863.09	3862377.25	1.76203	0.62896	2.24184	1.89111	4.205	1.556	0.6033	0.62896	1.23E+01	1.16E+00	2.33E-04	6.66E-02	1.32E+00	1.46E-01	4.27E+00	4.28E+00	1.50E+01
4901	484363.09	3862377.25	1.70119	0.65446	2.55121	2.09462	5.972	1.509	0.63	0.65446	1.19E+01	1.21E+00	2.66E-04	7.37E-02	1.87E+00	1.42E-01	4.46E+00	4.45E+00	1.52E+01
4902	484863.09	3862377.25	1.64372	0.67956	2.62419	1.99284	6.822	1.544	0.6737	0.67956	1.15E+01	1.26E+00	2.73E-04	7.01E-02	2.14E+00	1.45E-01	4.77E+00	4.62E+00	1.52E+01
4903	485363.09	3862377.25	1.79841	0.71147	2.07614	2.14791	5.604	1.567	0.7047	0.71147	1.25E+01	1.31E+00	2.16E-04	7.56E-02	1.76E+00	1.47E-01	4.99E+00	4.84E+00	1.60E+01
4904	485863.09	3862377.25	1.84298	0.75438	2.88501	2.27268	5.406	1.853	0.75	0.75438	1.28E+01	1.39E+00	3.00E-04	8.00E-02	1.69E+00	1.74E-01	5.31E+00	5.13E+00	1.64E+01
4905	486363.09	3862377.25	1.95568	0.7962	2.72582	2.39302	6.725	1.941	0.7922	0.7962	1.36E+01	1.47E+00	2.84E-04	8.42E-02	2.11E+00	1.82E-01	5.61E+00	5.41E+00	1.77E+01
4906	486863.09	3862377.25	1.81622	0.88473	4.06972	2.32183	6.427	1.966	0.8417	0.88473	1.27E+01	1.63E+00	4.24E-04	8.17E-02	2.01E+00	1.85E-01	5.96E+00	6.02E+00	1.65E+01
4907	487363.09	3862377.25	2.40156	1.03221	2.5134	2.32525	8.461	2.527	0.9225	1.03221	1.67E+01	1.91E+00	2.62E-04	8.18E-02	2.65E+00	2.38E-01	6.54E+00	7.02E+00	2.11E+01
4908	487863.09	3862377.25	2.60538	1.10963	3.54351	2.80652	3.809	2.218	0.9846	1.10963	1.82E+01	2.05E+00	3.69E-04	9.88E-02	1.19E+00	2.09E-01	6.98E+00	7.55E+00	2.11E+01
4909	488363.09	3862377.25	2.93613	1.14751	3.46403	3.72267	3.228	2.312	1.0384	1.14751	2.05E+01	2.12E+00	3.61E-04	1.31E-01	1.01E+00	2.17E-01	7.36E+00	7.80E+00	2.35E+01
4910	488863.09	3862377.25	3.81249	1.14026	3.00079	6.42612	3.479	3.012	1.0833	1.14026	2.66E+01	2.11E+00	3.12E-04	2.26E-01	1.09E+00	2.83E-01	7.68E+00	7.75E+00	3.02E+01
4911	489363.09	3862377.25	4.79772	1.19264	3.40961	8.18496	3.265	2.978	1.1447	1.19264	3.34E+01	2.20E+00	3.55E-04	2.88E-01	1.02E+00	2.80E-01	8.11E+00	8.11E+00	3.72E+01
4912	489863.09	3862377.25	4.88882	1.27014	2.28734	3.6322	2.79	2.863	1.23	1.27014	3.41E+01	2.35E+00	2.38E-04	1.28E-01	8.74E-01	2.69E-01	8.71E+00	8.64E+00	3.78E+01
4913	490363.09	3862377.25	4.39892	1.42982	2.18872	2.60476	6.487	2.368	1.3421	1.42982	3.07E+01	2.64E+00	2.28E-04	9.17E-02	2.03E+00	2.23E-01	9.51E+00	9.72E+00	3.54E+01
4914	490863.09	3862377.25	3.05636	1.47979	1.72106	2.38591	8.062	2.081	1.4443	1.47979	2.13E+01	2.73E+00	1.79E-04	8.40E-02	2.53E+00	1.96E-01	1.02E+01	1.01E+01	2.70E+01
4915	491363.09	3862377.25	2.39658	1.54875	2.57435	1.98594	7.538	1.983	1.566	1.54875	1.67E+01	2.86E+00	2.68E-04	6.99E-02	2.36E+00	1.86E-01	1.11E+01	1.05E+01	2.28E+01
4916	491863.09	3862377.25	2.28433	1.72981	1.877	2.31671	6.311	1.876	1.7289	1.72981	1.59E+01	3.19E+00	1.95E-04	8.15E-02	1.98E+00	1.76E-01	1.22E+01	1.18E+01	2.18E+01
4917	492363.09	3862377.25	2.51198	1.86273	2.33262	2.25038	5.179	1.623	1.8903	1.86273	1.75E+01	3.44E+00	2.43E-04	7.92E-02	1.62E+00	1.53E-01	1.34E+01	1.27E+01	2.35E+01
4918	492863.09	3862377.25	2.63609	1.94443	2.37528	2.308	3.339	1.931	2.1987	1.94443	1.84E+01	3.59E+00	2.47E-04	8.12E-02	1.05E+00	1.81E-01	1.56E+01	1.32E+01	2.56E+01
4919	493363.09	3862377.25	2.71907	2.16351	2.25673	2.34891	3.743	2.007	2.278	2.16351	1.90E+01	4.00E+00	2.35E-04	8.27E-02	1.17E+00	1.89E-01	1.61E+01	1.47E+01	2.58E+01
4920	493863.09	3862377.25	2.79692	2.64826	2.90481	1.99488	3.359	1.892	2.6505	2.64826	1.95E+01	4.89E+00	3.02E-04	7.02E-02	1.05E+00	1.78E-01	1.88E+01	1.80E+01	2.65E+01
4921	494363.09	3862377.25	2.92335	3.87858	4.21351	2.6451	3.022	2.145	3.7584	3.87858	2.04E+01	7.16E+00	4.39E-04	9.31E-02	9.47E-01	2.02E-01	2.66E+01	2.64E+01	2.90E+01
4922	494863.09	3862377.25	2.93254	5.01185	4.67876	3.09232	3.981	2.385	4.739	5.01185	2.04E+01	9.26E+00	4.87E-04	1.09E-01	1.25E+00	2.24E-01	3.36E+01	3.41E+01	3.08E+01
4923	495363.09	3862377.25	2.65593	5.01573	4.01313	3.03868	4.665	2.436	4.9291	5.01573	1.85E+01	9.26E+00	4.18E-04	1.07E-01	1.46E+00	2.29E-01	3.49E+01	3.41E+01	3.04E+01
4924	495863.09	3862377.25	2.35138	5.90123	3.10779	2.496	4.928	2.259	5.8733	5.90123	1.64E+01	1.09E+01	3.24E-04	8.78E-02	1.54E+00	2.12E-01	4.16E+01	4.01E+01	3.06E+01
4925	496363.09	3862377.25	2.04555	8.10837	2.55709	2.02821	5.092	1.982	8.0999	8.10837	1.43E+01	1.50E+01	2.66E-04	7.14E-02	1.60E+00	1.86E-01	5.74E+01	5.51E+01	3.33E+01
4926	496863.09	3862377.25	1.83768	35.042	2.33512	1.87815	4.924	1.976	35.111	35.042	1.28E+01	6.47E+01	2.43E-04	6.61E-02	1.54E+00	1.86E-01	2.49E+02	2.38E+02	8.98E+01
4927	497363.09	3862377.25	1.67707	12.34475	2.21137	1.73969	3.85	1.985	12.472	12.34475	1.17E+01	2.28E+01	2.30E-04	6.12E-02	1.21E+00	1.87E-01	8.84E+01	8.39E+01	4.04E+01
4928	497863.09	3862377.25	1.5424	28.37768	2.00342	1.51459	2.944	1.812	30.017	28.37768	1.08E+01	5.24E+01	2.09E-04	5.33E-02	9.22E-01	1.70E-01	2.13E+02	1.93E+02	8.40E+01
4929	498363.09	3862377.25	1.47185	13.00578	1.76344	1.24919	2.328	1.67	13.054	13.00578	1.03E+01	2.40E+01	1.84E-04	4.40E-02	7.29E-01	1.57E-01	9.25E+01	8.84E+01	3.93E+01
4930	471363.09	3862877.25	1.05575	0.38878	0.99329	0.8837	2.409	0.963	0.3747	0.38878	7.36E+00	7.18E-01	1.03E-04	3.11E-02	7.55E-01	9.05E-02	2.66E+00	2.64E+00	8.97E+00
4931	471863.09	3862877.25	1.0481	0.39546	0.99312	0.95035	2.473	0.963	0.3789	0.39546	7.31E+00	7.30E-01	1.03E-04	3.34E-02	7.75E-01	9.05E-02	2.68E+00	2.69E+00	8.93E+00
4932	472363.09	3862877.25	1.05716	0.40238	0.99968	1.03075	2.558	0.956	0.3846	0.40238	7.37E+00	7.43E-01	1.04E-04	3.63E-02	8.02E-01	8.99E-02	2.72E+00	2.74E+00	9.03E+00
4933	472863.09	3862877.25	1.09046	0.40764	1.00386	1.10784	2.807	0.951	0.3904	0.40764	7.60E+00	7.53E-01	1.05E-04	3.90E-02	8.80E-01	8.94E-02	2.77E+00	2.77E+00	9.36E+00
4934	473363.09	3862877.25	1.11847	0.40703	0.97985	1.15856	3.047	0.974	0.391	0.40703	7.80E+00	7.52E-01	1.02E-04	4.08E-02	9.55E-01	9.16E-02	2.77E+00	2.77E+00	9.64E+00
4935	473863.09	3862877.25	1.14351	0.40468	1.01506	1.17442	3.422	1.001	0.3897	0.40468	7.97E+00	7.47E-01	1.06E-04	4.13E-02	1.07E+00	9.41E-02	2.76E+00	2.75E+00	9.94E+00
4936	474363.09	3862877.25	1.17992	0.40695	1.22061	1.15386	3.811	1.032	0.3922	0.40695	8.23E+00	7.52E-01	1.27E-04	4.06E-02	1.19E+00	9.70E-02	2.78E+00	2.77E+00	1.03E+01
4937	474863.09	3862877.25	1.20067	0.41855	1.40149	1.10232	4.066	1.059	0.3982	0.41855	8.37E+00	7.73E-01	1.46E-04	3.88E-02	1.27E+00	9.95E-02	2.82E+00	2.85E+00	1.05E+01
4938	475363.09	3862877.25	1.2027	0.42626	1.4164	1.0041	4.223	1.071	0.4037	0.42626	8.38E+00	7.87E-01	1.47E-04	3.53E-02	1.32E+00	1.01E-01	2.86E+00	2.90E+00	1.06E+01
4939	475863.09	3862877.25	1.25714	0.43488	1.27392	0.93886	4.019	1.102	0.4093	0.43488	8.76E+00	8.03E-01	1.33E-04	3.30E-02	1.26E+00	1.04E-01	2.90E+00	2.96E+00	1.09E+01
4940	476363.09	3862877.25	1.30614	0.43989	1.1289	0.91976	3.708	1.142	0.4141	0.43989	9.11E+00	8.12E-01	1.18E-04	3.24E-02	1.16E+00	1.07E-01	2.93E+00	2.99E+00	1.12E+01
4941	476863.09	3862877.25	1.35821	0.44589	1.18181	0.93616	3.357	1.147	0.4204	0.44589	9.47E+00	8.24E-01	1.23E-04	3.29E-02	1.05E+00	1.08E-01	2.98E+00	3.03E+00	1.14E+01
4942	477363.09	3862877.25	1.3975	0.45325	1.30194	1.00886	3.15	1.123	0.4258	0.45325	9.74E+00	8.37E-01	1.36E-04	3.55E-02	9.87E-01	1.06E-01	3.02E+00	3.08E+00	1.16E+01
4943	477863.09	3862877.25	1.44026	0.4347	1.4403	1.10413	3.589	1.025	0.4277	0.4347	1.00E+01	8.03E-01	1.50E-04	3.89E-02	1.12E+00	9.63E-02	3.03E+00	2.96E+00	1.22E+01
4944	478363.09	3862877.25	1.41402	0.3916	1.1112	1.07031	4.174	0.855	0.4099	0.3916	9.86E+00	7.23E-01	1.16E-04	3.77E-02	1.31E+00	8.04E-02	2.90E+00	2.66E+00	1.22E+01
4945	478863.09	3862877.25	1.3411	0.40646	1.12336	1.17062	5.501	0.873	0.4193	0.40646	9.35E+00	7.51E-01	1.17E-04	4.12E-02	1.72E+00	8.21E-02	2.97E+00	2.76E+00	1.22E+01
4946	479363.09	3862877.25	1.31303	0.40416	1.09457	1.36701	5.852	0.923	0.428	0.40416	9.15E+00	7.46E-01	1.14E-04	4.81E-02	1.83E+00	8.67E-02	3.03E+00	2.75E+00	1.22E+01
4947	479863.09	3862877.25	1.1998	0.51823	1.53939	1.49025	5.399	1.265	0.485	0.51823	8.36E+00	9.57E-01	1.60E-04	5.25E-02	1.69E+00	1.19E-01	3.44E+00	3.52E+00	1.11E+01
4948	480363.09	3862877.25	1.16524	0.5357	1.76013	1.36127	5.14	1.327	0.5027	0.5357	8.12E+00	9.89E-01	1.83E-04	4.79E-02	1.61E+00	1.25E-01	3.56E+00	3.64E+00	1.08E+01
4949	480863.09	3862877.25	1.21766	0.55256	1.95494	1.31106	5.358	1.393	0.5276	0.55256	8.49E+00	1.02E+00	2.04E-04	4.61E-02	1.68E+00	1.31E-01	3.74E+00	3.76E+00	1.13E+01
4950	481363.09	3862877.25	1.26161	0.61551	2.02094	1.23256	6.188	1.337	0.57	0.61551	8.80E+00	1.14E+00	2.10E-04	4.34E-02	1.94E+00	1.26E-01	4.04E+00	4.19E+00	1.19E+01
4951	481863.09	3862877.25	1.43747	0.70271	2.31658	1.18635	6.524	1.45	0.5887	0.70271	1.00E+01	1.30E+00	2.41E-04	4.18E-02	2.04E+00	1.36E-01	4.17E+00	4.78E+00	1.29E+01
4952	482363.09	3862877.25	1.56934	0.64123	2.73545	1.25048	5.783	1.485	0.5693	0.64123	1.09E+01	1.18E+00	2.85E-04	4.40E-02	1.81E+00	1.40E-01	4.03E+00	4.36E+00	1.38E+01
4953	482863.09	3862877.25	1.6949	0.61435	2.18797	1.54192	4.396	1.521	0.5667	0.61435	1.18E+01	1.13E+00	2.28E-04	5.43E-02	1.38E+00	1.43E-01	4.02E+00	4.18E+00	1.44E+01
4954	483363.09	3862877.25	1.75346	0.62793	1.68362	1.81915	3.298	1.438	0.5929	0.62793	1.22E+01	1.16E+00	1.75E-04	6.40E-02	1.03E+00	1.35E-01	4.20E+00	4.27E+00	1.45E+01
4955	483863.09	3862877.25	1.68216	0.65114	2.33059	1.87498	4.921	1.339	0.624	0.65114	1.17E+01	1.20E+00	2.43E-04	6.60E-02	1.54E+00	1.26E-01	4.42E+00	4.43E+00	1.47E+01

4956	484363.09	3862877.25	1.60078	0.67691	2.44196	1.75787	6.052	1.385	0.6527	0.67691	1.12E+01	1.25E+00	2.54E-04	6.19E-02	1.90E+00	1.30E-01	4.62E+00	4.60E+00	1.45E+01
4957	484863.09	3862877.25	1.53428	0.70366	2.28173	1.95722	5.861	1.363	0.6936	0.70366	1.07E+01	1.30E+00	2.38E-04	6.89E-02	1.84E+00	1.28E-01	4.91E+00	4.78E+00	1.42E+01
4958	485363.09	3862877.25	1.65957	0.73024	2.18805	2.04108	3.975	1.448	0.7273	0.73024	1.16E+01	1.35E+00	2.28E-04	7.18E-02	1.25E+00	1.36E-01	5.15E+00	4.97E+00	1.46E+01
4959	485863.09	3862877.25	1.72152	0.75978	2.49035	2.11959	5.646	1.714	0.7596	0.75978	1.20E+01	1.40E+00	2.59E-04	7.46E-02	1.77E+00	1.61E-01	5.38E+00	5.17E+00	1.56E+01
4960	486363.09	3862877.25	1.77929	0.78791	2.74786	2.04714	5.833	1.818	0.7882	0.78791	1.24E+01	1.46E+00	2.86E-04	7.21E-02	1.83E+00	1.71E-01	5.58E+00	5.36E+00	1.62E+01
4961	486863.09	3862877.25	1.75692	0.82646	2.82391	1.98649	6.187	1.783	0.8215	0.82646	1.22E+01	1.53E+00	2.94E-04	6.99E-02	1.94E+00	1.68E-01	5.82E+00	5.62E+00	1.62E+01
4962	487363.09	3862877.25	2.04367	0.94338	2.69003	2.21479	7.672	2.246	0.8628	0.94338	1.42E+01	1.74E+00	2.80E-04	7.80E-02	2.40E+00	2.11E-01	6.11E+00	6.41E+00	1.84E+01
4963	487863.09	3862877.25	2.30791	1.04036	2.95839	2.89671	3.339	1.995	0.9201	1.04036	1.61E+01	1.92E+00	3.08E-04	1.02E-01	1.05E+00	1.88E-01	6.52E+00	7.07E+00	1.88E+01
4964	488363.09	3862877.25	2.48371	1.08258	2.31316	3.42779	2.883	1.668	0.9512	1.08258	1.73E+01	2.00E+00	2.41E-04	1.21E-01	9.03E-01	1.57E-01	6.74E+00	7.36E+00	1.99E+01
4965	488863.09	3862877.25	2.98122	1.08284	2.09971	6.42625	2.88	2.278	1.0053	1.08284	2.08E+01	2.00E+00	2.19E-04	2.26E-01	9.02E-01	2.14E-01	7.12E+00	7.36E+00	2.39E+01
4966	489363.09	3862877.25	3.74923	1.09143	2.98031	8.16469	3.215	2.411	1.055	1.09143	2.61E+01	2.02E+00	3.10E-04	2.87E-01	1.01E+00	2.27E-01	7.47E+00	7.42E+00	2.97E+01
4967	489863.09	3862877.25	4.30758	1.16717	2.17166	3.57981	2.344	2.519	1.135	1.16717	3.00E+01	2.16E+00	2.26E-04	1.26E-01	7.34E-01	2.37E-01	8.04E+00	7.94E+00	3.34E+01
4968	490363.09	3862877.25	4.37374	1.2673	1.60225	2.52349	3.917	2.491	1.2213	1.2673	3.05E+01	2.34E+00	1.67E-04	8.88E-02	1.23E+00	2.34E-01	8.65E+00	8.62E+00	3.44E+01
4969	490863.09	3862877.25	3.70953	1.37226	1.76333	2.31254	6.867	2.108	1.3181	1.37226	2.59E+01	2.53E+00	1.84E-04	8.14E-02	2.15E+00	1.98E-01	9.34E+00	9.33E+00	3.08E+01
4970	491363.09	3862877.25	2.60525	1.40793	1.91785	1.81571	6.959	1.84	1.3768	1.40793	1.82E+01	2.60E+00	2.00E-04	6.39E-02	2.18E+00	1.73E-01	9.76E+00	9.57E+00	2.34E+01
4971	491863.09	3862877.25	2.16497	1.48049	1.77586	1.86794	6.653	1.589	1.5201	1.48049	1.51E+01	2.73E+00	1.85E-04	6.57E-02	2.08E+00	1.49E-01	1.08E+01	1.01E+01	2.08E+01
4972	492363.09	3862877.25	2.02413	1.64849	1.7364	2.12868	5.592	1.551	1.6448	1.64849	1.41E+01	3.04E+00	1.81E-04	7.49E-02	1.75E+00	1.46E-01	1.17E+01	1.12E+01	1.96E+01
4973	492863.09	3862877.25	2.14697	1.78554	2.05693	1.93715	4.346	1.404	1.7792	1.78554	1.50E+01	3.30E+00	2.14E-04	6.82E-02	1.36E+00	1.32E-01	1.26E+01	1.21E+01	2.03E+01
4974	493363.09	3862877.25	2.34265	1.90353	2.09868	2.00481	3.003	1.634	2.0743	1.90353	1.63E+01	3.52E+00	2.18E-04	7.06E-02	9.41E-01	1.54E-01	1.47E+01	1.29E+01	2.28E+01
4975	493863.09	3862877.25	2.48845	2.01597	1.90993	2.10032	3.45	1.804	2.2097	2.01597	1.73E+01	3.72E+00	1.99E-04	7.39E-02	1.08E+00	1.70E-01	1.57E+01	1.37E+01	2.43E+01
4976	494363.09	3862877.25	2.59432	2.37289	2.04977	1.85019	3.136	1.73	2.4742	2.37289	1.81E+01	4.38E+00	2.13E-04	6.51E-02	9.83E-01	1.63E-01	1.75E+01	1.61E+01	2.51E+01
4977	494863.09	3862877.25	2.62473	2.91027	2.95339	1.93207	2.463	1.813	2.8425	2.91027	1.83E+01	5.38E+00	3.07E-04	6.80E-02	7.72E-01	1.70E-01	2.01E+01	1.98E+01	2.50E+01
4978	495363.09	3862877.25	2.70168	3.39213	3.87981	2.4982	3.213	2.005	3.3079	3.39213	1.88E+01	6.27E+00	4.04E-04	8.79E-02	1.01E+00	1.88E-01	2.34E+01	2.31E+01	2.68E+01
4979	495863.09	3862877.25	2.60634	3.839	3.95761	2.65571	3.883	2.146	3.6665	3.839	1.82E+01	7.09E+00	4.12E-04	9.35E-02	1.22E+00	2.02E-01	2.60E+01	2.61E+01	2.66E+01
4980	496363.09	3862877.25	2.36746	3.67298	3.38639	2.52583	4.273	2.088	3.6352	3.67298	1.65E+01	6.78E+00	3.53E-04	8.89E-02	1.34E+00	1.96E-01	2.58E+01	2.50E+01	2.57E+01
4981	496863.09	3862877.25	2.10176	3.9479	2.62365	2.09511	4.373	1.886	3.9977	3.9479	1.47E+01	7.29E+00	2.73E-04	7.37E-02	1.37E+00	1.77E-01	2.83E+01	2.68E+01	2.50E+01
4982	497363.09	3862877.25	1.84286	4.35255	2.16823	1.72207	4.563	1.656	4.3908	4.35255	1.28E+01	8.04E+00	2.26E-04	6.06E-02	1.43E+00	1.56E-01	3.11E+01	2.96E+01	2.40E+01
4983	497863.09	3862877.25	1.64422	4.82196	1.92755	1.57065	4.154	1.573	4.7911	4.82196	1.15E+01	8.91E+00	2.01E-04	5.53E-02	1.30E+00	1.48E-01	3.39E+01	3.28E+01	2.30E+01
4984	498363.09	3862877.25	1.52741	5.02426	1.89643	1.46752	3.265	1.655	5.0088	5.02426	1.06E+01	9.28E+00	1.97E-04	5.17E-02	1.02E+00	1.56E-01	3.55E+01	3.42E+01	2.25E+01
4985	471363.09	3863377.25	1.00258	0.3817	0.79832	1.05929	2.448	0.901	0.3685	0.3817	6.99E+00	7.05E-01	8.31E-05	3.73E-02	7.67E-01	8.47E-02	2.61E+00	2.60E+00	8.60E+00
4986	471863.09	3863377.25	1.03267	0.38617	0.76602	1.0824	2.637	0.917	0.3726	0.38617	7.20E+00	7.13E-01	7.97E-05	3.81E-02	8.26E-01	8.62E-02	2.64E+00	2.63E+00	8.88E+00
4987	472363.09	3863377.25	1.05831	0.39062	0.74826	1.06692	2.866	0.936	0.3777	0.39062	7.38E+00	7.21E-01	7.79E-05	3.76E-02	8.98E-01	8.80E-02	2.68E+00	2.66E+00	9.14E+00
4988	472863.09	3863377.25	1.07953	0.39431	0.85215	1.01191	3.25	0.951	0.3806	0.39431	7.53E+00	7.28E-01	8.87E-05	3.56E-02	1.02E+00	8.94E-02	2.70E+00	2.68E+00	9.41E+00
4989	473363.09	3863377.25	1.10526	0.39442	0.99669	0.9427	3.516	0.96	0.3802	0.39442	7.71E+00	7.28E-01	1.04E-04	3.32E-02	1.10E+00	9.03E-02	2.69E+00	2.68E+00	9.67E+00
4990	473863.09	3863377.25	1.12702	0.39289	1.22533	0.86311	3.73	0.986	0.3797	0.39289	7.86E+00	7.26E-01	1.28E-04	3.04E-02	1.17E+00	9.27E-02	2.69E+00	2.67E+00	9.89E+00
4991	474363.09	3863377.25	1.13534	0.39536	1.29658	0.81314	3.801	1.014	0.3828	0.39536	7.92E+00	7.30E-01	1.35E-04	2.86E-02	1.19E+00	9.53E-02	2.71E+00	2.69E+00	9.98E+00
4992	474863.09	3863377.25	1.13157	0.40273	1.23983	0.78849	3.539	1.049	0.3874	0.40273	7.89E+00	7.44E-01	1.29E-04	2.78E-02	1.11E+00	9.86E-02	2.75E+00	2.74E+00	9.87E+00
4993	475363.09	3863377.25	1.18885	0.41188	1.07077	0.80397	3.302	1.076	0.3963	0.41188	8.29E+00	7.61E-01	1.11E-04	2.83E-02	1.03E+00	1.01E-01	2.81E+00	2.80E+00	1.02E+01
4994	475863.09	3863377.25	1.23754	0.42076	1.05259	0.86139	3.003	1.092	0.4036	0.42076	8.63E+00	7.77E-01	1.10E-04	3.03E-02	9.41E-01	1.03E-01	2.86E+00	2.86E+00	1.05E+01
4995	476363.09	3863377.25	1.26833	0.42703	1.10491	0.93548	2.75	1.102	0.4106	0.42703	8.84E+00	7.89E-01	1.15E-04	3.29E-02	8.62E-01	1.04E-01	2.91E+00	2.90E+00	1.06E+01
4996	476863.09	3863377.25	1.28205	0.43603	1.22686	1.00647	2.906	1.093	0.4182	0.43603	8.94E+00	8.05E-01	1.28E-04	3.54E-02	9.10E-01	1.03E-01	2.96E+00	2.96E+00	1.08E+01
4997	477363.09	3863377.25	1.27432	0.44832	1.42204	1.0905	3.41	1.081	0.4243	0.44832	8.88E+00	8.28E-01	1.48E-04	3.84E-02	1.07E+00	1.02E-01	3.01E+00	3.05E+00	1.09E+01
4998	477863.09	3863377.25	1.25189	0.45383	1.32923	1.28406	4.245	1.061	0.4307	0.45383	8.73E+00	8.38E-01	1.38E-04	4.52E-02	1.33E+00	9.97E-02	3.05E+00	3.09E+00	1.10E+01
4999	478363.09	3863377.25	1.22577	0.43808	1.18525	1.41779	5.505	0.976	0.431	0.43808	8.55E+00	8.09E-01	1.23E-04	4.99E-02	1.72E+00	9.17E-02	3.05E+00	2.98E+00	1.13E+01
5000	478863.09	3863377.25	1.20002	0.44097	1.31838	1.47013	5.409	1.066	0.4283	0.44097	8.37E+00	8.14E-01	1.37E-04	5.17E-02	1.69E+00	1.00E-01	3.03E+00	3.00E+00	1.11E+01
5001	479363.09	3863377.25	1.16511	0.48037	1.43024	1.28526	5.018	1.199	0.4612	0.48037	8.12E+00	8.87E-01	1.49E-04	4.52E-02	1.57E+00	1.13E-01	3.27E+00	3.27E+00	1.07E+01
5002	479863.09	3863377.25	1.11963	0.50886	1.65462	1.16657	4.457	1.279	0.4901	0.50886	7.81E+00	9.40E-01	1.72E-04	4.11E-02	1.40E+00	1.20E-01	3.47E+00	3.46E+00	1.03E+01
5003	480363.09	3863377.25	1.13147	0.52766	1.66467	1.11633	5.056	1.276	0.521	0.52766	7.89E+00	9.75E-01	1.73E-04	3.93E-02	1.58E+00	1.20E-01	3.69E+00	3.59E+00	1.07E+01
5004	480863.09	3863377.25	1.1738	0.56284	1.67214	1.04108	5.743	1.241	0.5509	0.56284	8.18E+00	1.04E+00	1.74E-04	3.66E-02	1.80E+00	1.17E-01	3.90E+00	3.83E+00	1.13E+01
5005	481363.09	3863377.25	1.20596	0.639	1.78357	1.06485	5.791	1.223	0.5908	0.639	8.41E+00	1.18E+00	1.86E-04	3.75E-02	1.81E+00	1.15E-01	4.19E+00	4.35E+00	1.14E+01
5006	481863.09	3863377.25	1.35764	0.69133	2.08699	1.23359	5.201	1.241	0.6074	0.69133	9.47E+00	1.28E+00	2.17E-04	4.34E-02	1.63E+00	1.17E-01	4.30E+00	4.70E+00	1.21E+01
5007	482363.09	3863377.25	1.52369	0.64856	2.2168	1.52049	3.994	1.253	0.5836	0.64856	1.06E+01	1.20E+00	2.31E-04	5.35E-02	1.25E+00	1.18E-01	4.13E+00	4.41E+00	1.30E+01
5008	482863.09	3863377.25	1.63079	0.62438	1.52771	1.64798	2.792	1.205	0.5949	0.62438	1.14E+01	1.15E+00	1.59E-04	5.80E-02	8.75E-01	1.13E-01	4.22E+00	4.25E+00	1.35E+01
5009	483363.09	3863377.25	1.66439	0.63463	1.78008	1.62248	4.029	1.154	0.6143	0.63463	1.16E+01	1.17E+00	1.85E-04	5.71E-02	1.26E+00	1.08E-01	4.35E+00	4.32E+00	1.42E+01
5010	483863.09	3863377.25	1.60006	0.65222	2.6412	1.57727	5.18	1.219	0.6391	0.65222	1.12E+01	1.20E+00	2.75E-04	5.55E-02	1.62E+00	1.15E-01	4.53E+00	4.43E+00	1.42E+01
5011	484363.09	3863377.25	1.50856	0.67326	2.14108	1.8041	5.705	1.253	0.6662	0.67326	1.05E+01	1.24E+00	2.23E-04	6.35E-02	1.79E+00	1.18E-01	4.72E+00	4.58E+00	1.39E+01
5012	484863.09	3863377.25	1.45337	0.69307	2.28808	1.86085	4.595	1.276	0.6884	0.69307	1.01E+01	1.28E+00	2.38E-04	6.55E-02	1.44E+00	1.20E-01	4.88E+00	4.71E+00	1.32E+01

5013	485363.09	3863377.25	1.48602	0.71125	2.21522	1.89604	3.665	1.396	0.711	0.71125	1.04E+01	1.31E+00	2.31E-04	6.67E-02	1.15E+00	1.31E-01	5.04E+00	4.84E+00	1.32E+01
5014	485863.09	3863377.25	1.60412	0.72369	2.26291	1.81414	5.446	1.618	0.7261	0.72369	1.12E+01	1.34E+00	2.36E-04	6.39E-02	1.71E+00	1.52E-01	5.14E+00	4.92E+00	1.47E+01
5015	486363.09	3863377.25	1.64411	0.74734	2.10491	1.75483	4.813	1.625	0.745	0.74734	1.15E+01	1.38E+00	2.19E-04	6.18E-02	1.51E+00	1.53E-01	5.28E+00	5.08E+00	1.48E+01
5016	486863.09	3863377.25	1.7224	0.77298	2.58304	1.83035	6.357	1.671	0.7694	0.77298	1.20E+01	1.43E+00	2.69E-04	6.44E-02	1.99E+00	1.57E-01	5.45E+00	5.26E+00	1.58E+01
5017	487363.09	3863377.25	1.82323	0.83631	2.35802	2.35084	6.92	1.992	0.8015	0.83631	1.27E+01	1.54E+00	2.45E-04	8.27E-02	2.17E+00	1.87E-01	5.68E+00	5.69E+00	1.67E+01
5018	487863.09	3863377.25	1.99135	0.94362	2.05289	2.75453	2.954	1.759	0.8618	0.94362	1.39E+01	1.74E+00	2.14E-04	9.69E-02	9.26E-01	1.65E-01	6.11E+00	6.42E+00	1.65E+01
5019	488363.09	3863377.25	2.15546	1.01433	2.15013	3.28468	2.598	1.412	0.9099	1.01433	1.50E+01	1.87E+00	2.24E-04	1.16E-01	8.14E-01	1.33E-01	6.45E+00	6.90E+00	1.75E+01
5020	488863.09	3863377.25	2.45871	1.04217	1.61682	6.32613	2.379	1.704	0.9542	1.04217	1.71E+01	1.92E+00	1.68E-04	2.23E-01	7.45E-01	1.60E-01	6.76E+00	7.09E+00	1.99E+01
5021	489363.09	3863377.25	3.0593	1.04254	2.53866	7.90677	3.087	2.235	0.9783	1.04254	2.13E+01	1.93E+00	2.64E-04	2.78E-01	9.67E-01	2.10E-01	6.93E+00	7.09E+00	2.46E+01
5022	489863.09	3863377.25	3.55951	1.03271	1.72464	3.47765	2.265	2.096	1.0129	1.03271	2.48E+01	1.91E+00	1.80E-04	1.22E-01	7.10E-01	1.97E-01	7.18E+00	7.02E+00	2.79E+01
5023	490363.09	3863377.25	4.00318	1.08739	1.45369	2.49231	2.266	2.183	1.0577	1.08739	2.79E+01	2.01E+00	1.51E-04	8.77E-02	7.10E-01	2.05E-01	7.49E+00	7.39E+00	3.10E+01
5024	490863.09	3863377.25	3.89774	1.14711	1.65611	2.18328	5.023	2.136	1.1171	1.14711	2.72E+01	2.12E+00	1.72E-04	7.68E-02	1.57E+00	2.01E-01	7.92E+00	7.80E+00	3.13E+01
5025	491363.09	3863377.25	3.15092	1.25134	1.25636	1.72258	6.618	1.786	1.1903	1.25134	2.20E+01	2.31E+00	1.31E-04	6.06E-02	2.07E+00	1.68E-01	8.43E+00	8.51E+00	2.65E+01
5026	491863.09	3863377.25	2.27499	1.25745	1.92333	1.54528	5.819	1.559	1.234	1.25745	1.59E+01	2.32E+00	2.00E-04	5.44E-02	1.82E+00	1.47E-01	8.74E+00	8.55E+00	2.04E+01
5027	492363.09	3863377.25	2.00273	1.30238	1.59827	1.81995	5.914	1.468	1.3462	1.30238	1.40E+01	2.41E+00	1.66E-04	6.41E-02	1.85E+00	1.38E-01	9.54E+00	8.86E+00	1.91E+01
5028	492863.09	3863377.25	1.92133	1.18987	1.72568	1.98142	5.268	1.372	1.2255	1.18987	1.34E+01	2.20E+00	1.80E-04	6.97E-02	1.65E+00	1.29E-01	8.68E+00	8.09E+00	1.80E+01
5029	493363.09	3863377.25	2.0501	1.18488	2.04149	1.83035	3.971	1.36	1.2086	1.18488	1.43E+01	2.19E+00	2.13E-04	6.44E-02	1.24E+00	1.28E-01	8.56E+00	8.06E+00	1.84E+01
5030	493863.09	3863377.25	2.21811	1.57187	2.05897	1.84914	2.871	1.512	1.6773	1.57187	1.55E+01	2.90E+00	2.14E-04	6.51E-02	9.00E-01	1.42E-01	1.19E+01	1.07E+01	2.07E+01
5031	494363.09	3863377.25	2.33704	1.52502	1.76547	1.9316	3.268	1.629	1.6619	1.52502	1.63E+01	2.82E+00	1.84E-04	6.80E-02	1.02E+00	1.53E-01	1.18E+01	1.04E+01	2.18E+01
5032	494863.09	3863377.25	2.51119	1.42579	1.80008	1.77258	3.01	1.625	1.5243	1.42579	1.75E+01	2.63E+00	1.87E-04	6.24E-02	9.43E-01	1.53E-01	1.08E+01	9.70E+00	2.24E+01
5033	495363.09	3863377.25	2.62715	1.93642	2.55051	1.57444	2.469	1.667	1.7875	1.93642	1.83E+01	3.58E+00	2.66E-04	5.54E-02	7.73E-01	1.57E-01	1.27E+01	1.32E+01	2.24E+01
5034	495863.09	3863377.25	2.71676	2.69744	3.6485	2.13467	2.831	1.953	2.7015	2.69744	1.89E+01	4.98E+00	3.80E-04	7.51E-02	8.87E-01	1.84E-01	1.91E+01	1.83E+01	2.59E+01
5035	496363.09	3863377.25	2.53778	2.94536	3.64936	2.32361	3.329	1.908	2.9554	2.94536	1.77E+01	5.44E+00	3.80E-04	8.18E-02	1.04E+00	1.79E-01	2.09E+01	2.00E+01	2.53E+01
5036	496863.09	3863377.25	2.36247	3.0732	3.3828	2.2389	3.706	1.907	2.977	3.0732	1.65E+01	5.68E+00	3.52E-04	7.88E-02	1.16E+00	1.79E-01	2.11E+01	2.09E+01	2.38E+01
5037	497363.09	3863377.25	2.13007	2.86917	2.87912	2.11549	3.862	1.803	2.9112	2.86917	1.49E+01	5.30E+00	3.00E-04	7.45E-02	1.21E+00	1.69E-01	2.06E+01	1.95E+01	2.27E+01
5038	497863.09	3863377.25	1.89221	2.8887	2.24709	1.81458	3.988	1.601	2.9586	2.8887	1.32E+01	5.34E+00	2.34E-04	6.39E-02	1.25E+00	1.50E-01	2.10E+01	1.96E+01	2.13E+01
5039	498363.09	3863377.25	1.67879	3.02159	1.87474	1.50201	4.089	1.419	3.134	3.02159	1.17E+01	5.58E+00	1.95E-04	5.29E-02	1.28E+00	1.33E-01	2.22E+01	2.05E+01	2.04E+01
5040	471363.09	3863877.25	0.99094	0.37433	0.71617	0.90351	2.78	0.864	0.3626	0.37433	6.91E+00	6.91E-01	7.46E-05	3.18E-02	8.71E-01	8.13E-02	2.57E+00	2.55E+00	8.61E+00
5041	471863.09	3863877.25	1.02904	0.37854	0.80266	0.83988	3.089	0.88	0.3689	0.37854	7.17E+00	6.99E-01	8.36E-05	2.96E-02	9.68E-01	8.28E-02	2.61E+00	2.57E+00	8.99E+00
5042	472363.09	3863877.25	1.05425	0.38481	0.90695	0.7625	3.27	0.92	0.3741	0.38481	7.35E+00	7.11E-01	9.44E-05	2.68E-02	1.02E+00	8.64E-02	2.65E+00	2.62E+00	9.23E+00
5043	472863.09	3863877.25	1.07557	0.38974	1.02472	0.72499	3.449	0.946	0.3788	0.38974	7.50E+00	7.20E-01	1.07E-04	2.55E-02	1.08E+00	8.90E-02	2.68E+00	2.65E+00	9.45E+00
5044	473363.09	3863877.25	1.08067	0.39164	1.12802	0.70548	3.419	0.965	0.3793	0.39164	7.53E+00	7.23E-01	1.17E-04	2.48E-02	1.07E+00	9.07E-02	2.69E+00	2.66E+00	9.47E+00
5045	473863.09	3863877.25	1.08239	0.3916	1.17697	0.71806	3.165	1.001	0.3811	0.3916	7.55E+00	7.23E-01	1.23E-04	2.53E-02	9.92E-01	9.41E-02	2.70E+00	2.66E+00	9.42E+00
5046	474363.09	3863877.25	1.08547	0.3955	1.07698	0.75903	2.976	1.032	0.3852	0.3955	7.57E+00	7.30E-01	1.12E-04	2.67E-02	9.32E-01	9.70E-02	2.73E+00	2.69E+00	9.39E+00
5047	474863.09	3863877.25	1.12084	0.40424	0.99488	0.80058	2.7	1.036	0.3923	0.40424	7.81E+00	7.47E-01	1.04E-04	2.82E-02	8.46E-01	9.74E-02	2.78E+00	2.75E+00	9.56E+00
5048	475363.09	3863877.25	1.16184	0.41095	1.05432	0.87745	2.449	1.058	0.4013	0.41095	8.10E+00	7.59E-01	1.10E-04	3.09E-02	7.67E-01	9.95E-02	2.84E+00	2.79E+00	9.81E+00
5049	475863.09	3863877.25	1.17095	0.41844	1.09274	0.90357	2.569	1.043	0.4085	0.41844	8.16E+00	7.73E-01	1.14E-04	3.18E-02	8.05E-01	9.80E-02	2.89E+00	2.85E+00	9.92E+00
5050	476363.09	3863877.25	1.17052	0.42533	1.15994	0.98951	2.919	1.035	0.416	0.42533	8.16E+00	7.86E-01	1.21E-04	3.48E-02	9.14E-01	9.73E-02	2.95E+00	2.89E+00	1.00E+01
5051	476863.09	3863877.25	1.13129	0.43248	1.17733	1.05613	3.403	1.021	0.4239	0.43248	7.89E+00	7.99E-01	1.23E-04	3.72E-02	1.07E+00	9.60E-02	3.00E+00	2.94E+00	9.95E+00
5052	477363.09	3863877.25	1.09998	0.44548	1.14807	1.13486	4.176	1.016	0.431	0.44548	7.67E+00	8.23E-01	1.20E-04	3.99E-02	1.31E+00	9.55E-02	3.05E+00	3.03E+00	9.96E+00
5053	477863.09	3863877.25	1.10181	0.45865	1.1097	1.19979	4.57	1.031	0.4367	0.45865	7.68E+00	8.47E-01	1.16E-04	4.22E-02	1.43E+00	9.69E-02	3.09E+00	3.12E+00	1.01E+01
5054	478363.09	3863877.25	1.12589	0.44934	1.52483	1.15645	4.73	1.081	0.4297	0.44934	7.85E+00	8.30E-01	1.59E-04	4.07E-02	1.48E+00	1.02E-01	3.04E+00	3.06E+00	1.03E+01
5055	478863.09	3863877.25	1.0931	0.48044	1.52453	1.11084	4.453	1.198	0.4596	0.48044	7.62E+00	8.87E-01	1.59E-04	3.91E-02	1.40E+00	1.13E-01	3.26E+00	3.27E+00	1.00E+01
5056	479363.09	3863877.25	1.07663	0.50979	1.40785	1.04872	4.007	1.239	0.4877	0.50979	7.51E+00	9.42E-01	1.47E-04	3.69E-02	1.26E+00	1.17E-01	3.46E+00	3.47E+00	9.85E+00
5057	479863.09	3863877.25	1.05833	0.52135	1.23689	0.95577	4.81	1.17	0.5182	0.52135	7.38E+00	9.63E-01	1.29E-04	3.36E-02	1.51E+00	1.10E-01	3.67E+00	3.55E+00	1.01E+01
5058	480363.09	3863877.25	1.07133	0.54496	1.46129	0.94275	5.269	1.085	0.5409	0.54496	7.47E+00	1.01E+00	1.52E-04	3.32E-02	1.65E+00	1.02E-01	3.83E+00	3.71E+00	1.04E+01
5059	480863.09	3863877.25	1.14674	0.58019	1.66278	1.07136	5.282	1.104	0.5668	0.58019	7.99E+00	1.07E+00	1.73E-04	3.77E-02	1.65E+00	1.04E-01	4.02E+00	3.95E+00	1.09E+01
5060	481363.09	3863877.25	1.20348	0.64973	1.63095	1.23711	4.721	1.074	0.5979	0.64973	8.39E+00	1.20E+00	1.70E-04	4.35E-02	1.48E+00	1.01E-01	4.24E+00	4.42E+00	1.10E+01
5061	481863.09	3863877.25	1.33067	0.68147	1.90323	1.44185	3.644	1.048	0.6041	0.68147	9.28E+00	1.26E+00	1.98E-04	5.07E-02	1.14E+00	9.85E-02	4.28E+00	4.63E+00	1.15E+01
5062	482363.09	3863877.25	1.47652	0.63761	1.65143	1.49467	2.581	1.096	0.5813	0.63761	1.03E+01	1.18E+00	1.72E-04	5.26E-02	8.09E-01	1.03E-01	4.12E+00	4.34E+00	1.22E+01
5063	482863.09	3863877.25	1.57231	0.6154	1.44889	1.43241	3.267	1.078	0.5809	0.6154	1.10E+01	1.14E+00	1.51E-04	5.04E-02	1.02E+00	1.01E-01	4.12E+00	4.18E+00	1.32E+01
5064	483363.09	3863877.25	1.59344	0.62223	2.21692	1.46496	4.365	1.096	0.5944	0.62223	1.11E+01	1.15E+00	2.31E-04	5.16E-02	1.37E+00	1.03E-01	4.21E+00	4.23E+00	1.38E+01
5065	483863.09	3863877.25	1.52243	0.63333	2.13489	1.66399	5.008	1.147	0.6152	0.63333	1.06E+01	1.17E+00	2.22E-04	5.86E-02	1.57E+00	1.08E-01	4.36E+00	4.31E+00	1.36E+01
5066	484363.09	3863877.25	1.40465	0.64402	2.03861	1.69186	4.776	1.148	0.6331	0.64402	9.79E+00	1.19E+00	2.12E-04	5.95E-02	1.50E+00	1.08E-01	4.49E+00	4.38E+00	1.28E+01
5067	484863.09	3863877.25	1.33211	0.65277	1.99432	1.70949	3.263	1.194	0.6424	0.65277	9.29E+00	1.21E+00	2.08E-04	6.02E-02	1.02E+00	1.12E-01	4.55E+00	4.44E+00	1.18E+01
5068	485363.09	3863877.25	1.34932	0.6588	2.09838	1.62507	4.122	1.292	0.6503	0.6588	9.41E+00	1.22E+00	2.18E-04	5.72E-02	1.29E+00	1.21E-01	4.61E+00	4.48E+00	1.22E+01
5069	485863.09	3863877.25	1.54451	0.66272	1.58984	1.57786	4.926	1.514	0.6622	0.66272	1.08E+01	1.22E+00	1.66E-04	5.55E-02	1.54E+00	1.42E-01	4.69E+00	4.51E+00	1.39E+01

5070	486363.09	3863877.25	1.62282	0.68643	1.78967	1.59488	3.995	1.529	0.6866	0.68643	1.13E+01	1.27E+00	1.86E-04	5.61E-02	1.25E+00	1.44E-01	4.86E+00	4.67E+00	1.42E+01
5071	486863.09	3863877.25	1.66527	0.7094	2.76433	1.89419	6.449	1.626	0.7094	0.7094	1.16E+01	1.31E+00	2.88E-04	6.67E-02	2.02E+00	1.53E-01	5.03E+00	4.82E+00	1.54E+01
5072	487363.09	3863877.25	1.68386	0.73957	2.05087	2.34513	6.175	1.704	0.7414	0.73957	1.17E+01	1.37E+00	2.14E-04	8.25E-02	1.93E+00	1.60E-01	5.25E+00	5.03E+00	1.55E+01
5073	487863.09	3863877.25	1.67161	0.82004	1.36373	2.54984	2.638	1.667	0.7773	0.82004	1.17E+01	1.51E+00	1.42E-04	8.97E-02	8.27E-01	1.57E-01	5.51E+00	5.58E+00	1.42E+01
5074	488363.09	3863877.25	1.85456	0.90736	1.8899	3.06493	2.368	1.348	0.8232	0.90736	1.29E+01	1.68E+00	1.97E-04	1.08E-01	7.42E-01	1.27E-01	5.83E+00	6.17E+00	1.52E+01
5075	488863.09	3863877.25	2.11048	0.92636	1.77394	6.05607	1.965	1.353	0.8346	0.92636	1.47E+01	1.71E+00	1.85E-04	2.13E-01	6.16E-01	1.27E-01	5.91E+00	6.30E+00	1.70E+01
5076	489363.09	3863877.25	2.53689	0.9296	2.20961	4.93648	2.791	1.816	0.8574	0.9296	1.77E+01	1.72E+00	2.30E-04	1.74E-01	8.75E-01	1.71E-01	6.07E+00	6.32E+00	2.04E+01
5077	489863.09	3863877.25	2.98745	0.89835	1.37818	2.85192	2.305	1.818	0.8496	0.89835	2.08E+01	1.66E+00	1.43E-04	1.00E-01	7.22E-01	1.71E-01	6.02E+00	6.11E+00	2.34E+01
5078	490363.09	3863877.25	3.44988	0.89123	1.38721	2.48777	1.678	1.894	0.8666	0.89123	2.41E+01	1.65E+00	1.44E-04	8.76E-02	5.26E-01	1.78E-01	6.14E+00	6.06E+00	2.66E+01
5079	490863.09	3863877.25	3.70738	0.9901	1.48002	2.05686	3.183	1.937	0.8951	0.9901	2.58E+01	1.83E+00	1.54E-04	7.24E-02	9.97E-01	1.82E-01	6.34E+00	6.73E+00	2.85E+01
5080	491363.09	3863877.25	3.44037	1.0888	1.16766	1.66964	5.404	1.918	0.9714	1.0888	2.40E+01	2.01E+00	1.22E-04	5.88E-02	1.69E+00	1.80E-01	6.88E+00	7.40E+00	2.74E+01
5081	491863.09	3863877.25	2.80562	1.08954	1.51563	1.52435	6.083	1.677	1.0409	1.08954	1.96E+01	2.01E+00	1.58E-04	5.37E-02	1.91E+00	1.58E-01	7.37E+00	7.41E+00	2.37E+01
5082	492363.09	3863877.25	2.2251	1.03854	1.83803	1.53888	5.818	1.429	1.1062	1.03854	1.55E+01	1.92E+00	1.91E-04	5.42E-02	1.82E+00	1.34E-01	7.84E+00	7.06E+00	2.02E+01
5083	492863.09	3863877.25	2.02806	0.91961	1.64962	2.09379	5.57	1.473	1.1643	0.91961	1.41E+01	1.70E+00	1.72E-04	7.37E-02	1.75E+00	1.38E-01	8.25E+00	6.25E+00	1.98E+01
5084	493363.09	3863877.25	1.93105	0.99923	1.66766	2.12663	4.922	1.453	1.0409	0.99923	1.35E+01	1.85E+00	1.74E-04	7.48E-02	1.54E+00	1.37E-01	7.38E+00	6.79E+00	1.76E+01
5085	493863.09	3863877.25	1.93701	1.07915	1.91293	1.80206	3.467	1.351	1.0527	1.07915	1.35E+01	1.99E+00	1.99E-04	6.34E-02	1.09E+00	1.27E-01	7.46E+00	7.34E+00	1.69E+01
5086	494363.09	3863877.25	2.0211	1.20588	1.87275	1.69712	2.65	1.253	1.3195	1.20588	1.41E+01	2.23E+00	1.95E-04	5.97E-02	8.30E-01	1.18E-01	9.35E+00	8.20E+00	1.85E+01
5087	494863.09	3863877.25	2.16739	1.06453	1.69004	1.75996	3.072	1.614	1.2986	1.06453	1.51E+01	1.97E+00	1.76E-04	6.19E-02	9.63E-01	1.52E-01	9.20E+00	7.24E+00	2.02E+01
5088	495363.09	3863877.25	2.36891	1.20253	1.54717	1.61124	2.804	1.73	1.3664	1.20253	1.65E+01	2.22E+00	1.61E-04	5.67E-02	8.79E-01	1.63E-01	9.68E+00	8.18E+00	2.13E+01
5089	495863.09	3863877.25	2.48194	1.59017	1.79904	1.38645	2.386	1.703	1.3905	1.59017	1.73E+01	2.94E+00	1.87E-04	4.88E-02	7.47E-01	1.60E-01	9.85E+00	1.08E+01	2.02E+01
5090	496363.09	3863877.25	2.43686	2.00292	2.53027	1.65739	2.23	1.589	1.9439	2.00292	1.70E+01	3.70E+00	2.63E-04	5.83E-02	6.99E-01	1.49E-01	1.38E+01	1.36E+01	2.17E+01
5091	496863.09	3863877.25	2.41085	2.43031	3.09841	1.98845	2.865	1.703	2.3719	2.43031	1.68E+01	4.49E+00	3.23E-04	7.00E-02	8.98E-01	1.60E-01	1.68E+01	1.65E+01	2.27E+01
5092	497363.09	3863877.25	2.33841	2.53772	3.24744	2.05947	3.274	1.755	2.4687	2.53772	1.63E+01	4.69E+00	3.38E-04	7.25E-02	1.03E+00	1.65E-01	1.75E+01	1.73E+01	2.25E+01
5093	497863.09	3863877.25	2.20509	2.60778	3.01586	2.0016	3.508	1.74	2.5605	2.60778	1.54E+01	4.82E+00	3.14E-04	7.04E-02	1.10E+00	1.64E-01	1.81E+01	1.77E+01	2.19E+01
5094	498363.09	3863877.25	1.95991	2.42336	2.52538	1.85398	3.49	1.606	2.4813	2.42336	1.37E+01	4.48E+00	2.63E-04	6.53E-02	1.09E+00	1.51E-01	1.76E+01	1.65E+01	2.06E+01
5095	471363.09	3864377.25	1.00159	0.37383	0.86686	0.66796	3.049	0.884	0.3652	0.37383	6.98E+00	6.90E-01	9.02E-05	2.35E-02	9.55E-01	8.31E-02	2.59E+00	2.54E+00	8.78E+00
5096	471863.09	3864377.25	1.03084	0.38056	0.90947	0.66003	3.194	0.904	0.3721	0.38056	7.19E+00	7.03E-01	9.47E-05	2.32E-02	1.00E+00	8.50E-02	2.64E+00	2.59E+00	9.05E+00
5097	472363.09	3864377.25	1.04899	0.38891	0.98887	0.66303	3.124	0.944	0.3804	0.38891	7.31E+00	7.18E-01	1.03E-04	2.33E-02	9.79E-01	8.87E-02	2.70E+00	2.64E+00	9.17E+00
5098	472863.09	3864377.25	1.05366	0.39521	1.06622	0.69627	2.851	0.985	0.3871	0.39521	7.35E+00	7.30E-01	1.11E-04	2.45E-02	8.93E-01	9.26E-02	2.74E+00	2.69E+00	9.14E+00
5099	473363.09	3864377.25	1.02565	0.39952	1.02096	0.73638	2.7	0.998	0.3893	0.39952	7.15E+00	7.38E-01	1.06E-04	2.59E-02	8.46E-01	9.38E-02	2.76E+00	2.72E+00	8.90E+00
5100	473863.09	3864377.25	1.02092	0.40211	0.97539	0.77846	2.476	1.003	0.3916	0.40211	7.12E+00	7.43E-01	1.02E-04	2.74E-02	7.76E-01	9.43E-02	2.77E+00	2.73E+00	8.80E+00
5101	474363.09	3864377.25	1.05231	0.40609	1.02253	0.81767	2.213	1.008	0.3969	0.40609	7.34E+00	7.50E-01	1.06E-04	2.88E-02	6.93E-01	9.47E-02	2.81E+00	2.76E+00	8.95E+00
5102	474863.09	3864377.25	1.05868	0.41475	1.02891	0.84798	2.294	0.983	0.4043	0.41475	7.38E+00	7.66E-01	1.07E-04	2.98E-02	7.19E-01	9.24E-02	2.86E+00	2.82E+00	9.03E+00
5103	475363.09	3864377.25	1.06806	0.42103	1.01902	0.9021	2.571	0.963	0.4121	0.42103	7.45E+00	7.78E-01	1.06E-04	3.18E-02	8.06E-01	9.05E-02	2.92E+00	2.86E+00	9.21E+00
5104	475863.09	3864377.25	1.0674	0.42727	1.04347	0.97627	2.944	0.954	0.4186	0.42727	7.44E+00	7.89E-01	1.09E-04	3.44E-02	9.23E-01	8.97E-02	2.97E+00	2.91E+00	9.34E+00
5105	476363.09	3864377.25	1.05142	0.43231	1.08586	1.00464	3.514	0.941	0.4254	0.43231	7.33E+00	7.98E-01	1.13E-04	3.54E-02	1.10E+00	8.84E-02	3.01E+00	2.94E+00	9.43E+00
5106	476863.09	3864377.25	1.03149	0.44016	1.08421	1.00775	4.034	0.935	0.4349	0.44016	7.19E+00	8.13E-01	1.13E-04	3.55E-02	1.26E+00	8.79E-02	3.08E+00	2.99E+00	9.48E+00
5107	477363.09	3864377.25	1.00782	0.45553	1.14585	0.94927	4.105	1.001	0.4475	0.45553	7.03E+00	8.41E-01	1.19E-04	3.34E-02	1.29E+00	9.41E-02	3.17E+00	3.10E+00	9.35E+00
5108	477863.09	3864377.25	0.99331	0.46953	1.26895	0.94641	3.998	1.072	0.4599	0.46953	6.93E+00	8.67E-01	1.32E-04	3.33E-02	1.25E+00	1.01E-01	3.26E+00	3.19E+00	9.25E+00
5109	478363.09	3864377.25	0.99118	0.47692	1.32757	0.94245	3.81	1.11	0.4725	0.47692	6.91E+00	8.81E-01	1.38E-04	3.32E-02	1.19E+00	1.04E-01	3.35E+00	3.24E+00	9.23E+00
5110	478863.09	3864377.25	1.02206	0.48447	1.17892	0.89476	3.769	1.085	0.4848	0.48447	7.13E+00	8.95E-01	1.23E-04	3.15E-02	1.18E+00	1.02E-01	3.44E+00	3.29E+00	9.48E+00
5111	479363.09	3864377.25	1.01171	0.5004	1.11886	0.85831	4.504	1.007	0.5002	0.5004	7.05E+00	9.24E-01	1.16E-04	3.02E-02	1.41E+00	9.46E-02	3.54E+00	3.40E+00	9.65E+00
5112	479863.09	3864377.25	1.03216	0.51637	1.24823	0.9406	4.87	0.946	0.5161	0.51637	7.20E+00	9.54E-01	1.30E-04	3.31E-02	1.53E+00	8.89E-02	3.66E+00	3.51E+00	9.94E+00
5113	480363.09	3864377.25	1.09619	0.53296	1.45302	1.04029	4.832	0.964	0.5301	0.53296	7.64E+00	9.84E-01	1.51E-04	3.66E-02	1.51E+00	9.06E-02	3.76E+00	3.62E+00	1.04E+01
5114	480863.09	3864377.25	1.13217	0.56281	1.50308	1.21983	4.297	0.953	0.5487	0.56281	7.89E+00	1.04E+00	1.56E-04	4.29E-02	1.35E+00	8.96E-02	3.89E+00	3.83E+00	1.05E+01
5115	481363.09	3864377.25	1.16202	0.62189	1.44435	1.31846	3.341	0.942	0.5683	0.62189	8.10E+00	1.15E+00	1.50E-04	4.64E-02	1.05E+00	8.85E-02	4.03E+00	4.23E+00	1.02E+01
5116	481863.09	3864377.25	1.29522	0.64157	1.56607	1.30797	2.44	0.993	0.5697	0.64157	9.03E+00	1.18E+00	1.63E-04	4.60E-02	7.65E-01	9.33E-02	4.04E+00	4.36E+00	1.08E+01
5117	482363.09	3864377.25	1.41265	0.60314	1.45949	1.29892	2.625	1.015	0.554	0.60314	9.85E+00	1.11E+00	1.52E-04	4.57E-02	8.22E-01	9.54E-02	3.93E+00	4.10E+00	1.18E+01
5118	482863.09	3864377.25	1.52554	0.58797	1.635	1.38965	3.67	1.01	0.5577	0.58797	1.06E+01	1.09E+00	1.70E-04	4.89E-02	1.15E+00	9.49E-02	3.95E+00	4.00E+00	1.30E+01
5119	483363.09	3864377.25	1.51865	0.59838	1.93202	1.52908	4.346	1.043	0.5764	0.59838	1.06E+01	1.11E+00	2.01E-04	5.38E-02	1.36E+00	9.80E-02	4.08E+00	4.07E+00	1.32E+01
5120	483863.09	3864377.25	1.4099	0.61051	1.93424	1.54221	4.765	1.059	0.5959	0.61051	9.83E+00	1.13E+00	2.01E-04	5.43E-02	1.49E+00	9.95E-02	4.22E+00	4.15E+00	1.27E+01
5121	484363.09	3864377.25	1.28352	0.62199	1.91158	1.54539	3.811	1.045	0.6128	0.62199	8.95E+00	1.15E+00	1.99E-04	5.44E-02	1.19E+00	9.83E-02	4.34E+00	4.23E+00	1.16E+01
5122	484863.09	3864377.25	1.22197	0.63128	1.7059	1.45952	2.758	1.101	0.6232	0.63128	8.52E+00	1.17E+00	1.78E-04	5.14E-02	8.64E-01	1.04E-01	4.42E+00	4.29E+00	1.08E+01
5123	485363.09	3864377.25	1.27737	0.64091	1.66641	1.4139	4.315	1.236	0.6319	0.64091	8.91E+00	1.18E+00	1.73E-04	4.98E-02	1.35E+00	1.16E-01	4.48E+00	4.36E+00	1.17E+01
5124	485863.09	3864377.25	1.45414	0.64295	0.98792	1.41637	4.277	1.421	0.6403	0.64295	1.01E+01	1.19E+00	1.03E-04	4.99E-02	1.34E+00	1.34E-01	4.54E+00	4.37E+00	1.30E+01
5125	486363.09	3864377.25	1.60396	0.6475	2.25141	1.52719	3.699	1.442	0.6494	0.6475	1.12E+01	1.20E+00	2.34E-04	5.38E-02	1.16E+00	1.36E-01	4.60E+00	4.40E+00	1.39E+01
5126	486863.09	3864377.25	1.60043	0.64552	2.27564	2.01717	6.439	1.597	0.6536	0.64552	1.12E+01	1.19E+00	2.37E-04	7.10E-02	2.02E+00	1.50E-01	4.63E+00	4.39E+00	1.48E+01

5127	487363.09	3864377.25	1.57341	0.63306	1.61111	2.20317	5.509	1.556	0.6482	0.63306	1.10E+01	1.17E+00	1.68E-04	7.75E-02	1.73E+00	1.46E-01	4.59E+00	4.30E+00	1.44E+01
5128	487863.09	3864377.25	1.51838	0.66774	1.2642	2.4081	2.415	1.563	0.6586	0.66774	1.06E+01	1.23E+00	1.32E-04	8.48E-02	7.57E-01	1.47E-01	4.67E+00	4.54E+00	1.29E+01
5129	488363.09	3864377.25	1.56477	0.74455	1.52984	3.07692	2.171	1.13	0.69	0.74455	1.09E+01	1.38E+00	1.59E-04	1.08E-01	6.80E-01	1.06E-01	4.89E+00	5.06E+00	1.30E+01
5130	488863.09	3864377.25	1.83488	0.82047	1.86792	5.2938	1.708	1.246	0.7274	0.82047	1.28E+01	1.52E+00	1.94E-04	1.86E-01	5.35E-01	1.17E-01	5.15E+00	5.58E+00	1.47E+01
5131	489363.09	3864377.25	2.16264	0.85869	1.97798	3.50608	2.419	1.464	0.7627	0.85869	1.51E+01	1.59E+00	2.06E-04	1.23E-01	7.58E-01	1.38E-01	5.40E+00	5.84E+00	1.72E+01
5132	489863.09	3864377.25	2.57816	0.85628	1.12841	2.58343	2.319	1.714	0.7959	0.85628	1.80E+01	1.58E+00	1.17E-04	9.09E-02	7.27E-01	1.61E-01	5.64E+00	5.82E+00	2.04E+01
5133	490363.09	3864377.25	2.83825	0.82712	1.12526	2.11132	1.577	1.599	0.8006	0.82712	1.98E+01	1.53E+00	1.17E-04	7.43E-02	4.94E-01	1.50E-01	5.67E+00	5.62E+00	2.21E+01
5134	490863.09	3864377.25	3.38853	0.88188	1.54226	1.90467	2.028	1.798	0.8036	0.88188	2.36E+01	1.63E+00	1.61E-04	6.70E-02	6.36E-01	1.69E-01	5.69E+00	6.00E+00	2.58E+01
5135	491363.09	3864377.25	3.62385	0.8549	1.19213	1.67292	4.262	2.034	0.7394	0.8549	2.53E+01	1.58E+00	1.24E-04	5.89E-02	1.34E+00	1.91E-01	5.24E+00	5.81E+00	2.79E+01
5136	491863.09	3864377.25	3.46108	0.66232	0.8024	0.99321	5.032	0.905	0.728	0.66232	2.41E+01	1.22E+00	8.35E-05	3.50E-02	1.58E+00	8.50E-02	5.16E+00	4.50E+00	2.77E+01
5137	492363.09	3864377.25	2.88221	0.85092	1.56336	1.52263	6.681	1.425	0.9658	0.85092	2.01E+01	1.57E+00	1.63E-04	5.36E-02	2.09E+00	1.34E-01	6.84E+00	5.79E+00	2.50E+01
5138	492863.09	3864377.25	2.16156	0.60985	0.95497	1.28546	4.081	0.978	0.8478	0.60985	1.51E+01	1.13E+00	9.94E-05	4.52E-02	1.28E+00	9.19E-02	6.01E+00	4.15E+00	1.95E+01
5139	493363.09	3864377.25	1.92448	0.77274	1.4044	1.71634	6.126	1.304	0.9473	0.77274	1.34E+01	1.43E+00	1.46E-04	6.04E-02	1.92E+00	1.23E-01	6.71E+00	5.25E+00	1.84E+01
5140	493863.09	3864377.25	1.87244	0.95075	1.55088	1.87564	4.776	1.452	0.8585	0.95075	1.31E+01	1.76E+00	1.61E-04	6.60E-02	1.50E+00	1.37E-01	6.08E+00	6.46E+00	1.61E+01
5141	494363.09	3864377.25	1.794	0.99956	1.78512	1.61037	3.023	1.132	0.9159	0.99956	1.25E+01	1.85E+00	1.86E-04	5.67E-02	9.47E-01	1.06E-01	6.49E+00	6.80E+00	1.52E+01
5142	494863.09	3864377.25	1.82411	1.12096	1.69356	1.5248	2.437	1.134	1.2119	1.12096	1.27E+01	2.07E+00	1.76E-04	5.37E-02	7.63E-01	1.07E-01	8.59E+00	7.62E+00	1.67E+01
5143	495363.09	3864377.25	1.91303	0.94446	1.56658	1.66651	2.836	1.351	1.1627	0.94446	1.33E+01	1.74E+00	1.63E-04	5.87E-02	8.89E-01	1.27E-01	8.24E+00	6.42E+00	1.80E+01
5144	495863.09	3864377.25	2.14823	1.03377	1.38116	1.51165	2.615	1.592	1.2163	1.03377	1.50E+01	1.91E+00	1.44E-04	5.32E-02	8.19E-01	1.50E-01	8.62E+00	7.03E+00	1.95E+01
5145	496363.09	3864377.25	2.27777	1.28105	1.46019	1.30029	2.254	1.551	1.2504	1.28105	1.59E+01	2.37E+00	1.52E-04	4.58E-02	7.06E-01	1.46E-01	8.86E+00	8.71E+00	1.93E+01
5146	496863.09	3864377.25	2.31001	1.57503	1.9681	1.31384	1.905	1.455	1.4521	1.57503	1.61E+01	2.91E+00	2.05E-04	4.62E-02	5.97E-01	1.37E-01	1.03E+01	1.07E+01	1.94E+01
5147	497363.09	3864377.25	2.26377	1.97449	2.50573	1.65241	2.434	1.519	1.949	1.97449	1.58E+01	3.65E+00	2.61E-04	5.82E-02	7.63E-01	1.43E-01	1.38E+01	1.34E+01	2.08E+01
5148	497863.09	3864377.25	2.32118	2.20975	3.10732	1.87084	2.907	1.6	2.2024	2.20975	1.62E+01	4.08E+00	3.23E-04	6.58E-02	9.11E-01	1.50E-01	1.56E+01	1.50E+01	2.20E+01
5149	498363.09	3864377.25	2.20791	2.21892	2.9685	1.84648	3.178	1.617	2.1848	2.21892	1.54E+01	4.10E+00	3.09E-04	6.50E-02	9.96E-01	1.52E-01	1.55E+01	1.51E+01	2.11E+01
5150	471363.09	3864877.25	1.00004	0.38542	0.86184	0.63577	2.84	0.931	0.3773	0.38542	6.97E+00	7.12E-01	8.97E-05	2.24E-02	8.90E-01	8.75E-02	2.67E+00	2.62E+00	8.74E+00
5151	471863.09	3864877.25	1.00855	0.39363	0.92467	0.67957	2.573	0.964	0.3858	0.39363	7.03E+00	7.27E-01	9.63E-05	2.39E-02	8.06E-01	9.07E-02	2.73E+00	2.68E+00	8.74E+00
5152	472363.09	3864877.25	0.99475	0.40225	0.92305	0.72083	2.482	0.98	0.3943	0.40225	6.94E+00	7.43E-01	9.61E-05	2.54E-02	7.78E-01	9.21E-02	2.79E+00	2.74E+00	8.63E+00
5153	472863.09	3864877.25	0.95684	0.40779	0.87301	0.75151	2.295	0.982	0.3997	0.40779	6.67E+00	7.53E-01	9.09E-05	2.65E-02	7.19E-01	9.23E-02	2.83E+00	2.77E+00	8.32E+00
5154	473363.09	3864877.25	0.9436	0.41085	0.92819	0.75558	2.036	0.963	0.401	0.41085	6.58E+00	7.59E-01	9.66E-05	2.66E-02	6.38E-01	9.05E-02	2.84E+00	2.79E+00	8.14E+00
5155	473863.09	3864877.25	0.97443	0.41205	0.99013	0.79643	2.094	0.935	0.4015	0.41205	6.79E+00	7.61E-01	1.03E-04	2.80E-02	6.56E-01	8.79E-02	2.84E+00	2.80E+00	8.37E+00
5156	474363.09	3864877.25	0.99819	0.41487	0.96867	0.85626	2.302	0.908	0.4048	0.41487	6.96E+00	7.66E-01	1.01E-04	3.01E-02	7.21E-01	8.54E-02	2.87E+00	2.82E+00	8.61E+00
5157	474863.09	3864877.25	1.00287	0.42002	0.96179	0.90795	2.611	0.896	0.4104	0.42002	6.99E+00	7.76E-01	1.00E-04	3.20E-02	8.18E-01	8.42E-02	2.91E+00	2.86E+00	8.75E+00
5158	475363.09	3864877.25	0.99784	0.42525	1.05362	0.92159	2.938	0.875	0.4164	0.42525	6.96E+00	7.85E-01	1.10E-04	3.24E-02	9.20E-01	8.22E-02	2.95E+00	2.89E+00	8.84E+00
5159	475863.09	3864877.25	0.97657	0.42954	1.06196	0.90988	3.49	0.851	0.4232	0.42954	6.81E+00	7.93E-01	1.11E-04	3.20E-02	1.09E+00	8.00E-02	3.00E+00	2.92E+00	8.88E+00
5160	476363.09	3864877.25	0.96228	0.4342	1.0346	0.8528	3.756	0.868	0.4295	0.4342	6.71E+00	8.02E-01	1.08E-04	3.00E-02	1.18E+00	8.16E-02	3.04E+00	2.95E+00	8.89E+00
5161	476863.09	3864877.25	0.9531	0.43862	1.09184	0.86849	3.771	0.961	0.4353	0.43862	6.64E+00	8.10E-01	1.14E-04	3.06E-02	1.18E+00	9.03E-02	3.08E+00	2.98E+00	8.86E+00
5162	477363.09	3864877.25	0.92924	0.4457	1.08367	0.86736	3.619	0.977	0.4433	0.4457	6.48E+00	8.23E-01	1.13E-04	3.05E-02	1.13E+00	9.19E-02	3.14E+00	3.03E+00	8.67E+00
5163	477863.09	3864877.25	0.9454	0.45197	1.06741	0.82885	3.357	0.939	0.4505	0.45197	6.59E+00	8.35E-01	1.11E-04	2.92E-02	1.05E+00	8.83E-02	3.19E+00	3.07E+00	8.71E+00
5164	478363.09	3864877.25	0.97243	0.45858	1.00221	0.78514	3.661	0.906	0.4587	0.45858	6.78E+00	8.47E-01	1.04E-04	2.76E-02	1.15E+00	8.52E-02	3.25E+00	3.12E+00	9.02E+00
5165	478863.09	3864877.25	0.96873	0.46729	1.09554	0.84157	4.212	0.887	0.469	0.46729	6.75E+00	8.63E-01	1.14E-04	2.96E-02	1.32E+00	8.34E-02	3.32E+00	3.18E+00	9.19E+00
5166	479363.09	3864877.25	0.98937	0.48454	1.08655	0.92052	4.47	0.891	0.4837	0.48454	6.90E+00	8.95E-01	1.13E-04	3.24E-02	1.40E+00	8.37E-02	3.43E+00	3.29E+00	9.44E+00
5167	479863.09	3864877.25	1.03895	0.50353	1.26377	1.02244	4.394	0.9	0.5024	0.50353	7.24E+00	9.30E-01	1.32E-04	3.60E-02	1.38E+00	8.46E-02	3.56E+00	3.42E+00	9.81E+00
5168	480363.09	3864877.25	1.08262	0.52776	1.43615	1.18166	3.95	0.887	0.5255	0.52776	7.55E+00	9.75E-01	1.50E-04	4.16E-02	1.24E+00	8.34E-02	3.72E+00	3.59E+00	1.00E+01
5169	480863.09	3864877.25	1.09364	0.56808	1.27774	1.21026	3.081	0.869	0.5518	0.56808	7.62E+00	1.05E+00	1.33E-04	4.26E-02	9.65E-01	8.17E-02	3.91E+00	3.86E+00	9.81E+00
5170	481363.09	3864877.25	1.11487	0.6305	1.20863	1.17574	2.302	0.857	0.5759	0.6305	7.77E+00	1.16E+00	1.26E-04	4.14E-02	7.21E-01	8.06E-02	4.08E+00	4.29E+00	9.57E+00
5171	481863.09	3864877.25	1.2442	0.63447	1.41662	1.17049	2.125	0.913	0.5685	0.63447	8.67E+00	1.17E+00	1.47E-04	4.12E-02	6.66E-01	8.58E-02	4.03E+00	4.31E+00	1.04E+01
5172	482363.09	3864877.25	1.38102	0.59466	1.39876	1.32312	3.102	0.939	0.5518	0.59466	9.63E+00	1.10E+00	1.46E-04	4.66E-02	9.72E-01	8.83E-02	3.91E+00	4.04E+00	1.17E+01
5173	482863.09	3864877.25	1.46846	0.57433	1.66498	1.41341	3.911	0.97	0.5478	0.57433	1.02E+01	1.06E+00	1.73E-04	4.97E-02	1.23E+00	9.12E-02	3.88E+00	3.91E+00	1.26E+01
5174	483363.09	3864877.25	1.42175	0.57121	1.75648	1.41188	4.316	0.978	0.5495	0.57121	9.91E+00	1.05E+00	1.83E-04	4.97E-02	1.35E+00	9.20E-02	3.89E+00	3.88E+00	1.25E+01
5175	483863.09	3864877.25	1.28974	0.56275	1.77088	1.39877	3.92	0.969	0.5503	0.56275	8.99E+00	1.04E+00	1.84E-04	4.92E-02	1.23E+00	9.11E-02	3.90E+00	3.83E+00	1.15E+01
5176	484363.09	3864877.25	1.19062	0.55332	1.61913	1.32497	2.827	0.996	0.5448	0.55332	8.30E+00	1.02E+00	1.69E-04	4.66E-02	8.86E-01	9.37E-02	3.86E+00	3.76E+00	1.04E+01
5177	484863.09	3864877.25	1.17376	0.54834	1.42518	1.29047	2.881	1.046	0.5412	0.54834	8.18E+00	1.01E+00	1.48E-04	4.54E-02	9.03E-01	9.83E-02	3.83E+00	3.73E+00	1.03E+01
5178	485363.09	3864877.25	1.20918	0.56385	1.27849	1.26154	4.241	1.187	0.5563	0.56385	8.43E+00	1.04E+00	1.33E-04	4.44E-02	1.33E+00	1.12E-01	3.94E+00	3.83E+00	1.11E+01
5179	485863.09	3864877.25	1.40277	0.57562	1.23587	1.35259	3.582	1.367	0.5744	0.57562	9.78E+00	1.06E+00	1.29E-04	4.76E-02	1.12E+00	1.29E-01	4.07E+00	3.91E+00	1.23E+01
5180	486363.09	3864877.25	1.56916	0.59255	2.17718	1.67221	3.549	1.367	0.5968	0.59255	1.09E+01	1.09E+00	2.27E-04	5.89E-02	1.11E+00	1.29E-01	4.23E+00	4.03E+00	1.35E+01
5181	486863.09	3864877.25	1.53078	0.61272	1.89488	1.95995	6.323	1.565	0.6187	0.61272	1.07E+01	1.13E+00	1.97E-04	6.90E-02	1.98E+00	1.47E-01	4.38E+00	4.17E+00	1.42E+01
5182	487363.09	3864877.25	1.47442	0.63836	1.17216	2.05373	4.885	1.483	0.6422	0.63836	1.03E+01	1.18E+00	1.22E-04	7.23E-02	1.53E+00	1.39E-01	4.55E+00	4.34E+00	1.34E+01
5183	487863.09	3864877.25	1.38464	0.66241	1.40092	2.31432	2.218	1.308	0.6651	0.66241	9.65E+00	1.22E+00	1.46E-04	8.15E-02	6.95E-01	1.23E-01	4.71E+00	4.50E+00	1.20E+01

5184	488363.09	3864877.25	1.29445	0.70014	1.11107	2.80893	2.027	1.114	0.6763	0.70014	9.02E+00	1.29E+00	1.16E-04	9.89E-02	6.35E-01	1.05E-01	4.79E+00	4.76E+00	1.12E+01
5185	488863.09	3864877.25	1.56139	0.74503	1.80541	4.82211	1.506	1.179	0.6656	0.74503	1.09E+01	1.38E+00	1.88E-04	1.70E-01	4.72E-01	1.11E-01	4.72E+00	5.07E+00	1.27E+01
5186	489363.09	3864877.25	1.89687	0.73872	1.81328	2.70588	2.082	1.204	0.6487	0.73872	1.32E+01	1.36E+00	1.89E-04	9.52E-02	6.52E-01	1.13E-01	4.60E+00	5.02E+00	1.50E+01
5187	489863.09	3864877.25	2.2056	0.71022	1.03715	1.84942	2.323	1.438	0.6483	0.71022	1.54E+01	1.31E+00	1.08E-04	6.51E-02	7.28E-01	1.35E-01	4.59E+00	4.83E+00	1.74E+01
5188	490363.09	3864877.25	2.51893	0.7185	0.85776	2.072	1.633	1.52	0.6843	0.7185	1.76E+01	1.33E+00	8.93E-05	7.29E-02	5.12E-01	1.43E-01	4.85E+00	4.89E+00	1.96E+01
5189	490863.09	3864877.25	3.24482	0.80549	1.62978	1.64427	1.411	1.978	0.5882	0.80549	2.26E+01	1.49E+00	1.70E-04	5.79E-02	4.42E-01	1.86E-01	4.17E+00	5.48E+00	2.35E+01
5190	491363.09	3864877.25	3.45559	0.76447	1.31442	1.46897	2.84	2.095	0.6494	0.76447	2.41E+01	1.41E+00	1.37E-04	5.17E-02	8.90E-01	1.97E-01	4.60E+00	5.20E+00	2.60E+01
5191	491863.09	3864877.25	3.5552	0.9679	0.85852	1.51709	4.782	1.925	0.7683	0.9679	2.48E+01	1.79E+00	8.94E-05	5.34E-02	1.50E+00	1.81E-01	5.44E+00	6.58E+00	2.72E+01
5192	492363.09	3864877.25	2.12568	0.4447	0.65011	0.68282	2.871	0.677	0.4945	0.4447	1.48E+01	8.21E-01	6.77E-05	2.40E-02	9.00E-01	6.37E-02	3.50E+00	3.02E+00	1.71E+01
5193	492863.09	3864877.25	2.35393	0.54452	0.73953	0.95313	3.462	0.746	0.6438	0.54452	1.64E+01	1.01E+00	7.70E-05	3.35E-02	1.08E+00	7.01E-02	4.56E+00	3.70E+00	1.95E+01
5194	493363.09	3864877.25	1.7127	0.53817	0.78882	0.90421	2.801	0.755	0.581	0.53817	1.19E+01	9.94E-01	8.21E-05	3.18E-02	8.78E-01	7.10E-02	4.12E+00	3.66E+00	1.44E+01
5195	493863.09	3864877.25	1.80967	0.73107	1.32433	1.70115	5.412	1.403	0.9005	0.73107	1.26E+01	1.35E+00	1.38E-04	5.99E-02	1.70E+00	1.32E-01	6.38E+00	4.97E+00	1.73E+01
5196	494363.09	3864877.25	1.77098	0.89258	1.50666	1.75163	4.068	1.253	0.8577	0.89258	1.23E+01	1.65E+00	1.57E-04	6.17E-02	1.27E+00	1.18E-01	6.08E+00	6.07E+00	1.55E+01
5197	494863.09	3864877.25	1.66304	0.96143	1.65932	1.45904	2.64	1.016	0.8349	0.96143	1.16E+01	1.78E+00	1.73E-04	5.14E-02	8.27E-01	9.55E-02	5.92E+00	6.54E+00	1.37E+01
5198	495363.09	3864877.25	1.62018	1.0378	1.53712	1.37448	2.247	1.046	1.1099	1.0378	1.13E+01	1.92E+00	1.60E-04	4.84E-02	7.04E-01	9.83E-02	7.86E+00	7.06E+00	1.49E+01
5199	495863.09	3864877.25	1.71002	0.89228	1.40175	1.46423	2.598	1.145	1.0492	0.89228	1.19E+01	1.65E+00	1.46E-04	5.15E-02	8.14E-01	1.08E-01	7.43E+00	6.07E+00	1.59E+01
5200	496363.09	3864877.25	1.92457	0.95861	1.3182	1.4419	2.468	1.399	1.1042	0.95861	1.34E+01	1.77E+00	1.37E-04	5.07E-02	7.73E-01	1.31E-01	7.82E+00	6.52E+00	1.74E+01
5201	496863.09	3864877.25	2.10765	1.07698	1.28778	1.2633	2.137	1.485	1.1584	1.07698	1.47E+01	1.99E+00	1.34E-04	4.45E-02	6.69E-01	1.40E-01	8.21E+00	7.32E+00	1.84E+01
5202	497363.09	3864877.25	2.16957	1.29963	1.4941	1.1062	1.724	1.43	1.1297	1.29963	1.51E+01	2.40E+00	1.56E-04	3.89E-02	5.40E-01	1.34E-01	8.00E+00	8.84E+00	1.74E+01
5203	497863.09	3864877.25	2.18501	1.63059	2.0183	1.38917	2.07	1.407	1.5947	1.63059	1.52E+01	3.01E+00	2.10E-04	4.89E-02	6.49E-01	1.32E-01	1.13E+01	1.11E+01	1.93E+01
5204	498363.09	3864877.25	2.16346	1.86007	2.49918	1.6164	2.521	1.44	1.8269	1.86007	1.51E+01	3.44E+00	2.60E-04	5.69E-02	7.90E-01	1.35E-01	1.29E+01	1.26E+01	1.98E+01
5205	471363.09	3865377.25	0.93882	0.3973	0.84869	0.67241	2.272	0.946	0.3881	0.3973	6.55E+00	7.34E-01	8.84E-05	2.37E-02	7.12E-01	8.89E-02	2.75E+00	2.70E+00	8.15E+00
5206	471863.09	3865377.25	0.91054	0.40296	0.80397	0.69185	2.119	0.942	0.3943	0.40296	6.35E+00	7.44E-01	8.37E-05	2.44E-02	6.64E-01	8.85E-02	2.79E+00	2.74E+00	7.92E+00
5207	472363.09	3865377.25	0.88878	0.40829	0.80822	0.70664	1.895	0.919	0.3997	0.40829	6.20E+00	7.54E-01	8.41E-05	2.49E-02	5.94E-01	8.64E-02	2.83E+00	2.78E+00	7.71E+00
5208	472863.09	3865377.25	0.90696	0.40852	0.91267	0.76379	1.943	0.895	0.4016	0.40852	6.32E+00	7.55E-01	9.50E-05	2.69E-02	6.09E-01	8.41E-02	2.85E+00	2.78E+00	7.86E+00
5209	473363.09	3865377.25	0.94026	0.41052	0.94012	0.81196	2.084	0.849	0.4011	0.41052	6.56E+00	7.58E-01	9.79E-05	2.86E-02	6.53E-01	7.98E-02	2.84E+00	2.79E+00	8.13E+00
5210	473863.09	3865377.25	0.95976	0.40916	0.88837	0.84162	2.359	0.82	0.4006	0.40916	6.69E+00	7.56E-01	9.25E-05	2.96E-02	7.39E-01	7.71E-02	2.84E+00	2.78E+00	8.35E+00
5211	474363.09	3865377.25	0.95971	0.41073	0.95215	0.84752	2.575	0.792	0.4044	0.41073	6.69E+00	7.59E-01	9.91E-05	2.98E-02	8.07E-01	7.45E-02	2.87E+00	2.79E+00	8.43E+00
5212	474863.09	3865377.25	0.94409	0.41638	1.02169	0.82885	3.012	0.765	0.4114	0.41638	6.58E+00	7.69E-01	1.06E-04	2.92E-02	9.44E-01	7.19E-02	2.91E+00	2.83E+00	8.48E+00
5213	475363.09	3865377.25	0.93582	0.42072	0.98749	0.77518	3.387	0.762	0.4174	0.42072	6.52E+00	7.77E-01	1.03E-04	2.73E-02	1.06E+00	7.17E-02	2.96E+00	2.86E+00	8.56E+00
5214	475863.09	3865377.25	0.92607	0.42738	0.98031	0.78851	3.511	0.784	0.424	0.42738	6.46E+00	7.89E-01	1.02E-04	2.78E-02	1.10E+00	7.37E-02	3.00E+00	2.91E+00	8.55E+00
5215	476363.09	3865377.25	0.93455	0.42863	1.02048	0.85272	3.509	0.896	0.4245	0.42863	6.52E+00	7.92E-01	1.06E-04	3.00E-02	1.10E+00	8.42E-02	3.01E+00	2.91E+00	8.61E+00
5216	476863.09	3865377.25	0.95529	0.4162	0.98592	0.84421	3.504	0.901	0.4106	0.4162	6.66E+00	7.69E-01	1.03E-04	2.97E-02	1.10E+00	8.47E-02	2.91E+00	2.83E+00	8.72E+00
5217	477363.09	3865377.25	0.93007	0.4486	0.8831	0.76725	3.216	0.89	0.4441	0.4486	6.48E+00	8.29E-01	9.19E-05	2.70E-02	1.01E+00	8.37E-02	3.15E+00	3.05E+00	8.53E+00
5218	477863.09	3865377.25	0.93316	0.45787	0.90763	0.76847	3.569	0.849	0.4562	0.45787	6.51E+00	8.46E-01	9.45E-05	2.70E-02	1.12E+00	7.98E-02	3.23E+00	3.11E+00	8.70E+00
5219	478363.09	3865377.25	0.93329	0.46571	1.064	0.83375	4.03	0.84	0.4659	0.46571	6.51E+00	8.60E-01	1.11E-04	2.93E-02	1.26E+00	7.90E-02	3.30E+00	3.17E+00	8.87E+00
5220	478863.09	3865377.25	0.95535	0.4739	1.04238	0.88277	4.125	0.847	0.4752	0.4739	6.66E+00	8.75E-01	1.09E-04	3.11E-02	1.29E+00	7.96E-02	3.37E+00	3.22E+00	9.08E+00
5221	479363.09	3865377.25	0.9965	0.48764	1.07706	1.01226	4.039	0.841	0.4866	0.48764	6.95E+00	9.01E-01	1.12E-04	3.56E-02	1.27E+00	7.90E-02	3.45E+00	3.32E+00	9.36E+00
5222	479863.09	3865377.25	1.03308	0.50284	1.28978	1.10624	3.633	0.826	0.5027	0.50284	7.20E+00	9.29E-01	1.34E-04	3.89E-02	1.14E+00	7.76E-02	3.56E+00	3.42E+00	9.53E+00
5223	480363.09	3865377.25	1.03726	0.51489	1.21437	1.09507	2.847	0.803	0.5125	0.51489	7.23E+00	9.51E-01	1.26E-04	3.85E-02	8.92E-01	7.55E-02	3.63E+00	3.50E+00	9.32E+00
5224	480863.09	3865377.25	1.04966	0.5433	0.98658	1.07244	2.164	0.784	0.5245	0.5433	7.32E+00	1.00E+00	1.03E-04	3.77E-02	6.78E-01	7.37E-02	3.72E+00	3.69E+00	9.13E+00
5225	481363.09	3865377.25	1.05342	0.58313	1.11433	1.09396	1.829	0.795	0.5286	0.58313	7.34E+00	1.08E+00	1.16E-04	3.85E-02	5.73E-01	7.47E-02	3.75E+00	3.97E+00	8.89E+00
5226	481863.09	3865377.25	1.21852	0.56058	1.32605	1.25908	2.617	0.852	0.5001	0.56058	8.50E+00	1.04E+00	1.38E-04	4.43E-02	8.20E-01	8.01E-02	3.54E+00	3.81E+00	1.02E+01
5227	482363.09	3865377.25	1.34137	0.51579	1.51818	1.31612	3.334	0.905	0.4764	0.51579	9.35E+00	9.53E-01	1.58E-04	4.63E-02	1.04E+00	8.51E-02	3.38E+00	3.51E+00	1.13E+01
5228	482863.09	3865377.25	1.38206	0.50102	1.53296	1.29221	3.705	0.913	0.4752	0.50102	9.64E+00	9.25E-01	1.60E-04	4.55E-02	1.16E+00	8.59E-02	3.37E+00	3.41E+00	1.18E+01
5229	483363.09	3865377.25	1.30939	0.50137	1.69348	1.2732	4.014	0.91	0.483	0.50137	9.13E+00	9.26E-01	1.76E-04	4.48E-02	1.26E+00	8.55E-02	3.42E+00	3.41E+00	1.15E+01
5230	483863.09	3865377.25	1.20726	0.51064	1.77525	1.21158	3.216	0.927	0.5003	0.51064	8.42E+00	9.43E-01	1.85E-04	4.26E-02	1.01E+00	8.71E-02	3.54E+00	3.47E+00	1.06E+01
5231	484363.09	3865377.25	1.14662	0.53053	1.17955	1.18462	2.287	0.961	0.5241	0.53053	7.99E+00	9.80E-01	1.23E-04	4.17E-02	7.17E-01	9.03E-02	3.71E+00	3.61E+00	9.93E+00
5232	484863.09	3865377.25	1.11366	0.55483	1.32298	1.16156	3.239	0.988	0.5474	0.55483	7.76E+00	1.02E+00	1.38E-04	4.09E-02	1.01E+00	9.29E-02	3.88E+00	3.77E+00	1.00E+01
5233	485363.09	3865377.25	1.15822	0.57166	1.00078	1.2182	3.894	1.147	0.5668	0.57166	8.07E+00	1.06E+00	1.04E-04	4.29E-02	1.22E+00	1.08E-01	4.02E+00	3.89E+00	1.06E+01
5234	485863.09	3865377.25	1.36728	0.57902	1.53295	1.37673	2.961	1.312	0.5803	0.57902	9.53E+00	1.07E+00	1.60E-04	4.85E-02	9.28E-01	1.23E-01	4.11E+00	3.94E+00	1.19E+01
5235	486363.09	3865377.25	1.52133	0.58624	2.00635	1.73693	3.661	1.356	0.5917	0.58624	1.06E+01	1.08E+00	2.09E-04	6.11E-02	1.15E+00	1.27E-01	4.19E+00	3.99E+00	1.32E+01
5236	486863.09	3865377.25	1.46616	0.58819	1.55181	1.83096	6.141	1.471	0.5994	0.58819	1.02E+01	1.09E+00	1.62E-04	6.44E-02	1.92E+00	1.38E-01	4.25E+00	4.00E+00	1.37E+01
5237	487363.09	3865377.25	1.41222	0.58167	1.04667	1.95753	4.349	1.341	0.5977	0.58167	9.85E+00	1.07E+00	1.09E-04	6.89E-02	1.36E+00	1.26E-01	4.23E+00	3.96E+00	1.28E+01
5238	487863.09	3865377.25	1.26532	0.56897	1.39005	2.09316	2.049	1.267	0.5822	0.56897	8.82E+00	1.05E+00	1.45E-04	7.37E-02	6.42E-01	1.19E-01	4.13E+00	3.87E+00	1.10E+01
5239	488363.09	3865377.25	1.09366	0.55567	0.86877	2.8168	1.906	1.028	0.5616	0.55567	7.62E+00	1.03E+00	9.04E-05	9.91E-02	5.97E-01	9.66E-02	3.98E+00	3.78E+00	9.64E+00
5240	488863.09	3865377.25	1.31527	0.61559	1.64291	4.45893	1.394	1.034	0.587	0.61559	9.17E+00	1.14E+00	1.71E-04	1.57E-01	4.37E-01	9.72E-02	4.16E+00	4.19E+00	1.10E+01

5241	489363.09	3865377.25	1.66879	0.68821	1.66935	2.23851	1.793	1.009	0.6269	0.68821	1.16E+01	1.27E+00	1.74E-04	7.88E-02	5.62E-01	9.48E-02	4.44E+00	4.68E+00	1.34E+01
5242	489863.09	3865377.25	1.95183	0.7162	1.13761	1.69474	2.274	1.169	0.6554	0.7162	1.36E+01	1.32E+00	1.18E-04	5.96E-02	7.13E-01	1.10E-01	4.64E+00	4.87E+00	1.56E+01
5243	490363.09	3865377.25	2.44177	0.69422	0.76228	1.93406	1.854	1.602	0.577	0.69422	1.70E+01	1.28E+00	7.94E-05	6.81E-02	5.81E-01	1.51E-01	4.09E+00	4.72E+00	1.85E+01
5244	490863.09	3865377.25	2.83556	0.75916	1.12989	1.58506	1.242	1.866	0.5575	0.75916	1.98E+01	1.40E+00	1.18E-04	5.58E-02	3.89E-01	1.75E-01	3.95E+00	5.16E+00	2.06E+01
5245	491363.09	3865377.25	3.28357	0.82162	1.51134	1.18497	1.911	1.781	0.5788	0.82162	2.29E+01	1.52E+00	1.57E-04	4.17E-02	5.99E-01	1.67E-01	4.10E+00	5.59E+00	2.37E+01
5246	491863.09	3865377.25	3.47783	0.9253	0.83767	1.34089	3.559	2.035	0.6763	0.9253	2.42E+01	1.71E+00	8.72E-05	4.72E-02	1.12E+00	1.91E-01	4.79E+00	6.29E+00	2.58E+01
5247	492363.09	3865377.25	3.34622	0.85012	0.74805	1.20294	5.51	1.365	0.9004	0.85012	2.33E+01	1.57E+00	7.79E-05	4.23E-02	1.73E+00	1.28E-01	6.38E+00	5.78E+00	2.74E+01
5248	492863.09	3865377.25	2.85575	0.63068	0.85156	1.00993	4.963	0.912	0.6957	0.63068	1.99E+01	1.16E+00	8.87E-05	3.55E-02	1.56E+00	8.57E-02	4.93E+00	4.29E+00	2.34E+01
5249	493363.09	3865377.25	2.04099	0.52481	0.6905	0.90906	2.873	0.701	0.5893	0.52481	1.42E+01	9.69E-01	7.19E-05	3.20E-02	9.00E-01	6.59E-02	4.18E+00	3.57E+00	1.68E+01
5250	493863.09	3865377.25	1.77914	0.58365	0.93751	1.28137	4.383	1.082	0.7928	0.58365	1.24E+01	1.08E+00	9.76E-05	4.51E-02	1.37E+00	1.02E-01	5.62E+00	3.97E+00	1.66E+01
5251	494363.09	3865377.25	1.70579	0.69309	1.26789	1.64281	4.632	1.183	0.8491	0.69309	1.19E+01	1.28E+00	1.32E-04	5.78E-02	1.45E+00	1.11E-01	6.02E+00	4.71E+00	1.61E+01
5252	494863.09	3865377.25	1.69333	0.84717	1.43529	1.5869	3.611	1.135	0.7877	0.84717	1.18E+01	1.56E+00	1.49E-04	5.59E-02	1.13E+00	1.07E-01	5.58E+00	5.76E+00	1.45E+01
5253	495363.09	3865377.25	1.58269	0.91902	1.54234	1.32755	2.319	0.976	0.7915	0.91902	1.10E+01	1.70E+00	1.61E-04	4.67E-02	7.27E-01	9.17E-02	5.61E+00	6.25E+00	1.30E+01
5254	495863.09	3865377.25	1.49473	0.96556	1.39964	1.26786	2.072	0.961	1.0149	0.96556	1.04E+01	1.78E+00	1.46E-04	4.46E-02	6.49E-01	9.04E-02	7.19E+00	6.57E+00	1.36E+01
5255	496363.09	3865377.25	1.58358	0.82434	1.37011	1.47419	2.457	1.013	1.0189	0.82434	1.10E+01	1.52E+00	1.43E-04	5.19E-02	7.70E-01	9.53E-02	7.22E+00	5.61E+00	1.51E+01
5256	496863.09	3865377.25	1.76473	0.87764	1.2903	1.40534	2.35	1.167	1.0193	0.87764	1.23E+01	1.62E+00	1.34E-04	4.95E-02	7.36E-01	1.10E-01	7.22E+00	5.97E+00	1.61E+01
5257	497363.09	3865377.25	1.91843	0.94812	1.14877	1.21082	2.024	1.37	1.0706	0.94812	1.34E+01	1.75E+00	1.20E-04	4.26E-02	6.34E-01	1.29E-01	7.59E+00	6.45E+00	1.71E+01
5258	497863.09	3865377.25	2.0341	1.13382	1.20613	0.99286	1.677	1.4	0.9563	1.13382	1.42E+01	2.09E+00	1.26E-04	3.49E-02	5.26E-01	1.32E-01	6.78E+00	7.71E+00	1.60E+01
5259	498363.09	3865377.25	2.0988	1.48792	1.53827	1.18207	1.787	1.433	1.3126	1.48792	1.46E+01	2.75E+00	1.60E-04	4.16E-02	5.60E-01	1.35E-01	9.30E+00	1.01E+01	1.73E+01
5260	471363.09	3865877.25	0.86635	0.39545	0.73849	0.66156	1.79	0.862	0.387	0.39545	6.04E+00	7.30E-01	7.69E-05	2.33E-02	5.61E-01	8.11E-02	2.74E+00	2.69E+00	7.49E+00
5261	471863.09	3865877.25	0.84662	0.40013	0.80485	0.72035	1.78	0.823	0.3915	0.40013	5.90E+00	7.39E-01	8.38E-05	2.54E-02	5.58E-01	7.74E-02	2.77E+00	2.72E+00	7.36E+00
5262	472363.09	3865877.25	0.88517	0.39963	0.87624	0.7954	1.925	0.798	0.3942	0.39963	6.17E+00	7.38E-01	9.12E-05	2.80E-02	6.03E-01	7.50E-02	2.79E+00	2.72E+00	7.69E+00
5263	472863.09	3865877.25	0.91134	0.40595	0.87036	0.78313	2.163	0.752	0.3977	0.40595	6.35E+00	7.50E-01	9.06E-05	2.76E-02	6.78E-01	7.07E-02	2.82E+00	2.76E+00	7.94E+00
5264	473363.09	3865877.25	0.92571	0.40369	0.86232	0.78216	2.337	0.718	0.3976	0.40369	6.45E+00	7.46E-01	8.98E-05	2.75E-02	7.32E-01	6.75E-02	2.82E+00	2.75E+00	8.10E+00
5265	473863.09	3865877.25	0.92613	0.40449	0.92107	0.75619	2.57	0.689	0.3992	0.40449	6.46E+00	7.47E-01	9.59E-05	2.66E-02	8.05E-01	6.48E-02	2.83E+00	2.75E+00	8.18E+00
5266	474363.09	3865877.25	0.90699	0.40831	0.93157	0.71437	3.003	0.671	0.404	0.40831	6.32E+00	7.54E-01	9.70E-05	2.51E-02	9.41E-01	6.31E-02	2.86E+00	2.78E+00	8.19E+00
5267	474863.09	3865877.25	0.91178	0.41693	0.96063	0.73027	3.244	0.686	0.412	0.41693	6.36E+00	7.70E-01	1.00E-04	2.57E-02	1.02E+00	6.45E-02	2.92E+00	2.84E+00	8.32E+00
5268	475363.09	3865877.25	0.89889	0.42381	0.89877	0.7417	3.273	0.689	0.4193	0.42381	6.27E+00	7.83E-01	9.36E-05	2.61E-02	1.03E+00	6.48E-02	2.97E+00	2.88E+00	8.25E+00
5269	475863.09	3865877.25	0.87613	0.43141	0.81064	0.72999	3.123	0.722	0.4267	0.43141	6.11E+00	7.97E-01	8.44E-05	2.57E-02	9.79E-01	6.78E-02	3.02E+00	2.93E+00	8.07E+00
5270	476363.09	3865877.25	0.9043	0.43006	0.92764	0.76376	3.113	0.854	0.4261	0.43006	6.30E+00	7.94E-01	9.66E-05	2.69E-02	9.75E-01	8.03E-02	3.02E+00	2.92E+00	8.28E+00
5271	476863.09	3865877.25	0.94889	0.41187	0.83429	0.78487	3.333	0.855	0.4066	0.41187	6.62E+00	7.61E-01	8.69E-05	2.76E-02	1.04E+00	8.03E-02	2.88E+00	2.80E+00	8.61E+00
5272	477363.09	3865877.25	0.92825	0.44396	0.93832	0.8055	3.625	0.864	0.4388	0.44396	6.47E+00	8.20E-01	9.77E-05	2.84E-02	1.14E+00	8.12E-02	3.11E+00	3.02E+00	8.63E+00
5273	477863.09	3865877.25	0.9056	0.44389	0.98703	0.81253	3.853	0.801	0.4446	0.44389	6.31E+00	8.20E-01	1.03E-04	2.86E-02	1.21E+00	7.53E-02	3.15E+00	3.02E+00	8.58E+00
5274	478363.09	3865877.25	0.9315	0.44053	1.05452	0.87739	3.836	0.815	0.4418	0.44053	6.49E+00	8.14E-01	1.10E-04	3.09E-02	1.20E+00	7.66E-02	3.13E+00	3.00E+00	8.75E+00
5275	478863.09	3865877.25	0.96434	0.43679	1.00102	0.98992	3.748	0.801	0.4372	0.43679	6.72E+00	8.07E-01	1.04E-04	3.48E-02	1.17E+00	7.53E-02	3.10E+00	2.97E+00	8.94E+00
5276	479363.09	3865877.25	0.98964	0.43866	1.15023	1.02644	3.361	0.773	0.4395	0.43866	6.90E+00	8.10E-01	1.20E-04	3.61E-02	1.05E+00	7.27E-02	3.11E+00	2.98E+00	9.00E+00
5277	479863.09	3865877.25	1.00142	0.44977	1.15195	1.00171	2.661	0.752	0.4501	0.44977	6.98E+00	8.31E-01	1.20E-04	3.53E-02	8.34E-01	7.06E-02	3.19E+00	3.06E+00	8.88E+00
5278	480363.09	3865877.25	0.99288	0.46461	0.91412	0.99067	2.04	0.727	0.4618	0.46461	6.92E+00	8.58E-01	9.52E-05	3.49E-02	6.39E-01	6.84E-02	3.27E+00	3.16E+00	8.64E+00
5279	480863.09	3865877.25	0.99913	0.49822	0.8082	1.06468	1.659	0.709	0.4769	0.49822	6.97E+00	9.20E-01	8.41E-05	3.75E-02	5.20E-01	6.67E-02	3.38E+00	3.39E+00	8.50E+00
5280	481363.09	3865877.25	1.0429	0.53408	1.19572	1.20078	2.195	0.754	0.4798	0.53408	7.27E+00	9.86E-01	1.24E-04	4.23E-02	6.88E-01	7.09E-02	3.40E+00	3.63E+00	8.83E+00
5281	481863.09	3865877.25	1.18396	0.52132	1.31688	1.22682	2.842	0.835	0.4671	0.52132	8.25E+00	9.63E-01	1.37E-04	4.32E-02	8.90E-01	7.85E-02	3.31E+00	3.54E+00	9.99E+00
5282	482363.09	3865877.25	1.27586	0.49468	1.52014	1.18805	3.399	0.867	0.4618	0.49468	8.89E+00	9.14E-01	1.58E-04	4.18E-02	1.06E+00	8.15E-02	3.27E+00	3.36E+00	1.09E+01
5283	482863.09	3865877.25	1.28853	0.49461	1.51586	1.16133	3.769	0.863	0.472	0.49461	8.98E+00	9.14E-01	1.58E-04	4.09E-02	1.18E+00	8.11E-02	3.34E+00	3.36E+00	1.12E+01
5284	483363.09	3865877.25	1.23425	0.50988	1.68869	1.10986	3.288	0.869	0.4936	0.50988	8.60E+00	9.42E-01	1.76E-04	3.91E-02	1.03E+00	8.17E-02	3.50E+00	3.47E+00	1.07E+01
5285	483863.09	3865877.25	1.1722	0.5284	1.43471	1.09234	2.498	0.892	0.519	0.5284	8.17E+00	9.76E-01	1.49E-04	3.84E-02	7.83E-01	8.38E-02	3.68E+00	3.59E+00	1.01E+01
5286	484363.09	3865877.25	1.10136	0.54734	1.00463	1.07987	2.071	0.91	0.5412	0.54734	7.68E+00	1.01E+00	1.05E-04	3.80E-02	6.49E-01	8.55E-02	3.83E+00	3.72E+00	9.57E+00
5287	484863.09	3865877.25	1.05787	0.55031	1.17445	1.11075	3.413	0.935	0.5444	0.55031	7.38E+00	1.02E+00	1.22E-04	3.91E-02	1.07E+00	8.79E-02	3.86E+00	3.74E+00	9.70E+00
5288	485363.09	3865877.25	1.1135	0.54077	1.16642	1.21752	3.399	1.149	0.5372	0.54077	7.76E+00	9.99E-01	1.21E-04	4.29E-02	1.07E+00	1.08E-01	3.81E+00	3.68E+00	1.01E+01
5289	485863.09	3865877.25	1.32995	0.52223	1.3675	1.4952	2.488	1.286	0.5235	0.52223	9.27E+00	9.65E-01	1.42E-04	5.26E-02	7.80E-01	1.21E-01	3.71E+00	3.55E+00	1.13E+01
5290	486363.09	3865877.25	1.45249	0.51869	1.75856	1.66568	3.909	1.271	0.5084	0.51869	1.01E+01	9.58E-01	1.83E-04	5.86E-02	1.22E+00	1.20E-01	3.60E+00	3.53E+00	1.26E+01
5291	486863.09	3865877.25	1.40468	0.51134	1.28444	1.73006	5.891	1.361	0.503	0.51134	9.79E+00	9.44E-01	1.34E-04	6.09E-02	1.85E+00	1.28E-01	3.56E+00	3.48E+00	1.29E+01
5292	487363.09	3865877.25	1.35591	0.52136	1.1543	1.84688	3.871	1.361	0.5305	0.52136	9.45E+00	9.63E-01	1.20E-04	6.50E-02	1.21E+00	1.28E-01	3.76E+00	3.55E+00	1.20E+01
5293	487863.09	3865877.25	1.16703	0.54407	1.22857	1.78456	1.906	1.09	0.5527	0.54407	8.14E+00	1.00E+00	1.28E-04	6.28E-02	5.97E-01	1.02E-01	3.92E+00	3.70E+00	1.01E+01
5294	488363.09	3865877.25	0.97698	0.55856	0.7836	2.66102	1.79	0.911	0.5634	0.55856	6.81E+00	1.03E+00	8.16E-05	9.37E-02	5.61E-01	8.57E-02	3.99E+00	3.80E+00	8.78E+00
5295	488863.09	3865877.25	1.08772	0.60178	1.53885	3.93774	1.327	0.892	0.5889	0.60178	7.58E+00	1.11E+00	1.60E-04	1.39E-01	4.16E-01	8.38E-02	4.17E+00	4.09E+00	9.41E+00
5296	489363.09	3865877.25	1.44462	0.64285	1.5435	1.96989	1.522	0.871	0.5877	0.64285	1.01E+01	1.19E+00	1.61E-04	6.93E-02	4.77E-01	8.18E-02	4.16E+00	4.37E+00	1.17E+01
5297	489863.09	3865877.25	1.73758	0.6608	1.23202	1.57425	2.103	0.961	0.5888	0.6608	1.21E+01	1.22E+00	1.28E-04	5.54E-02	6.59E-01	9.03E-02	4.17E+00	4.49E+00	1.38E+01

5298	490363.09	3865877.25	2.04748	0.65586	0.7653	1.70643	1.866	1.278	0.5418	0.65586	1.43E+01	1.21E+00	7.97E-05	6.01E-02	5.85E-01	1.20E-01	3.84E+00	4.46E+00	1.56E+01
5299	490863.09	3865877.25	2.4254	0.70816	0.76313	1.5938	1.234	1.655	0.5579	0.70816	1.69E+01	1.31E+00	7.94E-05	5.61E-02	3.87E-01	1.56E-01	3.95E+00	4.82E+00	1.80E+01
5300	491363.09	3865877.25	2.86993	0.71426	1.43268	1.05436	1.21	1.617	0.5291	0.71426	2.00E+01	1.32E+00	1.49E-04	3.71E-02	3.79E-01	1.52E-01	3.75E+00	4.86E+00	2.08E+01
5301	491863.09	3865877.25	3.22986	0.81487	0.88516	1.15689	2.529	1.712	0.568	0.81487	2.25E+01	1.51E+00	9.22E-05	4.07E-02	7.92E-01	1.61E-01	4.02E+00	5.54E+00	2.35E+01
5302	492363.09	3865877.25	3.29138	0.91609	0.77124	1.23848	4.41	1.737	0.7947	0.91609	2.29E+01	1.69E+00	8.03E-05	4.36E-02	1.38E+00	1.63E-01	5.63E+00	6.23E+00	2.56E+01
5303	492863.09	3865877.25	3.02017	0.68623	0.76051	0.94743	5.246	0.98	0.7601	0.68623	2.11E+01	1.27E+00	7.92E-05	3.33E-02	1.64E+00	9.21E-02	5.39E+00	4.67E+00	2.48E+01
5304	493363.09	3865877.25	2.6755	0.62685	0.77012	1.04231	4.417	0.939	0.702	0.62685	1.87E+01	1.16E+00	8.02E-05	3.67E-02	1.38E+00	8.83E-02	4.97E+00	4.26E+00	2.20E+01
5305	493863.09	3865877.25	2.16918	0.61558	0.82993	1.26544	3.511	1.105	0.8138	0.61558	1.51E+01	1.14E+00	8.64E-05	4.45E-02	1.10E+00	1.04E-01	5.77E+00	4.19E+00	1.91E+01
5306	494363.09	3865877.25	1.62084	0.62088	1.06328	1.50051	4.725	1.039	0.8739	0.62088	1.13E+01	1.15E+00	1.11E-04	5.28E-02	1.48E+00	9.76E-02	6.19E+00	4.22E+00	1.60E+01
5307	494863.09	3865877.25	1.58652	0.71538	1.24377	1.62249	3.526	1.154	0.8447	0.71538	1.11E+01	1.32E+00	1.29E-04	5.71E-02	1.10E+00	1.08E-01	5.98E+00	4.86E+00	1.48E+01
5308	495363.09	3865877.25	1.60002	0.7952	1.38341	1.4833	2.996	1.093	0.7868	0.7952	1.12E+01	1.47E+00	1.44E-04	5.22E-02	9.39E-01	1.03E-01	5.57E+00	5.41E+00	1.39E+01
5309	495863.09	3865877.25	1.50469	0.87356	1.43924	1.20844	2.048	0.938	0.7467	0.87356	1.05E+01	1.61E+00	1.50E-04	4.25E-02	6.42E-01	8.82E-02	5.29E+00	5.94E+00	1.22E+01
5310	496363.09	3865877.25	1.4328	0.84286	1.2626	1.18618	1.994	0.855	0.9687	0.84286	9.99E+00	1.56E+00	1.31E-04	4.17E-02	6.25E-01	8.03E-02	6.86E+00	5.73E+00	1.34E+01
5311	496863.09	3865877.25	1.44222	0.79632	1.23803	1.47808	2.591	0.944	1.057	0.79632	1.01E+01	1.47E+00	1.29E-04	5.20E-02	8.12E-01	8.88E-02	7.49E+00	5.41E+00	1.46E+01
5312	497363.09	3865877.25	1.62845	0.82903	1.22512	1.3761	2.21	0.977	0.9542	0.82903	1.14E+01	1.53E+00	1.28E-04	4.84E-02	6.93E-01	9.19E-02	6.76E+00	5.64E+00	1.48E+01
5313	497863.09	3865877.25	1.75599	0.86892	1.14125	1.17722	1.928	1.2	0.9903	0.86892	1.22E+01	1.60E+00	1.19E-04	4.14E-02	6.04E-01	1.13E-01	7.02E+00	5.91E+00	1.57E+01
5314	498363.09	3865877.25	1.9535	0.93817	0.99419	1.04016	1.779	1.325	0.8941	0.93817	1.36E+01	1.73E+00	1.04E-04	3.66E-02	5.58E-01	1.25E-01	6.33E+00	6.38E+00	1.60E+01
5315	471363.09	3866377.25	0.82296	0.39064	0.79832	0.72371	1.743	0.714	0.3823	0.39064	5.74E+00	7.21E-01	8.31E-05	2.55E-02	5.46E-01	6.72E-02	2.71E+00	2.66E+00	7.15E+00
5316	471863.09	3866377.25	0.85741	0.39353	0.84341	0.73425	2.012	0.705	0.3869	0.39353	5.98E+00	7.27E-01	8.78E-05	2.58E-02	6.30E-01	6.63E-02	2.74E+00	2.68E+00	7.49E+00
5317	472363.09	3866377.25	0.89267	0.39885	0.8185	0.72997	2.189	0.678	0.3918	0.39885	6.22E+00	7.37E-01	8.52E-05	2.57E-02	6.86E-01	6.37E-02	2.78E+00	2.71E+00	7.80E+00
5318	472863.09	3866377.25	0.89673	0.39859	0.83384	0.69399	2.273	0.619	0.3927	0.39859	6.25E+00	7.36E-01	8.68E-05	2.44E-02	7.12E-01	5.82E-02	2.78E+00	2.71E+00	7.86E+00
5319	473363.09	3866377.25	0.89612	0.39848	0.85791	0.66192	2.626	0.592	0.3933	0.39848	6.25E+00	7.36E-01	8.93E-05	2.33E-02	8.23E-01	5.56E-02	2.79E+00	2.71E+00	7.96E+00
5320	473863.09	3866377.25	0.88093	0.39793	0.85666	0.67642	2.942	0.59	0.3937	0.39793	6.14E+00	7.35E-01	8.92E-05	2.38E-02	9.22E-01	5.54E-02	2.79E+00	2.71E+00	7.96E+00
5321	474363.09	3866377.25	0.87972	0.40058	0.88674	0.69173	3.076	0.624	0.3967	0.40058	6.13E+00	7.40E-01	9.23E-05	2.43E-02	9.64E-01	5.87E-02	2.81E+00	2.72E+00	8.01E+00
5322	474863.09	3866377.25	0.8716	0.4058	0.84115	0.68601	3.027	0.662	0.4015	0.4058	6.08E+00	7.49E-01	8.76E-05	2.41E-02	9.48E-01	6.22E-02	2.84E+00	2.76E+00	7.95E+00
5323	475363.09	3866377.25	0.84298	0.40671	0.70085	0.65259	2.824	0.693	0.4027	0.40671	5.88E+00	7.51E-01	7.30E-05	2.30E-02	8.85E-01	6.51E-02	2.85E+00	2.77E+00	7.69E+00
5324	475863.09	3866377.25	0.82754	0.405	0.74836	0.63401	2.643	0.724	0.401	0.405	5.77E+00	7.48E-01	7.79E-05	2.23E-02	8.28E-01	6.80E-02	2.84E+00	2.75E+00	7.52E+00
5325	476363.09	3866377.25	0.88197	0.40432	0.76202	0.75537	3.109	0.828	0.4021	0.40432	6.15E+00	7.47E-01	7.93E-05	2.66E-02	9.74E-01	7.78E-02	2.85E+00	2.75E+00	8.07E+00
5326	476863.09	3866377.25	0.95383	0.36137	0.91207	0.8627	3.606	0.782	0.3476	0.36137	6.65E+00	6.67E-01	9.50E-05	3.04E-02	1.13E+00	7.35E-02	2.46E+00	2.46E+00	8.56E+00
5327	477363.09	3866377.25	0.94103	0.42239	0.94489	0.85355	3.9	0.84	0.4142	0.42239	6.56E+00	7.80E-01	9.84E-05	3.00E-02	1.22E+00	7.90E-02	2.93E+00	2.87E+00	8.73E+00
5328	477863.09	3866377.25	0.92078	0.42045	1.0419	0.88913	3.61	0.791	0.4188	0.42045	6.42E+00	7.77E-01	1.08E-04	3.13E-02	1.13E+00	7.44E-02	2.97E+00	2.86E+00	8.54E+00
5329	478363.09	3866377.25	0.93334	0.41454	0.95975	0.95624	3.49	0.764	0.4142	0.41454	6.51E+00	7.66E-01	9.99E-05	3.37E-02	1.09E+00	7.18E-02	2.93E+00	2.82E+00	8.59E+00
5330	478863.09	3866377.25	0.95178	0.41444	1.06271	0.95942	3.132	0.731	0.415	0.41444	6.64E+00	7.65E-01	1.11E-04	3.38E-02	9.81E-01	6.87E-02	2.94E+00	2.82E+00	8.61E+00
5331	479363.09	3866377.25	0.97267	0.41754	1.08449	0.93142	2.512	0.71	0.4188	0.41754	6.78E+00	7.71E-01	1.13E-04	3.28E-02	7.87E-01	6.68E-02	2.97E+00	2.84E+00	8.57E+00
5332	479863.09	3866377.25	0.97116	0.43612	0.90106	0.9389	1.942	0.682	0.4371	0.43612	6.77E+00	8.05E-01	9.38E-05	3.30E-02	6.09E-01	6.41E-02	3.10E+00	2.97E+00	8.41E+00
5333	480363.09	3866377.25	0.96108	0.46539	0.72363	1.05668	1.629	0.673	0.4608	0.46539	6.70E+00	8.60E-01	7.53E-05	3.72E-02	5.10E-01	6.32E-02	3.26E+00	3.16E+00	8.27E+00
5334	480863.09	3866377.25	0.96708	0.50586	0.94624	1.15588	1.862	0.704	0.4802	0.50586	6.74E+00	9.34E-01	9.85E-05	4.07E-02	5.83E-01	6.62E-02	3.40E+00	3.44E+00	8.33E+00
5335	481363.09	3866377.25	1.03149	0.54295	1.24374	1.15465	2.493	0.766	0.4954	0.54295	7.19E+00	1.00E+00	1.29E-04	4.06E-02	7.81E-01	7.20E-02	3.51E+00	3.69E+00	8.91E+00
5336	481863.09	3866377.25	1.12852	0.52559	1.42035	1.10005	3.085	0.815	0.482	0.52559	7.87E+00	9.71E-01	1.48E-04	3.87E-02	9.67E-01	7.66E-02	3.42E+00	3.57E+00	9.76E+00
5337	482363.09	3866377.25	1.2031	0.4982	1.43523	1.06465	3.259	0.827	0.4726	0.4982	8.39E+00	9.20E-01	1.49E-04	3.75E-02	1.02E+00	7.77E-02	3.35E+00	3.39E+00	1.04E+01
5338	482863.09	3866377.25	1.22871	0.49967	1.46735	1.02697	3.427	0.822	0.4781	0.49967	8.57E+00	9.23E-01	1.53E-04	3.61E-02	1.07E+00	7.73E-02	3.39E+00	3.40E+00	1.07E+01
5339	483363.09	3866377.25	1.20377	0.50266	1.50211	1.00612	2.776	0.839	0.4877	0.50266	8.39E+00	9.28E-01	1.56E-04	3.54E-02	8.70E-01	7.88E-02	3.46E+00	3.42E+00	1.03E+01
5340	483863.09	3866377.25	1.12799	0.49998	1.02449	1.00204	1.973	0.848	0.4919	0.49998	7.86E+00	9.23E-01	1.07E-04	3.53E-02	6.18E-01	7.97E-02	3.49E+00	3.40E+00	9.61E+00
5341	484363.09	3866377.25	1.03013	0.48564	0.99454	1.00255	2.357	0.86	0.48	0.48564	7.18E+00	8.97E-01	1.04E-04	3.53E-02	7.39E-01	8.09E-02	3.40E+00	3.30E+00	9.03E+00
5342	484863.09	3866377.25	1.03831	0.46637	1.17958	1.0878	3.401	0.968	0.4602	0.46637	7.24E+00	8.61E-01	1.23E-04	3.83E-02	1.07E+00	9.10E-02	3.26E+00	3.17E+00	9.38E+00
5343	485363.09	3866377.25	1.09743	0.46107	1.17177	1.27832	2.894	1.115	0.4489	0.46107	7.65E+00	8.52E-01	1.22E-04	4.50E-02	9.07E-01	1.05E-01	3.18E+00	3.14E+00	9.60E+00
5344	485863.09	3866377.25	1.29056	0.48765	1.30508	1.49803	2.217	1.199	0.466	0.48765	9.00E+00	9.01E-01	1.36E-04	5.27E-02	6.95E-01	1.13E-01	3.30E+00	3.32E+00	1.07E+01
5345	486363.09	3866377.25	1.37447	0.51405	1.51027	1.56566	4.14	1.249	0.4895	0.51405	9.58E+00	9.49E-01	1.57E-04	5.51E-02	1.30E+00	1.17E-01	3.47E+00	3.50E+00	1.20E+01
5346	486863.09	3866377.25	1.34967	0.52468	1.07254	1.65239	5.619	1.366	0.5128	0.52468	9.41E+00	9.69E-01	1.12E-04	5.82E-02	1.76E+00	1.28E-01	3.63E+00	3.57E+00	1.24E+01
5347	487363.09	3866377.25	1.34786	0.54042	1.30705	1.66375	3.585	1.304	0.5469	0.54042	9.40E+00	9.98E-01	1.36E-04	5.86E-02	1.12E+00	1.23E-01	3.87E+00	3.67E+00	1.19E+01
5348	487863.09	3866377.25	1.1402	0.52452	1.07899	1.95349	1.837	1.046	0.5335	0.52452	7.95E+00	9.69E-01	1.12E-04	6.88E-02	5.76E-01	9.83E-02	3.78E+00	3.57E+00	9.87E+00
5349	488363.09	3866377.25	0.92504	0.52666	0.76477	2.50032	1.732	0.836	0.5326	0.52666	6.45E+00	9.73E-01	7.96E-05	8.80E-02	5.43E-01	7.86E-02	3.77E+00	3.58E+00	8.32E+00
5350	488863.09	3866377.25	0.97352	0.47999	1.6277	3.93969	1.318	0.819	0.4646	0.47999	6.79E+00	8.87E-01	1.69E-04	1.39E-01	4.13E-01	7.70E-02	3.29E+00	3.26E+00	8.33E+00
5351	489363.09	3866377.25	1.3101	0.53937	1.5666	1.95626	1.325	0.881	0.4586	0.53937	9.13E+00	9.96E-01	1.63E-04	6.89E-02	4.15E-01	8.28E-02	3.25E+00	3.67E+00	1.03E+01
5352	489863.09	3866377.25	1.66313	0.71357	1.40454	1.20192	1.941	0.904	0.5671	0.71357	1.16E+01	1.32E+00	1.46E-04	4.23E-02	6.08E-01	8.49E-02	4.02E+00	4.85E+00	1.28E+01
5353	490363.09	3866377.25	1.80622	0.64238	0.85412	1.58529	1.918	1.013	0.5271	0.64238	1.26E+01	1.19E+00	8.89E-05	5.58E-02	6.01E-01	9.52E-02	3.73E+00	4.37E+00	1.39E+01
5354	490863.09	3866377.25	2.03088	0.62889	0.74901	1.48873	1.301	1.31	0.5407	0.62889	1.42E+01	1.16E+00	7.80E-05	5.24E-02	4.08E-01	1.23E-01	3.83E+00	4.28E+00	1.55E+01

5355	491363.09	3866377.25	2.44158	0.59269	1.23647	1.20733	0.963	1.627	0.5307	0.59269	1.70E+01	1.09E+00	1.29E-04	4.25E-02	3.02E-01	1.53E-01	3.76E+00	4.03E+00	1.83E+01
5356	491863.09	3866377.25	2.86595	0.67567	0.96691	0.9987	1.753	1.444	0.5142	0.67567	2.00E+01	1.25E+00	1.01E-04	3.52E-02	5.49E-01	1.36E-01	3.64E+00	4.59E+00	2.10E+01
5357	492363.09	3866377.25	3.11491	0.80136	0.76983	1.14993	3.315	1.644	0.6507	0.80136	2.17E+01	1.48E+00	8.01E-05	4.05E-02	1.04E+00	1.55E-01	4.61E+00	5.45E+00	2.36E+01
5358	492863.09	3866377.25	3.01957	0.83811	0.68202	1.08116	4.401	1.391	0.8126	0.83811	2.11E+01	1.55E+00	7.10E-05	3.81E-02	1.38E+00	1.31E-01	5.76E+00	5.70E+00	2.42E+01
5359	493363.09	3866377.25	2.7097	0.76709	1.01237	1.10973	5.627	1.256	0.8198	0.76709	1.89E+01	1.42E+00	1.05E-04	3.91E-02	1.76E+00	1.18E-01	5.81E+00	5.22E+00	2.28E+01
5360	493863.09	3866377.25	2.36068	0.74355	0.90175	1.20538	4.33	1.317	0.7762	0.74355	1.65E+01	1.37E+00	9.39E-05	4.24E-02	1.36E+00	1.24E-01	5.50E+00	5.06E+00	1.98E+01
5361	494363.09	3866377.25	1.89508	0.70716	0.92917	1.32082	3.654	1.074	0.8221	0.70716	1.32E+01	1.31E+00	9.67E-05	4.65E-02	1.14E+00	1.01E-01	5.82E+00	4.81E+00	1.68E+01
5362	494863.09	3866377.25	1.47631	0.65984	1.05567	1.50395	4.271	0.997	0.8402	0.65984	1.03E+01	1.22E+00	1.10E-04	5.29E-02	1.34E+00	9.37E-02	5.95E+00	4.49E+00	1.45E+01
5363	495363.09	3866377.25	1.5298	0.63688	1.15395	1.43571	3.671	1.045	0.7461	0.63688	1.07E+01	1.18E+00	1.20E-04	5.05E-02	1.15E+00	9.82E-02	5.29E+00	4.33E+00	1.41E+01
5364	495863.09	3866377.25	1.56464	0.78167	1.28857	1.28129	2.8	1.003	0.632	0.78167	1.09E+01	1.44E+00	1.34E-04	4.51E-02	8.77E-01	9.43E-02	4.48E+00	5.32E+00	1.25E+01
5365	496363.09	3866377.25	1.48481	0.82779	1.31062	0.99683	1.821	0.859	0.7185	0.82779	1.04E+01	1.53E+00	1.36E-04	3.51E-02	5.71E-01	8.08E-02	5.09E+00	5.63E+00	1.20E+01
5366	496863.09	3866377.25	1.36127	0.80367	1.14858	1.11917	1.816	0.751	1.0009	0.80367	9.49E+00	1.48E+00	1.20E-04	3.94E-02	5.69E-01	7.06E-02	7.09E+00	5.46E+00	1.33E+01
5367	497363.09	3866377.25	1.31488	0.73827	1.07659	1.45372	2.496	0.868	1.0468	0.73827	9.17E+00	1.36E+00	1.12E-04	5.12E-02	7.82E-01	8.16E-02	7.42E+00	5.02E+00	1.38E+01
5368	497863.09	3866377.25	1.49815	0.77215	1.13813	1.38383	2.505	0.882	0.936	0.77215	1.04E+01	1.43E+00	1.18E-04	4.87E-02	7.85E-01	8.29E-02	6.63E+00	5.25E+00	1.42E+01
5369	498363.09	3866377.25	1.68641	0.70719	1.03992	1.07686	2.185	0.791	0.8534	0.70719	1.18E+01	1.31E+00	1.08E-04	3.79E-02	6.85E-01	7.43E-02	6.05E+00	4.81E+00	1.51E+01
5370	474494.92	3848334.16	1.77897	18.09673	0.34174	0.79971	1.517	0.827	18.221	18.09673	1.24E+01	3.34E+01	3.56E-05	2.81E-02	4.75E-01	7.77E-02	1.29E+02	1.23E+02	5.25E+01
5371	475167.27	3848920.79	2.56873	17.72916	0.38945	0.909	1.774	0.911	17.824	17.72916	1.79E+01	3.27E+01	4.05E-05	3.20E-02	5.56E-01	8.57E-02	1.26E+02	1.21E+02	5.71E+01
5372	475297.89	3848997.96	2.57744	13.18686	0.40133	0.9185	1.789	0.932	13.54	13.18686	1.80E+01	2.44E+01	4.18E-05	3.23E-02	5.60E-01	8.76E-02	9.59E+01	8.97E+01	4.93E+01
5373	475439.05	3849062	2.77219	13.04148	0.39464	0.94163	1.786	0.95	13.2	13.04148	1.93E+01	2.41E+01	4.11E-05	3.31E-02	5.60E-01	8.93E-02	9.35E+01	8.87E+01	4.89E+01
5374	475486.86	3849061.09	2.64548	10.54485	0.40751	0.93892	1.759	0.956	10.67	10.54485	1.84E+01	1.95E+01	4.24E-05	3.30E-02	5.51E-01	8.99E-02	7.56E+01	7.17E+01	4.25E+01
5375	475538.46	3849075.56	2.60144	11.01695	0.42655	0.93466	1.744	0.966	11.155	11.01695	1.81E+01	2.03E+01	4.44E-05	3.29E-02	5.47E-01	9.08E-02	7.90E+01	7.49E+01	4.33E+01
5376	475751.79	3849137.15	2.45259	16.30023	0.54066	0.88784	1.673	1	16.532	16.30023	1.71E+01	3.01E+01	5.63E-05	3.12E-02	5.24E-01	9.40E-02	1.17E+02	1.11E+02	5.42E+01
5377	476303.62	3849223.38	2.1467	16.70916	1.1208	0.71061	1.293	0.864	16.797	16.70916	1.50E+01	3.09E+01	1.17E-04	2.50E-02	4.05E-01	8.12E-02	1.19E+02	1.14E+02	5.17E+01
5378	476304.51	3849238.92	2.21401	21.23355	1.1034	0.723	1.319	0.879	21.325	21.23355	1.54E+01	3.92E+01	1.15E-04	2.54E-02	4.13E-01	8.26E-02	1.51E+02	1.44E+02	6.19E+01
5379	476365.04	3849247.98	2.21666	19.8035	1.16865	0.70408	1.277	0.851	19.959	19.8035	1.55E+01	3.66E+01	1.22E-04	2.48E-02	4.00E-01	8.00E-02	1.41E+02	1.35E+02	5.93E+01
5380	476444.86	3849267.13	2.19674	19.85355	1.22964	0.68564	1.229	0.815	20.109	19.85355	1.53E+01	3.67E+01	1.28E-04	2.41E-02	3.85E-01	7.66E-02	1.42E+02	1.35E+02	5.99E+01
5381	476550.75	3849300.66	2.13905	22.48653	1.31294	0.67142	1.193	0.786	23.109	22.48653	1.49E+01	4.15E+01	1.37E-04	2.36E-02	3.74E-01	7.38E-02	1.64E+02	1.53E+02	6.77E+01
5382	476656.71	3849346.88	2.10376	25.363	1.37025	0.66588	1.176	0.765	25.817	25.363	1.47E+01	4.68E+01	1.43E-04	2.34E-02	3.69E-01	7.19E-02	1.83E+02	1.72E+02	7.24E+01
5383	476873.55	3849454.53	2.75304	22.28012	1.4634	0.6664	1.168	0.739	22.466	22.28012	1.92E+01	4.11E+01	1.52E-04	2.35E-02	3.66E-01	6.95E-02	1.59E+02	1.52E+02	6.85E+01
5384	477700	3849859.7	2.52597	20.67251	1.51664	0.74824	1.165	0.708	20.471	20.67251	1.76E+01	3.82E+01	1.58E-04	2.63E-02	3.65E-01	6.66E-02	1.45E+02	1.41E+02	6.07E+01
5385	477743.16	3849856.38	2.461	15.9244	1.46293	0.75474	1.12	0.699	15.879	15.9244	1.72E+01	2.94E+01	1.52E-04	2.66E-02	3.51E-01	6.57E-02	1.13E+02	1.08E+02	5.12E+01
5386	478477.35	3850216.33	2.6832	16.31151	1.15901	1.00057	1.21	0.848	16.034	16.31151	1.87E+01	3.01E+01	1.21E-04	3.52E-02	3.79E-01	7.97E-02	1.14E+02	1.11E+02	5.20E+01
5387	478485.8	3850201.6	2.68569	13.76424	1.13243	1.0326	1.237	0.873	13.592	13.76424	1.87E+01	2.54E+01	1.18E-04	3.63E-02	3.88E-01	8.21E-02	9.63E+01	9.36E+01	4.74E+01
5388	479113.21	3850501.53	3.08336	12.49521	0.95318	1.38138	1.693	1.639	12.312	12.49521	2.15E+01	2.31E+01	9.92E-05	4.86E-02	5.31E-01	1.54E-01	8.72E+01	8.50E+01	4.76E+01
5389	479108.11	3850382.28	3.40645	7.53757	0.8533	1.41119	1.813	1.798	7.5097	7.53757	2.37E+01	1.39E+01	8.88E-05	4.97E-02	5.68E-01	1.69E-01	5.32E+01	5.13E+01	4.04E+01
5390	479689.85	3850674.28	4.09444	7.90008	0.7193	1.45707	2.235	2.038	7.8338	7.90008	2.85E+01	1.46E+01	7.49E-05	5.13E-02	7.00E-01	1.92E-01	5.55E+01	5.37E+01	4.59E+01
5391	479952.42	3850774.28	3.82855	7.2428	0.70486	1.40888	2.369	1.871	7.2042	7.2428	2.67E+01	1.34E+01	7.34E-05	4.96E-02	7.42E-01	1.76E-01	5.10E+01	4.92E+01	4.28E+01
5392	479911.32	3850884.85	3.91624	12.86837	0.76357	1.52813	2.146	2.113	12.571	12.86837	2.73E+01	2.38E+01	7.95E-05	5.38E-02	6.73E-01	1.99E-01	8.91E+01	8.75E+01	5.36E+01
5393	480500.92	3851178.12	4.1154	12.607	0.74658	1.47044	2.39	1.87	12.626	12.607	2.87E+01	2.33E+01	7.77E-05	5.18E-02	7.49E-01	1.76E-01	8.95E+01	8.57E+01	5.67E+01
5394	480738.01	3851289.27	4.30781	12.27085	0.96423	1.52238	2.433	1.845	12.478	12.27085	3.00E+01	2.27E+01	1.00E-04	5.36E-02	7.62E-01	1.73E-01	8.84E+01	8.34E+01	5.87E+01
5395	481055.42	3851443.58	4.92603	13.84905	1.58389	1.72298	2.471	2.194	14.197	13.84905	3.43E+01	2.56E+01	1.65E-04	6.06E-02	7.74E-01	2.06E-01	1.01E+02	9.42E+01	6.74E+01
5396	481110.22	3851443.15	4.78541	12.7029	1.72726	1.73625	2.475	2.216	12.646	12.7029	3.34E+01	2.35E+01	1.80E-04	6.11E-02	7.75E-01	2.08E-01	8.96E+01	8.64E+01	6.11E+01
5397	481111.1	3851417.45	4.51759	11.38636	1.75138	1.71728	2.458	2.195	11.291	11.38636	3.15E+01	2.10E+01	1.82E-04	6.04E-02	7.70E-01	2.06E-01	8.00E+01	7.74E+01	5.61E+01
5398	482248.44	3852605.09	5.51482	14.4507	2.14604	2.77378	3.044	2.547	14.614	14.4507	3.84E+01	2.67E+01	2.23E-04	9.76E-02	9.54E-01	2.39E-01	1.04E+02	9.83E+01	7.17E+01
5399	482273.34	3852632.31	5.55148	14.56357	2.21105	2.8084	3.061	2.567	14.718	14.56357	3.87E+01	2.69E+01	2.30E-04	9.88E-02	9.59E-01	2.41E-01	1.04E+02	9.90E+01	7.22E+01
5400	482665.46	3853038.72	4.77204	13.23589	4.32877	3.21346	3.326	2.952	12.403	13.23589	3.33E+01	2.44E+01	4.51E-04	1.13E-01	1.04E+00	2.78E-01	8.79E+01	9.00E+01	5.70E+01
5401	483077.95	3853844.31	6.92064	6.87213	5.55196	13.86067	4.471	14.02	8.7591	6.87213	4.82E+01	1.27E+01	5.78E-04	4.88E-01	1.40E+00	1.32E+00	6.21E+01	4.67E+01	7.95E+01
5402	483121.38	3853909.38	7.05236	6.66177	5.00197	22.94115	4.628	19.23	8.9143	6.66177	4.92E+01	1.23E+01	5.21E-04	8.07E-01	1.45E+00	1.81E+00	6.32E+01	4.53E+01	8.34E+01
5403	483492.64	3853911.49	5.68371	3.33107	3.58021	7.20248	4.61	5.752	3.8448	3.33107	3.96E+01	6.15E+00	3.73E-04	2.53E-01	1.44E+00	5.41E-01	2.72E+01	2.27E+01	5.26E+01
5404	483498.29	3854204.73	7.08731	4.00058	5.11124	39.55784	5.361	15.36	7.1887	4.00058	4.94E+01	7.39E+00	5.32E-04	1.39E+00	1.68E+00	1.44E+00	5.09E+01	2.72E+01	8.50E+01
5405	484132.44	3854662.55	8.93437	1.57463	8.6516	47.4295	6.163	12.82	10.608	1.57463	6.23E+01	2.91E+00	9.01E-04	1.67E+00	1.93E+00	1.20E+00	7.52E+01	1.07E+01	1.34E+02
5406	484627.62	3854876.13	9.21186	1.74385	8.01284	50.29021	6.985	11.08	12.127	1.74385	6.42E+01	3.22E+00	8.34E-04	1.77E+00	2.19E+00	1.04E+00	8.59E+01	1.19E+01	1.47E+02
5407	484756.14	3854949.04	8.89247	1.77998	7.61108	45.82522	7.46	12.02	12.439	1.77998	6.20E+01	3.29E+00	7.92E-04	1.61E+00	2.34E+00	1.13E+00	8.81E+01	1.21E+01	1.46E+02
5408	486697.51	3856599.17	8.8626	1.31732	7.11094	46.05112	44.07	10.26	6.5323	1.31732	6.18E+01	2.43E+00	7.40E-04	1.62E+00	1.38E+01	9.65E-01	4.63E+01	8.96E+00	1.18E+02
5409	487105.31	3856962.27	9.04388	1.5618	8.00025	38.27343	109.2	10.54	5.627	1.5618	6.31E+01	2.88E+00	8.33E-04	1.35E+00	3.42E+01	9.90E-01	3.99E+01	1.06E+01	1.32E+02
5410	487157.57	3856901.7	8.06319	1.50485	7.4775	16.65417	103.4	7.224	4.8418	1.50485	5.62E+01	2.78E+00	7.78E-04	5.86E-01	3.24E+01	6.79E-01	3.43E+01	1.02E+01	1.17E+02
5411	487173.5	3856853.74	7.60136	1.46006	6.81976	13.27939	95.68	6.231	4.533	1.46006	5.30E+01	2.70E+00	7.10E-04	4.67E-01	3.00E+01	5.86E-01	3.21E+01	9.93E+00	1.09E+02

5412	487564.41	3856860.83	6.05567	1.4011	5.7378	6.8182	94.22	4.276	3.2703	1.4011	4.22E+01	2.59E+00	5.97E-04	2.40E-01	2.95E+01	4.02E-01	2.32E+01	9.53E+00	8.86E+01
5413	487563.31	3856931.58	6.29312	1.47415	5.56799	7.43434	91.33	4.581	3.4353	1.47415	4.39E+01	2.72E+00	5.80E-04	2.62E-01	2.86E+01	4.31E-01	2.43E+01	1.00E+01	9.02E+01
5414	487782.7	3856926.85	5.72296	1.42595	5.50224	6.11766	91.69	3.963	2.9352	1.42595	3.99E+01	2.63E+00	5.73E-04	2.15E-01	2.87E+01	3.73E-01	2.08E+01	9.70E+00	8.30E+01
5415	487782.39	3856757.07	5.32766	1.3942	5.91943	5.25598	84.17	3.361	2.6549	1.3942	3.71E+01	2.57E+00	6.16E-04	1.85E-01	2.64E+01	3.16E-01	1.88E+01	9.48E+00	7.59E+01
5416	487917.26	3856752.41	5.06323	1.43996	5.72498	4.70457	91.26	3.084	2.4338	1.43996	3.53E+01	2.66E+00	5.96E-04	1.66E-01	2.86E+01	2.90E-01	1.72E+01	9.79E+00	7.45E+01
5417	487919.57	3856953.35	5.49448	1.4406	5.81729	5.78355	95.23	3.753	2.7199	1.4406	3.83E+01	2.66E+00	6.06E-04	2.04E-01	2.98E+01	3.53E-01	1.93E+01	9.80E+00	8.08E+01
5418	487932.76	3857000.32	5.34674	1.44917	6.11711	5.84716	97.35	3.879	2.7814	1.44917	3.73E+01	2.68E+00	6.37E-04	2.06E-01	3.05E+01	3.65E-01	1.97E+01	9.85E+00	8.09E+01
5419	487960.5	3857044.75	5.31623	1.46909	6.07619	5.89873	99.41	3.976	2.8115	1.46909	3.71E+01	2.71E+00	6.33E-04	2.08E-01	3.11E+01	3.74E-01	1.99E+01	9.99E+00	8.14E+01
5420	488016.54	3857089.54	5.18416	1.48636	5.1769	5.86615	102	3.96	2.7905	1.48636	3.61E+01	2.75E+00	5.39E-04	2.06E-01	3.20E+01	3.72E-01	1.98E+01	1.01E+01	8.11E+01
5421	488114.39	3857165.47	4.98978	1.52974	10.85149	5.82778	104.9	4.098	2.7478	1.52974	3.48E+01	2.83E+00	1.13E-03	2.05E-01	3.29E+01	3.85E-01	1.95E+01	1.04E+01	8.01E+01
5422	488171.49	3857234.24	4.96396	1.58685	9.10406	5.86542	105.7	5.037	2.7563	1.58685	3.46E+01	2.93E+00	9.48E-04	2.06E-01	3.31E+01	4.73E-01	1.95E+01	1.08E+01	8.01E+01
5423	488193.16	3857297.8	5.09536	1.65509	7.64085	5.92336	106.5	5.855	2.808	1.65509	3.55E+01	3.06E+00	7.95E-04	2.08E-01	3.34E+01	5.50E-01	1.99E+01	1.13E+01	8.14E+01
5424	488189.27	3857649.94	6.5484	2.05285	11.61062	8.87095	100.8	8.999	3.4002	2.05285	4.57E+01	3.79E+00	1.21E-03	3.12E-01	3.16E+01	8.46E-01	2.41E+01	1.40E+01	9.23E+01
5425	488127.43	3857732.32	7.39913	2.2297	19.09928	12.7556	99.97	12.05	3.8351	2.2297	5.16E+01	4.12E+00	1.99E-03	4.49E-01	3.13E+01	1.13E+00	2.72E+01	1.52E+01	1.01E+02
5426	488149.93	3857752.94	7.41306	2.25105	20.97294	12.85716	98.06	12.2	3.8277	2.25105	5.17E+01	4.16E+00	2.18E-03	4.53E-01	3.07E+01	1.15E+00	2.71E+01	1.53E+01	1.00E+02
5427	488144.76	3857758.71	7.50027	2.2647	21.09905	13.38954	97.98	12.43	3.8724	2.2647	5.23E+01	4.18E+00	2.20E-03	4.71E-01	3.07E+01	1.17E+00	2.74E+01	1.54E+01	1.01E+02
5428	488335.58	3857932.55	7.59738	2.55077	16.70758	13.64398	68.63	10.75	3.8381	2.55077	5.30E+01	4.71E+00	1.74E-03	4.80E-01	2.15E+01	1.01E+00	2.72E+01	1.73E+01	9.05E+01
5429	488372.29	3857943.79	7.44145	2.54471	16.66395	12.69218	66.44	10.38	3.7431	2.54471	5.19E+01	4.70E+00	1.73E-03	4.47E-01	2.08E+01	9.76E-01	2.65E+01	1.73E+01	8.80E+01
5430	488828.64	3857936.4	5.82254	2.11361	12.76667	7.50468	52.84	7.109	2.7936	2.11361	4.06E+01	3.90E+00	1.33E-03	2.64E-01	1.66E+01	6.68E-01	1.98E+01	1.44E+01	6.74E+01
5431	488829.08	3857959.58	5.91035	2.17151	12.31932	7.63439	51.5	7.156	2.8231	2.17151	4.12E+01	4.01E+00	1.28E-03	2.69E-01	1.61E+01	6.73E-01	2.00E+01	1.48E+01	6.75E+01
5432	488351.61	3857964.55	7.70916	2.62355	17.4432	14.51696	66.51	10.93	3.9221	2.62355	5.37E+01	4.85E+00	1.82E-03	5.11E-01	2.08E+01	1.03E+00	2.78E+01	1.78E+01	9.09E+01
5433	488316.87	3857947.65	7.82764	2.60964	17.32585	15.36615	69.64	11.22	3.9918	2.60964	5.46E+01	4.82E+00	1.80E-03	5.41E-01	2.18E+01	1.05E+00	2.83E+01	1.77E+01	9.33E+01
5434	488129.1	3857775.77	7.78359	2.31091	21.30392	15.27432	97.27	13.17	4.021	2.31091	5.43E+01	4.27E+00	2.22E-03	5.38E-01	3.05E+01	1.24E+00	2.85E+01	1.57E+01	1.04E+02
5435	488062.53	3857846.13	9.08188	2.54622	22.25799	42.68752	92.21	18.27	4.94	2.54622	6.33E+01	4.70E+00	2.32E-03	1.50E+00	2.89E+01	1.72E+00	3.50E+01	1.73E+01	1.18E+02
5436	488330.41	3858091.34	9.13848	3.04004	17.34896	42.27165	63.13	17.28	4.8056	3.04004	6.37E+01	5.61E+00	1.81E-03	1.49E+00	1.98E+01	1.62E+00	3.40E+01	2.07E+01	1.06E+02
5437	488470.87	3858174.45	8.79236	3.19919	14.39106	24.22752	56.75	13.7	4.4833	3.19919	6.13E+01	5.91E+00	1.50E-03	8.53E-01	1.78E+01	1.29E+00	3.18E+01	2.18E+01	9.71E+01
5438	488568.9	3858262.31	9.00497	3.60288	14.56853	24.08263	50.76	13.65	4.5795	3.60288	6.28E+01	6.65E+00	1.52E-03	8.48E-01	1.59E+01	1.28E+00	3.24E+01	2.45E+01	9.54E+01
5439	488964.27	3858025.71	6.04271	2.21613	11.70407	7.93432	47.73	6.731	2.7264	2.21613	4.21E+01	4.09E+00	1.22E-03	2.79E-01	1.50E+01	6.33E-01	1.93E+01	1.51E+01	6.63E+01
5440	489147.25	3857956.64	5.90097	1.94625	9.96096	8.77893	44.92	5.903	2.3942	1.94625	4.11E+01	3.59E+00	1.04E-03	3.09E-01	1.41E+01	5.55E-01	1.70E+01	1.32E+01	6.34E+01
5441	489343.52	3857932.45	5.74308	1.87949	9.8156	5.84926	36.64	5.226	2.2556	1.87949	4.00E+01	3.47E+00	1.02E-03	2.06E-01	1.15E+01	4.91E-01	1.60E+01	1.28E+01	5.89E+01
5442	489866.19	3857923.19	5.00782	1.45357	6.72139	8.36693	35.16	4.207	1.7841	1.45357	3.49E+01	2.68E+00	7.00E-04	2.94E-01	1.10E+01	3.95E-01	1.26E+01	9.88E+00	5.21E+01
5443	489955.65	3857902.27	4.73102	1.38228	6.37094	8.30559	36.82	3.995	1.726	1.38228	3.30E+01	2.55E+00	6.63E-04	2.92E-01	1.15E+01	3.76E-01	1.22E+01	9.40E+00	5.06E+01
5444	490079.44	3857847.9	4.45486	1.32673	6.51169	7.23664	37.37	3.9	1.6251	1.32673	3.11E+01	2.45E+00	6.78E-04	2.55E-01	1.17E+01	3.67E-01	1.15E+01	9.02E+00	4.83E+01
5445	490108.49	3857934.13	5.22333	1.36762	5.91272	7.58263	35.12	3.947	1.6576	1.36762	3.64E+01	2.53E+00	6.16E-04	2.67E-01	1.10E+01	3.71E-01	1.17E+01	9.30E+00	5.30E+01
5446	489884.48	3858014.17	5.7042	1.54294	7.37644	9.59275	30.38	4.352	1.8313	1.54294	3.98E+01	2.85E+00	7.68E-04	3.38E-01	9.52E+00	4.09E-01	1.30E+01	1.05E+01	5.54E+01
5447	489326.56	3858025.86	5.77816	1.98581	10.61516	6.39188	39.93	5.449	2.322	1.98581	4.03E+01	3.67E+00	1.11E-03	2.25E-01	1.25E+01	5.12E-01	1.65E+01	1.35E+01	6.01E+01
5448	489130.38	3858056.71	5.99005	2.1303	10.96024	9.65155	46.06	6.134	2.5196	2.1303	4.18E+01	3.93E+00	1.14E-03	3.40E-01	1.44E+01	5.77E-01	1.79E+01	1.45E+01	6.44E+01
5449	488936.49	3858143.93	6.57539	2.52583	11.48373	9.75929	41.35	7.581	2.9395	2.52583	4.58E+01	4.67E+00	1.20E-03	3.43E-01	1.30E+01	7.13E-01	2.08E+01	1.72E+01	6.82E+01
5450	488638.08	3858327.45	9.26491	3.78803	14.55626	24.97139	47.36	13.9	4.606	3.78803	6.46E+01	7.00E+00	1.52E-03	8.79E-01	1.48E+01	1.31E+00	3.26E+01	2.58E+01	9.55E+01
5451	488663.79	3858349.57	9.27409	3.84493	14.06702	24.82545	46.22	13.86	4.6026	3.84493	6.47E+01	7.10E+00	1.46E-03	8.74E-01	1.45E+01	1.30E+00	3.26E+01	2.61E+01	9.49E+01
5452	488694.56	3858349.5	9.08873	3.73459	13.89382	20.67753	44.73	12.85	4.4068	3.73459	6.34E+01	6.90E+00	1.45E-03	7.28E-01	1.40E+01	1.21E+00	3.12E+01	2.54E+01	9.20E+01
5453	488694.35	3858336.75	8.99036	3.64366	13.9957	19.27344	44.48	12.48	4.33	3.64366	6.27E+01	6.73E+00	1.46E-03	6.78E-01	1.39E+01	1.17E+00	3.07E+01	2.48E+01	9.11E+01
5454	488712.81	3858336.38	8.84519	3.57081	13.80717	17.75623	42.9	12.01	4.2315	3.57081	6.17E+01	6.60E+00	1.44E-03	6.25E-01	1.34E+01	1.13E+00	3.00E+01	2.43E+01	8.92E+01
5455	488713.23	3858367.46	9.09363	3.78813	13.35461	20.84803	43.77	12.86	4.4169	3.78813	6.34E+01	7.00E+00	1.39E-03	7.34E-01	1.37E+01	1.21E+00	3.13E+01	2.58E+01	9.16E+01
5456	488704.63	3858384.05	9.29747	3.94187	12.83393	24.42333	44.36	13.81	4.5913	3.94187	6.48E+01	7.28E+00	1.34E-03	8.60E-01	1.39E+01	1.30E+00	3.25E+01	2.68E+01	9.39E+01
5457	488604.15	3858488.29	9.34798	5.33067	12.74614	21.30415	43.71	9.982	6.9574	5.33067	6.52E+01	9.85E+00	1.33E-03	7.50E-01	1.37E+01	9.38E-01	4.93E+01	3.62E+01	1.03E+02
5458	488605.66	3858550.47	9.28523	6.00066	12.50797	18.43811	41.61	8.756	8.4563	6.00066	6.47E+01	1.11E+01	1.30E-03	6.49E-01	1.30E+01	8.23E-01	5.99E+01	4.08E+01	1.09E+02
5459	488692.68	3858548.71	9.06675	5.44827	12.3295	23.2949	41.28	10.77	6.7185	5.44827	6.32E+01	1.01E+01	1.28E-03	8.20E-01	1.29E+01	1.01E+00	4.76E+01	3.70E+01	9.86E+01
5460	488759.93	3858461.81	9.1136	4.39305	11.26637	31.29738	41.92	15.52	4.9227	4.39305	6.35E+01	8.11E+00	1.17E-03	1.10E+00	1.31E+01	1.46E+00	3.49E+01	2.99E+01	9.24E+01
5461	488816.57	3858541.79	8.95861	4.81291	11.77565	46.35852	39.32	18.31	5.291	4.81291	6.25E+01	8.89E+00	1.23E-03	1.63E+00	1.23E+01	1.72E+00	3.75E+01	3.27E+01	9.18E+01
5462	488944.63	3858656.77	8.98906	5.21996	11.30248	43.89897	34.76	17.87	5.4233	5.21996	6.27E+01	9.64E+00	1.18E-03	1.55E+00	1.09E+01	1.68E+00	3.84E+01	3.55E+01	8.94E+01
5463	489134.91	3858830.7	7.95229	5.92737	13.12722	44.08399	28.32	17.42	5.9168	5.92737	5.54E+01	1.09E+01	1.37E-03	1.55E+00	8.87E+00	1.64E+00	4.19E+01	4.03E+01	8.01E+01
5464	489193.99	3858886.05	7.81217	6.22827	13.60632	49.58547	26.6	17.7	6.1517	6.22827	5.45E+01	1.15E+01	1.42E-03	1.75E+00	8.34E+00	1.66E+00	4.36E+01	4.24E+01	7.89E+01
5465	489295.2	3858954.34	7.63026	6.45654	12.32284	43.21639	23.22	16.89	6.2266	6.45654	5.32E+01	1.19E+01	1.28E-03	1.52E+00	7.27E+00	1.59E+00	4.41E+01	4.39E+01	7.57E+01
5466	489295.64	3858992.74	7.74125	7.08261	15.259	42.12481	23.79	23.97	6.8205	7.08261	5.40E+01	1.31E+01	1.59E-03	1.48E+00	7.45E+00	2.25E+00	4.83E+01	4.82E+01	7.84E+01
5467	489183.74	3858911.72	7.92033	6.68934	15.00743	48.18894	26.67	24.45	6.6209	6.68934	5.52E+01	1.24E+01	1.56E-03	1.70E+00	8.36E+00	2.30E+00	4.69E+01	4.55E+01	8.13E+01
5468	488873.37	3858625.59	9.17142	5.28716	11.78294	43.57013	35.26	22.97	5.7256	5.28716	6.39E+01	9.76E+00	1.23E-03	1.53E+00	1.10E+01	2.16E+00	4.06E+01	3.60E+01	9.31E+01

5469	488842.84	3858658.69	9.26185	5.76273	12.49865	26.68056	37.99	12.22	6.4937	5.76273	6.46E+01	1.06E+01	1.30E-03	9.39E-01	1.19E+01	1.15E+00	4.60E+01	3.92E+01	9.60E+01
5470	488856.39	3858670.93	9.29073	5.81314	12.67322	26.96407	37.67	12.28	6.5087	5.81314	6.48E+01	1.07E+01	1.32E-03	9.49E-01	1.18E+01	1.15E+00	4.61E+01	3.95E+01	9.60E+01
5471	488805.7	3858724.5	9.36337	7.04489	11.96126	19.32623	37.24	8.618	8.4037	7.04489	6.53E+01	1.30E+01	1.25E-03	6.80E-01	1.17E+01	8.10E-01	5.95E+01	4.79E+01	1.03E+02
5472	488805.87	3858804.16	9.28957	9.36216	11.99694	15.73608	35.71	7.99	13.109	9.36216	6.48E+01	1.73E+01	1.25E-03	5.54E-01	1.12E+01	7.51E-01	9.29E+01	6.37E+01	1.24E+02
5473	488995.78	3858936.96	9.09584	11.10951	13.70789	18.35279	32.31	7.688	13.435	11.10951	6.34E+01	2.05E+01	1.43E-03	6.46E-01	1.01E+01	7.23E-01	9.52E+01	7.55E+01	1.15E+02
5474	489130.76	3859017.38	8.89861	11.59905	14.84424	21.14982	30	7.883	12.296	11.59905	6.20E+01	2.14E+01	1.55E-03	7.44E-01	9.40E+00	7.41E-01	8.71E+01	7.89E+01	1.03E+02
5475	489130.92	3859052.24	9.0562	15.82357	16.62236	20.39907	29.74	7.413	19.713	15.82357	6.31E+01	2.92E+01	1.73E-03	7.18E-01	9.32E+00	6.97E-01	1.40E+02	1.08E+02	1.35E+02
5476	489200.33	3859090.6	8.77851	15.85603	17.47823	37.64199	28.38	7.641	17.612	15.85603	6.12E+01	2.93E+01	1.82E-03	1.32E+00	8.89E+00	7.18E-01	1.25E+02	1.08E+02	1.18E+02
5477	489296.07	3859143.7	8.38996	15.83783	19.34025	17.08632	26.15	8.08	16.025	15.83783	5.85E+01	2.93E+01	2.01E-03	6.01E-01	8.19E+00	7.60E-01	1.14E+02	1.08E+02	1.03E+02
5478	489296.43	3858954.74	7.62692	6.4531	12.26927	42.67151	23.17	16.85	6.2218	6.4531	5.32E+01	1.19E+01	1.28E-03	1.50E+00	7.26E+00	1.58E+00	4.41E+01	4.39E+01	7.56E+01
5479	489410.33	3859033.19	7.72515	6.76077	10.40297	41.22135	20.02	17.97	6.3495	6.76077	5.39E+01	1.25E+01	1.08E-03	1.45E+00	6.27E+00	1.69E+00	4.50E+01	4.60E+01	7.48E+01
5480	489371.37	3859089.8	7.82138	8.44499	18.00111	24.07452	22.86	11.9	7.9228	8.44499	5.45E+01	1.56E+01	1.87E-03	8.47E-01	7.16E+00	1.12E+00	5.61E+01	5.74E+01	7.80E+01
5481	489390.52	3859102.82	7.87375	8.53144	18.10425	23.74199	22.32	11.85	8.0044	8.53144	5.49E+01	1.58E+01	1.88E-03	8.36E-01	6.99E+00	1.11E+00	5.67E+01	5.80E+01	7.83E+01
5482	489382.3	3859114.53	7.90339	9.17869	18.65536	21.6111	22.9	10.86	8.5852	9.17869	5.51E+01	1.70E+01	1.94E-03	7.61E-01	7.17E+00	1.02E+00	6.08E+01	6.24E+01	7.94E+01
5483	489363.04	3859102.45	7.8569	9.1077	18.30024	21.74703	23.45	10.81	8.5146	9.1077	5.48E+01	1.68E+01	1.91E-03	7.65E-01	7.35E+00	1.02E+00	6.03E+01	6.19E+01	7.91E+01
5484	489337.52	3859140.71	8.10521	12.41578	17.01928	17.36499	24.89	8.858	11.848	12.41578	5.65E+01	2.29E+01	1.77E-03	6.11E-01	7.80E+00	8.33E-01	8.39E+01	8.44E+01	8.82E+01
5485	489375.14	3859164.55	8.13312	12.73779	17.85865	16.80698	23.92	8.938	12.073	12.73779	5.67E+01	2.35E+01	1.86E-03	5.92E-01	7.49E+00	8.40E-01	8.55E+01	8.66E+01	8.81E+01
5486	489409.3	3859114.5	7.88031	8.57976	18.06066	23.78554	21.77	11.88	8.0612	8.57976	5.49E+01	1.58E+01	1.88E-03	8.37E-01	6.82E+00	1.12E+00	5.71E+01	5.83E+01	7.83E+01
5487	489434.87	3859131.81	7.83673	8.69232	18.19583	23.6147	21.1	11.93	8.197	8.69232	5.46E+01	1.61E+01	1.89E-03	8.31E-01	6.61E+00	1.12E+00	5.81E+01	5.91E+01	7.82E+01
5488	489471.87	3859075.75	7.69714	6.93863	10.20265	43.1635	18.74	18.18	6.4511	6.93863	5.37E+01	1.28E+01	1.06E-03	1.52E+00	5.87E+00	1.71E+00	4.57E+01	4.72E+01	7.41E+01
5489	489602.62	3859164.69	7.87518	7.33405	10.60626	45.53495	16.06	18.57	6.8817	7.33405	5.49E+01	1.35E+01	1.10E-03	1.60E+00	5.03E+00	1.75E+00	4.88E+01	4.99E+01	7.57E+01
5490	489558.29	3859232.45	8.20867	10.31112	19.0078	20.71163	18.72	11.21	9.5957	10.31112	5.72E+01	1.90E+01	1.98E-03	7.29E-01	5.87E+00	1.05E+00	6.80E+01	7.01E+01	8.18E+01
5491	489620.11	3859273.56	8.21556	10.76163	22.834	20.45319	17.58	11.35	9.9449	10.76163	5.73E+01	1.99E+01	2.38E-03	7.20E-01	5.51E+00	1.07E+00	7.05E+01	7.32E+01	8.17E+01
5492	489666.06	3859206.42	7.84211	7.5331	18.98809	45.8536	15.17	18.5	7.1009	7.5331	5.47E+01	1.39E+01	1.98E-03	1.61E+00	4.75E+00	1.74E+00	5.03E+01	5.12E+01	7.58E+01
5493	489787.9	3859285.65	7.85198	7.90963	34.48426	45.25156	13.76	18.29	7.5046	7.90963	5.47E+01	1.46E+01	3.59E-03	1.59E+00	4.31E+00	1.72E+00	5.32E+01	5.38E+01	7.64E+01
5494	489752.17	3859343.13	8.21023	10.57259	65.21172	22.60545	14.88	13.15	9.8876	10.57259	5.72E+01	1.95E+01	6.79E-03	7.96E-01	4.66E+00	1.24E+00	7.01E+01	7.19E+01	8.16E+01
5495	489814.94	3859385.33	8.15314	11.08556	91.53103	22.37974	13.84	13.56	10.439	11.08556	5.68E+01	2.05E+01	9.53E-03	7.88E-01	4.34E+00	1.27E+00	7.40E+01	7.54E+01	8.23E+01
5496	489853.42	3859330.74	7.76167	8.18932	53.42644	47.25006	13.13	18.61	7.8398	8.18932	5.41E+01	1.51E+01	5.56E-03	1.66E+00	4.11E+00	1.75E+00	5.55E+01	5.57E+01	7.66E+01
5497	489969.5	3859401.91	7.66889	8.52544	52.83829	46.7726	12.29	18.33	8.3174	8.52544	5.35E+01	1.57E+01	5.50E-03	1.65E+00	3.85E+00	1.72E+00	5.89E+01	5.80E+01	7.74E+01
5498	490166.91	3859486.96	7.34974	8.23385	31.973	33.52883	10.81	17.49	8.1313	8.23385	5.12E+01	1.52E+01	3.33E-03	1.18E+00	3.39E+00	1.64E+00	5.76E+01	5.60E+01	7.43E+01
5499	490128.86	3859571.46	8.10733	13.21998	32.28309	19.68538	11	12.33	12.672	13.21998	5.65E+01	2.44E+01	3.36E-03	6.93E-01	3.45E+00	1.16E+00	8.98E+01	8.99E+01	8.61E+01
5500	490186.65	3859593.65	7.96298	13.11176	29.70656	21.09052	10.7	12.98	12.701	13.11176	5.55E+01	2.42E+01	3.09E-03	7.42E-01	3.35E+00	1.22E+00	9.00E+01	8.92E+01	8.59E+01
5501	490223.74	3859517.48	7.26877	8.32103	30.04968	36.01329	10.43	18.68	8.2553	8.32103	5.07E+01	1.54E+01	3.13E-03	1.27E+00	3.27E+00	1.76E+00	5.85E+01	5.66E+01	7.43E+01
5502	490846.34	3859817.22	6.66424	9.85156	14.57066	38.29806	9.009	16.24	10.125	9.85156	4.65E+01	1.82E+01	1.52E-03	1.35E+00	2.82E+00	1.53E+00	7.17E+01	6.70E+01	7.51E+01
5503	490925.65	3859844.59	6.40376	9.632	13.75129	34.4179	8.952	15.06	9.9249	9.632	4.46E+01	1.78E+01	1.43E-03	1.21E+00	2.80E+00	1.42E+00	7.03E+01	6.55E+01	7.27E+01
5504	491159.29	3859896.28	5.61957	7.95018	12.08024	36.23364	9.474	13.79	8.1269	7.95018	3.92E+01	1.47E+01	1.26E-03	1.28E+00	2.97E+00	1.30E+00	5.76E+01	5.41E+01	6.29E+01
5505	491370.69	3859960.89	5.47605	7.45171	10.19556	40.61781	9.582	15.25	7.5078	7.45171	3.82E+01	1.38E+01	1.06E-03	1.43E+00	3.00E+00	1.43E+00	5.32E+01	5.07E+01	6.03E+01
5506	491330.28	3860063.17	6.7879	11.27917	10.90131	18.29089	8.029	12.85	11.027	11.27917	4.73E+01	2.08E+01	1.13E-03	6.44E-01	2.52E+00	1.21E+00	7.81E+01	7.67E+01	7.40E+01
5507	491636.45	3860180.75	5.88688	7.97798	9.64281	15.89875	8.293	11.23	7.6926	7.97798	4.10E+01	1.47E+01	1.00E-03	5.60E-01	2.60E+00	1.06E+00	5.45E+01	5.42E+01	6.02E+01
5508	491617.94	3860203.93	6.45522	8.5694	9.59811	14.23867	7.937	9.866	8.1187	8.5694	4.50E+01	1.58E+01	9.99E-04	5.01E-01	2.49E+00	9.27E-01	5.75E+01	5.83E+01	6.40E+01
5509	491805.68	3860271.59	5.89933	7.03664	8.88736	13.44098	8.078	9.244	6.743	7.03664	4.11E+01	1.30E+01	9.25E-04	4.73E-01	2.53E+00	8.69E-01	4.78E+01	4.78E+01	5.79E+01
5510	491654.23	3860414.02	6.73375	19.45471	10.65551	9.3337	6.262	6.533	20.735	19.45471	4.69E+01	3.59E+01	1.11E-03	3.29E-01	1.96E+00	6.14E-01	1.47E+02	1.32E+02	1.00E+02
5511	491592.62	3860510.76	5.01465	8.12605	10.81454	6.68632	6.327	5.255	7.8581	8.12605	3.50E+01	1.50E+01	1.13E-03	2.35E-01	1.98E+00	4.94E-01	5.57E+01	5.53E+01	5.31E+01
5512	491475.41	3860368.93	5.63611	10.99584	11.29024	8.44602	6.501	5.81	10.413	10.99584	3.93E+01	2.03E+01	1.18E-03	2.97E-01	2.04E+00	5.46E-01	7.38E+01	7.48E+01	6.15E+01
5513	491445.61	3860337.28	5.89624	11.72344	11.33204	8.93067	6.554	5.956	11.032	11.72344	4.11E+01	2.17E+01	1.18E-03	3.14E-01	2.05E+00	5.60E-01	7.82E+01	7.97E+01	6.41E+01
5514	491399.05	3860300.37	6.13128	12.06391	11.5046	9.4706	6.687	6.194	11.292	12.06391	4.27E+01	2.23E+01	1.20E-03	3.33E-01	2.10E+00	5.82E-01	8.00E+01	8.20E+01	6.60E+01
5515	491228.84	3860235.98	5.34163	9.43147	12.44478	9.09848	7.187	6.227	8.5311	9.43147	3.72E+01	1.74E+01	1.30E-03	3.20E-01	2.25E+00	5.85E-01	6.04E+01	6.41E+01	5.41E+01
5516	491228.47	3860174.57	6.00037	12.63942	11.93176	11.52819	7.187	7.59	12.095	12.63942	4.18E+01	2.33E+01	1.24E-03	4.06E-01	2.25E+00	7.13E-01	8.57E+01	8.59E+01	6.83E+01
5517	491145.77	3860112.55	6.48932	13.52951	12.09535	13.0896	7.486	8.71	13.169	13.52951	4.52E+01	2.50E+01	1.26E-03	4.61E-01	2.35E+00	8.19E-01	9.33E+01	9.20E+01	7.52E+01
5518	490844.41	3859966.22	6.60794	14.50157	14.60343	14.58077	8.548	10.62	13.166	14.50157	4.61E+01	2.68E+01	1.52E-03	5.13E-01	2.68E+00	9.98E-01	9.33E+01	9.86E+01	7.17E+01
5519	490845.55	3859928.15	7.269	21.7521	14.31344	18.71606	8.676	13.47	19.631	21.7521	5.07E+01	4.02E+01	1.49E-03	6.59E-01	2.72E+00	1.27E+00	1.39E+02	1.48E+02	8.67E+01
5520	490046.91	3859625.6	7.21207	18.39209	26.50979	13.45608	11.85	9.058	16.934	18.39209	5.03E+01	3.40E+01	2.76E-03	4.74E-01	3.71E+00	8.51E-01	1.20E+02	1.25E+02	8.42E+01
5521	489970.48	3859589.4	7.23861	17.50395	31.91732	13.24381	13.08	8.741	16.234	17.50395	5.05E+01	3.23E+01	3.32E-03	4.66E-01	4.10E+00	8.22E-01	1.15E+02	1.19E+02	8.42E+01
5522	489865.89	3859529.06	7.54903	18.13277	44.42016	13.45239	14.86	8.237	16.485	18.13277	5.26E+01	3.35E+01	4.62E-03	4.73E-01	4.66E+00	7.74E-01	1.17E+02	1.23E+02	8.55E+01
5523	489826.89	3859531.74	7.09356	14.1872	41.12287	12.68448	15.82	7.867	13.355	14.1872	4.95E+01	2.62E+01	4.28E-03	4.46E-01	4.96E+00	7.39E-01	9.46E+01	9.65E+01	8.00E+01
5524	489410.47	3859303.06	7.33675	13.72663	22.66561	12.7297	23.93	7.119	11.867	13.72663	5.11E+01	2.54E+01	2.36E-03	4.48E-01	7.50E+00	6.69E-01	8.41E+01	9.33E+01	7.59E+01
5525	489407.15	3859286.09	7.62793	15.99557	23.44443	13.05196	23.96	7.17	13.102	15.99557	5.32E+01	2.95E+01	2.44E-03	4.59E-01	7.51E+00	6.74E-01	9.28E+01	1.09E+02	7.54E+01

5526	488806.07	3858963.62	9.29138	14.48619	13.2739	13.18315	30.59	7.617	9.483	14.48619	6.48E+01	2.68E+01	1.38E-03	4.64E-01	9.58E+00	7.16E-01	6.72E+01	9.85E+01	7.10E+01
5527	488817.64	3859546.3	9.04027	3.44969	14.95992	8.93469	16.81	9.241	3.3909	3.44969	6.30E+01	6.37E+00	1.56E-03	3.14E-01	5.27E+00	8.69E-01	2.40E+01	2.35E+01	7.64E+01
5528	489187.25	3859549.52	6.68255	4.33167	18.52302	28.7476	21.87	8.189	4.7974	4.33167	4.66E+01	8.00E+00	1.93E-03	1.01E+00	6.85E+00	7.70E-01	3.40E+01	2.95E+01	6.78E+01
5529	489187.66	3859523.74	6.64913	4.4717	19.50993	28.89545	22.13	7.903	4.9792	4.4717	4.64E+01	8.26E+00	2.03E-03	1.02E+00	6.93E+00	7.43E-01	3.53E+01	3.04E+01	6.82E+01
5530	489232.59	3859522.85	6.57145	4.66807	19.70478	22.44151	22.69	7.504	5.2325	4.66807	4.58E+01	8.62E+00	2.05E-03	7.90E-01	7.11E+00	7.05E-01	3.71E+01	3.17E+01	6.84E+01
5531	489224.98	3859759.91	8.00014	3.17121	11.29832	24.56077	19.83	7.118	3.294	3.17121	5.58E+01	5.86E+00	1.18E-03	8.64E-01	6.21E+00	6.69E-01	2.33E+01	2.16E+01	7.12E+01
5532	488401.39	3859763.34	9.01918	2.30589	8.6382	6.3322	8.708	14.03	2.0431	2.30589	6.29E+01	4.26E+00	8.99E-04	2.23E-01	2.73E+00	1.32E+00	1.45E+01	1.57E+01	7.02E+01
5533	488405.51	3859966.16	9.22784	2.76757	8.98987	5.94117	7.835	13.65	2.65	2.76757	6.43E+01	5.11E+00	9.36E-04	2.09E-01	2.45E+00	1.28E+00	1.88E+01	1.88E+01	7.34E+01
5534	489202.85	3859956.57	6.93262	2.76055	10.73718	38.83603	17.06	5.206	2.6282	2.76055	4.83E+01	5.10E+00	1.12E-03	1.37E+00	5.35E+00	4.89E-01	1.86E+01	1.88E+01	6.05E+01
5535	489191.9	3860676.74	8.86055	2.68287	7.33243	34.38698	6.699	4.697	2.5488	2.68287	6.18E+01	4.96E+00	7.63E-04	1.21E+00	2.10E+00	4.41E-01	1.81E+01	1.82E+01	7.03E+01
5536	488392.82	3860687.88	10.00099	2.33144	5.73216	4.70873	5.611	20.45	1.9432	2.33144	6.97E+01	4.31E+00	5.97E-04	1.66E-01	1.76E+00	1.92E+00	1.38E+01	1.59E+01	7.58E+01
5537	488392.82	3860760.27	9.73716	2.34569	5.69208	4.6165	5.471	12	1.981	2.34569	6.79E+01	4.33E+00	5.93E-04	1.62E-01	1.71E+00	1.13E+00	1.40E+01	1.60E+01	7.33E+01
5538	487549.05	3860777.45	4.99148	2.01292	3.73378	3.79751	10.67	7.523	1.8998	2.01292	3.48E+01	3.72E+00	3.89E-04	1.34E-01	3.34E+00	7.07E-01	1.35E+01	1.37E+01	4.25E+01
5539	487554.62	3859571.83	9.75305	2.32095	4.4857	5.08077	15.3	11.4	1.8921	2.32095	6.80E+01	4.29E+00	4.67E-04	1.79E-01	4.79E+00	1.07E+00	1.34E+01	1.58E+01	7.60E+01
5540	485949.46	3859558.54	4.43073	2.63652	5.83985	3.31629	12.72	4.701	2.4863	2.63652	3.09E+01	4.87E+00	6.08E-04	1.17E-01	3.99E+00	4.42E-01	1.76E+01	1.79E+01	4.00E+01
5541	485947.55	3857943.61	8.33141	3.45805	6.2789	3.72637	23.52	14.65	1.8464	3.45805	5.81E+01	6.39E+00	6.54E-04	1.31E-01	7.37E+00	1.38E+00	1.31E+01	2.35E+01	6.29E+01
5542	484738.38	3857940.21	4.77786	1.99105	4.56038	2.82928	17.7	6.232	1.4396	1.99105	3.33E+01	3.68E+00	4.75E-04	9.96E-02	5.54E+00	5.86E-01	1.02E+01	1.35E+01	3.99E+01
5543	484737.06	3857535.68	6.08647	2.46274	7.37444	2.80642	17.77	5.564	1.4573	2.46274	4.24E+01	4.55E+00	7.68E-04	9.88E-02	5.57E+00	5.23E-01	1.03E+01	1.67E+01	4.67E+01
5544	483730.2	3857530.13	4.30222	1.78662	8.66426	2.59777	12.33	4.945	1.2552	1.78662	3.00E+01	3.30E+00	9.02E-04	9.14E-02	3.86E+00	4.65E-01	8.89E+00	1.21E+01	3.45E+01
5545	483727.27	3857130.01	6.8827	2.00593	7.35697	2.45498	9.383	3.561	1.2896	2.00593	4.80E+01	3.70E+00	7.66E-04	8.64E-02	2.94E+00	3.35E-01	9.14E+00	1.36E+01	5.05E+01
5546	483124.42	3857123.45	5.13339	1.65878	6.82469	2.28249	8.157	3.632	1.1287	1.65878	3.58E+01	3.06E+00	7.10E-04	8.03E-02	2.56E+00	3.41E-01	8.00E+00	1.13E+01	3.85E+01
5547	483111.13	3855921.03	7.60226	2.35366	9.12241	2.05407	13.12	4.165	1.2379	2.35366	5.30E+01	4.35E+00	9.50E-04	7.23E-02	4.11E+00	3.92E-01	8.77E+00	1.60E+01	5.47E+01
5548	482701.73	3855918.24	6.09565	2.07617	12.78298	1.98756	13.52	3.246	1.1654	2.07617	4.25E+01	3.83E+00	1.33E-03	7.00E-02	4.24E+00	3.05E-01	8.26E+00	1.41E+01	4.51E+01
5549	482668.02	3853521.78	6.60763	6.32451	3.15764	4.82216	3.804	4.236	6.3601	6.32451	4.61E+01	1.17E+01	3.29E-04	1.70E-01	1.19E+00	3.98E-01	4.51E+01	4.30E+01	6.16E+01
5550	482579.91	3853219.19	6.17368	6.93267	3.18672	4.3431	3.377	3.699	7.582	6.93267	4.30E+01	1.28E+01	3.32E-04	1.53E-01	1.06E+00	3.48E-01	5.37E+01	4.71E+01	6.40E+01
5551	482434.06	3852961.94	5.82309	9.18229	2.52697	3.81879	3.181	3.073	9.6886	9.18229	4.06E+01	1.70E+01	2.63E-04	1.34E-01	9.97E-01	2.89E-01	6.86E+01	6.24E+01	6.52E+01
5552	482332.11	3852832.85	5.5437	10.61941	2.21149	3.51532	3.085	2.913	10.795	10.61941	3.86E+01	1.96E+01	2.30E-04	1.24E-01	9.67E-01	2.74E-01	7.65E+01	7.22E+01	6.39E+01
5553	481334.99	3851818.96	4.16829	9.03756	1.92451	2.00624	2.639	2.439	9.231	9.03756	2.91E+01	1.67E+01	2.00E-04	7.06E-02	8.27E-01	2.29E-01	6.54E+01	6.15E+01	5.08E+01
5554	481127.62	3851646.36	4.22751	10.54737	1.54476	1.80618	2.563	2.237	10.595	10.54737	2.95E+01	1.95E+01	1.61E-04	6.36E-02	8.03E-01	2.10E-01	7.51E+01	7.17E+01	5.34E+01
5555	481025.04	3851591.73	4.10992	10.38591	1.31861	1.72297	2.538	2.129	10.442	10.38591	2.87E+01	1.92E+01	1.37E-04	6.06E-02	7.95E-01	2.00E-01	7.40E+01	7.06E+01	5.23E+01
5556	480513.6	3851335.76	3.45207	10.88284	0.82832	1.61981	2.336	2.09	11.131	10.88284	2.41E+01	2.01E+01	8.62E-05	5.70E-02	7.32E-01	1.96E-01	7.89E+01	7.40E+01	5.00E+01
5557	480523.56	3851317.66	3.68238	12.70155	0.81563	1.58856	2.356	2.048	12.988	12.70155	2.57E+01	2.35E+01	8.49E-05	5.59E-02	7.38E-01	1.93E-01	9.20E+01	8.64E+01	5.58E+01
5558	476921.56	3849569.11	2.03793	9.81812	1.46995	0.72731	1.321	0.829	9.8614	9.81812	1.42E+01	1.81E+01	1.53E-04	2.56E-02	4.14E-01	7.80E-02	6.99E+01	6.68E+01	3.60E+01
5559	476521.19	3849373.96	2.12418	10.75186	1.23319	0.7336	1.356	0.887	10.796	10.75186	1.48E+01	1.99E+01	1.28E-04	2.58E-02	4.25E-01	8.34E-02	7.65E+01	7.31E+01	3.86E+01
5560	476391.45	3849333.38	2.05398	10.99496	1.1218	0.75452	1.41	0.928	11.081	10.99496	1.43E+01	2.03E+01	1.17E-04	2.66E-02	4.42E-01	8.72E-02	7.85E+01	7.48E+01	3.89E+01
5561	476219.41	3849304.29	2.05048	10.78856	0.92647	0.79571	1.518	0.989	10.891	10.78856	1.43E+01	1.99E+01	9.65E-05	2.80E-02	4.75E-01	9.29E-02	7.72E+01	7.34E+01	3.86E+01
5562	475679.11	3849218.47	2.29239	12.54646	0.49245	0.91032	1.794	0.993	12.627	12.54646	1.60E+01	2.32E+01	5.13E-05	3.20E-02	5.62E-01	9.34E-02	8.95E+01	8.53E+01	4.40E+01
5563	475677.71	3849233.88	2.21491	11.50034	0.49499	0.91164	1.804	0.991	11.58	11.50034	1.54E+01	2.12E+01	5.15E-05	3.21E-02	5.65E-01	9.32E-02	8.20E+01	7.82E+01	4.12E+01
5564	475492.74	3849204.66	1.91387	8.86073	0.38085	0.96471	1.881	0.909	8.9111	8.86073	1.33E+01	1.64E+01	3.96E-05	3.40E-02	5.89E-01	8.55E-02	6.31E+01	6.03E+01	3.33E+01
5565	475497.64	3849158.75	3.16545	16.55984	0.38741	0.96106	1.857	0.944	16.64	16.55984	2.21E+01	3.06E+01	4.03E-05	3.38E-02	5.82E-01	8.87E-02	1.18E+02	1.13E+02	5.87E+01
5566	475391.35	3849141.94	2.63023	14.07277	0.42701	0.9312	1.862	0.927	14.14	14.07277	1.83E+01	2.60E+01	4.45E-05	3.28E-02	5.83E-01	8.71E-02	1.00E+02	9.57E+01	4.95E+01
5567	475277	3849095.47	2.73724	13.97417	0.46127	0.91704	1.842	0.903	14.069	13.97417	1.91E+01	2.58E+01	4.80E-05	3.23E-02	5.77E-01	8.49E-02	9.97E+01	9.50E+01	5.02E+01
5568	475183.93	3849025.66	2.56225	16.1935	0.44934	0.91015	1.828	0.895	16.276	16.1935	1.79E+01	2.99E+01	4.68E-05	3.20E-02	5.73E-01	8.41E-02	1.15E+02	1.10E+02	5.37E+01
5569	474453.23	3848378.77	2.05962	12.79424	0.34058	0.80888	1.585	0.828	13.111	12.79424	1.44E+01	2.36E+01	3.55E-05	2.85E-02	4.97E-01	7.78E-02	9.29E+01	8.70E+01	4.45E+01
5570	474569.63	3848399.34	1.80392	18.02457	0.34465	0.81196	1.547	0.838	18.149	18.02457	1.26E+01	3.33E+01	3.59E-05	2.86E-02	4.85E-01	7.88E-02	1.29E+02	1.23E+02	5.25E+01
5571	474644.33	3848464.52	1.91649	17.86057	0.34859	0.8222	1.576	0.849	17.983	17.86057	1.34E+01	3.30E+01	3.63E-05	2.89E-02	4.94E-01	7.98E-02	1.27E+02	1.21E+02	5.29E+01
5572	474719.04	3848529.7	2.01504	17.6935	0.35362	0.83385	1.605	0.859	17.813	17.6935	1.40E+01	3.27E+01	3.68E-05	2.93E-02	5.03E-01	8.08E-02	1.26E+02	1.20E+02	5.32E+01
5573	474793.74	3848594.88	2.0913	17.87309	0.35285	0.85074	1.634	0.867	17.992	17.87309	1.46E+01	3.30E+01	3.67E-05	2.99E-02	5.12E-01	8.15E-02	1.27E+02	1.22E+02	5.42E+01
5574	474868.45	3848660.07	2.17028	17.9922	0.34711	0.87157	1.663	0.872	18.109	17.9922	1.51E+01	3.32E+01	3.61E-05	3.07E-02	5.21E-01	8.20E-02	1.28E+02	1.22E+02	5.50E+01
5575	474943.15	3848725.25	2.25904	17.96265	0.34821	0.88696	1.691	0.879	18.075	17.96265	1.57E+01	3.32E+01	3.63E-05	3.12E-02	5.30E-01	8.27E-02	1.28E+02	1.22E+02	5.55E+01
5576	475017.86	3848790.43	2.33384	18.06353	0.35901	0.89681	1.718	0.89	18.17	18.06353	1.63E+01	3.34E+01	3.74E-05	3.16E-02	5.38E-01	8.37E-02	1.29E+02	1.23E+02	5.62E+01
5577	475092.56	3848855.61	2.41498	17.72412	0.37475	0.9031	1.747	0.902	17.825	17.72412	1.68E+01	3.27E+01	3.90E-05	3.18E-02	5.47E-01	8.47E-02	1.26E+02	1.21E+02	5.60E+01
5578	475232.58	3848959.38	2.5513	14.61238	0.39669	0.91167	1.781	0.922	14.698	14.61238	1.78E+01	2.70E+01	4.13E-05	3.21E-02	5.58E-01	8.66E-02	1.04E+02	9.94E+01	5.02E+01
5579	475368.47	3849029.98	2.59893	12.0342	0.40336	0.92737	1.788	0.943	12.396	12.0342	1.81E+01	2.22E+01	4.20E-05	3.26E-02	5.60E-01	8.87E-02	8.78E+01	8.18E+01	4.70E+01
5580	475609.57	3849096.09	2.55692	12.27872	0.45758	0.92501	1.723	0.979	12.425	12.27872	1.78E+01	2.27E+01	4.76E-05	3.26E-02	5.40E-01	9.20E-02	8.80E+01	8.35E+01	4.57E+01
5581	475680.68	3849116.62	2.46373	14.29085	0.50269	0.90049	1.7	0.994	14.454	14.29085	1.72E+01	2.64E+01	5.23E-05	3.17E-02	5.33E-01	9.34E-02	1.02E+02	9.72E+01	4.95E+01
5582	475843.76	3849151.52	2.36507	16.28248	0.6177	0.85548	1.616	0.995	16.486	16.28248	1.65E+01	3.01E+01	6.43E-05	3.01E-02	5.06E-01	9.36E-02	1.17E+02	1.11E+02	5.33E+01

5583	475935.73	3849165.89	2.28969	15.89088	0.72161	0.81821	1.554	0.991	16.049	15.89088	1.60E+01	2.93E+01	7.51E-05	2.88E-02	4.87E-01	9.31E-02	1.14E+02	1.08E+02	5.16E+01
5584	476027.7	3849180.26	2.24719	15.20097	0.84019	0.78591	1.494	0.975	15.325	15.20097	1.57E+01	2.81E+01	8.75E-05	2.77E-02	4.68E-01	9.17E-02	1.09E+02	1.03E+02	4.95E+01
5585	476119.68	3849194.64	2.24876	16.41744	0.92269	0.77028	1.428	0.943	16.511	16.41744	1.57E+01	3.03E+01	9.61E-05	2.71E-02	4.47E-01	8.86E-02	1.17E+02	1.12E+02	5.19E+01
5586	476211.65	3849209.01	2.21967	16.81417	1.02167	0.74119	1.359	0.905	16.893	16.81417	1.55E+01	3.11E+01	1.06E-04	2.61E-02	4.26E-01	8.51E-02	1.20E+02	1.14E+02	5.24E+01
5587	476497.8	3849283.9	2.1914	21.22257	1.27394	0.67836	1.21	0.801	21.666	21.22257	1.53E+01	3.92E+01	1.33E-04	2.39E-02	3.79E-01	7.53E-02	1.54E+02	1.44E+02	6.42E+01
5588	476603.73	3849323.77	2.11628	25.31982	1.34476	0.66916	1.186	0.776	25.899	25.31982	1.48E+01	4.68E+01	1.40E-04	2.36E-02	3.72E-01	7.30E-02	1.84E+02	1.72E+02	7.33E+01
5589	476728.99	3849382.76	2.19664	24.56417	1.40571	0.66615	1.175	0.757	24.876	24.56417	1.53E+01	4.54E+01	1.46E-04	2.34E-02	3.68E-01	7.11E-02	1.76E+02	1.67E+02	7.04E+01
5590	476801.27	3849418.65	2.75566	23.27023	1.43741	0.66658	1.173	0.749	23.508	23.27023	1.92E+01	4.30E+01	1.50E-04	2.35E-02	3.67E-01	7.04E-02	1.67E+02	1.58E+02	7.10E+01
5591	476956.2	3849495.05	2.71589	21.074	1.49397	0.66793	1.169	0.733	21.262	21.074	1.89E+01	3.89E+01	1.56E-04	2.35E-02	3.66E-01	6.89E-02	1.51E+02	1.43E+02	6.57E+01
5592	477038.84	3849535.56	2.68778	21.33602	1.50996	0.66584	1.157	0.719	21.492	21.33602	1.87E+01	3.94E+01	1.57E-04	2.34E-02	3.62E-01	6.76E-02	1.52E+02	1.45E+02	6.58E+01
5593	477121.48	3849576.08	2.64727	21.1499	1.52776	0.67029	1.154	0.713	21.257	21.1499	1.85E+01	3.91E+01	1.59E-04	2.36E-02	3.61E-01	6.71E-02	1.51E+02	1.44E+02	6.48E+01
5594	477204.13	3849616.6	2.61501	21.34207	1.53095	0.67338	1.143	0.704	21.41	21.34207	1.82E+01	3.94E+01	1.59E-04	2.37E-02	3.58E-01	6.62E-02	1.52E+02	1.45E+02	6.47E+01
5595	477286.78	3849657.12	2.6134	20.99802	1.51351	0.66246	1.105	0.681	21.009	20.99802	1.82E+01	3.88E+01	1.58E-04	2.33E-02	3.46E-01	6.40E-02	1.49E+02	1.43E+02	6.35E+01
5596	477369.42	3849697.63	2.54699	21.28419	1.53967	0.6886	1.133	0.697	21.271	21.28419	1.78E+01	3.93E+01	1.60E-04	2.42E-02	3.55E-01	6.55E-02	1.51E+02	1.45E+02	6.35E+01
5597	477452.07	3849738.15	2.52598	21.58586	1.53444	0.69443	1.12	0.692	21.494	21.58586	1.76E+01	3.99E+01	1.60E-04	2.44E-02	3.51E-01	6.50E-02	1.52E+02	1.47E+02	6.34E+01
5598	477534.71	3849778.67	2.49407	21.17701	1.54065	0.71763	1.139	0.701	21.053	21.17701	1.74E+01	3.91E+01	1.60E-04	2.53E-02	3.57E-01	6.59E-02	1.49E+02	1.44E+02	6.21E+01
5599	477617.35	3849819.18	2.5123	21.59667	1.52484	0.72839	1.13	0.7	21.404	21.59667	1.75E+01	3.99E+01	1.59E-04	2.56E-02	3.54E-01	6.58E-02	1.52E+02	1.47E+02	6.27E+01
5600	477824.74	3849896.37	2.50184	15.44448	1.44408	0.77748	1.154	0.709	15.391	15.44448	1.74E+01	2.85E+01	1.50E-04	2.74E-02	3.62E-01	6.66E-02	1.09E+02	1.05E+02	5.05E+01
5601	477906.31	3849936.37	2.56752	16.10378	1.38974	0.78133	1.099	0.703	15.999	16.10378	1.79E+01	2.97E+01	1.45E-04	2.75E-02	3.44E-01	6.60E-02	1.13E+02	1.10E+02	5.19E+01
5602	477987.89	3849976.36	2.57051	15.97732	1.36771	0.81265	1.132	0.715	15.888	15.97732	1.79E+01	2.95E+01	1.42E-04	2.86E-02	3.55E-01	6.72E-02	1.13E+02	1.09E+02	5.18E+01
5603	478069.47	3850016.36	2.58554	16.22255	1.31547	0.82742	1.109	0.717	16.068	16.22255	1.80E+01	3.00E+01	1.37E-04	2.91E-02	3.48E-01	6.74E-02	1.14E+02	1.10E+02	5.20E+01
5604	478151.04	3850056.35	2.60937	16.24871	1.26501	0.84636	1.095	0.723	16.069	16.24871	1.82E+01	3.00E+01	1.32E-04	2.98E-02	3.43E-01	6.79E-02	1.14E+02	1.10E+02	5.20E+01
5605	478232.62	3850096.35	2.61938	16.39227	1.23745	0.88096	1.117	0.739	16.188	16.39227	1.83E+01	3.03E+01	1.29E-04	3.10E-02	3.50E-01	6.95E-02	1.15E+02	1.11E+02	5.22E+01
5606	478314.2	3850136.34	2.63711	16.38937	1.21163	0.9191	1.145	0.757	16.162	16.38937	1.84E+01	3.03E+01	1.26E-04	3.23E-02	3.59E-01	7.11E-02	1.15E+02	1.11E+02	5.22E+01
5607	478395.77	3850176.34	2.65586	16.34286	1.18587	0.95876	1.177	0.8	16.095	16.34286	1.85E+01	3.02E+01	1.23E-04	3.37E-02	3.69E-01	7.52E-02	1.14E+02	1.11E+02	5.21E+01
5608	478575.43	3850244.45	2.74394	13.51738	1.10474	1.09209	1.297	0.938	13.344	13.51738	1.91E+01	2.50E+01	1.15E-04	3.84E-02	4.07E-01	8.82E-02	9.45E+01	9.19E+01	4.73E+01
5609	478665.06	3850287.29	2.81421	13.27974	1.0767	1.14994	1.36	1.009	13.097	13.27974	1.96E+01	2.45E+01	1.12E-04	4.05E-02	4.26E-01	9.49E-02	9.28E+01	9.03E+01	4.72E+01
5610	478754.69	3850330.14	2.8707	13.04024	1.05061	1.20485	1.426	1.115	12.854	13.04024	2.00E+01	2.41E+01	1.09E-04	4.24E-02	4.47E-01	1.05E-01	9.11E+01	8.87E+01	4.71E+01
5611	478844.32	3850372.99	2.91947	12.77404	1.02755	1.25519	1.493	1.236	12.578	12.77404	2.04E+01	2.36E+01	1.07E-04	4.42E-02	4.68E-01	1.16E-01	8.91E+01	8.69E+01	4.68E+01
5612	478933.95	3850415.84	2.96425	12.48442	1.0069	1.29844	1.619	1.37	12.285	12.48442	2.07E+01	2.31E+01	1.05E-04	4.57E-02	5.07E-01	1.29E-01	8.70E+01	8.49E+01	4.66E+01
5613	479023.58	3850458.68	3.02344	12.71216	0.97519	1.34645	1.655	1.501	12.491	12.71216	2.11E+01	2.35E+01	1.02E-04	4.74E-02	5.19E-01	1.41E-01	8.85E+01	8.64E+01	4.73E+01
5614	479110.66	3850441.9	3.27467	9.10169	0.90255	1.40527	1.749	1.729	9.0338	9.10169	2.28E+01	1.68E+01	9.40E-05	4.95E-02	5.48E-01	1.63E-01	6.40E+01	6.19E+01	4.25E+01
5615	479191.22	3850423.99	3.45017	7.4647	0.83659	1.41662	1.859	1.888	7.4332	7.4647	2.41E+01	1.38E+01	8.71E-05	4.99E-02	5.82E-01	1.78E-01	5.27E+01	5.08E+01	4.06E+01
5616	479274.32	3850465.71	3.5601	7.5543	0.81672	1.42234	1.903	1.965	7.5235	7.5543	2.48E+01	1.40E+01	8.50E-05	5.01E-02	5.96E-01	1.85E-01	5.33E+01	5.14E+01	4.15E+01
5617	479357.43	3850507.42	3.66025	7.79899	0.79391	1.42836	1.945	2.024	7.7597	7.79899	2.55E+01	1.44E+01	8.27E-05	5.03E-02	6.09E-01	1.90E-01	5.50E+01	5.30E+01	4.27E+01
5618	479440.53	3850549.14	3.8046	7.92208	0.77096	1.42892	2.073	2.056	7.865	7.92208	2.65E+01	1.46E+01	8.03E-05	5.03E-02	6.49E-01	1.93E-01	5.57E+01	5.39E+01	4.39E+01
5619	479523.64	3850590.85	3.92947	7.88159	0.75031	1.44342	2.132	2.067	7.8188	7.88159	2.74E+01	1.46E+01	7.81E-05	5.08E-02	6.68E-01	1.94E-01	5.54E+01	5.36E+01	4.47E+01
5620	479606.74	3850632.57	4.00864	7.88725	0.7316	1.45284	2.183	2.062	7.8214	7.88725	2.79E+01	1.46E+01	7.62E-05	5.11E-02	6.84E-01	1.94E-01	5.54E+01	5.36E+01	4.52E+01
5621	479777.37	3850707.61	4.03017	7.66509	0.71458	1.44556	2.296	1.984	7.6025	7.66509	2.81E+01	1.42E+01	7.44E-05	5.09E-02	7.19E-01	1.86E-01	5.39E+01	5.21E+01	4.50E+01
5622	479864.9	3850740.95	3.85315	7.45504	0.71069	1.43023	2.337	1.929	7.3966	7.45504	2.69E+01	1.38E+01	7.40E-05	5.03E-02	7.32E-01	1.81E-01	5.24E+01	5.07E+01	4.33E+01
5623	479931.87	3850829.56	3.89559	9.07356	0.73441	1.47328	2.315	1.991	8.9576	9.07356	2.72E+01	1.68E+01	7.65E-05	5.19E-02	7.26E-01	1.87E-01	6.35E+01	6.17E+01	4.67E+01
5624	479995.55	3850926.75	3.87513	12.53312	0.76538	1.52327	2.192	2.089	12.326	12.53312	2.70E+01	2.31E+01	7.97E-05	5.36E-02	6.87E-01	1.96E-01	8.73E+01	8.52E+01	5.32E+01
5625	480079.78	3850968.64	3.82772	12.19788	0.76529	1.51566	2.235	2.06	12.038	12.19788	2.67E+01	2.25E+01	7.97E-05	5.33E-02	7.00E-01	1.94E-01	8.53E+01	8.29E+01	5.25E+01
5626	480164.01	3851010.54	3.80649	11.96856	0.76323	1.50231	2.271	2.027	11.847	11.96856	2.65E+01	2.21E+01	7.95E-05	5.29E-02	7.12E-01	1.91E-01	8.39E+01	8.14E+01	5.22E+01
5627	480248.23	3851052.43	3.81123	11.78118	0.76344	1.48887	2.301	1.991	11.701	11.78118	2.66E+01	2.18E+01	7.95E-05	5.24E-02	7.21E-01	1.87E-01	8.29E+01	8.01E+01	5.21E+01
5628	480332.46	3851094.33	3.87602	11.88074	0.76077	1.4737	2.331	1.95	11.856	11.88074	2.70E+01	2.19E+01	7.92E-05	5.19E-02	7.30E-01	1.83E-01	8.40E+01	8.08E+01	5.31E+01
5629	480416.69	3851136.22	4.00864	12.34461	0.75527	1.46457	2.363	1.907	12.334	12.34461	2.79E+01	2.28E+01	7.86E-05	5.15E-02	7.40E-01	1.79E-01	8.74E+01	8.39E+01	5.52E+01
5630	480579.95	3851215.17	4.17667	12.54784	0.77865	1.47414	2.409	1.838	12.608	12.54784	2.91E+01	2.32E+01	8.11E-05	5.19E-02	7.55E-01	1.73E-01	8.93E+01	8.53E+01	5.73E+01
5631	480658.98	3851252.22	4.23939	12.41015	0.85772	1.48635	2.424	1.81	12.569	12.41015	2.96E+01	2.29E+01	8.93E-05	5.23E-02	7.59E-01	1.70E-01	8.91E+01	8.44E+01	5.81E+01
5632	480817.36	3851327.85	4.40789	12.34728	1.09021	1.56876	2.441	1.931	12.577	12.34728	3.07E+01	2.28E+01	1.13E-04	5.52E-02	7.65E-01	1.81E-01	8.91E+01	8.40E+01	5.97E+01
5633	480896.71	3851366.42	4.5356	12.31399	1.24005	1.62055	2.445	2.024	12.568	12.31399	3.16E+01	2.27E+01	1.29E-04	5.70E-02	7.66E-01	1.90E-01	8.90E+01	8.37E+01	6.07E+01
5634	480976.07	3851405	4.72174	12.72758	1.40886	1.67366	2.445	2.117	13.004	12.72758	3.29E+01	2.35E+01	1.47E-04	5.89E-02	7.66E-01	1.99E-01	9.21E+01	8.65E+01	6.30E+01
5635	481178	3851487.31	4.7017	12.57389	1.84178	1.7676	2.493	2.239	12.469	12.57389	3.28E+01	2.32E+01	1.92E-04	6.22E-02	7.81E-01	2.10E-01	8.83E+01	8.55E+01	5.99E+01
5636	481244.9	3851557.17	4.82637	14.37093	1.92243	1.82055	2.529	2.274	14.156	14.37093	3.36E+01	2.65E+01	2.00E-04	6.41E-02	7.92E-01	2.14E-01	1.00E+02	9.77E+01	6.38E+01
5637	481311.81	3851627.03	5.01713	16.76149	1.99083	1.87704	2.566	2.307	16.468	16.76149	3.50E+01	3.10E+01	2.07E-04	6.61E-02	8.04E-01	2.17E-01	1.17E+02	1.14E+02	6.97E+01
5638	481378.71	3851696.89	5.20582	18.21619	2.04609	1.93646	2.603	2.333	17.786	18.21619	3.63E+01	3.36E+01	2.13E-04	6.82E-02	8.16E-01	2.19E-01	1.26E+02	1.24E+02	7.32E+01
5639	481445.61	3851766.76	5.34604	18.32107	2.08825	1.99698	2.64	2.348	17.987	18.32107	3.73E+01	3.38E+01	2.17E-04	7.03E-02	8.27E-01	2.21E-01	1.27E+02	1.25E+02	7.51E+01

5640	481512.51	3851836.62	5.40959	18.05904	2.11067	2.06195	2.679	2.361	17.649	18.05904	3.77E+01	3.34E+01	2.20E-04	7.26E-02	8.39E-01	2.22E-01	1.25E+02	1.23E+02	7.44E+01
5641	481579.42	3851906.48	5.4197	17.54248	2.11393	2.1294	2.718	2.369	17.132	17.54248	3.78E+01	3.24E+01	2.20E-04	7.49E-02	8.52E-01	2.23E-01	1.21E+02	1.19E+02	7.34E+01
5642	481646.32	3851976.34	5.40618	17.02105	2.09883	2.19786	2.756	2.371	16.618	17.02105	3.77E+01	3.14E+01	2.19E-04	7.74E-02	8.64E-01	2.23E-01	1.18E+02	1.16E+02	7.23E+01
5643	481713.22	3852046.2	5.41724	16.41458	2.05117	2.27671	2.798	2.368	16.015	16.41458	3.78E+01	3.03E+01	2.14E-04	8.01E-02	8.77E-01	2.23E-01	1.13E+02	1.12E+02	7.11E+01
5644	481780.12	3852116.06	5.40483	16.0479	2.00302	2.34509	2.833	2.369	15.684	16.0479	3.77E+01	2.96E+01	2.09E-04	8.25E-02	8.88E-01	2.23E-01	1.11E+02	1.09E+02	7.05E+01
5645	481847.03	3852185.92	5.39236	15.76065	1.95353	2.40811	2.866	2.386	15.437	15.76065	3.76E+01	2.91E+01	2.03E-04	8.48E-02	8.98E-01	2.24E-01	1.09E+02	1.07E+02	7.01E+01
5646	481913.93	3852255.78	5.38932	15.36738	1.9058	2.46795	2.897	2.407	15.1	15.36738	3.76E+01	2.84E+01	1.98E-04	8.69E-02	9.08E-01	2.26E-01	1.07E+02	1.04E+02	6.97E+01
5647	481980.83	3852325.65	5.38049	14.89351	1.88675	2.51839	2.923	2.432	14.683	14.89351	3.75E+01	2.75E+01	1.96E-04	8.86E-02	9.16E-01	2.29E-01	1.04E+02	1.01E+02	6.90E+01
5648	482047.73	3852395.51	5.39741	14.8401	1.87098	2.58324	2.954	2.452	14.711	14.8401	3.76E+01	2.74E+01	1.95E-04	9.09E-02	9.26E-01	2.30E-01	1.04E+02	1.01E+02	6.96E+01
5649	482114.64	3852465.37	5.40715	14.42957	1.91826	2.63336	2.98	2.474	14.408	14.42957	3.77E+01	2.67E+01	2.00E-04	9.27E-02	9.34E-01	2.33E-01	1.02E+02	9.81E+01	6.96E+01
5650	482181.54	3852535.23	5.46134	14.556	1.98275	2.70993	3.015	2.508	14.636	14.556	3.81E+01	2.69E+01	2.06E-04	9.54E-02	9.45E-01	2.36E-01	1.04E+02	9.90E+01	7.10E+01
5651	482338.69	3852700.04	5.6287	14.63658	2.48042	2.86741	3.099	2.614	14.704	14.63658	3.92E+01	2.70E+01	2.58E-04	1.01E-01	9.71E-01	2.46E-01	1.04E+02	9.95E+01	7.22E+01
5652	482404.05	3852767.78	5.68267	14.91508	2.81589	2.93169	3.144	2.67	15.225	14.91508	3.96E+01	2.75E+01	2.93E-04	1.03E-01	9.85E-01	2.51E-01	1.08E+02	1.01E+02	7.50E+01
5653	482469.4	3852835.52	5.63439	14.93321	3.22015	2.99516	3.189	2.734	15.443	14.93321	3.93E+01	2.76E+01	3.35E-04	1.05E-01	9.99E-01	2.57E-01	1.09E+02	1.02E+02	7.61E+01
5654	482534.75	3852903.25	5.49141	14.3898	3.64227	3.07177	3.237	2.81	14.47	14.3898	3.83E+01	2.66E+01	3.79E-04	1.08E-01	1.01E+00	2.64E-01	1.03E+02	9.78E+01	7.09E+01
5655	482600.11	3852970.99	5.2155	14.44554	4.04793	3.13801	3.281	2.88	13.204	14.44554	3.64E+01	2.67E+01	4.21E-04	1.10E-01	1.03E+00	2.71E-01	9.36E+01	9.82E+01	5.98E+01
5656	482706.71	3853119.28	4.80025	12.26401	4.43717	3.53539	3.367	3.118	11.538	12.26401	3.35E+01	2.27E+01	4.62E-04	1.24E-01	1.06E+00	2.93E-01	8.18E+01	8.34E+01	5.59E+01
5657	482747.96	3853199.84	4.96365	11.83827	4.50974	3.85239	3.435	3.346	10.55	11.83827	3.46E+01	2.19E+01	4.69E-04	1.36E-01	1.08E+00	3.15E-01	7.47E+01	8.05E+01	5.22E+01
5658	482789.21	3853280.4	5.1552	11.50943	4.53906	4.18191	3.497	3.551	10.692	11.50943	3.59E+01	2.13E+01	4.73E-04	1.47E-01	1.10E+00	3.34E-01	7.58E+01	7.83E+01	5.63E+01
5659	482830.46	3853360.96	5.33254	11.25357	4.54104	4.55324	3.577	3.722	10.782	11.25357	3.72E+01	2.08E+01	4.73E-04	1.60E-01	1.12E+00	3.50E-01	7.64E+01	7.65E+01	5.95E+01
5660	482871.71	3853441.52	5.50638	9.84216	4.70821	4.97593	3.682	4.077	10.12	9.84216	3.84E+01	1.82E+01	4.90E-04	1.75E-01	1.15E+00	3.83E-01	7.17E+01	6.69E+01	6.31E+01
5661	482912.95	3853522.07	5.70289	8.94979	4.77446	5.56492	3.808	4.648	9.4359	8.94979	3.98E+01	1.65E+01	4.97E-04	1.96E-01	1.19E+00	4.37E-01	6.69E+01	6.09E+01	6.41E+01
5662	482954.2	3853602.63	5.91129	7.96798	4.93127	6.37535	3.941	5.479	8.7728	7.96798	4.12E+01	1.47E+01	5.13E-04	2.24E-01	1.23E+00	5.15E-01	6.22E+01	5.42E+01	6.59E+01
5663	482995.45	3853683.19	6.18915	7.22489	5.31325	7.68364	4.095	6.575	8.3799	7.22489	4.31E+01	1.33E+01	5.53E-04	2.70E-01	1.28E+00	6.18E-01	5.94E+01	4.91E+01	6.89E+01
5664	483036.7	3853763.75	6.53466	6.6307	5.50897	9.86521	4.274	8.601	8.0646	6.6307	4.56E+01	1.22E+01	5.74E-04	3.47E-01	1.34E+00	8.08E-01	5.71E+01	4.51E+01	7.24E+01
5665	483214.2	3853909.91	6.7352	5.41568	6.68913	14.47135	4.641	11.69	6.6479	5.41568	4.70E+01	1.00E+01	6.96E-04	5.09E-01	1.45E+00	1.10E+00	4.71E+01	3.68E+01	7.03E+01
5666	483307.01	3853910.44	6.52783	4.58711	4.79073	10.11282	4.615	8.764	5.1555	4.58711	4.55E+01	8.47E+00	4.99E-04	3.56E-01	1.45E+00	8.24E-01	3.65E+01	3.12E+01	6.19E+01
5667	483399.83	3853910.96	6.05733	3.45786	3.52258	8.06815	4.616	6.853	4.0765	3.45786	4.22E+01	6.39E+00	3.67E-04	2.84E-01	1.45E+00	6.44E-01	2.89E+01	2.35E+01	5.64E+01
5668	483494.52	3854009.24	5.95578	3.1495	4.29327	8.87278	4.828	6.926	4.1638	3.1495	4.15E+01	5.82E+00	4.47E-04	3.12E-01	1.51E+00	6.51E-01	2.95E+01	2.14E+01	5.79E+01
5669	483496.41	3854106.98	6.34653	3.71837	4.85723	14.08085	5.088	9.141	5.1519	3.71837	4.42E+01	6.87E+00	5.06E-04	4.96E-01	1.59E+00	8.59E-01	3.65E+01	2.53E+01	6.53E+01
5670	483577.56	3854261.96	7.1577	3.58559	4.7096	38.12174	5.506	15.18	7.2087	3.58559	4.99E+01	6.62E+00	4.90E-04	1.34E+00	1.73E+00	1.43E+00	5.11E+01	2.44E+01	8.77E+01
5671	483656.83	3854319.19	7.30611	3.22204	5.66873	37.93505	5.673	14.53	7.1525	3.22204	5.09E+01	5.95E+00	5.90E-04	1.34E+00	1.78E+00	1.37E+00	5.07E+01	2.19E+01	9.01E+01
5672	483736.1	3854376.41	7.49834	2.81655	10.30237	37.97717	5.797	13.83	7.3305	2.81655	5.23E+01	5.20E+00	1.07E-03	1.34E+00	1.82E+00	1.30E+00	5.19E+01	1.92E+01	9.47E+01
5673	483815.36	3854433.64	7.72265	2.40874	8.2528	38.88859	5.902	13.17	7.6624	2.40874	5.38E+01	4.45E+00	8.59E-04	1.37E+00	1.85E+00	1.24E+00	5.43E+01	1.64E+01	1.01E+02
5674	483894.63	3854490.87	7.9954	2.02222	7.43508	39.99299	5.975	12.63	8.1132	2.02222	5.57E+01	3.73E+00	7.74E-04	1.41E+00	1.87E+00	1.19E+00	5.75E+01	1.38E+01	1.08E+02
5675	483973.9	3854548.09	8.31319	1.72811	9.40996	40.93969	6.02	12.38	8.7035	1.72811	5.80E+01	3.19E+00	9.80E-04	1.44E+00	1.89E+00	1.16E+00	6.17E+01	1.18E+01	1.16E+02
5676	484053.17	3854605.32	8.59664	1.65701	9.29164	43.28426	6.099	12.46	9.5982	1.65701	5.99E+01	3.06E+00	9.67E-04	1.52E+00	1.91E+00	1.17E+00	6.80E+01	1.13E+01	1.24E+02
5677	484214.97	3854698.15	9.02147	1.54821	7.88584	38.73052	6.236	11.64	10.436	1.54821	6.29E+01	2.86E+00	8.21E-04	1.36E+00	1.95E+00	1.09E+00	7.39E+01	1.05E+01	1.34E+02
5678	484297.5	3854733.74	9.00747	1.62076	7.75168	39.88215	6.402	11.44	10.55	1.62076	6.28E+01	2.99E+00	8.07E-04	1.40E+00	2.01E+00	1.08E+00	7.47E+01	1.10E+01	1.34E+02
5679	484380.03	3854769.34	9.18598	1.6696	7.64327	43.1699	6.469	11.05	10.346	1.6696	6.40E+01	3.08E+00	7.96E-04	1.52E+00	2.03E+00	1.04E+00	7.33E+01	1.14E+01	1.34E+02
5680	484462.56	3854804.94	9.2525	1.72813	8.37673	46.88521	6.638	10.97	10.707	1.72813	6.45E+01	3.19E+00	8.72E-04	1.65E+00	2.08E+00	1.03E+00	7.59E+01	1.18E+01	1.37E+02
5681	484545.09	3854840.53	9.41215	1.72965	7.90981	48.52403	6.719	10.94	10.889	1.72965	6.56E+01	3.19E+00	8.23E-04	1.71E+00	2.11E+00	1.03E+00	7.72E+01	1.18E+01	1.39E+02
5682	484691.88	3854912.58	9.09031	1.76179	7.87835	52.20413	7.23	11.92	12.097	1.76179	6.34E+01	3.25E+00	8.20E-04	1.84E+00	2.27E+00	1.12E+00	8.57E+01	1.20E+01	1.46E+02
5683	484830.81	3855012.51	8.75375	1.77536	7.70061	49.16967	7.916	13.11	12.195	1.77536	6.10E+01	3.28E+00	8.02E-04	1.73E+00	2.48E+00	1.23E+00	8.64E+01	1.21E+01	1.44E+02
5684	484905.48	3855075.97	8.58425	1.78437	8.13766	49.35211	8.438	13.52	12.061	1.78437	5.98E+01	3.30E+00	8.47E-04	1.74E+00	2.64E+00	1.27E+00	8.55E+01	1.21E+01	1.42E+02
5685	484980.14	3855139.44	8.49141	1.76843	7.24984	49.57396	8.92	13.73	12.086	1.76843	5.92E+01	3.27E+00	7.55E-04	1.74E+00	2.79E+00	1.29E+00	8.56E+01	1.20E+01	1.42E+02
5686	485054.81	3855202.91	8.47123	1.74002	8.5247	49.84941	9.371	14.11	12.26	1.74002	5.91E+01	3.21E+00	8.87E-04	1.75E+00	2.94E+00	1.33E+00	8.69E+01	1.18E+01	1.43E+02
5687	485129.48	3855266.37	8.5442	1.69673	8.49061	49.46064	9.77	14.09	12.174	1.69673	5.96E+01	3.13E+00	8.84E-04	1.74E+00	3.06E+00	1.32E+00	8.63E+01	1.15E+01	1.44E+02
5688	485204.15	3855329.84	8.43944	1.67936	8.5382	50.26581	10.35	13.9	11.76	1.67936	5.88E+01	3.10E+00	8.89E-04	1.77E+00	3.24E+00	1.31E+00	8.33E+01	1.14E+01	1.40E+02
5689	485278.82	3855393.31	8.42537	1.64801	9.25125	50.43147	10.88	13.63	11.342	1.64801	5.87E+01	3.04E+00	9.63E-04	1.77E+00	3.41E+00	1.28E+00	8.04E+01	1.12E+01	1.37E+02
5690	485353.48	3855456.77	8.40567	1.62199	8.63104	49.91369	11.49	13.35	10.897	1.62199	5.86E+01	3.00E+00	8.99E-04	1.76E+00	3.60E+00	1.26E+00	7.72E+01	1.10E+01	1.34E+02
5691	485428.15	3855520.24	8.43727	1.59807	9.16822	49.73257	12.12	13.03	10.396	1.59807	5.88E+01	2.95E+00	9.54E-04	1.75E+00	3.80E+00	1.22E+00	7.37E+01	1.09E+01	1.31E+02
5692	485502.82	3855583.71	8.45816	1.57872	10.90111	51.40947	12.8	12.7	9.9607	1.57872	5.90E+01	2.92E+00	1.13E-03	1.81E+00	4.01E+00	1.19E+00	7.06E+01	1.07E+01	1.29E+02
5693	485577.49	3855647.17	8.41936	1.56901	8.82941	48.67527	13.58	12.48	9.6478	1.56901	5.87E+01	2.90E+00	9.19E-04	1.71E+00	4.25E+00	1.17E+00	6.84E+01	1.07E+01	1.26E+02
5694	485652.16	3855710.64	8.38279	1.55451	14.07427	51.03192	14.12	12.21	9.4389	1.55451	5.84E+01	2.87E+00	1.47E-03	1.80E+00	4.42E+00	1.15E+00	6.69E+01	1.06E+01	1.25E+02
5695	485726.83	3855774.1	8.39864	1.53133	13.19858	50.02805	14.92	12.07	9.2008	1.53133	5.86E+01	2.83E+00	1.37E-03	1.76E+00	4.67E+00	1.13E+00	6.52E+01	1.04E+01	1.24E+02
5696	485801.49	3855837.57	8.44087	1.50405	14.07953	50.86838	15.76	11.95	8.9681	1.50405	5.88E+01	2.78E+00	1.47E-03	1.79E+00	4.94E+00	1.12E+00	6.35E+01	1.02E+01	1.23E+02

5697	485876.16	3855901.04	8.46801	1.48106	12.98972	49.5171	16.68	11.78	8.7026	1.48106	5.90E+01	2.74E+00	1.35E-03	1.74E+00	5.23E+00	1.11E+00	6.17E+01	1.01E+01	1.21E+02
5698	485950.83	3855964.5	8.50244	1.4563	11.9216	50.6033	17.65	11.57	8.5044	1.4563	5.93E+01	2.69E+00	1.24E-03	1.78E+00	5.53E+00	1.09E+00	6.03E+01	9.90E+00	1.21E+02
5699	486025.5	3856027.97	8.55106	1.42829	10.75649	49.69467	19.07	11.34	8.2571	1.42829	5.96E+01	2.64E+00	1.12E-03	1.75E+00	5.97E+00	1.07E+00	5.85E+01	9.71E+00	1.20E+02
5700	486100.17	3856091.44	8.4569	1.44702	11.47277	49.37612	19.9	11.01	8.0498	1.44702	5.90E+01	2.67E+00	1.19E-03	1.74E+00	6.24E+00	1.03E+00	5.70E+01	9.84E+00	1.18E+02
5701	486174.83	3856154.9	8.52294	1.39853	10.25627	47.73787	21.22	10.91	7.8745	1.39853	5.94E+01	2.58E+00	1.07E-03	1.68E+00	6.65E+00	1.03E+00	5.58E+01	9.51E+00	1.18E+02
5702	486249.5	3856218.37	8.70375	1.35394	8.66315	48.56033	22.86	10.89	7.5968	1.35394	6.07E+01	2.50E+00	9.02E-04	1.71E+00	7.16E+00	1.02E+00	5.38E+01	9.21E+00	1.18E+02
5703	486324.17	3856281.84	8.87575	1.32367	6.96767	48.30693	24.19	10.87	7.3496	1.32367	6.19E+01	2.44E+00	7.25E-04	1.70E+00	7.58E+00	1.02E+00	5.21E+01	9.00E+00	1.18E+02
5704	486398.84	3856345.3	8.85917	1.31965	7.18297	49.3837	26.65	10.98	7.1811	1.31965	6.18E+01	2.44E+00	7.48E-04	1.74E+00	8.35E+00	1.03E+00	5.09E+01	8.97E+00	1.17E+02
5705	486473.51	3856408.77	8.88882	1.30813	7.63059	47.40395	29.66	10.88	6.979	1.30813	6.20E+01	2.42E+00	7.94E-04	1.67E+00	9.29E+00	1.02E+00	4.94E+01	8.90E+00	1.17E+02
5706	486548.17	3856472.24	8.86018	1.30509	7.97146	48.99683	33.58	10.69	6.8521	1.30509	6.18E+01	2.41E+00	8.30E-04	1.72E+00	1.05E+01	1.00E+00	4.85E+01	8.87E+00	1.17E+02
5707	486622.84	3856535.7	8.86587	1.30691	7.54716	51.83494	38.32	10.44	6.7393	1.30691	6.18E+01	2.41E+00	7.86E-04	1.82E+00	1.20E+01	9.81E-01	4.78E+01	8.89E+00	1.18E+02
5708	486765.48	3856659.69	8.87154	1.34834	7.18854	43.6847	52.77	10.28	6.2586	1.34834	6.18E+01	2.49E+00	7.48E-04	1.54E+00	1.65E+01	9.66E-01	4.43E+01	9.17E+00	1.19E+02
5709	486833.44	3856720.2	8.90942	1.36447	6.87288	44.4185	62.79	10.32	6.1182	1.36447	6.21E+01	2.52E+00	7.16E-04	1.56E+00	1.97E+01	9.70E-01	4.33E+01	9.28E+00	1.21E+02
5710	486901.41	3856780.72	8.93909	1.40902	6.83002	42.46309	75.11	10.36	6.0251	1.40902	6.23E+01	2.60E+00	7.11E-04	1.49E+00	2.35E+01	9.73E-01	4.27E+01	9.58E+00	1.24E+02
5711	486969.38	3856841.24	8.97447	1.45111	6.66335	40.73394	89.14	10.42	5.9003	1.45111	6.26E+01	2.68E+00	6.94E-04	1.43E+00	2.79E+01	9.79E-01	4.18E+01	9.87E+00	1.28E+02
5712	487037.34	3856901.75	9.01106	1.49481	7.69193	39.48164	103.7	10.49	5.7636	1.49481	6.28E+01	2.76E+00	8.01E-04	1.39E+00	3.25E+01	9.86E-01	4.08E+01	1.02E+01	1.31E+02
5713	487271.23	3856855.51	7.10687	1.44274	6.53151	10.3282	92.56	5.423	4.1533	1.44274	4.95E+01	2.66E+00	6.80E-04	3.64E-01	2.90E+01	5.10E-01	2.94E+01	9.81E+00	1.02E+02
5714	487368.95	3856857.29	6.68307	1.42904	5.86839	8.65642	88.41	4.89	3.8269	1.42904	4.66E+01	2.64E+00	6.11E-04	3.05E-01	2.77E+01	4.60E-01	2.71E+01	9.72E+00	9.51E+01
5715	487466.68	3856859.06	6.31587	1.42205	5.78009	7.56625	91.6	4.501	3.5111	1.42205	4.40E+01	2.63E+00	6.02E-04	2.66E-01	2.87E+01	4.23E-01	2.49E+01	9.67E+00	9.13E+01
5716	487636.44	3856930	6.09266	1.44951	5.50207	6.83922	92.43	4.331	3.2451	1.44951	4.25E+01	2.68E+00	5.73E-04	2.41E-01	2.90E+01	4.07E-01	2.30E+01	9.86E+00	8.79E+01
5717	487709.57	3856928.43	5.89738	1.43775	5.4936	6.43241	91.09	4.141	3.082	1.43775	4.11E+01	2.66E+00	5.72E-04	2.26E-01	2.85E+01	3.89E-01	2.18E+01	9.78E+00	8.50E+01
5718	487782.55	3856841.96	5.49858	1.38285	5.59783	5.66474	86.3	3.667	2.7899	1.38285	3.83E+01	2.55E+00	5.83E-04	1.99E-01	2.70E+01	3.45E-01	1.98E+01	9.40E+00	7.88E+01
5719	487849.83	3856754.74	5.19732	1.41544	5.82183	5.01021	81.4	3.154	2.5395	1.41544	3.62E+01	2.61E+00	6.06E-04	1.76E-01	2.55E+01	2.96E-01	1.80E+01	9.62E+00	7.32E+01
5720	487918.03	3856819.39	5.16925	1.42034	5.56865	5.0953	94.94	3.313	2.5309	1.42034	3.60E+01	2.62E+00	5.80E-04	1.79E-01	2.97E+01	3.11E-01	1.79E+01	9.66E+00	7.72E+01
5721	487918.8	3856886.37	5.32408	1.41715	5.45894	5.45888	98.85	3.518	2.6244	1.41715	3.71E+01	2.62E+00	5.68E-04	1.92E-01	3.10E+01	3.31E-01	1.86E+01	9.64E+00	8.02E+01
5722	488065.46	3857127.5	5.08415	1.51132	6.69573	5.85168	103.2	3.913	2.7685	1.51132	3.54E+01	2.79E+00	6.97E-04	2.06E-01	3.23E+01	3.68E-01	1.96E+01	1.03E+01	8.05E+01
5723	488192.19	3857385.83	5.45666	1.74644	8.46212	6.3291	106.6	6.463	2.9682	1.74644	3.80E+01	3.23E+00	8.81E-04	2.23E-01	3.34E+01	6.07E-01	2.10E+01	1.19E+01	8.47E+01
5724	488191.21	3857473.87	5.85725	1.85095	9.54898	6.93547	107	6.554	3.1031	1.85095	4.08E+01	3.42E+00	9.94E-04	2.44E-01	3.35E+01	6.16E-01	2.20E+01	1.26E+01	8.80E+01
5725	488190.24	3857561.9	6.24536	1.94722	13.4686	7.72414	104.4	6.22	3.2444	1.94722	4.35E+01	3.60E+00	1.40E-03	2.72E-01	3.27E+01	5.85E-01	2.30E+01	1.32E+01	9.04E+01
5726	488158.35	3857691.13	6.89507	2.13532	14.34688	10.31223	101	10.3	3.5814	2.13532	4.81E+01	3.94E+00	1.49E-03	3.63E-01	3.17E+01	9.68E-01	2.54E+01	1.45E+01	9.59E+01
5727	488208.37	3857816.66	7.58463	2.38194	19.38939	13.58166	86.6	12.89	3.8291	2.38194	5.29E+01	4.40E+00	2.02E-03	4.78E-01	2.71E+01	1.21E+00	2.71E+01	1.62E+01	9.70E+01
5728	488271.97	3857874.6	7.62069	2.46987	19.53442	13.6525	75.72	11.3	3.8245	2.46987	5.31E+01	4.56E+00	2.03E-03	4.81E-01	2.37E+01	1.06E+00	2.71E+01	1.68E+01	9.33E+01
5729	488463.56	3857942.31	6.93956	2.45339	15.78252	10.33565	61.77	9.324	3.4519	2.45339	4.84E+01	4.53E+00	1.64E-03	3.64E-01	1.94E+01	8.76E-01	2.45E+01	1.67E+01	8.13E+01
5730	488554.83	3857940.83	6.56598	2.36302	14.95737	8.95503	55.33	8.571	3.236	2.36302	4.58E+01	4.36E+00	1.56E-03	3.15E-01	1.73E+01	8.06E-01	2.29E+01	1.61E+01	7.55E+01
5731	488646.1	3857939.36	6.24748	2.27431	14.19779	7.96682	53.79	7.968	3.0797	2.27431	4.36E+01	4.20E+00	1.48E-03	2.80E-01	1.69E+01	7.49E-01	2.18E+01	1.55E+01	7.20E+01
5732	488737.37	3857937.88	6.01114	2.19012	13.46248	7.53023	53.42	7.511	2.9367	2.19012	4.19E+01	4.04E+00	1.40E-03	2.65E-01	1.67E+01	7.06E-01	2.08E+01	1.49E+01	6.96E+01
5733	488733.59	3857960.57	6.1274	2.25202	13.23743	7.71811	52.37	7.594	2.9761	2.25202	4.27E+01	4.16E+00	1.38E-03	2.72E-01	1.64E+01	7.14E-01	2.11E+01	1.53E+01	7.00E+01
5734	488638.09	3857961.57	6.37765	2.33985	14.22389	8.3206	51.85	8.136	3.1387	2.33985	4.45E+01	4.32E+00	1.48E-03	2.93E-01	1.62E+01	7.65E-01	2.22E+01	1.59E+01	7.24E+01
5735	488542.6	3857962.56	6.71932	2.43252	15.2673	9.46457	54.41	8.795	3.3119	2.43252	4.68E+01	4.49E+00	1.59E-03	3.33E-01	1.70E+01	8.27E-01	2.35E+01	1.65E+01	7.65E+01
5736	488447.1	3857963.56	7.14063	2.52625	16.33173	11.20126	60.95	9.706	3.5637	2.52625	4.98E+01	4.67E+00	1.70E-03	3.94E-01	1.91E+01	9.12E-01	2.52E+01	1.72E+01	8.29E+01
5737	488254.28	3857890.36	7.84795	2.53035	19.60725	15.35493	77.72	11.56	3.9759	2.53035	5.47E+01	4.67E+00	2.04E-03	5.40E-01	2.44E+01	1.09E+00	2.82E+01	1.72E+01	9.63E+01
5738	488191.69	3857833.06	7.86703	2.43351	19.71552	15.37805	87.23	13.41	3.9779	2.43351	5.48E+01	4.49E+00	2.05E-03	5.41E-01	2.73E+01	1.26E+00	2.82E+01	1.65E+01	1.00E+02
5739	488129.5	3857907.43	9.07321	2.6999	22.26704	41.69545	84.39	16.83	4.9424	2.6999	6.33E+01	4.99E+00	2.32E-03	1.47E+00	2.64E+01	1.58E+00	3.50E+01	1.84E+01	1.14E+02
5740	488196.47	3857968.73	9.07806	2.81228	19.67153	42.36788	76.77	17.15	4.9354	2.81228	6.33E+01	5.19E+00	2.05E-03	1.49E+00	2.41E+01	1.61E+00	3.50E+01	1.91E+01	1.11E+02
5741	488263.44	3858030.04	9.09283	2.90897	18.83058	42.63091	69.59	17.26	4.8906	2.90897	6.34E+01	5.37E+00	1.96E-03	1.50E+00	2.18E+01	1.62E+00	3.47E+01	1.98E+01	1.09E+02
5742	488400.64	3858132.9	8.96524	3.11612	15.65125	29.85891	59.42	15.05	4.6172	3.11612	6.25E+01	5.76E+00	1.63E-03	1.05E+00	1.86E+01	1.41E+00	3.27E+01	2.12E+01	1.01E+02
5743	488519.89	3858218.38	8.87812	3.47164	13.45746	23.88409	53.48	13.54	4.5907	3.47164	6.19E+01	6.41E+00	1.40E-03	8.41E-01	1.68E+01	1.27E+00	3.25E+01	2.36E+01	9.61E+01
5744	488647.97	3858214.99	7.86783	3.15763	12.26055	13.78568	44.41	10.54	3.9199	3.15763	5.49E+01	5.83E+00	1.28E-03	4.85E-01	1.39E+01	9.91E-01	2.78E+01	2.15E+01	8.24E+01
5745	488727.05	3858167.67	7.19229	2.87322	12.38562	10.97876	36.22	9.143	3.4699	2.87322	5.01E+01	5.31E+00	1.29E-03	3.86E-01	1.13E+01	8.59E-01	2.46E+01	1.95E+01	7.31E+01
5746	488806.12	3858120.35	6.65866	2.61612	12.60862	9.46972	40.22	8.103	3.1498	2.61612	4.64E+01	4.83E+00	1.31E-03	3.33E-01	1.26E+01	7.62E-01	2.23E+01	1.78E+01	6.95E+01
5747	488885.2	3858073.03	6.30289	2.40425	12.47747	8.38854	44.94	7.364	2.9049	2.40425	4.39E+01	4.44E+00	1.30E-03	2.95E-01	1.41E+01	6.92E-01	2.06E+01	1.63E+01	6.77E+01
5748	489055.76	3857991.17	5.97943	2.07488	10.43484	8.55003	48.11	6.278	2.5455	2.07488	4.17E+01	3.83E+00	1.09E-03	3.01E-01	1.51E+01	5.90E-01	1.80E+01	1.41E+01	6.54E+01
5749	489245.39	3857944.54	5.86894	1.90074	10.12272	7.15231	39.93	5.498	2.2996	1.90074	4.09E+01	3.51E+00	1.05E-03	2.52E-01	1.25E+01	5.17E-01	1.63E+01	1.29E+01	6.11E+01
5750	489430.63	3857930.91	5.42653	1.87124	9.29157	5.81947	35.14	4.989	2.2065	1.87124	3.78E+01	3.46E+00	9.67E-04	2.05E-01	1.10E+01	4.69E-01	1.56E+01	1.27E+01	5.59E+01
5751	489517.74	3857929.36	5.15122	1.81393	9.03307	6.16649	33.99	4.794	2.1306	1.81393	3.59E+01	3.35E+00	9.40E-04	2.17E-01	1.06E+01	4.51E-01	1.51E+01	1.23E+01	5.33E+01
5752	489604.85	3857927.82	5.07665	1.70323	8.61527	8.93895	33.98	4.626	2.0324	1.70323	3.54E+01	3.15E+00	8.97E-04	3.15E-01	1.06E+01	4.35E-01	1.44E+01	1.16E+01	5.28E+01
5753	489691.97	3857926.28	5.05452	1.58661	8.92947	8.09831	34.26	4.481	1.9261	1.58661	3.52E+01	2.93E+00	9.30E-04	2.85E-01	1.07E+01	4.21E-01	1.36E+01	1.08E+01	5.25E+01

5754	489779.08	3857924.73	5.04167	1.49628	7.83822	6.23388	34.62	4.332	1.8207	1.49628	3.51E+01	2.76E+00	8.16E-04	2.19E-01	1.08E+01	4.07E-01	1.29E+01	1.02E+01	5.21E+01
5755	490017.55	3857875.08	4.5199	1.33785	6.26601	7.64867	37.74	3.861	1.6705	1.33785	3.15E+01	2.47E+00	6.52E-04	2.69E-01	1.18E+01	3.63E-01	1.18E+01	9.10E+00	4.92E+01
5756	490033.82	3857960.81	5.33505	1.42147	6.16619	7.93978	33.7	4.081	1.7263	1.42147	3.72E+01	2.63E+00	6.42E-04	2.79E-01	1.06E+01	3.84E-01	1.22E+01	9.67E+00	5.36E+01
5757	489959.15	3857987.49	5.56642	1.49845	6.73283	8.71478	31.52	4.269	1.7891	1.49845	3.88E+01	2.77E+00	7.01E-04	3.07E-01	9.87E+00	4.01E-01	1.27E+01	1.02E+01	5.46E+01
5758	489791.49	3858016.12	5.78168	1.61805	8.10323	10.16394	30.47	4.483	1.9242	1.61805	4.03E+01	2.99E+00	8.44E-04	3.58E-01	9.55E+00	4.21E-01	1.36E+01	1.10E+01	5.63E+01
5759	489698.51	3858018.07	5.83664	1.75013	9.50823	7.76887	30.52	4.647	2.0406	1.75013	4.07E+01	3.23E+00	9.90E-04	2.73E-01	9.56E+00	4.37E-01	1.45E+01	1.19E+01	5.68E+01
5760	489605.52	3858020.01	5.86448	1.87788	9.37964	10.33399	31.69	4.815	2.1466	1.87788	4.09E+01	3.47E+00	9.76E-04	3.64E-01	9.93E+00	4.53E-01	1.52E+01	1.28E+01	5.75E+01
5761	489512.53	3858021.96	5.8575	1.95616	10.03146	7.99825	32.89	5.002	2.2285	1.95616	4.08E+01	3.61E+00	1.04E-03	2.82E-01	1.03E+01	4.70E-01	1.58E+01	1.33E+01	5.80E+01
5762	489419.55	3858023.91	5.81586	1.97088	9.8626	6.44963	35.84	5.229	2.2774	1.97088	4.05E+01	3.64E+00	1.03E-03	2.27E-01	1.12E+01	4.92E-01	1.61E+01	1.34E+01	5.89E+01
5763	489228.47	3858041.29	5.84787	2.00042	10.29779	8.40725	44.35	5.721	2.3922	2.00042	4.08E+01	3.69E+00	1.07E-03	2.96E-01	1.39E+01	5.38E-01	1.69E+01	1.36E+01	6.25E+01
5764	489065.75	3858085.78	6.1506	2.25819	11.25476	9.48942	45.3	6.623	2.6439	2.25819	4.29E+01	4.17E+00	1.17E-03	3.34E-01	1.42E+01	6.23E-01	1.87E+01	1.54E+01	6.56E+01
5765	489001.12	3858114.86	6.35812	2.38018	11.43477	9.20441	43.31	7.073	2.7875	2.38018	4.43E+01	4.40E+00	1.19E-03	3.24E-01	1.36E+01	6.65E-01	1.98E+01	1.62E+01	6.68E+01
5766	488861.89	3858189.81	6.99391	2.70977	11.3525	11.00991	35.54	8.404	3.1537	2.70977	4.88E+01	5.00E+00	1.18E-03	3.88E-01	1.11E+01	7.90E-01	2.23E+01	1.84E+01	7.00E+01
5767	488787.29	3858235.69	7.52663	3.00128	10.9715	11.63609	32.6	9.424	3.5157	3.00128	5.25E+01	5.54E+00	1.14E-03	4.10E-01	1.02E+01	8.86E-01	2.49E+01	2.04E+01	7.40E+01
5768	488712.68	3858281.57	8.32525	3.29113	13.08546	14.42966	40.93	10.8	3.9555	3.29113	5.80E+01	6.08E+00	1.36E-03	5.08E-01	1.28E+01	1.01E+00	2.80E+01	2.24E+01	8.41E+01
5769	488654.39	3858436.17	9.43659	4.63224	12.12906	34.48696	41.75	20.08	5.5807	4.63224	6.58E+01	8.56E+00	1.26E-03	1.21E+00	1.31E+01	1.89E+00	3.95E+01	3.15E+01	9.86E+01
5770	488726.3	3858505.26	9.08184	4.90177	12.44176	33.2768	40.01	18.63	5.7186	4.90177	6.33E+01	9.05E+00	1.30E-03	1.17E+00	1.25E+01	1.75E+00	4.05E+01	3.33E+01	9.50E+01
5771	488880.6	3858599.28	9.04541	5.02116	11.6183	44.62867	37.09	18.13	5.356	5.02116	6.31E+01	9.27E+00	1.21E-03	1.57E+00	1.16E+01	1.70E+00	3.79E+01	3.41E+01	9.10E+01
5772	489008.06	3858714.75	8.57705	5.4257	11.76199	44.32085	32.44	17.62	5.5148	5.4257	5.98E+01	1.00E+01	1.22E-03	1.56E+00	1.02E+01	1.66E+00	3.91E+01	3.69E+01	8.54E+01
5773	489071.48	3858772.72	8.2206	5.66907	12.48773	43.57802	30.34	17.38	5.6577	5.66907	5.73E+01	1.05E+01	1.30E-03	1.53E+00	9.50E+00	1.63E+00	4.01E+01	3.85E+01	8.20E+01
5774	489244.59	3858920.19	7.71657	6.33739	13.09202	48.09784	24.91	16.12	6.1692	6.33739	5.38E+01	1.17E+01	1.36E-03	1.69E+00	7.80E+00	1.52E+00	4.37E+01	4.31E+01	7.71E+01
5775	489239.69	3858952.23	7.83391	6.87759	15.15172	46.15482	25.21	25.09	6.7207	6.87759	5.46E+01	1.27E+01	1.58E-03	1.62E+00	7.90E+00	2.36E+00	4.76E+01	4.68E+01	8.01E+01
5776	489121.67	3858854.49	8.02539	6.32507	14.50209	46.9765	28.45	23.53	6.3761	6.32507	5.60E+01	1.17E+01	1.51E-03	1.65E+00	8.91E+00	2.21E+00	4.52E+01	4.30E+01	8.26E+01
5777	489059.59	3858797.27	8.25827	6.00531	13.88159	45.37152	29.99	23.66	6.1014	6.00531	5.76E+01	1.11E+01	1.45E-03	1.60E+00	9.40E+00	2.22E+00	4.32E+01	4.08E+01	8.43E+01
5778	488997.52	3858740.04	8.60251	5.734	13.08047	44.61081	31.83	23.1	5.8893	5.734	6.00E+01	1.06E+01	1.36E-03	1.57E+00	9.97E+00	2.17E+00	4.17E+01	3.90E+01	8.70E+01
5779	488935.44	3858682.82	9.01424	5.49215	12.3636	44.34433	33.5	22.54	5.7993	5.49215	6.28E+01	1.01E+01	1.29E-03	1.56E+00	1.05E+01	2.12E+00	4.11E+01	3.73E+01	9.09E+01
5780	488869.17	3858848.43	9.166	9.87244	12.51108	16.40922	34.83	7.846	13.009	9.87244	6.39E+01	1.82E+01	1.30E-03	5.78E-01	1.09E+01	7.37E-01	9.22E+01	6.71E+01	1.19E+02
5781	488932.48	3858892.69	9.08421	10.45056	12.99308	17.43992	33.38	7.724	13.13	10.45056	6.33E+01	1.93E+01	1.35E-03	6.14E-01	1.05E+01	7.26E-01	9.30E+01	7.11E+01	1.16E+02
5782	489063.27	3858977.17	9.01995	11.35221	14.288	19.38458	31.23	7.744	12.751	11.35221	6.29E+01	2.10E+01	1.49E-03	6.82E-01	9.78E+00	7.28E-01	9.03E+01	7.72E+01	1.08E+02
5783	489248.2	3859117.15	8.57262	15.91648	18.35726	21.57596	27.35	7.871	16.705	15.91648	5.98E+01	2.94E+01	1.91E-03	7.59E-01	8.57E+00	7.40E-01	1.18E+02	1.08E+02	1.09E+02
5784	489296.25	3859049.22	7.88874	8.45857	17.08543	24.04693	25.17	11.46	8.0536	8.45857	5.50E+01	1.56E+01	1.78E-03	8.46E-01	7.89E+00	1.08E+00	5.71E+01	5.75E+01	8.00E+01
5785	489353.38	3858993.96	7.58812	6.60359	11.05424	41.26734	21.42	17.64	6.2845	6.60359	5.29E+01	1.22E+01	1.15E-03	1.45E+00	6.71E+00	1.66E+00	4.45E+01	4.49E+01	7.45E+01
5786	489537.24	3859120.22	7.62871	7.12895	10.54112	44.10098	17.41	18.36	6.6328	7.12895	5.32E+01	1.32E+01	1.10E-03	1.55E+00	5.45E+00	1.73E+00	4.70E+01	4.85E+01	7.36E+01
5787	489726.98	3859246.04	7.71283	7.7171	25.41744	46.48644	14.46	18.4	7.2947	7.7171	5.38E+01	1.43E+01	2.65E-03	1.64E+00	4.53E+00	1.73E+00	5.17E+01	5.25E+01	7.51E+01
5788	489911.46	3859366.33	7.59633	8.28366	56.64749	46.2807	12.76	18.08	8.0213	8.28366	5.30E+01	1.53E+01	5.90E-03	1.63E+00	4.00E+00	1.70E+00	5.68E+01	5.63E+01	7.61E+01
5789	490035.3	3859430.26	7.55685	8.40962	44.50808	38.33903	11.78	17.28	8.2295	8.40962	5.27E+01	1.55E+01	4.63E-03	1.35E+00	3.69E+00	1.62E+00	5.83E+01	5.72E+01	7.60E+01
5790	490101.11	3859458.61	7.45034	8.32004	34.83494	35.27605	11.31	17.38	8.1818	8.32004	5.19E+01	1.54E+01	3.63E-03	1.24E+00	3.54E+00	1.63E+00	5.80E+01	5.66E+01	7.51E+01
5791	490312.68	3859560.3	6.97845	8.41953	24.85302	36.4718	10.36	16.99	8.3753	8.41953	4.87E+01	1.56E+01	2.59E-03	1.28E+00	3.25E+00	1.60E+00	5.93E+01	5.73E+01	7.24E+01
5792	490401.63	3859603.12	6.98009	8.7494	21.14682	36.8427	10.22	16.4	8.7944	8.7494	4.87E+01	1.62E+01	2.20E-03	1.30E+00	3.20E+00	1.54E+00	6.23E+01	5.95E+01	7.37E+01
5793	490490.57	3859645.94	6.97248	9.16442	19.46556	37.16865	10.01	16.45	9.2754	9.16442	4.86E+01	1.69E+01	2.03E-03	1.31E+00	3.14E+00	1.55E+00	6.57E+01	6.23E+01	7.49E+01
5794	490579.51	3859688.76	6.91475	9.51492	18.50864	37.46361	9.769	16.43	9.6395	9.51492	4.82E+01	1.76E+01	1.93E-03	1.32E+00	3.06E+00	1.54E+00	6.83E+01	6.47E+01	7.53E+01
5795	490668.45	3859731.58	6.87137	9.36638	16.56237	37.21714	9.51	16.14	9.5888	9.36638	4.79E+01	1.73E+01	1.72E-03	1.31E+00	2.98E+00	1.52E+00	6.79E+01	6.37E+01	7.53E+01
5796	490757.4	3859774.4	6.76546	9.68319	15.48102	38.20469	9.129	16.37	9.9059	9.68319	4.72E+01	1.79E+01	1.61E-03	1.34E+00	2.86E+00	1.54E+00	7.02E+01	6.58E+01	7.51E+01
5797	491003.53	3859861.82	6.04354	9.16821	13.10001	33.00189	8.93	13.93	9.3785	9.16821	4.21E+01	1.69E+01	1.36E-03	1.16E+00	2.80E+00	1.31E+00	6.65E+01	6.23E+01	6.84E+01
5798	491081.41	3859879.05	5.79622	8.52523	12.61431	34.21912	9.216	13.47	8.7222	8.52523	4.04E+01	1.57E+01	1.31E-03	1.20E+00	2.89E+00	1.27E+00	6.18E+01	5.80E+01	6.53E+01
5799	491229.76	3859917.82	5.554	7.85444	11.59577	39.50386	9.529	14.86	8.0067	7.85444	3.87E+01	1.45E+01	1.21E-03	1.39E+00	2.99E+00	1.40E+00	5.67E+01	5.34E+01	6.23E+01
5800	491300.22	3859939.35	5.51001	7.68528	10.85984	40.51798	9.558	15.27	7.7975	7.68528	3.84E+01	1.42E+01	1.13E-03	1.43E+00	2.99E+00	1.44E+00	5.52E+01	5.23E+01	6.15E+01
5801	491350.48	3860012.03	6.36624	9.6063	10.38069	25.95822	8.803	21.43	9.5915	9.6063	4.44E+01	1.77E+01	1.08E-03	9.14E-01	2.76E+00	2.01E+00	6.80E+01	6.53E+01	7.05E+01
5802	491406.82	3860092.56	6.54082	10.21934	10.54615	17.42723	8.103	12.07	9.9396	10.21934	4.56E+01	1.89E+01	1.10E-03	6.13E-01	2.54E+00	1.13E+00	7.04E+01	6.95E+01	6.97E+01
5803	491483.36	3860121.96	6.25046	9.32995	10.22307	16.83692	8.171	11.72	9.0712	9.32995	4.36E+01	1.72E+01	1.06E-03	5.93E-01	2.56E+00	1.10E+00	6.43E+01	6.34E+01	6.59E+01
5804	491559.91	3860151.35	6.03001	8.54494	9.86003	16.18016	8.206	11.37	8.2571	8.54494	4.20E+01	1.58E+01	1.03E-03	5.69E-01	2.57E+00	1.07E+00	5.85E+01	5.81E+01	6.24E+01
5805	491711.81	3860237.76	6.29044	7.44326	10.28149	14.94856	8.43	10.08	7.0172	7.44326	4.39E+01	1.37E+01	1.07E-03	5.26E-01	2.64E+00	9.47E-01	4.97E+01	5.06E+01	6.08E+01
5806	491755.2	3860319.07	6.93013	8.26497	8.86149	11.44116	7.306	7.669	7.9654	8.26497	4.83E+01	1.53E+01	9.23E-04	4.03E-01	2.29E+00	7.21E-01	5.64E+01	5.62E+01	6.72E+01
5807	491704.71	3860366.54	7.23145	11.0274	9.51954	10.52063	6.653	7.232	10.756	11.0274	5.04E+01	2.04E+01	9.91E-04	3.70E-01	2.08E+00	6.80E-01	7.62E+01	7.50E+01	7.51E+01
5808	491623.42	3860462.39	5.95071	13.32983	10.87108	7.8444	6.15	5.768	12.472	13.32983	4.15E+01	2.46E+01	1.13E-03	2.76E-01	1.93E+00	5.42E-01	8.84E+01	9.06E+01	6.66E+01
5809	491534.02	3860439.84	5.40572	8.39479	13.21486	8.18782	6.807	6.333	8.0215	8.39479	3.77E+01	1.55E+01	1.38E-03	2.88E-01	2.13E+00	5.95E-01	5.68E+01	5.71E+01	5.60E+01
5810	491313.95	3860268.17	5.70274	10.24944	11.88581	9.27308	6.927	6.206	9.3935	10.24944	3.98E+01	1.89E+01	1.24E-03	3.26E-01	2.17E+00	5.83E-01	6.66E+01	6.97E+01	5.86E+01

5811	491187.12	3860143.56	6.22117	13.12007	12.09718	12.31742	7.348	8.072	12.673	13.12007	4.34E+01	2.42E+01	1.26E-03	4.34E-01	2.30E+00	7.59E-01	8.98E+01	8.92E+01	7.17E+01
5812	491070.43	3860075.97	6.51332	13.19273	12.69309	13.62162	7.79	9.248	12.602	13.19273	4.54E+01	2.44E+01	1.32E-03	4.79E-01	2.44E+00	8.69E-01	8.93E+01	8.97E+01	7.31E+01
5813	490995.09	3860039.38	6.50435	13.01736	13.17908	13.86607	8.039	9.639	12.319	13.01736	4.53E+01	2.40E+01	1.37E-03	4.88E-01	2.52E+00	9.06E-01	8.73E+01	8.85E+01	7.21E+01
5814	490919.75	3860002.8	6.47982	13.32675	13.75065	14.08868	8.271	10.02	12.351	13.32675	4.52E+01	2.46E+01	1.43E-03	4.96E-01	2.59E+00	9.42E-01	8.75E+01	9.06E+01	7.07E+01
5815	490756.81	3859894.53	7.36756	21.43355	14.85578	18.45822	8.872	13.61	19.516	21.43355	5.14E+01	3.96E+01	1.55E-03	6.50E-01	2.78E+00	1.28E+00	1.38E+02	1.46E+02	8.82E+01
5816	490668.07	3859860.92	7.4255	20.64411	14.97312	17.91937	8.925	12.98	18.849	20.64411	5.18E+01	3.81E+01	1.56E-03	6.31E-01	2.80E+00	1.22E+00	1.34E+02	1.40E+02	8.77E+01
5817	490579.34	3859827.3	7.49227	20.65055	15.4385	17.55953	8.928	12.44	18.901	20.65055	5.22E+01	3.81E+01	1.61E-03	6.18E-01	2.80E+00	1.17E+00	1.34E+02	1.40E+02	8.85E+01
5818	490490.6	3859793.68	7.52294	19.86668	15.70737	16.13696	9.033	11.61	18.179	19.86668	5.24E+01	3.67E+01	1.64E-03	5.68E-01	2.83E+00	1.09E+00	1.29E+02	1.35E+02	8.73E+01
5819	490401.86	3859760.07	7.55048	19.34856	17.06591	15.20433	9.453	10.71	17.762	19.34856	5.26E+01	3.57E+01	1.78E-03	5.35E-01	2.96E+00	1.01E+00	1.26E+02	1.32E+02	8.72E+01
5820	490313.12	3859726.45	7.5731	19.40546	18.95953	14.52172	9.856	10.14	17.951	19.40546	5.28E+01	3.58E+01	1.97E-03	5.11E-01	3.09E+00	9.53E-01	1.27E+02	1.32E+02	8.84E+01
5821	490224.39	3859692.83	7.54118	19.82538	22.18927	14.22781	10.22	9.814	18.256	19.82538	5.26E+01	3.66E+01	2.31E-03	5.01E-01	3.20E+00	9.22E-01	1.29E+02	1.35E+02	8.84E+01
5822	490135.65	3859659.22	7.43727	20.15598	24.97482	13.95545	10.99	9.522	18.297	20.15598	5.19E+01	3.72E+01	2.60E-03	4.91E-01	3.44E+00	8.95E-01	1.30E+02	1.37E+02	8.65E+01
5823	489918.18	3859559.23	7.42393	18.0541	38.09218	13.32016	13.99	8.525	16.553	18.0541	5.18E+01	3.33E+01	3.97E-03	4.69E-01	4.38E+00	8.01E-01	1.17E+02	1.23E+02	8.53E+01
5824	489743.61	3859486	7.11836	13.88323	44.06696	12.94041	17.1	7.54	12.654	13.88323	4.96E+01	2.56E+01	4.59E-03	4.55E-01	5.36E+00	7.09E-01	8.97E+01	9.44E+01	7.70E+01
5825	489660.32	3859440.27	7.14141	13.76087	52.21301	13.12875	18.49	7.41	12.173	13.76087	4.98E+01	2.54E+01	5.44E-03	4.62E-01	5.79E+00	6.97E-01	8.63E+01	9.36E+01	7.48E+01
5826	489577.04	3859394.53	7.18293	13.76942	35.14895	13.13189	20.36	7.379	11.988	13.76942	5.01E+01	2.54E+01	3.66E-03	4.62E-01	6.38E+00	6.94E-01	8.49E+01	9.36E+01	7.44E+01
5827	489493.75	3859348.8	7.22728	13.68233	25.10823	12.83516	22.16	7.227	11.827	13.68233	5.04E+01	2.53E+01	2.61E-03	4.52E-01	6.94E+00	6.79E-01	8.38E+01	9.30E+01	7.45E+01
5828	489321.28	3859240.02	7.79368	15.68327	19.6709	14.06203	25.63	7.078	12.685	15.68327	5.43E+01	2.90E+01	2.05E-03	4.95E-01	8.03E+00	6.65E-01	8.99E+01	1.07E+02	7.57E+01
5829	489235.41	3859193.96	7.96928	15.66946	17.68288	23.07171	27.18	6.956	12.692	15.66946	5.56E+01	2.89E+01	1.84E-03	8.12E-01	8.52E+00	6.54E-01	8.99E+01	1.07E+02	7.79E+01
5830	489149.54	3859147.89	8.12889	15.18028	15.79539	20.16989	28.14	6.837	11.802	15.18028	5.67E+01	2.80E+01	1.64E-03	7.10E-01	8.82E+00	6.43E-01	8.36E+01	1.03E+02	7.53E+01
5831	489063.68	3859101.82	8.32396	15.11341	15.08492	15.69635	29.53	6.804	11.288	15.11341	5.80E+01	2.79E+01	1.57E-03	5.52E-01	9.25E+00	6.40E-01	8.00E+01	1.03E+02	7.36E+01
5832	488977.81	3859055.75	8.60502	15.03855	14.44077	14.9795	30.68	6.983	10.661	15.03855	6.00E+01	2.78E+01	1.50E-03	5.27E-01	9.61E+00	6.56E-01	7.55E+01	1.02E+02	7.18E+01
5833	488891.94	3859009.69	9.03203	14.66575	13.68177	14.27335	30.94	7.319	9.914	14.66575	6.30E+01	2.71E+01	1.42E-03	5.02E-01	9.70E+00	6.88E-01	7.02E+01	9.97E+01	7.15E+01
5834	488808	3859060.73	9.34857	7.91221	11.75398	12.45728	28.08	7.536	6.9696	7.91221	6.52E+01	1.46E+01	1.22E-03	4.38E-01	8.80E+00	7.08E-01	4.94E+01	5.38E+01	8.53E+01
5835	488809.93	3859157.85	9.34355	5.65429	9.91255	11.41	25.95	8.185	5.4602	5.65429	6.51E+01	1.04E+01	1.03E-03	4.02E-01	8.13E+00	7.69E-01	3.87E+01	3.84E+01	8.51E+01
5836	488811.85	3859254.96	9.29592	4.55553	9.02171	10.51416	23.48	9.006	4.5375	4.55553	6.48E+01	8.41E+00	9.39E-04	3.70E-01	7.36E+00	8.47E-01	3.21E+01	3.10E+01	8.30E+01
5837	488813.78	3859352.07	9.23938	4.11078	7.1894	9.86715	21.18	11.32	4.0963	4.11078	6.44E+01	7.59E+00	7.48E-04	3.47E-01	6.64E+00	1.06E+00	2.90E+01	2.80E+01	8.11E+01
5838	488815.71	3859449.19	9.16144	3.76208	8.70432	9.46249	18.95	11.06	3.7624	3.76208	6.39E+01	6.95E+00	9.06E-04	3.33E-01	5.94E+00	1.04E+00	2.67E+01	2.56E+01	7.92E+01
5839	488910.04	3859547.1	8.35535	3.62135	16.59672	9.76856	18.84	9.485	3.6617	3.62135	5.83E+01	6.69E+00	1.73E-03	3.44E-01	5.90E+00	8.92E-01	2.59E+01	2.46E+01	7.34E+01
5840	489002.45	3859547.91	7.63624	3.82335	17.97249	11.1735	20.88	9.489	3.9911	3.82335	5.32E+01	7.06E+00	1.87E-03	3.93E-01	6.54E+00	8.92E-01	2.83E+01	2.60E+01	7.04E+01
5841	489094.85	3859548.71	7.05674	4.06275	18.58743	14.32695	21.91	9.073	4.3786	4.06275	4.92E+01	7.50E+00	1.94E-03	5.04E-01	6.86E+00	8.53E-01	3.10E+01	2.76E+01	6.83E+01
5842	489230.05	3859601.87	7.18693	4.12229	23.95214	22.58949	21.24	8.191	4.5531	4.12229	5.01E+01	7.61E+00	2.49E-03	7.95E-01	6.65E+00	7.70E-01	3.23E+01	2.80E+01	7.02E+01
5843	489227.52	3859680.89	7.7371	3.57759	15.57736	23.43146	20.4	7.959	3.8395	3.57759	5.39E+01	6.61E+00	1.62E-03	8.25E-01	6.39E+00	7.48E-01	2.72E+01	2.43E+01	7.14E+01
5844	489133.47	3859760.29	8.36259	3.06439	10.00346	17.07408	19.17	7.001	3.0872	3.06439	5.83E+01	5.66E+00	1.04E-03	6.01E-01	6.01E+00	6.58E-01	2.19E+01	2.08E+01	7.23E+01
5845	489041.96	3859760.67	8.5677	2.98704	12.25025	11.90533	17.31	6.597	2.8994	2.98704	5.97E+01	5.52E+00	1.28E-03	4.19E-01	5.42E+00	6.20E-01	2.05E+01	2.03E+01	7.19E+01
5846	488950.45	3859761.05	8.71433	2.89348	13.34673	9.82515	15.34	6.12	2.7344	2.89348	6.08E+01	5.34E+00	1.39E-03	3.46E-01	4.81E+00	5.75E-01	1.94E+01	1.97E+01	7.15E+01
5847	488858.94	3859761.43	8.86142	2.77963	14.18581	8.59556	13.37	5.971	2.5925	2.77963	6.18E+01	5.13E+00	1.48E-03	3.03E-01	4.19E+00	5.61E-01	1.84E+01	1.89E+01	7.14E+01
5848	488767.43	3859761.82	8.88106	2.63195	13.3101	7.85083	11.55	6.514	2.4646	2.63195	6.19E+01	4.86E+00	1.39E-03	2.76E-01	3.62E+00	6.12E-01	1.75E+01	1.79E+01	7.09E+01
5849	488675.92	3859762.2	8.87685	2.50424	11.90225	7.34721	10.11	7.299	2.3465	2.50424	6.19E+01	4.63E+00	1.24E-03	2.59E-01	3.17E+00	6.86E-01	1.66E+01	1.70E+01	7.02E+01
5850	488584.41	3859762.58	8.8557	2.37764	10.45321	6.89992	9.368	8.324	2.2249	2.37764	6.17E+01	4.39E+00	1.09E-03	2.43E-01	2.94E+00	7.82E-01	1.58E+01	1.62E+01	6.97E+01
5851	488492.9	3859762.96	8.90142	2.29067	9.31727	6.61524	8.867	9.818	2.1049	2.29067	6.21E+01	4.23E+00	9.70E-04	2.33E-01	2.78E+00	9.23E-01	1.49E+01	1.56E+01	6.96E+01
5852	488402.76	3859830.95	9.07173	2.40775	9.01634	6.23619	8.436	13.85	2.1561	2.40775	6.32E+01	4.45E+00	9.39E-04	2.19E-01	2.64E+00	1.30E+00	1.53E+01	1.64E+01	7.08E+01
5853	488404.14	3859898.55	9.15166	2.53658	9.29298	6.03891	8.11	13.44	2.3423	2.53658	6.38E+01	4.68E+00	9.67E-04	2.13E-01	2.54E+00	1.26E+00	1.66E+01	1.72E+01	7.19E+01
5854	488505.18	3859964.96	8.16042	2.62717	8.67546	6.23048	7.985	8.919	2.5342	2.62717	5.69E+01	4.85E+00	9.03E-04	2.19E-01	2.50E+00	8.38E-01	1.80E+01	1.79E+01	6.54E+01
5855	488604.84	3859963.76	7.72499	2.49966	7.45814	6.57241	8.266	7.455	2.4333	2.49966	5.39E+01	4.62E+00	7.76E-04	2.31E-01	2.59E+00	7.01E-01	1.72E+01	1.70E+01	6.22E+01
5856	488704.51	3859962.56	7.55983	2.42661	6.68548	6.99447	8.516	6.617	2.369	2.42661	5.27E+01	4.48E+00	6.96E-04	2.46E-01	2.67E+00	6.22E-01	1.68E+01	1.65E+01	6.10E+01
5857	488804.18	3859961.37	7.49603	2.40324	6.49654	7.71073	9.408	6.1	2.3419	2.40324	5.23E+01	4.44E+00	6.76E-04	2.71E-01	2.95E+00	5.73E-01	1.66E+01	1.63E+01	6.07E+01
5858	488903.85	3859960.17	7.47023	2.44133	8.0428	8.88575	10.96	5.745	2.3152	2.44133	5.21E+01	4.51E+00	8.37E-04	3.13E-01	3.43E+00	5.40E-01	1.64E+01	1.66E+01	6.07E+01
5859	489003.52	3859958.97	7.42104	2.4952	8.95897	10.64629	12.88	5.363	2.3182	2.4952	5.17E+01	4.61E+00	9.33E-04	3.75E-01	4.04E+00	5.04E-01	1.64E+01	1.70E+01	6.07E+01
5860	489103.18	3859957.77	7.23486	2.62281	9.477	13.95782	14.91	5.103	2.4371	2.62281	5.04E+01	4.84E+00	9.87E-04	4.91E-01	4.67E+00	4.80E-01	1.73E+01	1.78E+01	6.04E+01
5861	489201.48	3860046.59	7.21696	2.57957	10.66835	38.08517	15.51	4.658	2.4419	2.57957	5.03E+01	4.76E+00	1.11E-03	1.34E+00	4.86E+00	4.38E-01	1.73E+01	1.75E+01	6.15E+01
5862	489200.11	3860136.61	7.75479	2.71924	10.90715	37.17047	13.93	4.356	2.654	2.71924	5.41E+01	5.02E+00	1.14E-03	1.31E+00	4.36E+00	4.09E-01	1.88E+01	1.85E+01	6.55E+01
5863	489198.74	3860226.63	8.13571	3.29283	11.48201	37.60836	12.38	4.477	3.2457	3.29283	5.67E+01	6.08E+00	1.20E-03	1.32E+00	3.88E+00	4.21E-01	2.30E+01	2.24E+01	6.90E+01
5864	489197.38	3860316.66	8.42414	3.77739	12.00671	36.79257	11	4.394	3.7454	3.77739	5.87E+01	6.98E+00	1.25E-03	1.29E+00	3.45E+00	4.13E-01	2.65E+01	2.57E+01	7.17E+01
5865	489196.01	3860406.68	8.64384	3.78001	12.0872	36.4944	9.745	4.495	3.7759	3.78001	6.03E+01	6.98E+00	1.26E-03	1.28E+00	3.05E+00	4.23E-01	2.68E+01	2.57E+01	7.31E+01
5866	489194.64	3860496.7	8.79953	3.22651	10.97615	35.19914	8.562	4.418	3.25	3.22651	6.13E+01	5.96E+00	1.14E-03	1.24E+00	2.68E+00	4.15E-01	2.30E+01	2.19E+01	7.27E+01
5867	489193.27	3860586.72	8.90595	2.85252	9.27559	34.72239	7.566	4.189	2.8427	2.85252	6.21E+01	5.27E+00	9.66E-04	1.22E+00	2.37E+00	3.94E-01	2.01E+01	1.94E+01	7.21E+01

5868	489092.02	3860678.13	9.05361	2.65073	9.4426	12.3171	5.773	5.031	2.4524	2.65073	6.31E+01	4.90E+00	9.83E-04	4.34E-01	1.81E+00	4.73E-01	1.74E+01	1.80E+01	7.01E+01
5869	488992.13	3860679.53	9.27615	2.61172	8.6279	8.65378	5.703	5.5	2.3598	2.61172	6.47E+01	4.82E+00	8.98E-04	3.05E-01	1.79E+00	5.17E-01	1.67E+01	1.78E+01	7.11E+01
5870	488892.24	3860680.92	9.52939	2.56288	7.70291	6.7924	5.864	6.196	2.269	2.56288	6.64E+01	4.73E+00	8.02E-04	2.39E-01	1.84E+00	5.82E-01	1.61E+01	1.74E+01	7.25E+01
5871	488792.36	3860682.31	9.7178	2.51544	6.53311	5.83318	5.857	7.171	2.1831	2.51544	6.77E+01	4.65E+00	6.80E-04	2.05E-01	1.84E+00	6.74E-01	1.55E+01	1.71E+01	7.35E+01
5872	488692.48	3860683.7	9.84868	2.49733	6.39295	5.30591	5.936	8.622	2.1068	2.49733	6.87E+01	4.61E+00	6.66E-04	1.87E-01	1.86E+00	8.10E-01	1.49E+01	1.70E+01	7.41E+01
5873	488592.59	3860685.09	9.91725	2.46163	6.16979	5.01095	5.939	10.57	2.0545	2.46163	6.91E+01	4.55E+00	6.42E-04	1.76E-01	1.86E+00	9.94E-01	1.46E+01	1.67E+01	7.45E+01
5874	488492.71	3860686.49	9.97971	2.40975	5.91449	4.82025	5.736	14.79	2.0017	2.40975	6.96E+01	4.45E+00	6.16E-04	1.70E-01	1.80E+00	1.39E+00	1.42E+01	1.64E+01	7.52E+01
5875	488299.07	3860762.18	9.82547	2.32047	5.5035	4.48108	5.577	9.821	1.9668	2.32047	6.85E+01	4.29E+00	5.73E-04	1.58E-01	1.75E+00	9.23E-01	1.39E+01	1.58E+01	7.38E+01
5876	488205.32	3860764.09	9.60754	2.29718	5.28512	4.37465	5.664	10.69	1.9788	2.29718	6.70E+01	4.24E+00	5.50E-04	1.54E-01	1.77E+00	1.00E+00	1.40E+01	1.56E+01	7.26E+01
5877	488111.56	3860766	9.22554	2.25727	5.33207	4.26387	5.561	9.972	1.9838	2.25727	6.43E+01	4.17E+00	5.55E-04	1.50E-01	1.74E+00	9.37E-01	1.41E+01	1.53E+01	7.00E+01
5878	488017.81	3860767.91	8.83324	2.19706	5.05557	4.1222	5.439	11.03	1.9679	2.19706	6.16E+01	4.06E+00	5.26E-04	1.45E-01	1.70E+00	1.04E+00	1.39E+01	1.49E+01	6.75E+01
5879	487924.06	3860769.81	8.06951	2.13726	4.54867	3.96509	5.71	10.24	1.944	2.13726	5.63E+01	3.95E+00	4.74E-04	1.40E-01	1.79E+00	9.63E-01	1.38E+01	1.45E+01	6.23E+01
5880	487830.31	3860771.72	6.75776	2.0795	4.06182	3.87999	6.579	9.104	1.9219	2.0795	4.71E+01	3.84E+00	4.23E-04	1.37E-01	2.06E+00	8.56E-01	1.36E+01	1.41E+01	5.35E+01
5881	487736.55	3860773.63	5.83313	2.03023	3.71414	3.84118	8.203	7.89	1.9035	2.03023	4.07E+01	3.75E+00	3.87E-04	1.35E-01	2.57E+00	7.42E-01	1.35E+01	1.38E+01	4.75E+01
5882	487642.8	3860775.54	5.29506	2.01228	3.56576	3.81242	9.731	7.839	1.8976	2.01228	3.69E+01	3.72E+00	3.71E-04	1.34E-01	3.05E+00	7.37E-01	1.34E+01	1.37E+01	4.43E+01
5883	487549.48	3860684.71	5.48856	1.92273	3.34235	3.88433	10.87	8.229	1.8114	1.92273	3.83E+01	3.55E+00	3.48E-04	1.37E-01	3.41E+00	7.74E-01	1.28E+01	1.31E+01	4.59E+01
5884	487549.91	3860591.97	6.00956	1.83874	3.27123	3.95768	11.04	8.912	1.7013	1.83874	4.19E+01	3.40E+00	3.41E-04	1.39E-01	3.46E+00	8.38E-01	1.21E+01	1.25E+01	4.93E+01
5885	487550.34	3860499.23	6.49979	1.92459	4.12406	4.09862	11.27	8.624	1.7701	1.92459	4.53E+01	3.55E+00	4.29E-04	1.44E-01	3.53E+00	8.11E-01	1.25E+01	1.31E+01	5.28E+01
5886	487550.76	3860406.49	7.09178	1.96573	4.98418	4.2092	11.54	8.821	1.8062	1.96573	4.94E+01	3.63E+00	5.19E-04	1.48E-01	3.61E+00	8.29E-01	1.28E+01	1.34E+01	5.71E+01
5887	487551.19	3860313.75	7.42386	2.0348	5.49413	4.24276	11.78	9.218	1.9082	2.0348	5.18E+01	3.76E+00	5.72E-04	1.49E-01	3.69E+00	8.66E-01	1.35E+01	1.38E+01	5.99E+01
5888	487551.62	3860221.01	7.5415	2.19875	5.38155	4.24129	12.05	10.59	2.1361	2.19875	5.26E+01	4.06E+00	5.60E-04	1.49E-01	3.77E+00	9.95E-01	1.51E+01	1.50E+01	6.17E+01
5889	487552.05	3860128.27	7.61555	2.49232	5.14806	4.27942	12.4	9.921	2.4356	2.49232	5.31E+01	4.60E+00	5.36E-04	1.51E-01	3.89E+00	9.33E-01	1.73E+01	1.69E+01	6.30E+01
5890	487552.48	3860035.53	7.96455	2.89757	5.39062	4.29384	12.74	9.1	2.8413	2.89757	5.55E+01	5.35E+00	5.61E-04	1.51E-01	3.99E+00	8.55E-01	2.01E+01	1.97E+01	6.63E+01
5891	487552.91	3859942.79	8.27635	3.0406	5.81736	4.22402	12.98	8.925	2.9742	3.0406	5.77E+01	5.62E+00	6.06E-04	1.49E-01	4.07E+00	8.39E-01	2.11E+01	2.07E+01	6.88E+01
5892	487553.33	3859850.05	8.5475	2.89999	6.6576	4.38008	13.49	9.081	2.8219	2.89999	5.96E+01	5.36E+00	6.93E-04	1.54E-01	4.23E+00	8.54E-01	2.00E+01	1.97E+01	7.05E+01
5893	487553.76	3859757.31	8.89775	2.60219	6.93065	4.61314	14.01	9.15	2.4714	2.60219	6.20E+01	4.81E+00	7.22E-04	1.62E-01	4.39E+00	8.60E-01	1.75E+01	1.77E+01	7.21E+01
5894	487554.19	3859664.57	9.35731	2.43015	5.5087	4.75694	14.59	9.836	2.1309	2.43015	6.52E+01	4.49E+00	5.73E-04	1.67E-01	4.57E+00	9.25E-01	1.51E+01	1.65E+01	7.40E+01
5895	487460.2	3859571.05	9.78798	2.30541	5.99005	4.93635	15.6	11.67	1.9237	2.30541	6.82E+01	4.26E+00	6.24E-04	1.74E-01	4.89E+00	1.10E+00	1.36E+01	1.57E+01	7.66E+01
5896	487365.78	3859570.27	9.77966	2.30063	6.77118	4.86005	15.36	12.53	1.9748	2.30063	6.82E+01	4.25E+00	7.05E-04	1.71E-01	4.81E+00	1.18E+00	1.40E+01	1.56E+01	7.69E+01
5897	487271.36	3859569.48	9.66325	2.29968	6.53493	4.84799	15.14	11.61	2.026	2.29968	6.74E+01	4.25E+00	6.80E-04	1.71E-01	4.74E+00	1.09E+00	1.44E+01	1.56E+01	7.63E+01
5898	487176.94	3859568.7	9.28028	2.29091	6.97285	4.78176	14.91	10.9	2.0772	2.29091	6.47E+01	4.23E+00	7.26E-04	1.68E-01	4.67E+00	1.02E+00	1.47E+01	1.56E+01	7.39E+01
5899	487082.51	3859567.92	8.53392	2.27475	6.10408	4.65831	14.11	10.18	2.1264	2.27475	5.95E+01	4.20E+00	6.35E-04	1.64E-01	4.42E+00	9.57E-01	1.51E+01	1.55E+01	6.88E+01
5900	486988.09	3859567.14	7.73814	2.2784	5.33893	4.46736	12.83	9.824	2.1777	2.2784	5.39E+01	4.21E+00	5.56E-04	1.57E-01	4.02E+00	9.23E-01	1.54E+01	1.55E+01	6.32E+01
5901	486893.67	3859566.36	7.07679	2.36761	6.99104	4.28548	12.19	9.246	2.2484	2.36761	4.93E+01	4.37E+00	7.28E-04	1.51E-01	3.82E+00	8.69E-01	1.59E+01	1.61E+01	5.84E+01
5902	486799.25	3859565.58	6.43101	2.45466	7.6481	4.12411	12.17	8.237	2.3147	2.45466	4.48E+01	4.53E+00	7.96E-04	1.45E-01	3.81E+00	7.74E-01	1.64E+01	1.67E+01	5.38E+01
5903	486704.83	3859564.79	5.875	2.53438	6.67643	4.01948	12.9	7.491	2.3785	2.53438	4.10E+01	4.68E+00	6.95E-04	1.41E-01	4.04E+00	7.04E-01	1.69E+01	1.72E+01	5.01E+01
5904	486610.41	3859564.01	5.54796	2.60294	7.85757	3.88738	13.38	7.088	2.4385	2.60294	3.87E+01	4.81E+00	8.18E-04	1.37E-01	4.19E+00	6.66E-01	1.73E+01	1.77E+01	4.81E+01
5905	486515.99	3859563.23	5.40079	2.65187	8.98412	3.74791	13.4	6.657	2.4785	2.65187	3.77E+01	4.90E+00	9.35E-04	1.32E-01	4.20E+00	6.26E-01	1.76E+01	1.80E+01	4.70E+01
5906	486421.57	3859562.45	5.27069	2.68353	8.61208	3.68133	13.22	6.178	2.5044	2.68353	3.67E+01	4.96E+00	8.97E-04	1.30E-01	4.14E+00	5.81E-01	1.77E+01	1.82E+01	4.61E+01
5907	486327.14	3859561.67	5.14014	2.6966	8.00174	3.60395	12.92	5.828	2.5209	2.6966	3.58E+01	4.98E+00	8.33E-04	1.27E-01	4.05E+00	5.48E-01	1.79E+01	1.83E+01	4.51E+01
5908	486232.72	3859560.89	4.97944	2.68177	6.7246	3.49859	12.25	5.54	2.5361	2.68177	3.47E+01	4.95E+00	7.00E-04	1.23E-01	3.84E+00	5.21E-01	1.80E+01	1.82E+01	4.39E+01
5909	486138.3	3859560.1	4.7959	2.68329	5.5783	3.391	11.88	5.252	2.5368	2.68329	3.34E+01	4.96E+00	5.81E-04	1.19E-01	3.72E+00	4.94E-01	1.80E+01	1.82E+01	4.25E+01
5910	486043.88	3859559.32	4.6074	2.67013	5.73543	3.3031	12.3	4.961	2.5197	2.67013	3.21E+01	4.93E+00	5.97E-04	1.16E-01	3.86E+00	4.66E-01	1.79E+01	1.82E+01	4.12E+01
5911	485949.35	3859463.54	4.70045	2.59392	6.12299	3.41104	13.85	4.855	2.4354	2.59392	3.28E+01	4.79E+00	6.37E-04	1.20E-01	4.34E+00	4.56E-01	1.73E+01	1.76E+01	4.21E+01
5912	485949.24	3859368.55	4.93791	2.39834	6.37359	3.3119	14.82	5.635	2.2337	2.39834	3.44E+01	4.43E+00	6.64E-04	1.17E-01	4.64E+00	5.30E-01	1.58E+01	1.63E+01	4.37E+01
5913	485949.12	3859273.55	5.14035	2.1539	6.92158	3.51734	15.56	6.236	1.9882	2.1539	3.58E+01	3.98E+00	7.21E-04	1.24E-01	4.88E+00	5.86E-01	1.41E+01	1.46E+01	4.48E+01
5914	485949.01	3859178.56	5.5193	1.97299	7.31424	3.61948	16.58	6.349	1.8058	1.97299	3.85E+01	3.64E+00	7.61E-04	1.27E-01	5.20E+00	5.97E-01	1.28E+01	1.34E+01	4.74E+01
5915	485948.9	3859083.56	5.77942	1.90042	7.42814	3.70799	17.84	6.072	1.6597	1.90042	4.03E+01	3.51E+00	7.73E-04	1.31E-01	5.59E+00	5.71E-01	1.18E+01	1.29E+01	4.89E+01
5916	485948.79	3858988.56	5.91188	1.92152	6.9285	3.66742	19.11	5.851	1.6092	1.92152	4.12E+01	3.55E+00	7.21E-04	1.29E-01	5.99E+00	5.50E-01	1.14E+01	1.31E+01	4.98E+01
5917	485948.67	3858893.57	6.00319	1.96673	6.4722	3.72701	20.03	6.004	1.6126	1.96673	4.19E+01	3.63E+00	6.74E-04	1.31E-01	6.28E+00	5.64E-01	1.14E+01	1.34E+01	5.05E+01
5918	485948.56	3858798.57	6.08077	2.04376	6.12698	3.7329	20.67	6.378	1.6814	2.04376	4.24E+01	3.77E+00	6.38E-04	1.31E-01	6.48E+00	6.00E-01	1.19E+01	1.39E+01	5.14E+01
5919	485948.45	3858703.58	6.13397	2.11973	7.54199	3.59455	20.97	6.86	1.7609	2.11973	4.28E+01	3.91E+00	7.85E-04	1.27E-01	6.57E+00	6.45E-01	1.25E+01	1.44E+01	5.21E+01
5920	485948.34	3858608.58	6.17248	2.20305	10.16579	3.34436	21	7.308	1.813	2.20305	4.30E+01	4.07E+00	1.06E-03	1.18E-01	6.58E+00	6.87E-01	1.28E+01	1.50E+01	5.24E+01
5921	485948.22	3858513.59	6.20225	2.27126	10.45754	3.35746	20.57	7.868	1.8341	2.27126	4.32E+01	4.19E+00	1.09E-03	1.18E-01	6.45E+00	7.40E-01	1.30E+01	1.54E+01	5.23E+01
5922	485948.11	3858418.59	6.276	2.33137	9.53271	3.31946	20.03	8.786	1.8393	2.33137	4.38E+01	4.31E+00	9.92E-04	1.17E-01	6.28E+00	8.26E-01	1.30E+01	1.59E+01	5.25E+01
5923	485948	3858323.59	6.42439	2.44853	12.1547	3.35999	20.42	10.03	1.7978	2.44853	4.48E+01	4.52E+00	1.27E-03	1.18E-01	6.40E+00	9.43E-01	1.27E+01	1.66E+01	5.29E+01
5924	485947.89	3858228.6	6.66033	2.6276	10.42258	3.33447	21.45	10.96	1.7336	2.6276	4.64E+01	4.85E+00	1.09E-03	1.17E-01	6.72E+00	1.03E+00	1.23E+01	1.79E+01	5.36E+01

5925	485947.77	3858133.6	7.078	2.85827	6.27972	3.30378	22.03	11.38	1.736	2.85827	4.93E+01	5.28E+00	6.54E-04	1.16E-01	6.90E+00	1.07E+00	1.23E+01	1.94E+01	5.56E+01
5926	485947.66	3858038.61	7.44914	3.14301	4.93136	3.49904	22.43	12.84	1.785	3.14301	5.19E+01	5.80E+00	5.13E-04	1.23E-01	7.03E+00	1.21E+00	1.26E+01	2.14E+01	5.74E+01
5927	485854.54	3857943.35	7.43269	3.21236	6.06773	3.56697	22.4	12.98	1.7687	3.21236	5.18E+01	5.93E+00	6.32E-04	1.26E-01	7.02E+00	1.22E+00	1.25E+01	2.18E+01	5.68E+01
5928	485761.52	3857943.09	7.08301	3.00269	5.52999	3.46472	21.58	11.64	1.7308	3.00269	4.94E+01	5.55E+00	5.76E-04	1.22E-01	6.76E+00	1.09E+00	1.23E+01	2.04E+01	5.48E+01
5929	485668.51	3857942.83	6.82142	2.8187	5.46551	3.37817	21.2	10.64	1.7142	2.8187	4.76E+01	5.21E+00	5.69E-04	1.19E-01	6.64E+00	1.00E+00	1.21E+01	1.92E+01	5.35E+01
5930	485575.5	3857942.56	6.56821	2.63378	5.51301	3.28102	20.64	9.809	1.6799	2.63378	4.58E+01	4.86E+00	5.74E-04	1.15E-01	6.47E+00	9.22E-01	1.19E+01	1.79E+01	5.22E+01
5931	485482.48	3857942.3	6.32836	2.58286	5.35797	3.19994	20.2	9.147	1.6373	2.58286	4.41E+01	4.77E+00	5.58E-04	1.13E-01	6.33E+00	8.60E-01	1.16E+01	1.76E+01	5.02E+01
5932	485389.47	3857942.04	6.08966	2.52133	4.79201	3.12106	19.63	8.588	1.599	2.52133	4.25E+01	4.66E+00	4.99E-04	1.10E-01	6.15E+00	8.07E-01	1.13E+01	1.71E+01	4.84E+01
5933	485296.46	3857941.78	5.85504	2.44341	4.15615	3.04699	19.25	8.109	1.5901	2.44341	4.08E+01	4.51E+00	4.33E-04	1.07E-01	6.03E+00	7.62E-01	1.13E+01	1.66E+01	4.69E+01
5934	485203.45	3857941.52	5.64024	2.38468	4.1994	2.98498	19.22	7.707	1.575	2.38468	3.93E+01	4.40E+00	4.37E-04	1.05E-01	6.02E+00	7.24E-01	1.12E+01	1.62E+01	4.55E+01
5935	485110.43	3857941.26	5.4457	2.33485	4.58679	2.93308	19.02	7.38	1.5469	2.33485	3.80E+01	4.31E+00	4.78E-04	1.03E-01	5.96E+00	6.94E-01	1.10E+01	1.59E+01	4.41E+01
5936	485017.42	3857940.99	5.26555	2.26561	4.85022	2.89735	18.72	7.073	1.5179	2.26561	3.67E+01	4.18E+00	5.05E-04	1.02E-01	5.87E+00	6.65E-01	1.08E+01	1.54E+01	4.29E+01
5937	484924.41	3857940.73	5.09211	2.1806	4.65791	2.866	18.35	6.78	1.4834	2.1806	3.55E+01	4.03E+00	4.85E-04	1.01E-01	5.75E+00	6.37E-01	1.05E+01	1.48E+01	4.17E+01
5938	484831.39	3857940.47	4.92583	2.08659	4.11613	2.84279	17.97	6.5	1.4537	2.08659	3.43E+01	3.85E+00	4.29E-04	1.00E-01	5.63E+00	6.11E-01	1.03E+01	1.42E+01	4.06E+01
5939	484738.12	3857859.3	4.95104	2.06141	5.3951	2.83033	18.05	6.488	1.4035	2.06141	3.45E+01	3.81E+00	5.62E-04	9.96E-02	5.65E+00	6.10E-01	9.94E+00	1.40E+01	4.06E+01
5940	484737.85	3857778.4	5.21631	2.15963	6.26676	2.84905	18.13	6.553	1.392	2.15963	3.64E+01	3.99E+00	6.52E-04	1.00E-01	5.68E+00	6.16E-01	9.86E+00	1.47E+01	4.19E+01
5941	484737.59	3857697.49	5.5173	2.26396	6.90395	2.85522	17.97	6.445	1.3971	2.26396	3.85E+01	4.18E+00	7.19E-04	1.00E-01	5.63E+00	6.06E-01	9.90E+00	1.54E+01	4.35E+01
5942	484737.32	3857616.59	5.79261	2.3671	7.39031	2.83812	17.9	6.026	1.4082	2.3671	4.04E+01	4.37E+00	7.69E-04	9.99E-02	5.61E+00	5.66E-01	9.98E+00	1.61E+01	4.49E+01
5943	484645.53	3857535.18	5.97937	2.35203	8.16275	2.77687	17.24	5.387	1.395	2.35203	4.17E+01	4.34E+00	8.50E-04	9.77E-02	5.40E+00	5.06E-01	9.88E+00	1.60E+01	4.59E+01
5944	484553.99	3857534.67	5.8525	2.22506	7.93303	2.74449	16.67	5.377	1.3396	2.22506	4.08E+01	4.11E+00	8.26E-04	9.66E-02	5.22E+00	5.05E-01	9.49E+00	1.51E+01	4.51E+01
5945	484462.46	3857534.17	5.70695	2.09979	8.66718	2.72277	16.15	5.342	1.3048	2.09979	3.98E+01	3.88E+00	9.02E-04	9.58E-02	5.06E+00	5.02E-01	9.24E+00	1.43E+01	4.43E+01
5946	484370.93	3857533.66	5.54457	2.0211	7.96442	2.70176	15.61	5.292	1.2907	2.0211	3.87E+01	3.73E+00	8.29E-04	9.51E-02	4.89E+00	4.97E-01	9.14E+00	1.37E+01	4.33E+01
5947	484279.4	3857533.16	5.45386	1.9654	6.64943	2.68415	15.08	5.241	1.2781	1.9654	3.80E+01	3.63E+00	6.92E-04	9.45E-02	4.72E+00	4.93E-01	9.06E+00	1.34E+01	4.27E+01
5948	484187.86	3857532.65	5.29228	1.91499	7.77931	2.66547	14.53	5.187	1.2654	1.91499	3.69E+01	3.54E+00	8.10E-04	9.38E-02	4.55E+00	4.88E-01	8.97E+00	1.30E+01	4.15E+01
5949	484096.33	3857532.15	5.00077	1.8716	8.33866	2.65296	14.03	5.139	1.2669	1.8716	3.49E+01	3.46E+00	8.68E-04	9.34E-02	4.40E+00	4.83E-01	8.98E+00	1.27E+01	3.95E+01
5950	484004.8	3857531.64	4.61297	1.84522	7.31911	2.63536	13.51	5.071	1.2793	1.84522	3.22E+01	3.41E+00	7.62E-04	9.28E-02	4.23E+00	4.77E-01	9.06E+00	1.25E+01	3.69E+01
5951	483913.27	3857531.14	4.47308	1.84555	8.40653	2.61287	13.01	5.01	1.2787	1.84555	3.12E+01	3.41E+00	8.75E-04	9.20E-02	4.08E+00	4.71E-01	9.06E+00	1.25E+01	3.57E+01
5952	483821.73	3857530.63	4.41109	1.82767	9.04543	2.59806	12.62	4.947	1.2692	1.82767	3.08E+01	3.38E+00	9.42E-04	9.14E-02	3.95E+00	4.65E-01	8.99E+00	1.24E+01	3.52E+01
5953	483729.61	3857450.11	4.65362	1.82478	8.30126	2.53703	11.43	4.701	1.2419	1.82478	3.24E+01	3.37E+00	8.64E-04	8.93E-02	3.58E+00	4.42E-01	8.80E+00	1.24E+01	3.63E+01
5954	483729.03	3857370.08	5.14794	1.87029	7.89466	2.491	10.31	4.441	1.2381	1.87029	3.59E+01	3.45E+00	8.22E-04	8.77E-02	3.23E+00	4.17E-01	8.77E+00	1.27E+01	3.91E+01
5955	483728.44	3857290.06	5.6421	1.90788	7.40929	2.4391	9.247	3.998	1.235	1.90788	3.93E+01	3.52E+00	7.71E-04	8.58E-02	2.90E+00	3.76E-01	8.75E+00	1.30E+01	4.20E+01
5956	483727.86	3857210.03	6.33548	1.94666	7.26901	2.43396	8.773	3.608	1.2473	1.94666	4.42E+01	3.60E+00	7.57E-04	8.57E-02	2.75E+00	3.39E-01	8.84E+00	1.32E+01	4.65E+01
5957	483641.15	3857129.07	6.55532	1.95028	7.49936	2.43076	9.218	3.478	1.2546	1.95028	4.57E+01	3.60E+00	7.81E-04	8.56E-02	2.89E+00	3.27E-01	8.89E+00	1.33E+01	4.82E+01
5958	483555.03	3857128.14	6.25561	1.85927	7.43411	2.40178	9.029	3.402	1.2084	1.85927	4.36E+01	3.43E+00	7.74E-04	8.45E-02	2.83E+00	3.20E-01	8.56E+00	1.26E+01	4.62E+01
5959	483468.91	3857127.2	5.9919	1.76044	7.47952	2.36362	8.8	3.35	1.1556	1.76044	4.18E+01	3.25E+00	7.79E-04	8.32E-02	2.76E+00	3.15E-01	8.19E+00	1.20E+01	4.44E+01
5960	483382.78	3857126.26	5.76018	1.72692	7.71818	2.34451	8.648	3.365	1.146	1.72692	4.02E+01	3.19E+00	8.04E-04	8.25E-02	2.71E+00	3.16E-01	8.12E+00	1.17E+01	4.28E+01
5961	483296.66	3857125.32	5.53698	1.7021	7.87376	2.3193	8.469	3.45	1.1393	1.7021	3.86E+01	3.14E+00	8.20E-04	8.16E-02	2.65E+00	3.24E-01	8.07E+00	1.16E+01	4.13E+01
5962	483210.54	3857124.39	5.32837	1.67722	7.16004	2.29254	8.28	3.522	1.1307	1.67722	3.71E+01	3.10E+00	7.45E-04	8.07E-02	2.59E+00	3.31E-01	8.01E+00	1.14E+01	3.99E+01
5963	483123.4	3857030.96	5.35931	1.66472	7.06021	2.28065	9.001	3.117	1.1185	1.66472	3.74E+01	3.07E+00	7.35E-04	8.03E-02	2.82E+00	2.93E-01	7.92E+00	1.13E+01	4.02E+01
5964	483122.38	3856938.46	5.81867	1.66226	6.68434	2.31362	10.18	3.015	1.1417	1.66226	4.06E+01	3.07E+00	6.96E-04	8.14E-02	3.19E+00	2.83E-01	8.09E+00	1.13E+01	4.40E+01
5965	483121.35	3856845.97	6.2362	1.68456	7.07809	2.3562	11.83	3.043	1.1812	1.68456	4.35E+01	3.11E+00	7.37E-04	8.29E-02	3.71E+00	2.86E-01	8.37E+00	1.15E+01	4.76E+01
5966	483120.33	3856753.47	6.45013	1.70589	8.6628	2.37963	12.86	2.935	1.2013	1.70589	4.50E+01	3.15E+00	9.02E-04	8.38E-02	4.03E+00	2.76E-01	8.51E+00	1.16E+01	4.94E+01
5967	483119.31	3856660.98	6.53224	1.73697	9.27602	2.39534	13.16	2.964	1.2069	1.73697	4.55E+01	3.21E+00	9.66E-04	8.43E-02	4.12E+00	2.79E-01	8.55E+00	1.18E+01	5.00E+01
5968	483118.29	3856568.49	6.57878	1.78851	9.80007	2.38026	13.2	2.982	1.2024	1.78851	4.59E+01	3.30E+00	1.02E-03	8.38E-02	4.14E+00	2.80E-01	8.52E+00	1.22E+01	5.00E+01
5969	483117.26	3856475.99	6.6348	1.83785	10.71933	2.33677	12.78	2.958	1.1896	1.83785	4.63E+01	3.39E+00	1.12E-03	8.22E-02	4.00E+00	2.78E-01	8.43E+00	1.25E+01	4.99E+01
5970	483116.24	3856383.5	6.79198	1.89209	12.16331	2.24889	13.19	3.071	1.1697	1.89209	4.74E+01	3.49E+00	1.27E-03	7.92E-02	4.13E+00	2.89E-01	8.29E+00	1.29E+01	5.08E+01
5971	483115.22	3856291.01	7.08709	1.93935	10.75819	2.17278	14.04	3.255	1.149	1.93935	4.94E+01	3.58E+00	1.12E-03	7.65E-02	4.40E+00	3.06E-01	8.14E+00	1.32E+01	5.27E+01
5972	483114.2	3856198.51	7.4007	1.9606	8.60884	2.10439	14.19	3.467	1.1286	1.9606	5.16E+01	3.62E+00	8.96E-04	7.41E-02	4.45E+00	3.26E-01	8.00E+00	1.33E+01	5.47E+01
5973	483113.17	3856106.02	7.60464	1.99251	7.72303	2.06834	14.38	3.6	1.1187	1.99251	5.30E+01	3.68E+00	8.04E-04	7.28E-02	4.51E+00	3.38E-01	7.93E+00	1.35E+01	5.60E+01
5974	483112.15	3856013.52	7.53127	2.13168	8.25306	2.04351	14.26	3.854	1.153	2.13168	5.25E+01	3.94E+00	8.59E-04	7.19E-02	4.47E+00	3.62E-01	8.17E+00	1.45E+01	5.50E+01
5975	483029.25	3855920.47	7.32347	2.22075	8.983	2.03299	13.35	3.88	1.1899	2.22075	5.11E+01	4.10E+00	9.35E-04	7.16E-02	4.18E+00	3.65E-01	8.43E+00	1.51E+01	5.31E+01
5976	482947.37	3855919.91	7.1027	2.08259	11.00665	2.0202	13.46	3.642	1.1435	2.08259	4.95E+01	3.85E+00	1.15E-03	7.11E-02	4.22E+00	3.42E-01	8.10E+00	1.42E+01	5.19E+01
5977	482865.49	3855919.36	6.75727	1.97091	9.72228	2.00514	13.5	3.445	1.1122	1.97091	4.71E+01	3.64E+00	1.01E-03	7.06E-02	4.23E+00	3.24E-01	7.88E+00	1.34E+01	4.99E+01
5978	482783.61	3855918.8	6.4134	2.0234	11.67895	1.99781	13.55	3.345	1.1408	2.0234	4.47E+01	3.74E+00	1.22E-03	7.03E-02	4.24E+00	3.14E-01	8.08E+00	1.38E+01	4.74E+01
5979	482700.33	3855818.39	6.56791	2.1154	12.43326	1.97133	12.48	3.294	1.1745	2.1154	4.58E+01	3.91E+00	1.29E-03	6.94E-02	3.91E+00	3.10E-01	8.32E+00	1.44E+01	4.79E+01
5980	482698.92	3855718.54	7.447	2.2684	11.3238	1.97394	10.53	3.507	1.2581	2.2684	5.19E+01	4.19E+00	1.18E-03	6.95E-02	3.30E+00	3.30E-01	8.91E+00	1.54E+01	5.33E+01
5981	482697.52	3855618.68	7.53813	2.48076	11.56881	2.02046	8.037	3.724	1.3419	2.48076	5.26E+01	4.58E+00	1.20E-03	7.11E-02	2.52E+00	3.50E-01	9.51E+00	1.69E+01	5.27E+01

5982	482696.11	3855518.83	7.48239	2.69297	10.98399	2.09968	6.863	3.908	1.428	2.69297	5.22E+01	4.97E+00	1.14E-03	7.39E-02	2.15E+00	3.67E-01	1.01E+01	1.83E+01	5.15E+01
5983	482694.71	3855418.98	7.41206	2.83694	11.30496	2.17663	6.215	4.15	1.4886	2.83694	5.17E+01	5.24E+00	1.18E-03	7.66E-02	1.95E+00	3.90E-01	1.05E+01	1.93E+01	5.06E+01
5984	482693.3	3855319.13	7.29999	2.99232	10.50363	2.25854	5.408	4.373	1.5387	2.99232	5.09E+01	5.53E+00	1.09E-03	7.95E-02	1.69E+00	4.11E-01	1.09E+01	2.03E+01	4.92E+01
5985	482691.9	3855219.27	7.16054	3.32348	13.90325	2.36942	5.258	4.617	1.5843	3.32348	4.99E+01	6.14E+00	1.45E-03	8.34E-02	1.65E+00	4.34E-01	1.12E+01	2.26E+01	4.69E+01
5986	482690.49	3855119.42	7.00146	3.64852	22.50035	2.44894	5.405	4.857	1.6301	3.64852	4.88E+01	6.74E+00	2.34E-03	8.62E-02	1.69E+00	4.57E-01	1.15E+01	2.48E+01	4.45E+01
5987	482689.09	3855019.57	6.87296	4.0462	21.22724	2.516	5.368	5.408	1.7496	4.0462	4.79E+01	7.47E+00	2.21E-03	8.86E-02	1.68E+00	5.08E-01	1.24E+01	2.75E+01	4.26E+01
5988	482687.68	3854919.71	6.79813	4.28793	7.93484	2.52474	5.219	7.004	1.8598	4.28793	4.74E+01	7.92E+00	8.26E-04	8.89E-02	1.64E+00	6.58E-01	1.32E+01	2.92E+01	4.17E+01
5989	482686.28	3854819.86	6.70823	4.46629	10.57333	2.63632	5.184	11.64	2.0039	4.46629	4.68E+01	8.25E+00	1.10E-03	9.28E-02	1.62E+00	1.09E+00	1.42E+01	3.04E+01	4.17E+01
5990	482684.88	3854720.01	6.58254	4.62721	15.64573	2.82325	4.979	13.41	2.1813	4.62721	4.59E+01	8.55E+00	1.63E-03	9.94E-02	1.56E+00	1.26E+00	1.55E+01	3.15E+01	4.13E+01
5991	482683.47	3854620.16	6.41557	4.91774	17.08977	3.17182	4.9	12.93	2.3975	4.91774	4.47E+01	9.08E+00	1.78E-03	1.12E-01	1.54E+00	1.21E+00	1.70E+01	3.34E+01	4.02E+01
5992	482682.07	3854520.31	6.29274	5.65261	16.19227	3.39556	5.158	14.34	2.5692	5.65261	4.39E+01	1.04E+01	1.69E-03	1.20E-01	1.62E+00	1.35E+00	1.82E+01	3.84E+01	3.72E+01
5993	482680.66	3854420.45	6.28723	6.10091	14.1131	3.72581	5.366	15.06	2.7243	6.10091	4.38E+01	1.13E+01	1.47E-03	1.31E-01	1.68E+00	1.42E+00	1.93E+01	4.15E+01	3.61E+01
5994	482679.26	3854320.6	6.28774	6.48277	7.84864	3.89353	5.541	13.57	2.9205	6.48277	4.38E+01	1.20E+01	8.17E-04	1.37E-01	1.74E+00	1.28E+00	2.07E+01	4.41E+01	3.56E+01
5995	482677.85	3854220.75	6.45525	7.54344	4.58686	3.99105	5.71	14.13	3.335	7.54344	4.50E+01	1.39E+01	4.78E-04	1.40E-01	1.79E+00	1.33E+00	2.36E+01	5.13E+01	3.45E+01
5996	482676.45	3854120.9	6.55183	7.30275	3.41728	4.1841	5.604	14.53	3.6777	7.30275	4.57E+01	1.35E+01	3.56E-04	1.47E-01	1.76E+00	1.37E+00	2.61E+01	4.97E+01	3.88E+01
5997	482675.04	3854021.04	6.53526	6.89199	3.3636	4.6077	5.36	16.86	4.0023	6.89199	4.56E+01	1.27E+01	3.50E-04	1.62E-01	1.68E+00	1.59E+00	2.84E+01	4.69E+01	4.32E+01
5998	482673.64	3853921.19	6.49317	6.77726	3.21475	5.34073	5.039	11.93	4.8012	6.77726	4.53E+01	1.25E+01	3.35E-04	1.88E-01	1.58E+00	1.12E+00	3.40E+01	4.61E+01	4.86E+01
5999	482672.23	3853821.34	6.56786	6.54062	2.93987	6.1317	4.683	7.505	5.8311	6.54062	4.58E+01	1.21E+01	3.06E-04	2.16E-01	1.47E+00	7.05E-01	4.13E+01	4.45E+01	5.71E+01
6000	482670.83	3853721.48	6.56468	6.36975	2.7939	6.53653	4.216	5.574	5.6863	6.36975	4.58E+01	1.18E+01	2.91E-04	2.30E-01	1.32E+00	5.24E-01	4.03E+01	4.33E+01	5.66E+01
6001	482669.42	3853621.63	6.57836	6.23903	2.91567	5.64976	4.005	4.557	5.6453	6.23903	4.59E+01	1.15E+01	3.04E-04	1.99E-01	1.25E+00	4.28E-01	4.00E+01	4.24E+01	5.68E+01
6002	482645.99	3853446.13	6.55984	6.22154	3.15949	4.09544	3.664	4.15	6.6636	6.22154	4.57E+01	1.15E+01	3.29E-04	1.44E-01	1.15E+00	3.90E-01	4.72E+01	4.23E+01	6.38E+01
6003	482623.96	3853370.48	6.46683	6.18438	3.16708	4.03125	3.549	4.036	6.795	6.18438	4.51E+01	1.14E+01	3.30E-04	1.42E-01	1.11E+00	3.79E-01	4.81E+01	4.21E+01	6.42E+01
6004	482601.94	3853294.84	6.33749	6.46713	3.17562	4.25058	3.458	3.91	7.0863	6.46713	4.42E+01	1.19E+01	3.31E-04	1.50E-01	1.08E+00	3.68E-01	5.02E+01	4.40E+01	6.40E+01
6005	482531.29	3853133.44	5.98739	7.23683	2.92414	4.20963	3.292	3.488	7.8024	7.23683	4.17E+01	1.34E+01	3.04E-04	1.48E-01	1.03E+00	3.28E-01	5.53E+01	4.92E+01	6.27E+01
6006	482482.68	3853047.69	5.87701	7.97378	2.67172	4.04834	3.237	3.267	8.5625	7.97378	4.10E+01	1.47E+01	2.78E-04	1.42E-01	1.01E+00	3.07E-01	6.07E+01	5.42E+01	6.36E+01
6007	482383.08	3852897.4	5.6654	9.65859	2.34952	3.66144	3.133	2.988	9.9985	9.65859	3.95E+01	1.78E+01	2.45E-04	1.29E-01	9.82E-01	2.81E-01	7.08E+01	6.57E+01	6.39E+01
6008	482265.64	3852765.26	5.32496	10.54639	2.08538	3.38413	3.046	2.865	10.716	10.54639	3.71E+01	1.95E+01	2.17E-04	1.19E-01	9.54E-01	2.69E-01	7.59E+01	7.17E+01	6.22E+01
6009	482199.16	3852697.66	5.16326	10.53787	2.01689	3.26105	3.019	2.829	10.702	10.53787	3.60E+01	1.95E+01	2.10E-04	1.15E-01	9.46E-01	2.66E-01	7.58E+01	7.17E+01	6.10E+01
6010	482132.69	3852630.07	5.03381	10.44512	2.05013	3.14554	2.993	2.803	10.605	10.44512	3.51E+01	1.93E+01	2.13E-04	1.11E-01	9.38E-01	2.63E-01	7.51E+01	7.10E+01	5.98E+01
6011	482066.21	3852562.48	4.91928	10.29358	2.12572	3.03016	2.964	2.781	10.454	10.29358	3.43E+01	1.90E+01	2.21E-04	1.07E-01	9.29E-01	2.61E-01	7.41E+01	7.00E+01	5.87E+01
6012	481999.74	3852494.89	4.81319	10.07627	2.21527	2.91176	2.932	2.764	10.229	10.07627	3.36E+01	1.86E+01	2.31E-04	1.02E-01	9.19E-01	2.60E-01	7.25E+01	6.85E+01	5.74E+01
6013	481933.26	3852427.29	4.71456	9.7033	2.28646	2.79769	2.9	2.75	9.8505	9.7033	3.29E+01	1.79E+01	2.38E-04	9.85E-02	9.09E-01	2.58E-01	6.98E+01	6.60E+01	5.59E+01
6014	481866.79	3852359.7	4.632	9.58486	2.3194	2.69858	2.873	2.738	9.7357	9.58486	3.23E+01	1.77E+01	2.41E-04	9.50E-02	9.00E-01	2.57E-01	6.90E+01	6.52E+01	5.51E+01
6015	481800.31	3852292.11	4.55524	9.45543	2.33022	2.60409	2.849	2.724	9.599	9.45543	3.18E+01	1.75E+01	2.43E-04	9.17E-02	8.93E-01	2.56E-01	6.80E+01	6.43E+01	5.42E+01
6016	481733.84	3852224.52	4.47836	9.21586	2.32309	2.51064	2.824	2.708	9.3579	9.21586	3.12E+01	1.70E+01	2.42E-04	8.84E-02	8.85E-01	2.55E-01	6.63E+01	6.27E+01	5.31E+01
6017	481667.36	3852156.92	4.41664	9.20545	2.28789	2.42721	2.8	2.693	9.3529	9.20545	3.08E+01	1.70E+01	2.38E-04	8.54E-02	8.77E-01	2.53E-01	6.63E+01	6.26E+01	5.27E+01
6018	481600.89	3852089.33	4.3364	8.82281	2.24772	2.33275	2.768	2.659	8.9729	8.82281	3.02E+01	1.63E+01	2.34E-04	8.21E-02	8.67E-01	2.50E-01	6.36E+01	6.00E+01	5.13E+01
6019	481534.41	3852021.74	4.25321	8.4897	2.19112	2.24029	2.733	2.609	8.7522	8.4897	2.97E+01	1.57E+01	2.28E-04	7.88E-02	8.56E-01	2.45E-01	6.20E+01	5.77E+01	5.08E+01
6020	481467.94	3851954.15	4.1813	8.30028	2.11544	2.15583	2.701	2.555	8.6445	8.30028	2.92E+01	1.53E+01	2.20E-04	7.59E-02	8.46E-01	2.40E-01	6.12E+01	5.64E+01	5.05E+01
6021	481401.46	3851886.55	4.15208	8.55858	2.02054	2.0819	2.672	2.504	8.8883	8.55858	2.89E+01	1.58E+01	2.10E-04	7.33E-02	8.37E-01	2.35E-01	6.30E+01	5.82E+01	5.07E+01
6022	481265.87	3851761.43	4.09881	9.23779	1.80134	1.93466	2.612	2.376	9.3239	9.23779	2.86E+01	1.71E+01	1.88E-04	6.81E-02	8.18E-01	2.23E-01	6.61E+01	6.28E+01	5.00E+01
6023	481196.74	3851703.89	4.12645	9.76136	1.67108	1.8695	2.588	2.309	9.8328	9.76136	2.88E+01	1.80E+01	1.74E-04	6.58E-02	8.11E-01	2.17E-01	6.97E+01	6.64E+01	5.12E+01
6024	481076.33	3851619.04	4.15904	10.4152	1.43094	1.76263	2.551	2.179	10.466	10.4152	2.90E+01	1.92E+01	1.49E-04	6.20E-02	7.99E-01	2.05E-01	7.42E+01	7.08E+01	5.26E+01
6025	480939.8	3851549.07	4.02047	10.47656	1.14309	1.66634	2.516	2.027	10.529	10.47656	2.80E+01	1.93E+01	1.19E-04	5.86E-02	7.88E-01	1.91E-01	7.46E+01	7.12E+01	5.18E+01
6026	480854.56	3851506.41	3.92833	10.68203	1.00153	1.62566	2.488	1.955	10.758	10.68203	2.74E+01	1.97E+01	1.04E-04	5.72E-02	7.80E-01	1.84E-01	7.62E+01	7.26E+01	5.17E+01
6027	480769.32	3851463.75	3.84012	10.89128	0.88862	1.61237	2.457	1.975	11.015	10.89128	2.68E+01	2.01E+01	9.25E-05	5.67E-02	7.70E-01	1.86E-01	7.80E+01	7.41E+01	5.19E+01
6028	480684.08	3851421.08	3.76043	11.03028	0.81441	1.60116	2.422	2.006	11.203	11.03028	2.62E+01	2.04E+01	8.48E-05	5.64E-02	7.59E-01	1.89E-01	7.94E+01	7.50E+01	5.20E+01
6029	480598.84	3851378.42	3.62052	10.9506	0.82311	1.60614	2.38	2.046	11.162	10.9506	2.52E+01	2.02E+01	8.57E-05	5.65E-02	7.46E-01	1.92E-01	7.91E+01	7.45E+01	5.11E+01
6030	480435.71	3851275.01	3.61941	12.6618	0.81996	1.60563	2.313	2.099	13.003	12.6618	2.52E+01	2.34E+01	8.54E-05	5.65E-02	7.25E-01	1.97E-01	9.21E+01	8.61E+01	5.56E+01
6031	480347.85	3851232.36	3.56694	12.47891	0.82106	1.61279	2.266	2.149	12.865	12.47891	2.49E+01	2.30E+01	8.55E-05	5.68E-02	7.10E-01	2.02E-01	9.12E+01	8.49E+01	5.52E+01
6032	480260	3851189.72	3.51985	12.34277	0.82506	1.61253	2.217	2.197	12.768	12.34277	2.45E+01	2.28E+01	8.59E-05	5.68E-02	6.94E-01	2.07E-01	9.05E+01	8.39E+01	5.48E+01
6033	480172.15	3851147.07	3.48625	12.21502	0.82796	1.60441	2.166	2.239	12.676	12.21502	2.43E+01	2.26E+01	8.62E-05	5.65E-02	6.79E-01	2.10E-01	8.98E+01	8.31E+01	5.46E+01
6034	480084.29	3851104.42	3.48757	12.16356	0.82958	1.58859	2.115	2.27	12.653	12.16356	2.43E+01	2.25E+01	8.64E-05	5.59E-02	6.63E-01	2.13E-01	8.97E+01	8.27E+01	5.47E+01
6035	479996.44	3851061.77	3.52438	12.17371	0.83035	1.57222	2.063	2.288	12.694	12.17371	2.46E+01	2.25E+01	8.64E-05	5.53E-02	6.46E-01	2.15E-01	8.99E+01	8.28E+01	5.51E+01
6036	479908.58	3851019.13	3.52075	12.66367	0.83864	1.58271	2.009	2.282	13.226	12.66367	2.45E+01	2.34E+01	8.73E-05	5.57E-02	6.30E-01	2.14E-01	9.37E+01	8.61E+01	5.64E+01
6037	479820.73	3850976.48	3.43052	12.6703	0.86108	1.57492	1.95	2.261	13.25	12.6703	2.39E+01	2.34E+01	8.96E-05	5.54E-02	6.11E-01	2.12E-01	9.39E+01	8.62E+01	5.59E+01
6038	479732.88	3850933.83	3.33635	12.68382	0.8841	1.5586	1.898	2.217	13.261	12.68382	2.33E+01	2.34E+01	9.20E-05	5.49E-02	5.95E-01	2.08E-01	9.40E+01	8.62E+01	5.53E+01

6039	479645.02	3850891.18	3.24603	12.66424	0.90858	1.53368	1.858	2.152	13.237	12.66424	2.26E+01	2.34E+01	9.46E-05	5.40E-02	5.82E-01	2.02E-01	9.38E+01	8.61E+01	5.45E+01
6040	479557.17	3850848.54	3.17646	12.56935	0.9356	1.49797	1.818	2.06	13.121	12.56935	2.21E+01	2.32E+01	9.74E-05	5.27E-02	5.70E-01	1.94E-01	9.30E+01	8.55E+01	5.37E+01
6041	479469.32	3850805.89	3.1076	12.78816	0.95868	1.46286	1.778	1.942	13.33	12.78816	2.17E+01	2.36E+01	9.98E-05	5.15E-02	5.57E-01	1.83E-01	9.44E+01	8.70E+01	5.36E+01
6042	479381.46	3850763.24	3.01295	12.59734	0.99047	1.4125	1.741	1.81	13.117	12.59734	2.10E+01	2.33E+01	1.03E-04	4.97E-02	5.46E-01	1.70E-01	9.29E+01	8.57E+01	5.23E+01
6043	479293.61	3850720.59	2.87088	12.08757	1.02959	1.35167	1.707	1.673	12.578	12.08757	2.00E+01	2.23E+01	1.07E-04	4.76E-02	5.35E-01	1.57E-01	8.91E+01	8.22E+01	5.00E+01
6044	479205.76	3850677.95	2.71653	11.6543	1.06879	1.29046	1.674	1.531	12.106	11.6543	1.89E+01	2.15E+01	1.11E-04	4.54E-02	5.24E-01	1.44E-01	8.58E+01	7.92E+01	4.77E+01
6045	479117.9	3850635.3	2.65024	11.1322	1.11292	1.23077	1.64	1.397	11.53	11.1322	1.85E+01	2.06E+01	1.16E-04	4.33E-02	5.14E-01	1.31E-01	8.17E+01	7.57E+01	4.57E+01
6046	479030.05	3850592.65	2.6653	10.85387	1.1548	1.17314	1.611	1.271	11.217	10.85387	1.86E+01	2.00E+01	1.20E-04	4.13E-02	5.05E-01	1.20E-01	7.95E+01	7.38E+01	4.50E+01
6047	478942.19	3850550	2.68472	11.05978	1.18223	1.12021	1.591	1.148	11.415	11.05978	1.87E+01	2.04E+01	1.23E-04	3.94E-02	4.98E-01	1.08E-01	8.09E+01	7.52E+01	4.55E+01
6048	478854.34	3850507.36	2.69136	12.09936	1.18769	1.08773	1.562	1.022	12.48	12.09936	1.88E+01	2.23E+01	1.24E-04	3.83E-02	4.89E-01	9.61E-02	8.84E+01	8.23E+01	4.79E+01
6049	478766.49	3850464.71	2.63347	12.28045	1.21321	1.04569	1.356	0.939	12.637	12.28045	1.84E+01	2.27E+01	1.26E-04	3.68E-02	4.25E-01	8.83E-02	8.95E+01	8.35E+01	4.76E+01
6050	478678.63	3850422.06	2.53701	12.29045	1.2449	1.00395	1.313	0.873	12.641	12.29045	1.77E+01	2.27E+01	1.30E-04	3.53E-02	4.11E-01	8.21E-02	8.96E+01	8.36E+01	4.69E+01
6051	478590.78	3850379.41	2.46464	12.3671	1.27385	0.96225	1.267	0.813	12.7	12.3671	1.72E+01	2.28E+01	1.33E-04	3.39E-02	3.97E-01	7.64E-02	9.00E+01	8.41E+01	4.64E+01
6052	478502.93	3850336.77	2.4218	12.33381	1.30838	0.92398	1.24	0.765	12.651	12.33381	1.69E+01	2.28E+01	1.36E-04	3.25E-02	3.89E-01	7.20E-02	8.96E+01	8.39E+01	4.59E+01
6053	478415.07	3850294.12	2.39127	12.26977	1.3451	0.89005	1.223	0.753	12.564	12.26977	1.67E+01	2.27E+01	1.40E-04	3.13E-02	3.83E-01	7.08E-02	8.90E+01	8.34E+01	4.54E+01
6054	478327.22	3850251.47	2.37389	12.37484	1.37305	0.85294	1.19	0.738	12.667	12.37484	1.66E+01	2.29E+01	1.43E-04	3.00E-02	3.73E-01	6.93E-02	8.97E+01	8.41E+01	4.55E+01
6055	478239.36	3850208.82	2.34533	12.41339	1.40807	0.82161	1.167	0.725	12.693	12.41339	1.64E+01	2.29E+01	1.47E-04	2.89E-02	3.66E-01	6.81E-02	8.99E+01	8.44E+01	4.53E+01
6056	478151.51	3850166.18	2.31688	12.4069	1.44297	0.79659	1.152	0.715	12.672	12.4069	1.62E+01	2.29E+01	1.50E-04	2.80E-02	3.61E-01	6.72E-02	8.98E+01	8.44E+01	4.49E+01
6057	478063.66	3850123.53	2.29024	12.34637	1.47584	0.77552	1.143	0.708	12.61	12.34637	1.60E+01	2.28E+01	1.54E-04	2.73E-02	3.58E-01	6.65E-02	8.93E+01	8.40E+01	4.46E+01
6058	477975.8	3850080.88	2.23414	11.80448	1.54117	0.783	1.206	0.722	12.034	11.80448	1.56E+01	2.18E+01	1.60E-04	2.76E-02	3.78E-01	6.79E-02	8.53E+01	8.03E+01	4.28E+01
6059	477887.95	3850038.23	2.21843	11.61663	1.57402	0.7727	1.223	0.726	11.836	11.61663	1.55E+01	2.15E+01	1.64E-04	2.72E-02	3.83E-01	6.82E-02	8.39E+01	7.90E+01	4.23E+01
6060	477800.1	3849995.59	2.20426	11.19939	1.60376	0.76576	1.251	0.733	11.397	11.19939	1.54E+01	2.07E+01	1.67E-04	2.70E-02	3.92E-01	6.89E-02	8.08E+01	7.62E+01	4.11E+01
6061	477712.24	3849952.94	2.20051	11.04303	1.6197	0.75691	1.261	0.737	11.228	11.04303	1.53E+01	2.04E+01	1.69E-04	2.66E-02	3.95E-01	6.93E-02	7.96E+01	7.51E+01	4.07E+01
6062	477624.39	3849910.29	2.19715	10.85674	1.62914	0.74936	1.273	0.743	11.024	10.85674	1.53E+01	2.01E+01	1.70E-04	2.64E-02	3.99E-01	6.99E-02	7.81E+01	7.38E+01	4.01E+01
6063	477536.54	3849867.64	2.17982	10.54884	1.63323	0.74396	1.366	0.752	10.695	10.54884	1.52E+01	1.95E+01	1.70E-04	2.62E-02	4.28E-01	7.06E-02	7.58E+01	7.17E+01	3.93E+01
6064	477448.68	3849825	2.14856	10.43029	1.62816	0.73814	1.294	0.759	10.56	10.43029	1.50E+01	1.93E+01	1.70E-04	2.60E-02	4.05E-01	7.14E-02	7.48E+01	7.09E+01	3.86E+01
6065	477360.83	3849782.35	2.11891	10.24584	1.61742	0.73375	1.301	0.77	10.359	10.24584	1.48E+01	1.89E+01	1.68E-04	2.58E-02	4.08E-01	7.24E-02	7.34E+01	6.97E+01	3.79E+01
6066	477272.97	3849739.7	2.0983	10.02714	1.59718	0.7303	1.308	0.783	10.124	10.02714	1.46E+01	1.85E+01	1.66E-04	2.57E-02	4.10E-01	7.36E-02	7.17E+01	6.82E+01	3.72E+01
6067	477185.12	3849697.05	2.07546	9.71046	1.57569	0.72816	1.317	0.797	9.7902	9.71046	1.45E+01	1.79E+01	1.64E-04	2.56E-02	4.13E-01	7.49E-02	6.94E+01	6.60E+01	3.63E+01
6068	477097.27	3849654.41	2.06049	9.58939	1.55011	0.7266	1.321	0.809	9.6565	9.58939	1.44E+01	1.77E+01	1.61E-04	2.56E-02	4.14E-01	7.61E-02	6.84E+01	6.52E+01	3.58E+01
6069	477009.41	3849611.76	2.05383	9.83724	1.51089	0.72672	1.316	0.817	9.895	9.83724	1.43E+01	1.82E+01	1.57E-04	2.56E-02	4.12E-01	7.68E-02	7.01E+01	6.69E+01	3.62E+01
6070	476841.49	3849530.08	2.02002	9.62076	1.43205	0.72854	1.331	0.843	9.6711	9.62076	1.41E+01	1.78E+01	1.49E-04	2.56E-02	4.17E-01	7.93E-02	6.85E+01	6.54E+01	3.55E+01
6071	476761.41	3849491.05	2.00088	9.45804	1.39199	0.7298	1.341	0.858	9.5002	9.45804	1.39E+01	1.75E+01	1.45E-04	2.57E-02	4.20E-01	8.07E-02	6.73E+01	6.43E+01	3.49E+01
6072	476681.34	3849452.02	2.00245	9.51378	1.345	0.7308	1.348	0.87	9.5489	9.51378	1.40E+01	1.76E+01	1.40E-04	2.57E-02	4.22E-01	8.17E-02	6.77E+01	6.47E+01	3.50E+01
6073	476601.26	3849412.99	2.03191	9.87238	1.29269	0.73178	1.353	0.879	9.9017	9.87238	1.42E+01	1.82E+01	1.35E-04	2.58E-02	4.24E-01	8.27E-02	7.02E+01	6.71E+01	3.60E+01
6074	476456.32	3849353.67	2.10728	11.20686	1.16894	0.74574	1.378	0.904	11.274	11.20686	1.47E+01	2.07E+01	1.22E-04	2.62E-02	4.32E-01	8.50E-02	7.99E+01	7.62E+01	3.96E+01
6075	476305.43	3849318.83	2.04941	10.70658	1.02699	0.77568	1.465	0.961	10.812	10.70658	1.43E+01	1.98E+01	1.07E-04	2.73E-02	4.59E-01	9.04E-02	7.66E+01	7.28E+01	3.84E+01
6076	476129.36	3849289.99	2.0476	10.86499	0.82357	0.81241	1.569	1.01	10.962	10.86499	1.43E+01	2.01E+01	8.57E-05	2.86E-02	4.92E-01	9.49E-02	7.77E+01	7.39E+01	3.88E+01
6077	476039.31	3849275.68	2.05366	10.75281	0.73084	0.82786	1.614	1.021	10.841	10.75281	1.43E+01	1.99E+01	7.61E-05	2.91E-02	5.06E-01	9.60E-02	7.68E+01	7.31E+01	3.85E+01
6078	475949.26	3849261.38	2.09343	11.38193	0.63608	0.8624	1.672	1.027	11.462	11.38193	1.46E+01	2.10E+01	6.62E-05	3.04E-02	5.24E-01	9.66E-02	8.12E+01	7.74E+01	4.01E+01
6079	475859.21	3849247.08	2.12447	11.64741	0.57921	0.87647	1.711	1.023	11.716	11.64741	1.48E+01	2.15E+01	6.03E-05	3.08E-02	5.36E-01	9.62E-02	8.30E+01	7.92E+01	4.08E+01
6080	475769.16	3849232.77	2.2214	12.12031	0.53155	0.89282	1.749	1.011	12.172	12.12031	1.55E+01	2.24E+01	5.53E-05	3.14E-02	5.48E-01	9.50E-02	8.62E+01	8.24E+01	4.24E+01
6081	475585.22	3849219.27	2.02638	11.47754	0.36052	0.97574	1.86	0.932	11.552	11.47754	1.41E+01	2.12E+01	3.75E-05	3.43E-02	5.83E-01	8.76E-02	8.19E+01	7.80E+01	3.98E+01
6082	475444.49	3849150.34	2.71417	14.80565	0.4157	0.93874	1.861	0.941	14.862	14.80565	1.89E+01	2.73E+01	4.33E-05	3.30E-02	5.83E-01	8.84E-02	1.05E+02	1.01E+02	5.16E+01
6083	475334.17	3849118.71	2.71052	14.62984	0.44791	0.92419	1.853	0.915	14.714	14.62984	1.89E+01	2.70E+01	4.66E-05	3.25E-02	5.81E-01	8.60E-02	1.04E+02	9.95E+01	5.14E+01
6084	475230.46	3849060.57	2.74685	15.22652	0.45439	0.91482	1.837	0.899	15.306	15.22652	1.92E+01	2.81E+01	4.73E-05	3.22E-02	5.76E-01	8.45E-02	1.08E+02	1.04E+02	5.29E+01
6085	475110.86	3848960.97	2.43918	14.71568	0.43284	0.90263	1.81	0.891	14.862	14.71568	1.70E+01	2.72E+01	4.51E-05	3.18E-02	5.67E-01	8.38E-02	1.05E+02	1.00E+02	5.01E+01
6086	475037.79	3848896.28	2.50058	12.75351	0.41249	0.90186	1.795	0.885	12.87	12.75351	1.74E+01	2.36E+01	4.29E-05	3.17E-02	5.62E-01	8.32E-02	9.12E+01	8.67E+01	4.61E+01
6087	474964.72	3848831.59	2.57459	13.01017	0.39438	0.90076	1.775	0.877	13.378	13.01017	1.79E+01	2.40E+01	4.11E-05	3.17E-02	5.56E-01	8.24E-02	9.48E+01	8.85E+01	4.90E+01
6088	474891.65	3848766.9	2.53846	13.15594	0.38246	0.8919	1.751	0.87	13.518	13.15594	1.77E+01	2.43E+01	3.98E-05	3.14E-02	5.48E-01	8.18E-02	9.58E+01	8.95E+01	4.90E+01
6089	474818.58	3848702.22	2.4884	13.08985	0.3731	0.88069	1.724	0.864	13.446	13.08985	1.73E+01	2.42E+01	3.88E-05	3.10E-02	5.40E-01	8.12E-02	9.53E+01	8.90E+01	4.84E+01
6090	474745.51	3848637.53	2.29145	12.15371	0.37463	0.84881	1.686	0.859	12.487	12.15371	1.60E+01	2.24E+01	3.90E-05	2.99E-02	5.28E-01	8.07E-02	8.85E+01	8.26E+01	4.49E+01
6091	474672.44	3848572.84	2.12552	11.96825	0.37219	0.83291	1.656	0.849	12.29	11.96825	1.48E+01	2.21E+01	3.87E-05	2.93E-02	5.19E-01	7.98E-02	8.71E+01	8.14E+01	4.32E+01
6092	474599.37	3848508.15	2.11353	12.48449	0.35763	0.82589	1.632	0.844	12.808	12.48449	1.47E+01	2.31E+01	3.72E-05	2.91E-02	5.11E-01	7.93E-02	9.07E+01	8.49E+01	4.43E+01
6093	474526.3	3848443.46	2.07569	12.56153	0.3502	0.81453	1.608	0.836	12.88	12.56153	1.45E+01	2.32E+01	3.65E-05	2.87E-02	5.04E-01	7.86E-02	9.13E+01	8.54E+01	4.41E+01

NOx
1hr 8th
Concentration [ug/m^3] at 1 g/s

	X	Y	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex Main
1	485973.61	3854936.51	2.96429	0.3088	1.66234	1.95725	0.466	1.188	1.1487	0.3088
2	486023.61	3854936.51	2.90921	0.30711	1.57562	1.83166	0.47	1.135	1.1004	0.30711
3	486073.61	3854936.51	2.81364	0.29952	1.531	1.77068	0.486	1.097	1.0638	0.29952
4	486123.61	3854936.51	2.7358	0.27798	1.48208	1.66661	0.506	1.024	1.0058	0.27798
5	486173.61	3854936.51	2.69785	0.27606	1.47188	1.62399	0.509	1.002	0.9871	0.27606
6	486223.61	3854936.51	2.63472	0.26641	1.45697	1.53692	0.517	0.947	0.9549	0.26641
7	486273.61	3854936.51	2.57998	0.26336	1.42413	1.46966	0.552	0.915	0.9249	0.26336
8	486323.61	3854936.51	2.5247	0.26148	1.41586	1.42056	0.593	0.894	0.8985	0.26148
9	485973.61	3854986.51	3.02744	0.3108	1.57632	2.11222	0.471	1.287	1.2222	0.3108
10	486023.61	3854986.51	2.97611	0.30938	1.50045	2.00331	0.486	1.23	1.1645	0.30938
11	486073.61	3854986.51	2.92466	0.30862	1.47226	1.90285	0.486	1.167	1.1312	0.30862
12	486123.61	3854986.51	2.87332	0.3043	1.42953	1.83446	0.515	1.116	1.0891	0.3043
13	486173.61	3854986.51	2.78634	0.29136	1.45677	1.76811	0.522	1.093	1.0488	0.29136
14	486223.61	3854986.51	2.72498	0.27823	1.46995	1.69452	0.522	1.054	0.9953	0.27823
15	486273.61	3854986.51	2.66496	0.26869	1.4315	1.62158	0.534	1.011	0.9619	0.26869
16	486323.61	3854986.51	2.62974	0.27128	1.41134	1.60967	0.587	1.003	0.9581	0.27128
17	485973.61	3855036.51	3.10466	0.31386	1.54854	2.15492	0.467	1.409	1.2497	0.31386
18	486023.61	3855036.51	3.04879	0.31171	1.52043	2.0568	0.494	1.355	1.217	0.31171
19	486073.61	3855036.51	2.99204	0.30819	1.51322	1.963	0.508	1.275	1.1921	0.30819
20	486123.61	3855036.51	2.93798	0.30781	1.47387	1.85686	0.505	1.212	1.1367	0.30781
21	486173.61	3855036.51	2.8929	0.30936	1.49537	1.79852	0.546	1.17	1.1062	0.30936
22	486223.61	3855036.51	2.80629	0.29584	1.44919	1.71187	0.537	1.118	1.0756	0.29584
23	486273.61	3855036.51	2.76855	0.28435	1.42875	1.6771	0.541	1.101	1.0451	0.28435
24	486323.61	3855036.51	2.71838	0.27687	1.3648	1.6276	0.578	1.068	0.9943	0.27687
25	485973.61	3855086.51	3.17975	0.32702	1.62458	2.32249	0.486	1.487	1.3143	0.32702
26	486023.61	3855086.51	3.12371	0.32072	1.57376	2.23894	0.482	1.451	1.2561	0.32072
27	486073.61	3855086.51	3.06534	0.31182	1.53242	2.12689	0.511	1.38	1.2119	0.31182
28	486123.61	3855086.51	3.01535	0.31221	1.54345	2.01453	0.529	1.325	1.189	0.31221
29	486173.61	3855086.51	2.96616	0.3086	1.50356	1.88698	0.533	1.241	1.1699	0.3086
30	486223.61	3855086.51	2.92202	0.30897	1.41109	1.82872	0.566	1.185	1.1301	0.30897
31	485973.61	3855136.51	3.22527	0.34977	1.59372	2.35758	0.493	1.556	1.3916	0.34977
32	486023.61	3855136.51	3.18411	0.33723	1.57332	2.25735	0.499	1.505	1.3496	0.33723
33	486073.61	3855136.51	3.14492	0.32765	1.53316	2.19214	0.519	1.441	1.2973	0.32765
34	486123.61	3855136.51	3.09551	0.31923	1.49982	2.09972	0.532	1.396	1.2207	0.31923
35	486173.61	3855136.51	3.04571	0.31334	1.45058	2.02295	0.548	1.337	1.1714	0.31334
36	486223.61	3855136.51	2.99638	0.31301	1.41342	1.93426	0.561	1.288	1.1459	0.31301
37	485973.61	3855186.51	3.26726	0.37743	1.81791	2.49623	0.501	1.638	1.4207	0.37743
38	486023.61	3855186.51	3.23337	0.36478	1.75431	2.40127	0.513	1.573	1.4118	0.36478
39	486073.61	3855186.51	3.20466	0.34623	1.6507	2.22082	0.51	1.502	1.3662	0.34623
40	486123.61	3855186.51	3.16918	0.33142	1.5764	2.11783	0.544	1.424	1.3134	0.33142
41	486173.61	3855186.51	3.1195	0.32348	1.49062	2.04939	0.552	1.373	1.2861	0.32348
42	486223.61	3855186.51	3.0693	0.31597	1.40266	1.98256	0.574	1.316	1.2301	0.31597
43	486273.61	3855186.51	3.01931	0.31081	1.39962	1.90549	0.597	1.256	1.1631	0.31081
44	486323.61	3855186.51	2.97725	0.31628	1.43041	1.89047	0.59	1.244	1.1389	0.31628
45	485973.61	3855236.51	3.31771	0.40813	1.69693	2.76535	0.517	1.712	1.4937	0.40813
46	486023.61	3855236.51	3.28503	0.3854	1.68164	2.57634	0.523	1.656	1.4166	0.3854
47	486073.61	3855236.51	3.26155	0.36571	1.62433	2.35495	0.531	1.568	1.3518	0.36571
48	486123.61	3855236.51	3.22484	0.35223	1.54642	2.24647	0.554	1.51	1.3097	0.35223
49	486173.61	3855236.51	3.18416	0.33955	1.54013	2.13651	0.569	1.443	1.2706	0.33955
50	486223.61	3855236.51	3.13858	0.3278	1.54672	2.01003	0.573	1.352	1.2276	0.3278
51	486273.61	3855236.51	3.08557	0.31535	1.51905	1.8806	0.596	1.251	1.1745	0.31535
52	486323.61	3855236.51	3.04573	0.32465	1.54963	1.90198	0.631	1.278	1.2006	0.32465
53	485973.61	3855286.51	3.39135	0.42713	1.68272	2.93945	0.562	1.809	1.5375	0.42713
54	486023.61	3855286.51	3.36576	0.41237	1.58613	2.69573	0.538	1.732	1.505	0.41237
55	486073.61	3855286.51	3.32749	0.39266	1.59331	2.5687	0.545	1.655	1.4495	0.39266

Rates (g/s): 1.04E+01 1.85E+00 1.04E-04 5.27E-02 4.69E-01 1.41E-01 7.09E+00 6.80E+00

Unmitigated
Concentration [ug/m^3]

	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex M	Total
1	30.9287179	0.570330648	0.0001731	0.103096	0.218385	0.16715	8.139237	2.09979387	38.0273
2	30.3540259	0.567209343	0.000164	0.096481	0.220247	0.159681	7.796802	2.08830212	37.10631
3	29.3568706	0.553191177	0.0001594	0.093269	0.227824	0.15439	7.537336	2.03669126	35.88635
4	28.544706	0.513408398	0.0001543	0.087787	0.237264	0.143994	7.126739	1.89022247	34.76383
5	28.1487444	0.509862301	0.0001532	0.085542	0.238624	0.140984	6.994031	1.87716676	34.24077
6	27.4900606	0.492039468	0.0001517	0.080956	0.242366	0.133251	6.765669	1.8115482	33.39295
7	26.918916	0.486406345	0.0001483	0.077413	0.258834	0.12878	6.553463	1.79080866	32.63315
8	26.3421373	0.482934125	0.0001474	0.074827	0.277975	0.12583	6.365913	1.77802494	31.89174
9	31.5876104	0.574024499	0.0001641	0.111259	0.220941	0.181089	8.659657	2.11339357	39.22135
10	31.0520451	0.571401864	0.0001562	0.105523	0.228078	0.173049	8.250832	2.10373778	38.27735
11	30.5152276	0.569998201	0.0001533	0.100231	0.22811	0.164148	8.014677	2.0985699	37.49397
12	29.9795579	0.562019482	0.0001488	0.096628	0.24132	0.157007	7.716666	2.06919454	36.68415
13	29.0720287	0.538120264	0.0001517	0.093134	0.244813	0.153774	7.431197	1.98120447	35.55201
14	28.4318126	0.51387013	0.000153	0.089257	0.244992	0.148271	7.051776	1.89192244	34.58821
15	27.8055777	0.496250459	0.000149	0.085415	0.250473	0.142251	6.815621	1.82705186	33.76869
16	27.4381004	0.501033996	0.0001469	0.084788	0.275387	0.141074	6.788626	1.84466347	33.38449
17	32.3933061	0.579676091	0.0001612	0.113508	0.219065	0.198233	8.854575	2.13420111	40.22432
18	31.8103714	0.575705201	0.0001583	0.10834	0.231515	0.190573	8.62253	2.11958143	39.41961
19	31.218255	0.569204023	0.0001575	0.103399	0.238183	0.179398	8.446671	2.09564596	38.65962
20	30.6542054	0.568502191	0.0001534	0.097808	0.236912	0.170558	8.053717	2.09306202	37.68879
21	30.1838511	0.571364926	0.0001557	0.094735	0.255927	0.164624	7.83811	2.10360179	37.00517
22	29.2801824	0.546394491	0.0001509	0.090171	0.251824	0.157322	7.621014	2.01166781	35.93539
23	28.8864119	0.525173315	0.0001487	0.08834	0.253526	0.154857	7.40484	1.93353752	35.37976
24	28.3629497	0.511358311	0.0001421	0.085732	0.271242	0.150266	7.045258	1.88267464	34.54427
25	33.1767778	0.603981633	0.0001691	0.122335	0.227745	0.209126	9.312502	2.22368715	41.42895
26	32.5920694	0.592346002	0.0001638	0.117934	0.225902	0.204153	8.899922	2.18084809	40.45164
27	31.9830503	0.575908363	0.0001595	0.112032	0.239421	0.194127	8.586749	2.12032942	39.57112
28	31.4614662	0.576628664	0.0001607	0.106114	0.247913	0.18638	8.424636	2.12298136	38.88032
29	30.9482291	0.569961262	0.0001565	0.099395	0.250009	0.174633	8.288951	2.0984339	38.2329
30	30.4876825	0.570644625	0.0001469	0.096326	0.265586	0.166733	8.00745	2.10094984	37.49362
31	33.651723	0.645999192	0.0001659	0.124183	0.231271	0.218932	9.860201	2.37838375	42.35409
32	33.2222691	0.622838744	0.0001638	0.118904	0.233995	0.211679	9.562049	2.29311362	41.67878
33	32.8133696	0.605145197	0.0001596	0.115469	0.243552	0.202662	9.191909	2.22797105	40.9443
34	32.2978371	0.589594082	0.0001561	0.110601	0.24946	0.196378	8.649383	2.17071631	39.92269
35	31.7782354	0.57871569	0.000151	0.106557	0.256836	0.18806	8.300075	2.13066519	39.07796
36	31.2635376	0.578106205	0.0001471	0.101885	0.263017	0.181235	8.119257	2.12842124	38.37876
37	34.089837	0.697085156	0.0001893	0.131487	0.234732	0.230423	10.06624	2.56646762	42.88353
38	33.7362365	0.673721547	0.0001826	0.126485	0.240523	0.221352	10.00297	2.48044951	42.52102
39	33.436683	0.639461076	0.0001718	0.11698	0.239336	0.211363	9.680303	2.35431228	41.96999
40	33.0664929	0.612108106	0.0001641	0.111555	0.255115	0.200305	9.305771	2.25360649	41.29791
41	32.5481432	0.597443516	0.0001552	0.10795	0.258721	0.193085	9.112766	2.19961568	40.61865
42	32.024368	0.583573105	0.000146	0.10443	0.268939	0.185141	8.715561	2.1485488	39.73361
43	31.5027839	0.574042968	0.0001457	0.10037	0.280039	0.17667	8.240983	2.11346157	38.76157
44	31.0639396	0.584145652	0.0001489	0.099579	0.27662	0.174957	8.069801	2.15065675	38.11853
45	34.6162206	0.753785775	0.0001767	0.145662	0.242323	0.240774	10.58333	2.77522303	43.80705
46	34.2752451	0.711805154	0.0001751	0.135706	0.245034	0.233022	10.03719	2.62066243	43.01752
47	34.0302602	0.675439188	0.0001691	0.124045	0.248888	0.220637	9.577707	2.48677337	42.39037
48	33.6472365	0.65054263	0.000161	0.118331	0.259917	0.212463	9.279839	2.39511138	41.77338
49	33.2227908	0.627123612	0.0001603	0.112539	0.26681	0.203016	9.00273	2.30888928	41.12628
50	32.7472195	0.605422235	0.000161	0.105876	0.26847	0.19024	8.697847	2.22899103	40.38625
51	32.1941254	0.582428011	0.0001581	0.099059	0.279532	0.175974	8.321898	2.14433289	39.50884
52	31.7784441	0.599604419	0.0001613	0.100185	0.295926	0.17975	8.506684	2.2075715	39.25318
53	35.3845634	0.788877362	0.0001752	0.154833	0.263584	0.254419	10.89339	2.90442019	44.83542
54	35.1175632	0.761616739	0.0001651	0.141995	0.252283	0.243711	10.66368	2.8040544	44.37696
55	34.7182629	0.725213834	0.0001659	0.135304	0.255659	0.232887	10.27037	2.67002934	43.66784

56	486123.61	3855286.51	3.28685	0.37054	1.58795	2.44837	0.549	1.56	1.3153	0.37054	34.2942345	0.684359839	0.0001653	0.128966	0.257202	0.219465	9.319021	2.51961665	42.3838
57	486173.61	3855286.51	3.24136	0.35658	1.57987	2.3079	0.578	1.487	1.2704	0.35658	33.8196024	0.658576756	0.0001645	0.121566	0.271063	0.209133	9.00103	2.42469073	41.65645
58	486223.61	3855286.51	3.19799	0.34483	1.60805	2.17723	0.597	1.443	1.2368	0.34483	33.3670898	0.63687538	0.0001674	0.114684	0.279907	0.202999	8.763033	2.34479249	41.01996
59	486123.61	3855336.51	3.37246	0.39551	1.87218	2.46948	0.57	1.672	1.3697	0.39551	35.1874695	0.730477573	0.0001949	0.130078	0.267317	0.23522	9.704677	2.68940892	43.56602
60	486173.61	3855336.51	3.32281	0.37464	1.93258	2.36573	0.598	1.59	1.3028	0.37464	34.6694329	0.691932234	0.0002012	0.124613	0.280362	0.223715	9.230525	2.54749603	42.67328
61	486223.61	3855336.51	3.27341	0.36487	1.8111	2.26204	0.605	1.504	1.2195	0.36487	34.1540047	0.67388777	0.0001885	0.119151	0.283841	0.211604	8.640739	2.48106149	41.60236
62	486123.61	3855386.51	3.46426	0.41855	2.06141	2.60715	0.583	1.7	1.3763	0.41855	36.1452895	0.77303074	0.0002146	0.137329	0.273553	0.239105	9.751653	2.84607747	44.4741
63	486173.61	3855386.51	3.41558	0.40626	2.15145	2.46216	0.598	1.632	1.3215	0.40626	35.6373736	0.750332024	0.000224	0.129692	0.280221	0.229629	9.363446	2.76250731	43.62841
64	486223.61	3855386.51	3.36247	0.38531	2.19163	2.33242	0.624	1.571	1.2474	0.38531	35.0832361	0.711638931	0.0002282	0.122858	0.292751	0.221045	8.838208	2.62005044	42.64992
65	486533.18	3855443.15	3.13321	0.35326	2.23772	1.89761	0.727	1.294	1.0508	0.35326	32.6911902	0.652444963	0.000233	0.099955	0.341054	0.182103	7.444943	2.40211523	39.00981
66	486583.18	3855443.15	3.08898	0.34336	2.05014	1.79571	0.761	1.229	1.0379	0.34336	32.2297046	0.634160399	0.0002134	0.094587	0.356852	0.17294	7.353683	2.33479671	38.50734
67	486633.18	3855443.15	3.04953	0.33533	1.97868	1.70796	0.835	1.164	1.0211	0.33533	31.8180924	0.619329586	0.000206	0.089965	0.391533	0.163801	7.235145	2.28019391	38.03788
68	486683.18	3855443.15	3.00538	0.332	1.97516	1.66375	0.869	1.144	1.0047	0.332	31.3574415	0.613179323	0.0002056	0.087636	0.407439	0.160956	7.118733	2.2575504	37.48804
69	486533.18	3855493.15	3.23145	0.36439	2.2559	1.9149	0.76	1.291	1.0744	0.36439	33.7162037	0.673001246	0.0002349	0.100866	0.356393	0.181676	7.612512	2.47779756	40.16309
70	486583.18	3855493.15	3.14933	0.35948	2.18945	1.85096	0.77	1.26	1.0545	0.35948	32.8593826	0.663932841	0.0002279	0.097498	0.361012	0.177292	7.4713	2.4444103	39.18623
71	486633.18	3855493.15	3.1107	0.35136	2.0867	1.76078	0.827	1.236	1.0178	0.35136	32.4563261	0.648935804	0.0002172	0.092747	0.387693	0.173868	7.211339	2.38919551	38.58193
72	486683.18	3855493.15	3.07194	0.34313	2.16306	1.69394	0.886	1.213	0.9764	0.34313	32.0519132	0.633735606	0.0002252	0.089227	0.415617	0.170666	6.918146	2.33323274	37.9463
73	486533.18	3855543.15	3.33852	0.37354	2.54675	1.97119	0.766	1.317	1.1014	0.37354	34.8333474	0.689900616	0.0002651	0.103831	0.359211	0.185202	7.803604	2.5400162	41.43534
74	486583.18	3855543.15	3.24603	0.36574	2.53477	1.87453	0.81	1.264	1.0744	0.36574	33.8683281	0.675494595	0.0002639	0.098739	0.379604	0.177793	7.612157	2.48697736	40.3254
75	486633.18	3855543.15	3.19011	0.36009	2.46015	1.81232	0.81	1.224	1.0489	0.36009	33.2848717	0.665059465	0.0002561	0.095462	0.379637	0.172174	7.431977	2.44855821	39.58088
76	486683.18	3855543.15	3.15475	0.35111	2.38327	1.7252	0.898	1.185	1.0118	0.35111	32.9159336	0.648474073	0.0002481	0.090873	0.421033	0.166726	7.168968	2.38749555	39.02476
77	486533.18	3855593.15	3.44956	0.389	2.88993	2.03308	0.784	1.326	1.1062	0.389	35.9919131	0.718454087	0.0003009	0.107091	0.367689	0.186536	7.83811	2.64514189	42.56495
78	486583.18	3855593.15	3.34766	0.37492	2.84297	1.93711	0.81	1.272	1.0712	0.37492	34.928712	0.692449373	0.000296	0.102035	0.379764	0.178963	7.589697	2.54939999	41.32252
79	486633.18	3855593.15	3.26335	0.3692	2.73065	1.86681	0.868	1.234	1.0432	0.3692	34.0490409	0.681884958	0.0002843	0.098332	0.407144	0.173567	7.391448	2.51050485	40.2912
80	486683.18	3855593.15	3.22575	0.3639	2.66167	1.80452	0.898	1.207	1.0306	0.3639	33.6567312	0.672096252	0.0002771	0.095051	0.421305	0.169841	7.302456	2.47446564	39.84329
81	486533.18	3855643.15	3.56453	0.41179	2.79346	2.12468	0.811	1.375	1.1216	0.41179	37.1914836	0.760545523	0.0002908	0.111916	0.380359	0.19347	7.947012	2.80011048	43.78497
82	486583.18	3855643.15	3.47062	0.3909	2.68561	2.03216	0.83	1.286	1.0861	0.3909	36.2116483	0.721963245	0.0002796	0.107042	0.389362	0.180958	7.695694	2.6580616	42.64889
83	486633.18	3855643.15	3.36567	0.378	2.58336	1.94514	0.882	1.244	1.0433	0.378	35.1166242	0.698137904	0.0002689	0.102458	0.413643	0.174942	7.392369	2.57034353	41.3281
84	486683.18	3855643.15	3.29729	0.37284	2.4965	1.87689	0.936	1.21	1.0243	0.37284	34.4031631	0.688607768	0.0002599	0.098863	0.438758	0.170264	7.257606	2.5352563	40.52227
85	486533.18	3855693.15	3.65069	0.43811	2.80737	2.29088	0.838	1.422	1.1471	0.43811	38.0904571	0.809156606	0.0002923	0.12067	0.393147	0.199996	8.127759	2.97908255	44.76239
86	486583.18	3855693.15	3.58593	0.41484	2.69521	2.11197	0.852	1.334	1.1043	0.41484	37.4147662	0.766178646	0.0002806	0.111246	0.399693	0.187597	7.824577	2.82085003	43.88349
87	486633.18	3855693.15	3.49575	0.38941	2.60598	1.9967	0.882	1.245	1.065	0.38941	36.4738489	0.719211326	0.0002713	0.105174	0.41362	0.175139	7.545768	2.64792983	42.7851
88	486683.18	3855693.15	3.38461	0.37843	2.60933	1.95665	0.966	1.224	1.0384	0.37843	35.3142398	0.698932082	0.0002716	0.103065	0.453187	0.172235	7.357651	2.57326747	41.52631
89	486733.18	3855693.15	3.31972	0.3805	2.62164	1.94429	1.014	1.217	1.0422	0.3805	34.6371925	0.702755218	0.0002729	0.102414	0.475362	0.171176	7.384434	2.58734316	40.88626
90	486783.18	3855693.15	3.25883	0.38449	2.67996	1.94188	1.062	1.224	1.0651	0.38449	34.0018803	0.710124452	0.000279	0.102287	0.498199	0.172186	7.546547	2.61447456	40.41703
91	486533.18	3855743.15	3.73118	0.45291	3.06228	2.44639	0.876	1.489	1.1729	0.45291	38.9302712	0.836491106	0.0003188	0.128861	0.410726	0.209404	8.310349	3.07972034	45.7467
92	486583.18	3855743.15	3.69663	0.43325	2.96488	2.19755	0.891	1.375	1.1137	0.43325	38.5697845	0.800180548	0.0003087	0.115754	0.417896	0.193491	7.890754	2.94603528	45.04213
93	486633.18	3855743.15	3.60428	0.41586	2.86936	2.07949	0.897	1.288	1.0926	0.41586	37.6062259	0.76806251	0.0002987	0.109535	0.420494	0.181159	7.741749	2.82778588	43.99974
94	486683.18	3855743.15	3.48824	0.40539	2.843	2.04907	0.965	1.261	1.099	0.40539	36.3954913	0.748725198	0.000296	0.107933	0.452427	0.177394	7.786599	2.75659144	42.91227
95	486733.18	3855743.15	3.4017	0.39252	2.75306	1.99036	1.086	1.231	1.0928	0.39252	35.4925529	0.724955265	0.0002866	0.10484	0.509021	0.173222	7.742741	2.66907736	42.07854
96	486783.18	3855743.15	3.33272	0.39493	2.69415	2.04019	1.103	1.242	1.0845	0.39493	34.7728315	0.729406356	0.0002805	0.107465	0.51734	0.174749	7.68372	2.685465	41.30033
97	486533.18	3855793.15	3.79906	0.46297	3.14528	2.59483	0.918	1.54	1.2266	0.46297	39.6385155	0.855071178	0.0003274	0.13668	0.430543	0.216696	8.690904	3.14812684	46.82061
98	486583.18	3855793.15	3.8105	0.44109	3.02344	2.29736	0.93	1.401	1.1277	0.44109	39.7578778	0.814660445	0.0003148	0.121011	0.436114	0.197081	7.990445	2.99934611	46.31816
99	486633.18	3855793.15	3.6955	0.44081	2.99883	2.24076	0.952	1.386	1.1433	0.44081	38.5579943	0.814143306	0.0003122	0.11803	0.446603	0.194912	8.10048	2.99744215	45.23503
100	486683.18	3855793.15	3.57664	0.43818	3.03008	2.21603	0.968	1.338	1.1458	0.43818	37.3178365	0.809285891	0.0003154	0.116727	0.454031	0.188172	8.11869	2.97955854	44.0255
101	486733.18	3855793.15	3.4658	0.42482	2.9167	2.19894	1.101	1.288	1.1262	0.42482	36.1613575	0.784610964	0.0003036	0.115827	0.516285	0.181147	7.979675	2.88871254	42.85049
102	486783.18	3855793.15	3.3967	0.41519	2.79284	2.21026	1.179	1.266	1.1102	0.41519	35.4403841	0.76682507	0.0002908	0.116423	0.552846	0.178114	7.865955	2.82322998	42.09761
103	486533.18	3855843.15	3.8877	0.46526	3.22306	2.70084	1.14	1.564	1.2621	0.46526	40.5633648	0.859300638	0.0003355	0.142264	0.534432	0.220011	8.942221	3.1636985	48.09823
104	486583.18	3855843.15	3.88061	0.44931	3.11324	2.43296	0.97	1.452	1.1857	0.44931	40.4893894	0.829842174	0.0003241	0.128154	0.454748	0.204232	8.401254	3.05524088	47.4527
105	486633.18	3855843.15	3.79135	0.45163	3.08155	2.40869	0.995	1.437	1.1814	0.45163	39.5580711	0.834127041	0.0003208	0.126876	0.466467	0.2022	8.370858	3.07101653	46.4879
106	486683.18	3855843.15	3.6711	0.45311	2.94629	2.42104	1.017	1.415	1.181	0.45311	38.3034104	0.836860491	0.0003067	0.127526	0.47705	0.199074	8.367811	3.08108031	45.23096
107	486733.18	3855843.15	3.55335	0.45702	2.88128	2.40518	1.079	1.394	1.1779	0.45702	37.074834	0.844081971	0.0003	0.126691	0.505912	0.196085	8.345705	3.10766773	43.98594
108	486783.18	3855843.15	3.44922	0.44346	2.86509	2.38427	1.209	1.355	1.1644	0.44346	35.9883656	0.819037659	0.0002983	0.125589	0.56674	0.190562	8.250407	3.01546175	42.92554
109	486533.18	3855893.15	4.03251	0.46628	3.23146	2.7256	1.2	1.533	1.2568	0.46628	42.0742789	0.861184502	0.0003364	0.143568	0.562881	0.215723	8.904527	3.17063434	49.59187
110	486583.18	3855893.15	3.95095	0.46403	3.19807	2.67942	1.267	1.511	1.2504	0.46403	41.2233007	0.85702892	0.0003329	0.141136	0.594247	0.212606	8.859748	3.15533468	48.73306
111	486633.18	3855893.15	3.87876	0.46022	3.13436	2.62393	1.097	1.487	1.2194	0.46022	40.4700869	0.849992133	0.0003263	0.138213	0.514287	0.209123	8.639747	3.12942725	47.69235
112	486683.18	3855893.15	3.7657	0.45986	3.01878	2.56235	1.073	1.481	1.209	0.45986	39.2904449	0.84932724	0.0003143	0.134969	0.503	0.208404	8.565847	3.1269793	46.42533
113	486733.18	3855893.15	3.64643	0.46328	2.96504	2.537	1.109	1.479	1.1987	0.46328	38.0460093	0.855643725	0.0003087	0.133634	0.520106	0.208037	8.493151	3.15023479	45.10666
114	486783.18	3855893.15	3.52443	0.46822	2.9275	2.54329	1.229	1.481	1.2087	0.46822	36.7730894	0.864767538	0.0003048	0.133965	0.576142	0.208335	8.564005	3.18382605	43.93678

115	486533.18	3855943.15	4.13874	0.47408	3.23946	2.89508	1.272	1.625	1.291	0.47408
116	486583.18	3855943.15	4.03317	0.47815	3.26686	2.93312	1.29	1.634	1.2917	0.47815
117	486633.18	3855943.15	3.96736	0.47444	3.15209	2.80451	1.391	1.579	1.2579	0.47444
118	486683.18	3855943.15	3.86443	0.47554	3.09611	2.78717	1.259	1.583	1.262	0.47554
119	486733.18	3855943.15	3.7389	0.47316	2.95439	2.74246	1.15	1.552	1.2564	0.47316
120	486783.18	3855943.15	3.61213	0.47844	2.93599	2.70202	1.239	1.54	1.2552	0.47844
121	486533.18	3855993.15	4.20012	0.50458	3.22105	3.17963	1.328	1.747	1.3562	0.50458
122	486583.18	3855993.15	4.13359	0.49512	3.18037	3.16342	1.359	1.74	1.3619	0.49512
123	486633.18	3855993.15	4.04955	0.49372	3.11316	3.11305	1.407	1.681	1.3376	0.49372
124	486683.18	3855993.15	3.95872	0.49448	3.04948	3.05301	1.476	1.645	1.3055	0.49448
125	486733.18	3855993.15	3.85341	0.49261	2.97521	2.95247	1.433	1.631	1.2927	0.49261
126	486783.18	3855993.15	3.71796	0.49328	2.91847	2.92078	1.264	1.622	1.2968	0.49328
127	486533.18	3856043.15	4.26974	0.54137	3.07234	3.60401	1.423	1.9	1.4618	0.54137
128	486583.18	3856043.15	4.18196	0.52648	2.99879	3.59725	1.445	1.847	1.4526	0.52648
129	486633.18	3856043.15	4.13571	0.51388	2.90881	3.46358	1.481	1.801	1.4162	0.51388
130	486683.18	3856043.15	4.0406	0.52064	2.80475	3.41607	1.536	1.797	1.4234	0.52064
131	486733.18	3856043.15	3.96025	0.51801	2.79445	3.2949	1.576	1.764	1.3893	0.51801
132	486783.18	3856043.15	3.81208	0.5168	2.72855	3.29768	1.522	1.766	1.389	0.5168
133	486533.18	3856093.15	4.40279	0.57169	2.91214	4.37123	1.642	2.109	1.5898	0.57169
134	486583.18	3856093.15	4.26438	0.56772	2.84789	4.23297	1.577	2.061	1.5861	0.56772
135	486633.18	3856093.15	4.18094	0.5482	2.74555	4.09797	1.567	1.995	1.5526	0.5482
136	486683.18	3856093.15	4.11558	0.54508	2.71286	3.94861	1.639	1.973	1.5353	0.54508
137	486733.18	3856093.15	4.04438	0.54217	2.65267	3.73374	1.704	1.942	1.4771	0.54217
138	486783.18	3856093.15	3.92723	0.54651	2.59851	3.56422	1.69	1.936	1.4654	0.54651
139	486533.18	3856143.15	4.52457	0.59212	2.86394	5.12952	1.752	2.414	1.7277	0.59212
140	486583.18	3856143.15	4.42617	0.5869	2.77905	4.86405	1.836	2.351	1.6856	0.5869
141	486633.18	3856143.15	4.29799	0.58991	2.72362	4.65685	1.765	2.305	1.6719	0.58991
142	486683.18	3856143.15	4.17663	0.5726	2.63409	4.38303	1.747	2.229	1.6373	0.5726
143	486733.18	3856143.15	4.10969	0.56831	2.57418	4.12605	1.777	2.161	1.6017	0.56831
144	486783.18	3856143.15	4.02489	0.57676	2.54769	3.89126	1.921	2.11	1.6329	0.57676
145	486533.18	3856193.15	4.63778	0.63226	2.84912	5.98893	2.002	2.785	1.9294	0.63226
146	486583.18	3856193.15	4.55371	0.61086	2.75604	5.52936	1.927	2.603	1.8495	0.61086
147	486633.18	3856193.15	4.43117	0.61336	2.68393	5.19726	2.016	2.515	1.8364	0.61336
148	486683.18	3856193.15	4.30999	0.61646	2.60355	4.92256	1.965	2.431	1.8394	0.61646
149	486733.18	3856193.15	4.17849	0.59733	2.50122	4.59442	1.959	2.334	1.7802	0.59733
150	486783.18	3856193.15	4.07942	0.60504	2.44387	4.31831	1.963	2.247	1.749	0.60504
151	486533.18	3856243.15	4.75674	0.64772	2.67423	6.89254	2.118	3.07	2.1909	0.64772
152	486583.18	3856243.15	4.64265	0.64177	2.58764	6.27576	2.212	2.894	2.0921	0.64177
153	486633.18	3856243.15	4.53505	0.63073	2.50401	5.79118	2.176	2.742	2.0193	0.63073
154	486683.18	3856243.15	4.4161	0.63098	2.45275	5.39924	2.224	2.634	1.9546	0.63098
155	486733.18	3856243.15	4.29249	0.63432	2.41149	5.10035	2.133	2.544	1.905	0.63432
156	486783.18	3856243.15	4.18194	0.62243	2.38243	4.77084	2.144	2.453	1.8321	0.62243
157	486533.18	3856293.15	4.85386	0.6569	2.76334	8.06951	2.472	3.382	2.4416	0.6569
158	486583.18	3856293.15	4.73522	0.65644	2.719	7.18035	2.483	3.166	2.2706	0.65644
159	486633.18	3856293.15	4.61939	0.65304	2.67256	6.50211	2.449	2.996	2.1602	0.65304
160	486683.18	3856293.15	4.50568	0.64698	2.60945	5.95414	2.547	2.847	2.0879	0.64698
161	486733.18	3856293.15	4.38388	0.6485	2.53786	5.50564	2.523	2.736	2.0436	0.6485
162	486783.18	3856293.15	4.27001	0.65046	2.44841	5.16316	2.406	2.617	1.983	0.65046
163	486783.18	3856343.15	4.34872	0.66813	2.50945	5.62685	2.92	2.783	2.1557	0.66813
164	486833.18	3856343.15	4.23699	0.67632	2.46877	5.20203	2.734	2.662	2.0696	0.67632
165	486883.18	3856343.15	4.12242	0.67461	2.48529	4.88675	2.683	2.542	1.9862	0.67461
166	486783.18	3856393.15	4.42497	0.68184	2.26429	6.19649	3.352	2.96	2.3072	0.68184
167	486833.18	3856393.15	4.31116	0.69085	2.24951	5.68145	3.293	2.821	2.217	0.69085
168	486883.18	3856393.15	4.21191	0.69278	2.42723	5.25053	3.129	2.694	2.1076	0.69278
169	487208.74	3856886.11	4.14327	0.86171	1.93008	7.55249	33.35	3.629	2.4417	0.86171
170	487258.74	3856886.11	4.01517	0.85914	1.94577	6.70402	32.63	3.437	2.3344	0.85914
171	487308.74	3856886.11	3.88773	0.84576	1.85397	6.04229	32.24	3.273	2.2292	0.84576
172	487358.74	3856886.11	3.78419	0.83195	1.77202	5.54921	36.5	3.114	2.137	0.83195
173	487208.74	3856936.11	4.27233	0.88889	1.81482	8.81587	39.57	3.935	2.589	0.88889

43.1826582	0.875590523	0.0003372	0.152496	0.596489	0.22859	9.147059	3.22367318	50.95955
42.0811652	0.88310751	0.0003401	0.154499	0.604985	0.229875	9.152373	3.25134857	49.855
41.3945188	0.876255416	0.0003282	0.147725	0.652079	0.222162	8.912392	3.22612112	48.97934
40.320571	0.878287034	0.0003223	0.146812	0.590219	0.222666	8.941938	3.23360096	47.86721
39.0108199	0.873891351	0.0003076	0.144457	0.53936	0.218365	8.902331	3.21741732	46.47211
37.688131	0.883643119	0.0003057	0.142326	0.581061	0.21668	8.893687	3.25332053	45.15251
43.823083	0.931921756	0.0003353	0.167484	0.622954	0.24572	9.609237	3.43106862	51.96967
43.1289243	0.914449839	0.0003311	0.16663	0.637458	0.244721	9.649553	3.36674204	51.37533
42.2520703	0.911864143	0.0003241	0.163977	0.659854	0.236465	9.477449	3.35722224	50.34478
41.3043711	0.913267806	0.0003175	0.160814	0.692298	0.231393	9.249868	3.36239013	49.18994
40.2055908	0.909814055	0.0003097	0.155519	0.672027	0.229383	9.159529	3.34967441	47.9825
38.7923368	0.911051496	0.0003038	0.153849	0.592873	0.228217	9.187942	3.35423031	46.51234
44.549482	0.999870151	0.0003198	0.189838	0.66731	0.267275	10.35717	3.68123513	53.35003
43.6336057	0.972369428	0.0003122	0.189482	0.677616	0.259883	10.29184	3.57998535	52.44512
43.1510439	0.949098164	0.0003028	0.182441	0.694488	0.253322	10.03436	3.49430723	51.77075
42.1586881	0.961583382	0.000292	0.179938	0.720115	0.25278	10.08495	3.54027422	50.81807
41.3203347	0.956725967	0.0002909	0.173556	0.738862	0.248186	9.843479	3.52239062	49.75904
39.7743631	0.954491187	0.0002841	0.173702	0.713475	0.248428	9.84185	3.5141628	48.19243
45.937695	1.055868938	0.0003032	0.23025	0.769979	0.296743	11.26416	3.8874066	55.6676
44.493557	1.048536643	0.0002965	0.222968	0.739448	0.289931	11.23823	3.86041119	54.17256
43.6229633	1.012484654	0.0002858	0.215857	0.734989	0.280695	11.00059	3.72767811	53.14019
42.9410121	1.006722245	0.0002824	0.207989	0.768488	0.277512	10.87844	3.70646257	52.37398
42.1981278	1.001347692	0.0002762	0.196671	0.799095	0.273147	10.46564	3.68667501	51.24763
40.9758117	1.009363349	0.0002705	0.187742	0.792558	0.272282	10.38296	3.71618636	49.9048
47.2083194	1.093601629	0.0002982	0.270193	0.821711	0.339531	12.24152	4.02632754	57.94885
46.1816365	1.083960677	0.0002893	0.256209	0.860818	0.330688	11.94337	3.99083232	56.66614
44.844236	1.089519923	0.0002835	0.245295	0.827455	0.324317	11.84616	4.01129987	55.16596
43.5779937	1.05754964	0.0002742	0.230872	0.819408	0.313596	11.60107	3.89359446	53.70717
42.8795572	1.049626329	0.000268	0.217336	0.833335	0.304047	11.34869	3.8644231	52.76844
41.9947736	1.065232851	0.0002652	0.204969	0.900949	0.296757	11.56969	3.92188184	52.11075
48.3895264	1.167737226	0.0002966	0.315461	0.938809	0.391823	13.67021	4.29927355	60.57459
47.5123595	1.128213016	0.0002869	0.291254	0.903401	0.366166	13.10437	4.15375674	59.1523
46.2338054	1.13283033	0.0002794	0.273761	0.945496	0.35378	13.01177	4.17075637	57.78096
44.9694412	1.1385558	0.000271	0.259291	0.921543	0.341976	13.03295	4.19183591	56.4722
43.5974005	1.103224112	0.0002604	0.242007	0.918711	0.328364	12.61364	4.06175477	54.74185
42.563727	1.117463909	0.0002544	0.227463	0.920559	0.316083	12.39215	4.11418161	53.42352
49.6307276	1.196290696	0.0002784	0.363058	0.993007	0.431921	15.52353	4.40439924	63.73441
48.4403389	1.185301489	0.0002694	0.33057	1.03716	0.407058	14.82343	4.36394013	61.86018
47.3176653	1.164911429	0.0002607	0.305045	1.020532	0.385751	14.30775	4.28886978	60.21305
46.0765685	1.165373161	0.0002553	0.2844	1.043017	0.370539	13.84905	4.29056974	58.49863
44.7868502	1.171541892	0.0002511	0.268656	1.000242	0.357851	13.4974	4.31328124	56.76951
43.6333971	1.149581946	0.000248	0.2513	1.005405	0.345023	12.98102	4.23243102	55.13354
50.6440553	1.213245474	0.0002877	0.425054	1.159159	0.475788	17.2994	4.46682187	66.75017
49.4061929	1.212395888	0.0002831	0.378218	1.164444	0.445389	16.08816	4.46369394	64.23139
48.1976494	1.206116341	0.0002782	0.342493	1.148482	0.421473	15.30551	4.44057444	62.18143
47.0112255	1.194923971	0.0002717	0.313629	1.194379	0.400498	14.79352	4.39936735	60.50909
45.7403924	1.197731298	0.0002642	0.290004	1.182961	0.384875	14.47943	4.40970312	58.86596
44.5522991	1.201351273	0.0002549	0.271965	1.128445	0.368081	14.04999	4.42303083	57.14935
45.3735411	1.233986449	0.0002612	0.296389	1.369216	0.39143	15.27412	4.54318419	59.39576
44.207776	1.249112771	0.000257	0.274012	1.281795	0.374459	14.66365	4.59887497	57.45219
43.0123791	1.245954528	0.0002587	0.257405	1.258166	0.357627	14.07316	4.58724722	55.6177
46.169116	1.2593078	0.0002357	0.326394	1.571948	0.416399	16.34763	4.63641014	61.45462
44.9816487	1.275948601	0.0002342	0.299265	1.544235	0.396808	15.70839	4.6976768	59.50885
43.9460971	1.279513167	0.0002527	0.276567	1.467122	0.378995	14.93311	4.71080051	57.57085
43.2299232	1.591514321	0.0002009	0.39782	15.6406	0.510559	17.30047	5.85949927	72.81159
41.8933573	1.586767722	0.0002026	0.353128	15.2988	0.483548	16.54028	5.84202365	70.31406
40.5636778	1.562055857	0.000193	0.318272	15.11992	0.460377	15.79447	5.75104165	68.06793
39.4833653	1.536549813	0.0001845	0.2923	17.11408	0.438126	15.14106	5.65713572	68.34853
44.5765055	1.641713761	0.0001889	0.464368	18.55587	0.55361	18.344	6.04431921	78.09194

174	487258.74	3856936.11	4.14129	0.88141	1.75576	7.65275	41.44	3.7	2.4596	0.88141	43.2092643	1.627898757	0.0001828	0.403102	19.43178	0.520457	17.42701	5.99345633	76.62624
175	487308.74	3856936.11	4.01323	0.87607	1.79472	6.76636	39.66	3.48	2.3454	0.87607	41.8731158	1.618036174	0.0001868	0.356412	18.59817	0.489529	16.61815	5.95714513	73.59645
176	487358.74	3856936.11	3.88652	0.86814	1.7798	6.08148	38.34	3.315	2.2447	0.86814	40.5510529	1.603390053	0.0001853	0.320336	17.97909	0.466318	15.90458	5.90322231	70.92173
177	487208.74	3856986.11	4.43045	0.91591	1.73481	10.48567	43.14	4.307	2.8161	0.91591	46.2262931	1.691617692	0.0001806	0.552323	20.22975	0.605903	19.9533	6.22805117	83.03131
178	487258.74	3856986.11	4.28166	0.91502	1.72304	8.85401	41.9	3.986	2.5996	0.91502	44.6738525	1.689973929	0.0001794	0.466377	19.64685	0.560767	18.41939	6.22199931	79.23539
179	487308.74	3856986.11	4.14955	0.91005	1.68136	7.73331	42.1	3.74	2.4695	0.91005	43.2954473	1.680794708	0.000175	0.407345	19.73981	0.526074	17.49758	6.18820405	76.95903
180	487358.74	3856986.11	4.02238	0.90981	1.63987	6.80919	41.74	3.511	2.3513	0.90981	41.9685848	1.680351446	0.0001707	0.358668	19.57072	0.493869	16.66009	6.18657209	74.54588
181	487208.74	3857036.11	4.63217	0.94468	1.58211	13.8269	47.23	4.772	3.0553	0.94468	48.330993	1.744753744	0.0001647	0.728319	22.14825	0.671334	21.64776	6.42368288	88.8479
182	487258.74	3857036.11	4.428	0.94454	1.6337	10.6033	46.95	4.366	2.828	0.94454	46.2007303	1.744495174	0.0001701	0.558519	22.01562	0.614186	20.03726	6.4227309	84.74825
183	487308.74	3857036.11	4.27771	0.95741	1.6401	8.83755	46.37	4.013	2.611	0.95741	44.6326391	1.768265108	0.0001707	0.46551	21.74431	0.564526	18.49995	6.51024497	81.16513
184	487358.74	3857036.11	4.14713	0.95858	1.55506	7.68109	44.87	3.758	2.4625	0.95858	43.2701975	1.770426011	0.0001619	0.404594	21.03907	0.528619	17.44756	6.5182008	77.94242
185	487427.14	3856878.23	3.63506	0.81058	1.69101	4.94562	39.65	2.913	2.0058	0.81058	37.9273773	1.497081011	0.000176	0.260506	18.59061	0.40979	14.21196	5.51182291	67.38568
186	487477.14	3856878.23	3.5476	0.80699	1.64331	4.63552	41.86	2.805	1.9346	0.80699	37.0148399	1.490450548	0.0001711	0.244172	19.62703	0.394556	13.70706	5.48741145	66.99086
187	487527.14	3856878.23	3.46961	0.80766	1.62441	4.37418	45.19	2.698	1.8769	0.80766	36.2011102	1.491687988	0.0001691	0.230406	21.18858	0.379543	13.29858	5.49196735	67.29812
188	487427.14	3856928.23	3.70954	0.84588	1.75458	5.32119	40.66	3.085	2.091	0.84588	38.7044844	1.562277488	0.0001827	0.280289	19.06496	0.43403	14.81521	5.75185764	69.10957
189	487477.14	3856928.23	3.62008	0.82743	1.73143	4.95905	44.29	2.943	2.0151	0.82743	37.7710794	1.528201709	0.0001803	0.261213	20.76729	0.414065	14.27785	5.62640039	69.39348
190	487527.14	3856928.23	3.53581	0.82776	1.65635	4.64338	48	2.839	1.9408	0.82776	36.8918257	1.528811194	0.0001724	0.244586	22.50646	0.399333	13.75127	5.62864434	69.69381
191	487577.14	3856928.23	3.45767	0.82693	1.54815	4.37478	49.64	2.733	1.8759	0.82693	36.076531	1.527278246	0.0001612	0.230437	23.27667	0.384525	13.29136	5.62300047	69.16396
192	487627.14	3856928.23	3.38648	0.8229	1.52466	4.14697	49.05	2.656	1.8152	0.8229	35.3337509	1.519835136	0.0001587	0.218438	23.00054	0.37366	12.86156	5.59559707	67.71235
193	487677.14	3856928.23	3.3167	0.83643	1.48407	3.92873	50.6	2.591	1.7539	0.83643	34.6056825	1.54482404	0.0001545	0.206942	23.72744	0.364473	12.4268	5.68759905	67.18872
194	487727.14	3856928.23	3.25028	0.85105	1.45878	3.74153	51.97	2.503	1.6961	0.85105	33.9126716	1.571826093	0.0001519	0.197082	24.37087	0.352173	12.01748	5.78701286	66.63525
195	487777.14	3856928.23	3.19164	0.85485	1.4925	3.58287	53.52	2.397	1.6466	0.85485	33.3008353	1.578844411	0.0001554	0.188724	25.09739	0.3372	11.66647	5.8128523	66.35677
196	487427.14	3856978.23	3.83138	0.88866	1.66	5.81505	42.13	3.291	2.1935	0.88866	39.9757349	1.641288968	0.0001728	0.306302	19.75745	0.46301	15.54202	6.04275524	71.64322
197	487477.14	3856978.23	3.70104	0.87338	1.66548	5.33854	43.77	3.117	2.0986	0.87338	38.6157974	1.613067944	0.0001734	0.281203	20.52337	0.438524	14.8692	5.93885353	70.40248
198	487527.14	3856978.23	3.60911	0.86719	1.65986	4.95214	44.46	2.982	2.0162	0.86719	37.656621	1.601635474	0.0001728	0.260849	20.84682	0.419515	14.28565	5.89676245	69.1745
199	487577.14	3856978.23	3.52416	0.85771	1.66703	4.6343	48.03	2.882	1.9428	0.85771	36.7702723	1.584126618	0.0001735	0.244107	22.52053	0.405464	13.7653	5.83229987	69.45767
200	487627.14	3856978.23	3.45058	0.85974	1.60105	4.37406	50.65	2.785	1.8731	0.85974	36.0025556	1.587875877	0.0001667	0.2304	23.74976	0.391812	13.27145	5.84610357	69.38791
201	487677.14	3856978.23	3.37903	0.87491	1.54202	4.13078	52.86	2.702	1.813	0.87491	35.2560194	1.61589374	0.0001605	0.217585	24.7859	0.380113	12.84583	5.9492573	69.15224
202	487727.14	3856978.23	3.31723	0.8612	1.47625	3.9333	56.34	2.6	1.7642	0.8612	34.6112124	1.590572389	0.0001537	0.207183	26.42021	0.365761	12.49964	5.85603135	69.8387
203	487777.14	3856978.23	3.24667	0.8971	1.50783	3.71631	55.71	2.536	1.694	0.8971	33.8750057	1.656877021	0.000157	0.195753	26.12293	0.356688	12.00246	6.10014598	68.10972
204	487427.14	3857028.23	3.96295	0.93236	1.62175	6.42599	43.84	3.475	2.2935	0.93236	41.3485059	1.72199962	0.0001688	0.338483	20.55551	0.48886	16.25035	6.33990872	74.36397
205	487477.14	3857028.23	3.84941	0.91791	1.67711	5.79935	43.61	3.34	2.1937	0.91791	40.1638558	1.695311544	0.0001746	0.305475	20.44923	0.46986	15.54309	6.24165088	72.38534
206	487527.14	3857028.23	3.72352	0.90224	1.62148	5.33122	45.98	3.189	2.0975	0.90224	38.8503485	1.666370219	0.0001688	0.280817	21.55893	0.448571	14.86147	6.13509722	71.53158
207	487577.14	3857028.23	3.61897	0.90108	1.5167	4.93839	48.05	3.029	2.0156	0.90108	37.759498	1.664227785	0.0001579	0.260125	22.53234	0.426038	14.28125	6.12720939	70.79643
208	487627.14	3857028.23	3.53793	0.89769	1.53248	4.63233	49.8	2.923	1.9463	0.89769	36.9139453	1.657966707	0.0001595	0.244004	23.35439	0.411174	13.79024	6.1041579	70.26772
209	487677.14	3857028.23	3.45941	0.90725	1.57645	4.3469	52.28	2.838	1.8643	0.90725	36.0946857	1.675623316	0.0001641	0.228969	24.51676	0.399194	13.20917	6.16916447	69.9554
210	487727.14	3857028.23	3.38381	0.92313	1.57772	4.09204	55.44	2.769	1.8065	0.92313	35.3058928	1.704952496	0.0001643	0.215544	25.99517	0.389465	12.79999	6.2771461	70.13403
211	487777.14	3857028.23	3.31432	0.92598	1.5225	3.8853	57.25	2.672	1.7489	0.92598	34.5808502	1.710216234	0.0001585	0.204655	26.84524	0.375886	12.39159	6.29652567	69.81207
212	487427.14	3857078.23	4.09744	0.97067	1.54525	7.13916	45.39	3.707	2.3976	0.97067	42.7517435	1.792755342	0.0001609	0.376049	21.28519	0.52151	16.988	6.60041099	77.115
213	487477.14	3857078.23	3.97947	0.95534	1.6607	6.40247	44.23	3.544	2.294	0.95534	41.5208718	1.764441972	0.0001729	0.337244	20.73902	0.498563	16.25346	6.49616928	74.6176
214	487527.14	3857078.23	3.86302	0.95354	1.60579	5.79383	46.86	3.401	2.195	0.95354	40.3058594	1.761117506	0.0001672	0.305185	21.97564	0.478431	15.5523	6.48392955	73.89476
215	487577.14	3857078.23	3.73656	0.9482	1.47756	5.29744	49.42	3.258	2.0954	0.9482	38.9864049	1.751254922	0.0001538	0.279038	23.17486	0.458299	14.84638	6.44761835	73.04877
216	487627.14	3857078.23	3.62097	0.94759	1.45596	4.92215	49.71	3.081	2.0193	0.94759	37.7803655	1.750128298	0.0001516	0.25927	23.31061	0.433477	14.30719	6.44347044	71.39772
217	487677.14	3857078.23	3.53039	0.95009	1.4657	4.59686	49.52	2.98	1.9337	0.95009	36.8352747	1.754745612	0.0001526	0.242135	23.2223	0.419202	13.70125	6.46047007	69.71459
218	487727.14	3857078.23	3.44972	0.95197	1.45681	4.31298	52.36	2.892	1.8528	0.95197	35.9935825	1.758217832	0.0001517	0.227182	24.55074	0.406781	13.1274	6.47325379	69.5908
219	487777.14	3857078.23	3.37562	0.94742	1.46459	4.0888	55.15	2.779	1.8023	0.94742	35.2204402	1.74981432	0.0001525	0.215374	25.86247	0.390901	12.77009	6.44231447	69.76692
220	487427.14	3857128.23	4.23668	1.01785	1.56791	7.76	46.83	3.966	2.5258	1.01785	44.2045416	1.879893295	0.0001632	0.408751	21.95758	0.557944	17.89585	6.92122795	79.98349
221	487477.14	3857128.23	4.10655	1.00844	1.72313	7.05802	46.23	3.769	2.4063	1.00844	42.8467952	1.862513725	0.0001794	0.371775	21.67774	0.530229	17.0495	6.85724135	77.48149
222	487527.14	3857128.23	3.98725	1.00073	1.56513	6.38267	48.14	3.627	2.3015	1.00073	41.6020465	1.848273928	0.0001629	0.336201	22.57346	0.510277	16.30682	6.8048145	76.37242
223	487577.14	3857128.23	3.87224	0.99255	1.37934	5.75809	48.08	3.474	2.2029	0.99255	40.4020587	1.833166076	0.0001436	0.303302	22.54793	0.488734	15.60841	6.74919173	74.43455
224	487627.14	3857128.23	3.75431	0.98597	1.3624	5.29246	48.71	3.336	2.0995	0.98597	39.1716043	1.821013305	0.0001418	0.278775	22.83939	0.469272	14.87536	6.70444871	72.75111
225	487677.14	3857128.23	3.6355	0.97452	1.38565	4.93904	48.7	3.134	2.0207	0.97452	37.9319682	1.799866006	0.0001443	0.260159	22.83544	0.44084	14.31767	6.62659042	70.9595
226	487727.14	3857128.23	3.53229	0.98529	1.411	4.5965	51.29	3.028	1.9256	0.98529	36.8550988	1.819757396	0.0001469	0.242116	24.04929	0.425928	13.64364	6.69982481	70.33615
227	487777.14	3857128.23	3.45236	0.97587	1.38341	4.34142	52.74	2.909	1.8482	0.97587	36.0211277	1.802359356	0.000144	0.22868	24.73194	0.409198	13.09509	6.63577022	69.65277
228	488049.44	3856539.39	2.69938	0.67915	1.64747	2.22691	11.95	1.698	1.1526	0.67915	28.1647081	1.25433957	0.0001715	0.1173	5.603814	0.238818	8.166303	4.61811854	38.92734
229	488099.44	3856539.39	2.66749	0.67493	1.65989	2.17077	13.01	1.659	1.1318	0.67493	27.8319752	1.246545544	0.0001728	0.114343	6.098627	0.233366	8.019211	4.58942317	38.95482
230	488149.44	3856539.39	2.63241	0.67561	1.63712	2.12411	14.23	1.648	1.1136	0.67561	27.4659586	1.247801453	0.0001704	0.111886	6.672476	0.231843	7.889904	4.59404707	39.02599
231	488049.44	3856589.39	2.70065	0.68696	1.53623	2.38394	15.79	1.748	1.1733	0.68696	28.177959	1.26876406	0.0001599	0.125572	7.404942	0.245845	8.31297	4.67122538	40.86499
232	488099.44	3856589.39	2.66659	0.69675	1.46853	2.29576	17.1	1.709	1.1531	0.69675	27.8225848	1.286845462	0.0001529	0.120927	8.018523	0.240415	8.169988	4.73779591	40.92164

233	488149.44	3856589.39	2.63306	0.69587	1.45957	2.178	17.7	1.692	1.1347	0.69587	27.4727405	1.285220168	0.000152	0.114724	8.299368	0.238061	8.039901	4.73181205	40.71835
234	488199.44	3856589.39	2.60467	0.6894	1.50325	2.132	17.63	1.682	1.113	0.6894	27.1765258	1.273270558	0.0001565	0.112301	8.267106	0.236683	7.885723	4.68781701	40.26395
235	488249.44	3856589.39	2.56522	0.69916	1.51811	2.0848	18.66	1.685	1.1044	0.69916	26.7649136	1.291296553	0.000158	0.109815	8.749891	0.236974	7.825285	4.75418355	40.22415
236	488049.44	3856639.39	2.7095	0.70365	1.80069	2.45898	21.6	1.81	1.1977	0.70365	28.2702978	1.299589249	0.0001875	0.129524	10.12852	0.254674	8.486137	4.78471488	43.78422
237	488099.44	3856639.39	2.67529	0.70152	1.69729	2.41026	21.29	1.754	1.1779	0.70152	27.9133586	1.295655298	0.0001767	0.126958	9.981104	0.246745	8.34613	4.7702312	43.1399
238	488149.44	3856639.39	2.64221	0.70246	1.60132	2.34619	21.69	1.735	1.1586	0.70246	27.5682095	1.297391408	0.0001667	0.123583	10.16853	0.244087	8.209382	4.77662306	42.83472
239	488199.44	3856639.39	2.60671	0.71148	1.54544	2.23908	22.16	1.742	1.1416	0.71148	27.1978107	1.314050677	0.0001609	0.117941	10.39173	0.245091	8.088506	4.83795771	42.51734
240	488249.44	3856639.39	2.57416	0.7213	1.53372	2.13661	22.55	1.718	1.1205	0.7213	26.8581915	1.332187487	0.0001597	0.112544	10.5725	0.24165	7.938793	4.90473225	42.15129
241	488299.44	3856639.39	2.54036	0.72495	1.54449	2.09184	23.39	1.695	1.1127	0.72495	26.5055301	1.338928766	0.0001608	0.110186	10.9688	0.23845	7.884164	4.9295517	42.11667
242	488349.44	3856639.39	2.50799	0.72095	1.4838	2.05034	23.35	1.673	1.1008	0.72095	26.167789	1.331541063	0.0001545	0.108	10.94825	0.235397	7.799211	4.9023523	41.68799
243	488399.44	3856639.39	2.46845	0.72324	1.46666	2.01231	23.68	1.629	1.0972	0.72324	25.7552377	1.335770523	0.0001527	0.105997	11.10181	0.229137	7.773845	4.91792396	41.38403
244	488099.44	3856689.39	2.67511	0.73326	1.633	2.47205	27.23	1.827	1.2052	0.73326	27.9114805	1.354276718	0.00017	0.130213	12.76868	0.257031	8.539419	4.98605846	45.97522
245	488149.44	3856689.39	2.63565	0.72904	1.65605	2.42363	28.35	1.799	1.1853	0.72904	27.499764	1.346482692	0.0001724	0.127662	13.29346	0.253026	8.39842	4.95736309	45.96162
246	488199.44	3856689.39	2.59797	0.73143	1.69472	2.37732	28.81	1.788	1.1681	0.73143	27.1066195	1.350896844	0.0001764	0.125223	13.50781	0.251537	8.276693	4.97361473	45.64534
247	488249.44	3856689.39	2.56738	0.72641	1.67051	2.31044	29.81	1.76	1.1441	0.72641	26.7874505	1.341625278	0.0001739	0.1217	13.97789	0.247533	8.106361	4.93947948	45.64326
248	488299.44	3856689.39	2.5327	0.73343	1.6188	2.18558	29.83	1.745	1.1336	0.73343	26.4256074	1.354590696	0.0001685	0.115123	13.98974	0.245419	8.032178	4.98721443	45.17562
249	488349.44	3856689.39	2.49756	0.74013	1.59149	2.09823	29.68	1.718	1.1233	0.74013	26.0589648	1.366965098	0.0001657	0.110522	13.91701	0.241718	7.958986	5.03277343	44.62155
250	488399.44	3856689.39	2.47972	0.73131	1.56586	2.05811	29.14	1.659	1.1074	0.73131	25.8728263	1.350675213	0.000163	0.108409	13.66287	0.233371	7.846258	4.97279875	44.10178
251	488099.44	3856739.39	2.69862	0.76639	1.56051	2.52889	37.14	1.899	1.2411	0.76639	28.1567784	1.415465366	0.0001625	0.133207	17.41482	0.267079	8.793641	5.21133751	50.96981
252	488149.44	3856739.39	2.67048	0.75705	1.53115	2.4813	37.03	1.875	1.2154	0.75705	27.8631722	1.39821508	0.0001594	0.1307	17.36276	0.263721	8.611548	5.14782691	50.48245
253	488199.44	3856739.39	2.62715	0.76372	1.5694	2.43245	35.96	1.869	1.195	0.76372	27.4110769	1.410534074	0.0001634	0.128127	16.8634	0.262992	8.467006	5.19318191	49.35012
254	488249.44	3856739.39	2.59449	0.75687	1.56149	2.38622	34.36	1.821	1.1768	0.75687	27.07031	1.397882634	0.0001626	0.125692	16.11351	0.256151	8.338265	5.14660293	48.15537
255	488299.44	3856739.39	2.57083	0.74296	1.56636	2.33666	33.14	1.783	1.1521	0.74296	26.823447	1.372191897	0.0001631	0.123081	15.53977	0.250811	8.162973	5.05201701	47.22042
256	488349.44	3856739.39	2.52276	0.74692	1.6888	2.25443	32.02	1.751	1.1445	0.74692	26.3218958	1.379505723	0.0001758	0.11875	15.01348	0.24638	8.108841	5.07894442	46.11009
257	488399.44	3856739.39	2.48762	0.75211	1.71756	2.13389	31.25	1.71	1.1392	0.75211	25.9552531	1.389091267	0.0001788	0.112401	14.65212	0.240585	8.07143	5.11423564	45.30682
258	487999.44	3856789.39	2.80722	0.78112	1.55248	2.74292	46.55	1.998	1.3574	0.78112	29.2898858	1.442670581	0.0001616	0.144481	21.82733	0.281003	9.617456	5.31149931	57.29149
259	488049.44	3856789.39	2.76432	0.7823	1.54794	2.67619	44.46	1.966	1.323	0.7823	28.8422771	1.444849953	0.0001612	0.140966	20.84935	0.276636	9.374145	5.31952313	55.60886
260	488099.44	3856789.39	2.72044	0.7914	1.55463	2.61329	41.64	1.948	1.2839	0.7914	28.3844433	1.461656977	0.0001618	0.137653	19.52692	0.274105	9.09654	5.38140177	53.50007
261	488149.44	3856789.39	2.68693	0.78698	1.57005	2.55887	39.76	1.943	1.2515	0.78698	28.0348077	1.453493566	0.0001635	0.134786	18.64482	0.273344	8.867116	5.35134643	52.05719
262	488199.44	3856789.39	2.65156	0.78652	1.53702	2.47942	38.5	1.924	1.2237	0.78652	27.6657652	1.45264398	0.00016	0.130601	18.05419	0.270624	8.670143	5.3482185	50.89591
263	488249.44	3856789.39	2.61592	0.77895	1.65457	2.42648	37.8	1.894	1.205	0.77895	27.2939057	1.438662752	0.0001723	0.127813	17.7251	0.266402	8.537647	5.29674363	50.09296
264	488299.44	3856789.39	2.57898	0.76744	1.666	2.38005	37.1	1.854	1.1799	0.76744	26.9084823	1.417404638	0.0001734	0.125367	17.39685	0.260803	8.359876	5.21847735	49.25047
265	488349.44	3856789.39	2.52742	0.77374	1.82395	2.32587	35.53	1.802	1.1613	0.77374	26.3705171	1.42904027	0.0001899	0.122513	16.65902	0.253465	8.228088	5.26131641	47.80151
266	488399.44	3856789.39	2.49324	0.77448	1.80454	2.27712	33.94	1.747	1.1541	0.77448	26.0138909	1.430406995	0.0001879	0.119945	15.91521	0.245706	8.177357	5.2663483	46.63636
267	487949.44	3856839.39	2.89569	0.79762	1.57678	2.91301	51.52	2.136	1.4269	0.79762	30.2129613	1.473144855	0.0001642	0.15344	24.1609	0.300496	10.1101	5.42369685	60.98751
268	487999.44	3856839.39	2.85386	0.80239	1.57353	2.82822	49.61	2.09	1.3934	0.80239	29.7765168	1.48195469	0.0001638	0.148974	23.26402	0.293972	9.872883	5.45613213	59.38235
269	488049.44	3856839.39	2.81426	0.80866	1.56862	2.75355	46.5	2.032	1.3623	0.80866	29.3633395	1.493534914	0.0001633	0.145041	21.80634	0.2858	9.652529	5.4987672	57.24798
270	488099.44	3856839.39	2.76482	0.81421	1.58462	2.68544	43.75	2.003	1.3304	0.81421	28.8474939	1.503785352	0.000165	0.141453	20.51382	0.281703	9.426435	5.53650637	55.17835
271	488149.44	3856839.39	2.71487	0.81469	1.54616	2.62326	42.31	1.996	1.2928	0.81469	28.3263272	1.504671876	0.000161	0.138178	19.84051	0.280834	9.159742	5.5397703	53.71065
272	488199.44	3856839.39	2.67123	0.81114	1.63752	2.55587	41.02	1.973	1.2578	0.81114	27.8709975	1.49811529	0.0001705	0.134628	19.23489	0.277577	8.911825	5.51563083	52.41257
273	487949.44	3856889.39	2.95998	0.82356	1.49273	3.02212	54.94	2.198	1.4674	0.82356	30.8837484	1.521054107	0.0001554	0.159187	25.76219	0.309155	10.39685	5.60008497	63.43225
274	487999.44	3856889.39	2.88662	0.83628	1.48302	2.9222	52.63	2.165	1.4274	0.83628	30.118327	1.544547001	0.0001544	0.153924	24.68015	0.304498	10.11343	5.68657907	61.22845
275	488049.44	3856889.39	2.83705	0.82858	1.51535	2.84026	50.75	2.117	1.3974	0.82858	29.6011251	1.530325674	0.0001578	0.149608	23.79799	0.297843	9.9008	5.63422022	59.64363
276	488099.44	3856889.39	2.79079	0.83181	1.51106	2.76141	47.64	2.091	1.3625	0.83181	29.1184589	1.536291243	0.0001573	0.145455	22.33855	0.294204	9.653733	5.65618374	57.43066
277	488635.86	3857895.05	3.42484	1.46746	6.79304	4.47146	16.13	4.851	1.8307	1.46746	35.7339903	2.710289547	0.0007072	0.23553	7.56527	0.682446	12.97124	9.97850878	49.92097
278	489137.64	3857804.15	2.87514	1.16851	4.59606	2.91926	16.6	3.399	1.3288	1.16851	29.9985474	2.158151117	0.0004785	0.153769	7.783102	0.478222	9.414744	7.94569344	42.04132
279	488617.32	3857859.41	3.37582	1.44798	7.01345	4.3692	17.52	4.824	1.8108	1.44798	35.222527	2.674311435	0.0007301	0.230144	8.215145	0.6786	12.83038	9.84604769	50.00579
280	488667.32	3857859.41	3.30616	1.41581	6.78539	4.16976	16.04	4.631	1.7462	1.41581	34.4957106	2.614895836	0.0007064	0.219638	7.52144	0.651416	12.37239	9.6272965	48.2489
281	488717.32	3857859.41	3.24491	1.38784	6.59953	3.9884	16.2	4.464	1.6776	1.38784	33.8566422	2.563237325	0.0006871	0.210085	7.598043	0.628024	11.88668	9.43710467	47.3063
282	488767.32	3857859.41	3.18766	1.36445	6.31217	3.81676	16.18	4.335	1.6215	1.36445	33.2593089	2.520037733	0.0006571	0.201044	7.587624	0.60982	11.48891	9.27805617	46.38935
283	488617.32	3857909.41	3.51268	1.49543	6.99579	4.64219	15.78	4.975	1.8734	1.49543	36.6504926	2.761948058	0.0007283	0.244523	7.399564	0.699831	13.27343	10.1687006	50.86182
284	488667.32	3857909.41	3.41222	1.47109	6.7662	4.36848	15.06	4.79	1.8126	1.47109	35.6023162	2.716993887	0.0007044	0.230106	7.061482	0.673812	12.84257	10.0031922	49.12479
285	488717.32	3857909.41	3.34407	1.4306	6.47966	4.20367	14.33	4.609	1.7469	1.4306	34.8912548	2.642211867	0.0006746	0.221424	6.718074	0.648443	12.37749	9.72786629	47.7717
286	488767.32	3857909.41	3.27819	1.40914	6.17924	4.00577	14.16	4.497	1.6879	1.40914	34.2038781	2.602576842	0.0006433	0.211	6.637978	0.632655	11.95966	9.58194149	46.66645
287	488417.32	3857959.41	4.1102	1.65927	8.71919	6.88081	18.9	6.47	2.2853	1.65927	42.8848784	3.06454836	0.0009077	0.36244	8.863314	0.910165	16.19189	11.2827881	60.99536
288	488467.32	3857959.41	3.98217	1.64429	8.30318	6.20115	17.96	6.04	2.1889	1.64429	41.549043	3.036881414	0.0008644	0.32664	8.420105	0.849679	15.509	11.1809264	58.51129
289	488517.32	3857959.41	3.86905	1.6237	7.90528	5.66662	16.62	5.714	2.1174	1.6237	40.368775	2.998853214	0.000823	0.298484	7.794937	0.803754	15.00261	11.0409174	56.22732
290	488567.32	3857959.41	3.76495	1.58284	7.52177	5.27558	15.08	5.418	2.0361	1.58284	39.2826196	2.923387831	0.0007831	0.277886	7.071076	0.762119	14.42622	10.7630755	53.98102
291	488617.32	3857959.41	3.65332	1.55194	7.1358	4.98422	14.49	5.165	1.9493	1.55194	38.1178979	2.866317828	0.0007429	0.262539	6.795347	0.72658	13.81149	10.5529602	52.02796

292	488667.32	3857959.41	3.54906	1.52088	6.89766	4.76507	13.55	4.956	1.8754	1.52088
293	488717.32	3857959.41	3.45805	1.49432	6.58333	4.54052	12.43	4.759	1.8072	1.49432
294	488767.32	3857959.41	3.39705	1.46476	6.32444	4.32499	12.1	4.554	1.7465	1.46476
295	488417.32	3858009.41	4.33028	1.74849	9.14019	7.77422	17.34	7.007	2.4001	1.74849
296	488467.32	3858009.41	4.1531	1.72473	8.66551	6.87182	17.08	6.414	2.3245	1.72473
297	488517.32	3858009.41	4.02447	1.69354	8.19885	6.26887	15.77	6.028	2.2298	1.69354
298	488567.32	3858009.41	3.91006	1.66031	7.71912	5.81406	14.75	5.675	2.1599	1.66031
299	488617.32	3858009.41	3.80976	1.6174	7.26312	5.50917	12.92	5.325	2.0613	1.6174
300	488667.32	3858009.41	3.69466	1.58257	6.8415	5.17071	12.35	5.027	1.9576	1.58257
301	488717.32	3858009.41	3.59065	1.55306	6.51143	4.8577	11.64	4.848	1.882	1.55306
302	488767.32	3858009.41	3.54204	1.52301	6.24394	4.60188	11.09	4.695	1.8199	1.52301
303	488417.32	3858059.41	4.5457	1.84949	7.74781	8.85241	15.77	7.606	2.5544	1.84949
304	488467.32	3858059.41	4.38505	1.82426	7.37168	7.6545	15.63	6.972	2.4791	1.82426
305	488517.32	3858059.41	4.20503	1.77669	7.01819	6.93065	15.14	6.456	2.3886	1.77669
306	488567.32	3858059.41	4.08228	1.74489	6.70485	6.398	14.34	6.013	2.2986	1.74489
307	488617.32	3858059.41	3.9735	1.71729	6.4368	6.01313	13.02	5.689	2.1853	1.71729
308	488667.32	3858059.41	3.85906	1.66949	6.16217	5.59575	11.76	5.387	2.069	1.66949
309	488417.32	3858109.41	4.74188	1.97475	7.2369	11.11265	11.89	8.154	2.6984	1.97475
310	488467.32	3858109.41	4.58891	1.91483	6.91766	9.23177	13.75	7.391	2.6036	1.91483
311	488517.32	3858109.41	4.43166	1.87926	6.61809	7.95633	13.95	6.821	2.5124	1.87926
312	488567.32	3858109.41	4.27935	1.84407	6.3025	7.21763	13.74	6.43	2.4083	1.84407
313	488617.32	3858109.41	4.15917	1.80636	6.00004	6.5505	12.88	6.049	2.3036	1.80636
314	488667.32	3858109.41	4.03462	1.76286	5.71377	6.14657	11.75	5.743	2.1979	1.76286
315	488769.93	3858449.27	4.47584	2.6419	3.62602	13.76595	6.698	8.085	2.9579	2.6419
316	488819.93	3858449.27	4.3604	2.5434	3.29561	11.03586	6.288	7.377	2.7819	2.5434
317	488819.93	3858499.27	4.41414	2.72633	3.61108	14.11803	6.287	8.216	2.9912	2.72633
318	488869.93	3858499.27	4.39228	2.62578	3.55936	11.85088	5.779	7.31	2.807	2.62578
319	488869.93	3858549.27	4.59135	2.789	3.65079	14.70687	5.908	8.424	3.0245	2.789
320	489438.17	3859571.48	3.22255	2.60385	4.4049	5.1411	1.511	2.819	2.6729	2.60385
321	489488.17	3859571.48	3.01961	2.72928	4.97332	5.05923	1.329	2.831	2.7819	2.72928
322	489538.17	3859571.48	2.8376	2.89776	4.99048	4.96511	1.384	2.864	2.9382	2.89776
323	489588.17	3859571.48	2.74253	3.08591	5.45522	5.03925	1.338	2.983	3.1178	3.08591
324	489438.17	3859621.48	3.2058	2.35815	3.43728	4.97294	1.522	2.709	2.403	2.35815
325	489488.17	3859621.48	3.05352	2.50009	3.76869	4.83542	1.411	2.698	2.5274	2.50009
326	489538.17	3859621.48	2.90205	2.62502	3.52148	4.71843	1.316	2.771	2.6117	2.62502
327	489588.17	3859621.48	2.77091	2.77638	3.54543	4.65948	1.347	2.733	2.7967	2.77638
328	489238.17	3859671.48	3.93159	1.86351	2.47699	10.26491	1.676	2.641	1.8074	1.86351
329	489288.17	3859671.48	3.74042	1.92583	2.60646	7.51461	1.582	2.627	1.8744	1.92583
330	489338.17	3859671.48	3.45116	2.00264	2.87532	6.09105	1.48	2.667	1.9721	2.00264
331	489388.17	3859671.48	3.29555	2.11916	2.71296	5.32016	1.473	2.631	2.0709	2.11916
332	489438.17	3859671.48	3.21621	2.21759	2.83977	4.76462	1.448	2.661	2.2171	2.21759
333	489488.17	3859671.48	3.12673	2.32454	2.71706	4.61741	1.493	2.609	2.3753	2.32454
334	489538.17	3859671.48	2.99943	2.41776	2.53237	4.56087	1.297	2.642	2.5032	2.41776
335	489588.17	3859671.48	2.86737	2.56838	2.94086	4.49494	1.291	2.663	2.6011	2.56838
336	489238.17	3859721.48	3.74655	1.7398	2.69998	10.28145	1.52	2.706	1.7383	1.7398
337	489288.17	3859721.48	3.59453	1.81796	2.57303	7.51295	1.621	2.597	1.8305	1.81796
338	489338.17	3859721.48	3.46427	1.89458	2.31378	5.95569	1.502	2.564	1.8896	1.89458
339	489388.17	3859721.48	3.32066	1.96123	2.18116	5.2006	1.46	2.544	1.9635	1.96123
340	489438.17	3859721.48	3.2282	2.03385	2.2091	4.71753	1.445	2.568	2.0424	2.03385
341	489488.17	3859721.48	3.09554	2.18354	1.92126	4.43136	1.379	2.619	2.1964	2.18354
342	489538.17	3859721.48	2.96617	2.27398	2.44055	4.39096	1.402	2.583	2.3246	2.27398
343	489588.17	3859721.48	2.91385	2.36302	2.63578	4.34953	1.193	2.574	2.4266	2.36302
344	489238.17	3859771.48	3.3624	1.67488	2.16664	10.25138	1.335	2.7	1.6462	1.67488
345	489288.17	3859771.48	3.3203	1.72751	2.03157	7.49856	1.537	2.607	1.7253	1.72751
346	489338.17	3859771.48	3.29304	1.76985	1.93621	5.93307	1.536	2.54	1.794	1.76985
347	489388.17	3859771.48	3.24085	1.86575	1.91143	5.09737	1.439	2.525	1.8499	1.86575
348	489438.17	3859771.48	3.1148	1.92787	1.79612	4.67537	1.436	2.555	1.9365	1.92787
349	489488.17	3859771.48	3.00931	2.02829	1.91632	4.29609	1.384	2.541	2.029	2.02829
350	489538.17	3859771.48	2.92669	2.15131	2.0067	4.22477	1.399	2.496	2.1747	2.15131

37.0300732	2.808952316	0.0007181	0.250996	6.355323	0.697178	13.28774	10.3417568	50.08923	
36.0804958	2.759897971	0.0006854	0.239168	5.830002	0.669415	12.80481	10.1611528	48.22332	
35.4440359	2.705302848	0.0006584	0.227815	5.674396	0.640567	12.37487	9.96014918	47.10749	
45.1811424	3.229331069	0.0009515	0.4095	8.131767	0.985781	17.00565	11.8894708	63.05465	
43.3324871	3.185448115	0.0009021	0.361967	8.010884	0.902304	16.47006	11.7279063	60.53615	
41.9903914	3.127842503	0.0008536	0.330207	7.39682	0.847961	15.79887	11.515819	57.97712	
40.7966639	3.066469163	0.0008036	0.30625	6.916783	0.798317	15.30346	11.28986	55.89888	
39.7501568	2.987217582	0.0007561	0.29019	6.05958	0.749108	14.60505	10.9980784	53.44399	
38.54923	2.922889161	0.0007122	0.272362	5.790711	0.70718	13.87059	10.7612396	51.35243	
37.4640136	2.868386385	0.0006779	0.255875	5.456789	0.682019	13.33472	10.560576	49.5019	
36.9568281	2.812886268	0.00065	0.2424	5.198551	0.660409	12.89458	10.3562405	48.41006	
47.428785	3.415870562	0.0008066	0.466293	7.396849	1.069974	18.09885	12.5762557	65.30117	
45.7525999	3.369272627	0.0007674	0.403194	7.330557	0.980756	17.5656	12.4046955	62.99805	
43.8743128	3.281414373	0.0007306	0.365066	7.099024	0.908252	16.92423	12.0812266	60.37181	
42.5935676	3.222682136	0.000698	0.337009	6.725548	0.845944	16.2862	11.8649913	58.14666	
41.4585822	3.171706988	0.0006701	0.316736	6.103129	0.800276	15.48357	11.6773155	55.65735	
40.2645416	3.083423941	0.0006415	0.294751	5.512651	0.75778	14.65968	11.3522826	53.22119	
49.4756818	3.647216471	0.0007534	0.585349	5.576481	1.147139	19.11893	13.428005	66.12354	
47.8796281	3.536548685	0.0007202	0.486275	6.446063	1.039677	18.44745	13.0205579	64.8158	
46.2389179	3.470853539	0.000689	0.419092	6.540949	0.959618	17.80147	12.7786873	62.65291	
44.6497505	3.405860224	0.0006561	0.380182	6.442968	0.904482	17.06353	12.5394005	60.30803	
43.3958201	3.336212657	0.0006246	0.345042	6.040415	0.850886	16.32205	12.2829782	58.00807	
42.0962942	3.255871391	0.0005948	0.323765	5.509031	0.807836	15.57277	11.9871847	55.57898	
46.6998818	4.879392934	0.0003775	0.725109	3.140882	1.137383	20.95807	17.9645253	59.57657	
45.4954075	4.697470755	0.0003431	0.581304	2.948761	1.037757	19.71048	17.29474	57.17678	
46.0561183	5.035328868	0.0003759	0.743654	2.948175	1.1558	21.19387	18.5386367	58.59469	
45.8280361	4.849620492	0.0003706	0.624234	2.710053	1.028378	19.88882	17.8549117	57.0746	
47.9050865	5.1510757	0.0003801	0.774671	2.770375	1.185116	21.42982	18.9647834	60.25174	
33.6233432	4.809117412	0.0004586	0.270803	0.708607	0.396519	18.9386	17.705791	41.04166	
31.505914	5.040777299	0.0005178	0.26649	0.623142	0.39826	19.71091	18.5586963	38.98731	
29.6068637	5.351947336	0.0005195	0.261533	0.64919	0.402953	20.81807	19.7043351	37.38674	
28.6149252	5.699446401	0.0005679	0.265438	0.627367	0.419575	22.09088	20.983727	36.73447	
33.4485775	4.355327774	0.0003578	0.261945	0.713892	0.381036	17.02577	16.0350677	40.15184	
31.8597231	4.617480404	0.0003923	0.254701	0.661481	0.379514	17.90726	17.0002385	38.68031	
30.2793201	4.848216828	0.0003666	0.248539	0.616943	0.389852	18.50455	17.8497439	37.03805	
28.9110356	5.127767498	0.0003691	0.245434	0.631803	0.384516	19.81535	18.8789692	36.2373	
41.0213029	3.441764459	0.0002579	0.540695	0.785946	0.371582	12.80636	12.6715896	46.29632	
39.0266792	3.556864867	0.0002713	0.395825	0.741905	0.369523	13.28087	13.0953563	44.27658	
36.0086071	3.698727228	0.0002993	0.32084	0.694	0.375139	13.97332	13.6176528	41.45328	
34.3850083	3.913931008	0.0002824	0.280235	0.690807	0.370115	14.67314	14.4099714	39.90355	
33.5571931	4.095723902	0.0002956	0.250972	0.678882	0.374334	15.70924	15.0792807	39.58736	
32.6235794	4.293252602	0.0002829	0.243218	0.700242	0.367085	16.82964	15.8065247	39.25078	
31.2953606	4.465423013	0.0002636	0.24024	0.608366	0.371679	17.73579	16.4404068	38.27672	
29.917477	4.743606958	0.0003062	0.236767	0.605187	0.374551	18.42987	17.4646003	36.84317	
39.0906382	3.213281285	0.0002811	0.541566	0.712973	0.380639	12.31627	11.8303801	44.42527	
37.5044966	3.357636995	0.0002679	0.395738	0.760052	0.365395	12.96975	12.3618564	42.99148	
36.1453939	3.49914844	0.0002409	0.31371	0.70426	0.360646	13.38829	12.882861	41.52882	
34.6470003	3.622246036	0.0002271	0.273937	0.684463	0.357904	13.91204	13.336071	40.16174	
33.6822939	3.756369779	0.00023	0.248492	0.677509	0.361223	14.47142	13.8298762	39.36766	
32.2981501	4.032836082	0.0002	0.233418	0.646743	0.368497	15.56222	14.8477458	38.29431	
30.9483334	4.19987204	0.0002541	0.23129	0.657453	0.363305	16.47035	15.4627243	37.40813	
30.4024386	4.364322302	0.0002744	0.229107	0.559552	0.362092	17.19312	16.068183	37.04273	
35.0825058	3.09337887	0.0002256	0.539982	0.625815	0.379815	11.66385	11.3889338	39.99664	
34.6432441	3.190582568	0.0002115	0.39498	0.720626	0.366743	12.22459	11.7468099	39.79416	
34.3588195	3.268781401	0.0002016	0.312519	0.720466	0.357267	12.71078	12.0347156	39.69412	
33.8142811	3.445901573	0.000199	0.268499	0.674939	0.355253	13.10714	12.6868213	38.97939	
32.4991045	3.560632596	0.000187	0.246271	0.673232	0.35946	13.72094	13.109228	37.9506	
31.3984462	3.746100872	0.0001995	0.226293	0.648829	0.357508	14.37641	13.792069	36.96172	
30.5364082	3.973309668	0.0002089	0.222536	0.656145	0.351062	15.40839	14.6285866	36.51947	

351	489588.17	3859771.48	2.84543	2.27686	2.38186	4.19708	1.289	2.507	2.3036	2.27686
352	489238.17	3859821.48	3.08432	1.59994	1.61113	10.22035	1.171	2.697	1.5613	1.59994
353	489288.17	3859821.48	3.12008	1.66024	1.50507	7.5021	1.385	2.565	1.6184	1.66024
354	489338.17	3859821.48	3.05562	1.70171	1.69677	5.89873	1.559	2.518	1.6827	1.70171
355	489388.17	3859821.48	3.08382	1.76668	1.71525	5.02815	1.459	2.459	1.7455	1.76668
356	489438.17	3859821.48	3.10343	1.85438	1.69413	4.54209	1.423	2.469	1.8212	1.85438
357	489488.17	3859821.48	3.03164	1.93937	1.90606	4.18714	1.416	2.463	1.9176	1.93937
358	489538.17	3859821.48	2.84951	2.01931	1.93006	4.09463	1.313	2.472	1.9868	2.01931
359	489588.17	3859821.48	2.74212	2.09565	1.86772	4.07296	1.4	2.449	2.1137	2.09565
360	489238.17	3859871.48	3.08524	1.54375	1.12806	10.17002	1.054	2.736	1.4712	1.54375
361	489288.17	3859871.48	3.05261	1.57525	1.33291	7.49657	1.2	2.638	1.5066	1.57525
362	489338.17	3859871.48	3.07215	1.61382	1.43446	5.87653	1.419	2.568	1.5685	1.61382
363	489388.17	3859871.48	3.01268	1.66632	1.43861	4.9701	1.491	2.561	1.6376	1.66632
364	489438.17	3859871.48	2.97434	1.75283	1.6817	4.39231	1.404	2.489	1.7264	1.75283
365	489488.17	3859871.48	2.95521	1.83697	1.73633	4.029	1.41	2.415	1.8032	1.83697
366	489538.17	3859871.48	2.9328	1.91506	1.76562	3.97414	1.36	2.395	1.8719	1.91506
367	489588.17	3859871.48	2.85914	1.97563	1.64387	3.90176	1.259	2.324	1.9373	1.97563
368	489238.17	3859921.48	3.25713	1.50118	1.11348	10.09367	0.966	2.799	1.4095	1.50118
369	489288.17	3859921.48	3.23855	1.53339	1.21782	7.33167	1.082	2.716	1.4372	1.53339
370	489338.17	3859921.48	3.27023	1.56409	1.39105	5.7684	1.238	2.662	1.4731	1.56409
371	489388.17	3859921.48	3.24048	1.61071	1.43043	4.79298	1.447	2.571	1.5328	1.61071
372	489438.17	3859921.48	3.14466	1.66285	1.43497	4.16775	1.432	2.464	1.6012	1.66285
373	489488.17	3859921.48	3.10604	1.70059	1.54563	3.86221	1.395	2.394	1.6787	1.70059
374	489538.17	3859921.48	3.08142	1.75359	1.50854	3.80274	1.391	2.332	1.7492	1.75359
375	489588.17	3859921.48	2.99441	1.81244	1.61412	3.71519	1.287	2.303	1.7946	1.81244
376	489238.17	3859971.48	3.66787	1.46679	1.04594	9.96138	0.883	2.811	1.3466	1.46679
377	489288.17	3859971.48	3.57127	1.49218	1.18819	7.25189	0.98	2.738	1.3771	1.49218
378	489338.17	3859971.48	3.4162	1.5236	1.16829	5.64066	1.113	2.71	1.4144	1.5236
379	489388.17	3859971.48	3.29276	1.55328	1.12865	4.5737	1.283	2.558	1.4595	1.55328
380	489438.17	3859971.48	3.16262	1.57183	1.30641	3.88088	1.462	2.368	1.4952	1.57183
381	489488.17	3859971.48	3.10653	1.5818	1.2301	3.37357	1.383	2.22	1.5279	1.5818
382	489538.17	3859971.48	3.05699	1.58916	1.37715	3.19014	1.394	2.21	1.552	1.58916
383	489588.17	3859971.48	3.01481	1.56899	1.35016	3.01978	1.355	2.128	1.5705	1.56899
384	483577.7	3854071	2.56563	1.4504	0.41256	6.01819	0.383	4.302	2.6658	1.4504
385	483627.7	3854071	2.37867	1.36416	0.4156	5.32828	0.393	3.946	2.5144	1.36416
386	483677.7	3854071	2.17995	1.2602	0.4024	4.72727	0.391	3.565	2.3641	1.2602
387	483727.7	3854071	2.07089	1.19348	0.38849	4.29983	0.367	3.219	2.2521	1.19348
388	483777.7	3854071	2.00437	1.08559	0.37683	3.88468	0.358	2.868	2.0671	1.08559
389	483577.7	3854121	2.6353	1.46054	0.45167	7.3161	0.374	4.786	2.9797	1.46054
390	483627.7	3854121	2.50953	1.34486	0.44692	6.27856	0.385	4.34	2.7129	1.34486
391	483677.7	3854121	2.3833	1.20993	0.42616	5.33289	0.395	3.775	2.5426	1.20993
392	483727.7	3854121	2.22273	1.08009	0.45172	4.6931	0.401	3.354	2.3184	1.08009
393	483777.7	3854121	2.10863	1.01667	0.40621	4.2148	0.368	3.047	2.1796	1.01667
394	483577.7	3854171	2.73564	1.38066	0.49568	9.29808	0.406	5.189	3.135	1.38066
395	483627.7	3854171	2.61262	1.22552	0.4763	7.2203	0.379	4.371	2.8083	1.22552
396	483677.7	3854171	2.48053	1.10409	0.47946	6.09249	0.386	3.867	2.5879	1.10409
397	483727.7	3854171	2.37543	1.02521	0.46818	5.40346	0.389	3.502	2.4281	1.02521
398	483777.7	3854171	2.26586	0.93851	0.47403	4.71461	0.379	3.105	2.2816	0.93851
399	483827.7	3854171	2.16065	0.85881	0.57065	3.99095	0.373	2.677	2.114	0.85881
400	483877.7	3854171	2.10061	0.78342	0.65422	3.58632	0.371	2.474	2.0113	0.78342
401	483727.7	3854221	2.46005	0.98937	0.51598	6.38379	0.388	3.853	2.6221	0.98937
402	483777.7	3854221	2.36971	0.88932	0.59013	5.55058	0.391	3.363	2.3664	0.88932
403	483827.7	3854221	2.28214	0.85886	0.68383	5.07283	0.383	3.183	2.3157	0.85886
404	483877.7	3854221	2.21593	0.79868	0.73529	4.36225	0.381	2.812	2.1579	0.79868
405	489150.19	3858726.45	3.82558	2.89767	2.41993	13.51665	3.487	6.983	2.8623	2.89767
406	489200.19	3858726.45	3.71488	2.75608	2.40481	19.59498	3.433	6.476	2.7244	2.75608
407	489150.19	3858776.45	3.83623	3.18484	2.11867	15.55596	3.663	7.695	3.1271	3.18484
408	489200.19	3858776.45	3.7323	3.02722	2.1125	21.10444	3.114	7.067	2.9544	3.02722
409	488919.6	3856400.76	2.14416	0.60033	1.3187	1.54656	12.17	1.311	0.9087	0.60033

29.6885601	4.205191186	0.000248	0.221077	0.604648	0.352676	16.32205	15.4823079	35.91214
32.1810832	2.95497026	0.0001677	0.538347	0.549268	0.379365	11.06237	10.879353	36.78622
32.5541948	3.066339878	0.0001567	0.395166	0.649266	0.360815	11.46666	11.289384	37.20322
31.881634	3.142931886	0.0001766	0.31071	0.731143	0.354196	11.92282	11.5713738	36.77224
32.1758663	3.262926647	0.0001786	0.264853	0.684383	0.345929	12.36721	12.0131601	37.08819
32.3804726	3.424902028	0.0001764	0.23925	0.667197	0.347262	12.904	12.609507	37.35375
31.6314323	3.581872241	0.0001984	0.220554	0.663764	0.346435	13.58668	13.1874263	36.84351
29.7311299	3.729515479	0.0002009	0.215681	0.615611	0.347811	14.07748	13.7310063	34.98642
28.6106474	3.870509785	0.0001944	0.214539	0.656384	0.344573	14.97626	14.2501069	34.423
32.1906823	2.851191507	0.0001174	0.535696	0.494405	0.384931	10.42412	10.4972694	36.38388
31.8502284	2.909369665	0.0001388	0.394875	0.562558	0.371135	10.67502	10.7114647	36.05186
32.0541043	2.980605588	0.0001493	0.309541	0.665485	0.361281	11.11311	10.9737349	36.51054
31.433608	3.077569186	0.0001498	0.261795	0.699355	0.36033	11.6027	11.3307271	36.10478
31.0335773	3.237346726	0.0001751	0.231361	0.658414	0.350194	12.2321	11.9189821	35.82418
30.8339793	3.392747052	0.0001808	0.212224	0.661153	0.339778	12.77654	12.4911216	35.72548
30.6001585	3.536973478	0.0001838	0.209334	0.63796	0.336868	13.26323	13.0221219	35.56258
29.8316071	3.648841766	0.0001711	0.205522	0.590397	0.326929	13.72647	13.4339889	34.89595
33.9841429	2.772567881	0.0001159	0.531675	0.452873	0.393699	9.986887	10.2077997	37.91416
33.7902835	2.832057357	0.0001268	0.386189	0.507502	0.382111	10.18301	10.4268229	37.65446
34.1208253	2.888757975	0.0001448	0.303845	0.580405	0.374493	10.43773	10.6355783	38.07062
33.8104206	2.97486165	0.0001489	0.252466	0.678629	0.361732	10.86037	10.9525874	37.98604
32.8106569	3.071160354	0.0001494	0.219532	0.671281	0.346653	11.34494	11.3071316	37.15724
32.4077047	3.140863329	0.0001609	0.203438	0.65418	0.336752	11.89384	11.563758	37.07318
32.1508253	3.23875039	0.000157	0.200306	0.65221	0.328097	12.394	11.92415	37.04019
31.242983	3.347441965	0.000168	0.195694	0.603424	0.323914	12.71539	12.3243212	36.10469
38.2697093	2.709052107	0.0001089	0.524706	0.414243	0.395393	9.541359	9.97395288	41.88062
37.2618072	2.75594555	0.0001237	0.381987	0.459564	0.385155	9.757038	10.1466011	40.85502
35.6438426	2.813975954	0.0001216	0.297117	0.521748	0.381181	10.02161	10.3602524	39.31934
34.3558981	2.868792708	0.0001175	0.240915	0.601534	0.35979	10.34087	10.562072	38.20585
32.9980474	2.903053179	0.000136	0.204422	0.685705	0.333102	10.59431	10.6882092	37.03057
32.4128172	2.921467028	0.0001281	0.1777	0.648389	0.31223	10.82537	10.7560037	36.5421
31.8959283	2.935060401	0.0001434	0.168038	0.653462	0.310913	10.99634	10.8060506	36.15383
31.4558319	2.89780791	0.0001406	0.159064	0.635357	0.299426	11.12749	10.6688976	35.90622
26.7691914	2.678780995	4.295E-05	0.317003	0.179723	0.605191	18.88787	9.86250333	39.5753
24.8184939	2.519502125	4.327E-05	0.280662	0.184501	0.555045	17.81529	9.27608421	36.89745
22.7450953	2.327495732	4.189E-05	0.249005	0.183188	0.501547	16.75036	8.56917174	34.18756
21.6071884	2.204268851	4.044E-05	0.22649	0.172229	0.452787	15.95673	8.11548571	32.50425
20.9131341	2.005004041	3.923E-05	0.204622	0.167714	0.403452	14.64587	7.38184983	30.95798
27.4961122	2.697508821	4.702E-05	0.385369	0.175582	0.673211	21.11225	9.93145381	42.60863
26.183857	2.48385646	4.653E-05	0.330717	0.180698	0.610551	19.22188	9.14484709	39.86675
24.8668023	2.234650779	4.437E-05	0.280905	0.18527	0.53104	18.01538	8.22734325	37.88675
23.191452	1.994845949	4.703E-05	0.247205	0.188234	0.471756	16.4267	7.34445065	35.17579
22.0009589	1.877713923	4.229E-05	0.222011	0.172332	0.428659	15.44311	6.91320412	33.23162
28.5430366	2.549976399	5.16E-05	0.489768	0.19055	0.730021	22.21225	9.38828175	45.32737
27.2594743	2.26344435	4.959E-05	0.380323	0.177505	0.61485	19.89754	8.33335292	42.25983
25.8812777	2.039172165	4.991E-05	0.320916	0.181115	0.544037	18.33613	7.50764706	39.79506
24.7846885	1.893486668	4.874E-05	0.284622	0.182405	0.492672	17.20396	6.97127485	37.87061
23.6414604	1.733358213	4.935E-05	0.248338	0.177598	0.436863	16.1661	6.3817278	36.02204
22.5437236	1.586158237	5.941E-05	0.21022	0.175066	0.376649	14.97831	5.8397797	34.03041
21.9172801	1.44691851	6.811E-05	0.188906	0.173936	0.348016	14.25072	5.32713897	32.9987
25.6675941	1.827292852	5.372E-05	0.33626	0.181819	0.542093	18.57817	6.7275682	40.40571
24.7250074	1.642507939	6.144E-05	0.292372	0.18324	0.473118	16.76673	6.04724315	38.03579
23.8113222	1.586250583	7.119E-05	0.267207	0.179408	0.447762	16.40778	5.8401197	36.85968
23.1205023	1.475102596	7.655E-05	0.229777	0.178471	0.395562	15.28915	5.43090469	35.25773
39.915219	5.351781113	0.0002519	0.711977	1.63529	0.982281	20.28036	19.7037231	49.17343
38.7602008	5.090274907	0.0002504	1.032147	1.609748	0.910957	19.30329	18.7409323	47.96593
40.0263387	5.882162758	0.0002206	0.819396	1.717782	1.082529	22.15656	21.6564362	50.02855
38.941957	5.591050334	0.0002199	1.111657	1.460219	0.994175	20.93285	20.5846438	48.44748
22.3716707	1.108764889	0.0001373	0.081464	5.707408	0.184391	6.438113	4.08215432	31.80979

410	488919.6	3856450.76	2.16983	0.61112	1.36206	1.56404	14.03	1.339	0.9198	0.61112	22.6395056	1.128693217	0.0001418	0.082384	6.580554	0.188321	6.517257	4.15552471	32.98133
411	488969.6	3856450.76	2.1562	0.60572	1.4146	1.54339	13.85	1.311	0.9164	0.60572	22.4972933	1.118719818	0.0001473	0.081297	6.493752	0.184492	6.492954	4.11880551	32.74985
412	488919.6	3856500.76	2.19764	0.61761	1.40097	1.60793	15.75	1.362	0.9274	0.61761	22.9296687	1.140679764	0.0001458	0.084696	7.384732	0.191652	6.570751	4.19965574	34.10267
413	488969.6	3856500.76	2.18143	0.61635	1.41348	1.59128	16.33	1.332	0.9256	0.61635	22.7605373	1.138352638	0.0001472	0.083819	7.659021	0.187369	6.55821	4.19108792	34.19637
414	488919.6	3856550.76	2.19755	0.63235	1.41943	1.63785	17.66	1.375	0.9362	0.63235	22.9287297	1.167903449	0.0001478	0.086272	8.279739	0.19339	6.633598	4.29988553	34.98989
415	488969.6	3856550.76	2.17841	0.62643	1.42522	1.62149	17.49	1.357	0.9308	0.62643	22.7290273	1.156969649	0.0001484	0.08541	8.201354	0.190905	6.5947	4.25963042	34.69888
416	488819.6	3856600.76	2.24035	0.65737	1.54589	1.72633	20.5	1.446	0.9607	0.65737	23.375295	1.214113529	0.0001609	0.090933	9.611952	0.203482	6.806906	4.4700178	36.83282
417	488869.6	3856600.76	2.2187	0.65035	1.51983	1.6989	20.55	1.429	0.9541	0.65035	23.1494039	1.201148111	0.0001582	0.089488	9.6362	0.201038	6.759788	4.42228285	36.61494
418	488919.6	3856600.76	2.19725	0.64772	1.47485	1.66052	20.14	1.408	0.9491	0.64772	22.9255995	1.196290696	0.0001535	0.087466	9.446288	0.198074	6.724645	4.40439924	36.17412
419	488819.6	3856650.76	2.23624	0.67585	1.54758	1.74586	23.5	1.476	0.9684	0.67585	23.3324122	1.248244716	0.0001611	0.091962	11.01844	0.207653	6.861322	4.59567904	38.16452
420	488869.6	3856650.76	2.21815	0.67011	1.54378	1.72217	22.64	1.453	0.961	0.67011	23.1436653	1.237643362	0.0001607	0.090714	10.61404	0.20443	6.808961	4.55664789	37.54296
421	488819.6	3856700.76	2.2692	0.69548	1.52134	1.77881	25.18	1.51	0.9768	0.69548	23.6763092	1.284499867	0.0001584	0.093697	11.80795	0.212415	6.920768	4.7291601	39.26664
422	488869.6	3856700.76	2.24569	0.68976	1.45841	1.74819	24.83	1.504	0.9688	0.68976	23.4310113	1.273935452	0.0001518	0.092084	11.64152	0.211581	6.864368	4.69026496	38.82439
423	488819.6	3856750.76	2.28818	0.71739	1.56941	1.82021	26.34	1.547	0.9959	0.71739	23.8743422	1.324966008	0.0001634	0.095878	12.35008	0.217555	7.056169	4.87814483	40.04101
424	488869.6	3856750.76	2.26261	0.71428	1.43999	1.78187	25.54	1.579	0.9796	0.71428	23.6075507	1.319222069	0.0001499	0.093858	11.97752	0.222057	6.940819	4.8569973	39.30418
425	488819.6	3857050.76	2.39222	0.84952	1.64337	2.1583	30.51	1.896	1.1279	0.84952	24.9598715	1.569000297	0.0001711	0.113686	14.30756	0.266661	7.991224	5.77660909	43.43157
426	488869.6	3857050.76	2.35957	0.84561	1.63957	2.12233	29.27	1.877	1.1121	0.84561	24.619209	1.561778818	0.0001707	0.111792	13.72664	0.264027	7.879488	5.75002168	42.41309
427	488919.6	3857050.76	2.32893	0.83975	1.64099	2.08833	28.39	1.851	1.0945	0.83975	24.2995183	1.550955833	0.0001708	0.110001	13.31162	0.260336	7.755211	5.71017455	41.57764
428	488819.6	3857100.76	2.41347	0.87751	1.61081	2.19466	31.56	1.952	1.1429	0.87751	25.1815891	1.620695747	0.0001677	0.115602	14.79791	0.27461	8.098142	5.96693691	44.12178
429	488869.6	3857100.76	2.38879	0.87107	1.53716	2.15714	30.52	1.929	1.1288	0.87107	24.9240837	1.608801545	0.00016	0.113625	14.30914	0.271304	7.998239	5.92314587	43.30221
430	488919.6	3857100.76	2.36376	0.87108	1.57104	2.12044	29.43	1.928	1.1129	0.87108	24.6629264	1.608820015	0.0001636	0.111692	13.80057	0.271247	7.885298	5.92321387	42.4175
431	488819.6	3857150.76	2.45064	0.91051	1.43955	2.24466	32.15	2.051	1.1635	0.91051	25.5694123	1.681644294	0.0001499	0.118235	15.07486	0.288491	8.243605	6.19133198	44.78506
432	488869.6	3857150.76	2.41446	0.90899	1.45535	2.19728	30.44	2.031	1.1443	0.90899	25.1919185	1.678836967	0.0001515	0.11574	14.27523	0.285728	8.10792	6.18099621	43.47453
433	488919.6	3857150.76	2.38425	0.90518	1.50833	2.15695	29.25	1.988	1.1268	0.90518	24.8767144	1.67180018	0.000157	0.113615	13.71498	0.279724	7.983501	6.15508878	42.4854
434	488969.6	3857150.76	2.35957	0.90197	1.60727	2.12057	28.1	1.953	1.1103	0.90197	24.619209	1.665871549	0.0001673	0.111699	13.17612	0.274699	7.866805	6.13326126	41.58131
435	488819.6	3857200.76	2.50129	0.94325	1.54104	2.33693	33.4	2.125	1.1826	0.94325	26.0978827	1.74211264	0.0001604	0.123096	15.6632	0.298904	8.37936	6.41395909	45.89076
436	488869.6	3857200.76	2.47069	0.94562	1.5787	2.27575	31.86	2.099	1.1617	0.94562	25.7786094	1.746489854	0.0001644	0.119873	14.93929	0.2953	8.230993	6.43007474	44.68065
437	488919.6	3857200.76	2.43515	0.9403	1.5992	2.19612	30.37	2.053	1.1425	0.9403	25.4077932	1.73666421	0.0001665	0.115679	14.24081	0.288827	8.095096	6.39389953	43.49114
438	488969.6	3857200.76	2.40174	0.93008	1.68493	2.15817	28.84	2.004	1.1239	0.93008	25.059201	1.717788629	0.0001754	0.11368	13.52273	0.281913	7.96352	6.32440506	42.3346
439	488819.6	3857250.76	2.53261	0.96467	1.59432	2.38123	32.72	2.206	1.2034	0.96467	26.4246684	1.781673788	0.000166	0.125429	15.34372	0.310366	8.526311	6.55961189	45.95272
440	488869.6	3857250.76	2.50353	0.96013	1.6775	2.33698	30.89	2.15	1.1812	0.96013	26.1212544	1.773288746	0.0001746	0.123098	14.48575	0.302473	8.368945	6.52874057	44.64624
441	488919.6	3857250.76	2.47582	0.95963	1.80022	2.29361	29.74	2.114	1.1598	0.95963	25.8321346	1.772365283	0.0001874	0.120814	13.94477	0.297436	8.217318	6.52534064	43.65969
442	488969.6	3857250.76	2.44953	0.95705	2.0057	2.22265	28.59	2.088	1.1406	0.95705	25.5578308	1.767600215	0.0002088	0.117076	13.40734	0.293662	8.081633	6.50779703	42.71756
443	488819.6	3857300.76	2.56376	0.97973	1.80415	2.42751	31.28	2.259	1.2256	0.97973	26.7496803	1.809488489	0.0001878	0.127867	14.66979	0.317795	8.683889	6.66201764	45.69668
444	488869.6	3857300.76	2.53389	0.97313	2.07878	2.38708	30.09	2.232	1.2017	0.97313	26.4380236	1.797298779	0.0002164	0.125737	14.10847	0.313929	8.514549	6.61713863	44.68109
445	488919.6	3857300.76	2.50488	0.96702	2.21861	2.35287	29	2.217	1.1785	0.96702	26.13534	1.786014064	0.000231	0.123935	13.5972	0.311854	8.349743	6.57559154	43.72872
446	488819.6	3857450.76	2.67206	1.04486	2.88156	2.63711	29.29	2.734	1.3014	1.04486	27.8796575	1.929778758	0.0003	0.138907	13.73376	0.38463	9.220534	7.10489191	46.18267
447	488869.6	3857450.76	2.63584	1.03205	2.96057	2.60102	28.31	2.645	1.272	1.03205	27.5017464	1.90611964	0.0003082	0.137006	13.27732	0.372139	9.012579	7.01778582	45.18944
448	488919.6	3857450.76	2.59932	1.02208	2.98258	2.56554	27.32	2.604	1.2446	1.02208	27.1207051	1.887705791	0.0003105	0.135137	12.81148	0.366255	8.81844	6.94999131	44.19004
449	488819.6	3857500.76	2.72246	1.07126	3.32595	2.72803	29.69	2.8	1.3278	1.07126	28.4055195	1.978537596	0.0003463	0.143696	13.92386	0.393957	9.407871	7.28440797	46.96938
450	488869.6	3857500.76	2.67832	1.05887	3.39707	2.67859	28.22	2.746	1.3014	1.05887	27.9449729	1.955654187	0.0003537	0.141092	13.23427	0.386318	9.220818	7.20015782	45.68332
451	488919.6	3857500.76	2.63856	1.04798	3.30439	2.63032	26.91	2.704	1.2729	1.04798	27.5301262	1.935541166	0.000344	0.13855	12.61664	0.380328	9.019097	7.12610744	44.49452
452	488819.6	3857550.76	2.7825	1.09753	3.59706	2.85056	28.05	2.936	1.3488	1.09753	29.031963	2.027056333	0.0003745	0.150151	13.15376	0.41303	9.556947	7.46304004	46.87024
453	488869.6	3857550.76	2.72247	1.08532	3.79606	2.78902	26.88	2.895	1.3336	1.08532	28.4056238	2.004505371	0.0003952	0.146909	12.60424	0.407279	9.44925	7.38001387	45.63819
454	488919.6	3857550.76	2.66752	1.07723	3.84254	2.69393	26.1	2.824	1.3039	1.07723	27.8322882	1.989563742	0.0004	0.1419	12.23917	0.397287	9.238744	7.32500307	44.51435
455	489663.71	3860900.05	1.87529	0.83708	0.26634	2.78605	0.357	1.872	0.7762	0.83708	19.5663432	1.546024542	2.773E-05	0.146753	0.167217	0.263353	5.49994	5.69201895	21.49764
456	489813.71	3860900.05	1.62762	0.87747	0.27237	2.4096	0.553	1.711	0.8029	0.87747	16.9822115	1.62062187	2.836E-05	0.126923	0.259383	0.240681	5.688836	5.96666492	18.95202
457	489863.71	3860900.05	1.58564	0.89998	0.28393	2.3191	0.633	1.695	0.8112	0.89998	16.5442019	1.662196167	2.956E-05	0.122156	0.296896	0.238488	5.747928	6.11972955	18.49217
458	489913.71	3860900.05	1.57909	0.91642	0.29532	2.21814	0.721	1.68	0.8306	0.91642	16.4758607	1.692559625	3.074E-05	0.116838	0.337941	0.236348	5.885384	6.2315191	18.51344
459	489963.71	3860900.05	1.57356	0.94605	0.30018	2.166	0.807	1.658	0.8599	0.94605	16.418162	1.747284032	3.125E-05	0.114092	0.378619	0.233211	6.092489	6.43299867	18.55089
460	490013.71	3860900.05	1.55025	0.96893	0.26585	2.12549	0.843	1.635	0.88	0.96893	16.1749508	1.789541692	2.768E-05	0.111958	0.395074	0.230027	6.235118	6.58857925	18.34812
461	490063.71	3860900.05	1.5427	0.97716	0.24204	2.10152	0.947	1.58	0.8906	0.97716	16.0961758	1.80474189	2.52E-05	0.110696	0.444137	0.22232	6.310151	6.64454202	18.3437
462	489663.71	3860950.05	1.8449	0.8299	0.24855	2.77261	0.32	1.891	0.7592	0.8299	19.2492609	1.532763615	2.588E-05	0.146045	0.149913	0.266018	5.378852	5.64319602	21.07968
463	489813.71	3860950.05	1.61954	0.85137	0.25616	2.40226	0.516	1.69	0.7776	0.85137	16.8979067	1.57241711	2.667E-05	0.126537	0.241953	0.237712	5.509718	5.78918882	18.79708
464	489863.71	3860950.05	1.55311	0.85772	0.26744	2.29169	0.573	1.622	0.7816	0.85772	16.2047914	1.584145088	2.784E-05	0.120713	0.268527	0.228123	5.537705	5.83236787	18.11166
465	489913.71	3860950.05	1.51963	0.88208	0.27765	2.19806	0.654	1.601	0.7938	0.88208	15.8554688	1.629136197	2.891E-05	0.115781	0.306781	0.225251	5.624005	5.99801223	17.75844
466	489963.71	3860950.05	1.4932	0.89445	0.28142	2.15066	0.74	1.572	0.8037	0.89445	15.5797043	1.651982668	2.93E-05	0.113284	0.346845	0.2211	5.694788	6.08212638	17.52561
467	490013.71	3860950.05	1.48143	0.90998	0.26343	2.09884	0.798	1.534	0.8215	0.90998	15.4568988	1.680665423	2.742E-05	0.110554	0.374169	0.215812	5.820766	6.18772806	17.47117
468	490063.71	3860950.05	1.4606	0.92935	0.24234	2.08695	0.844	1.506	0.8387	0.92935	15.2395634	1.716440374	2.523E-05	0.109928	0.395702	0.211834	5.942138	6.31944117	17.29619

469	489513.71	3861000.05	1.93185	0.77364	0.25304	3.46988	0.226	1.928	0.7295	0.77364
470	489563.71	3861000.05	1.87155	0.78716	0.30198	3.18872	0.233	1.883	0.7333	0.78716
471	489613.71	3861000.05	1.82719	0.79197	0.24059	2.97907	0.264	1.874	0.739	0.79197
472	489663.71	3861000.05	1.777	0.80785	0.23518	2.78653	0.291	1.869	0.7438	0.80785
473	489713.71	3861000.05	1.72467	0.81794	0.24003	2.61802	0.334	1.86	0.7476	0.81794
474	489763.71	3861000.05	1.67243	0.82236	0.23285	2.49337	0.384	1.811	0.7518	0.82236
475	489813.71	3861000.05	1.59757	0.82993	0.24102	2.38576	0.472	1.736	0.7588	0.82993
476	489863.71	3861000.05	1.53992	0.83385	0.25253	2.28058	0.521	1.682	0.7635	0.83385
477	489913.71	3861000.05	1.48522	0.84231	0.26202	2.18515	0.593	1.629	0.7756	0.84231
478	489963.71	3861000.05	1.44989	0.86798	0.25947	2.14205	0.674	1.587	0.7817	0.86798
479	490013.71	3861000.05	1.4275	0.89268	0.25296	2.09677	0.757	1.542	0.7958	0.89268
480	490063.71	3861000.05	1.42506	0.9001	0.23841	2.06355	0.79	1.492	0.8069	0.9001
481	489513.71	3861050.05	1.92083	0.7618	0.28575	3.48995	0.214	1.857	0.7167	0.7618
482	489563.71	3861050.05	1.85381	0.76507	0.27573	3.20286	0.22	1.824	0.7201	0.76507
483	489613.71	3861050.05	1.80759	0.78001	0.23526	2.98243	0.241	1.836	0.7266	0.78001
484	489663.71	3861050.05	1.74966	0.78174	0.22554	2.78576	0.269	1.843	0.7289	0.78174
485	489713.71	3861050.05	1.68682	0.7951	0.2261	2.61428	0.3	1.833	0.7321	0.7951
486	489763.71	3861050.05	1.63382	0.80687	0.2188	2.47036	0.349	1.819	0.7384	0.80687
487	489813.71	3861050.05	1.58025	0.81489	0.22699	2.36617	0.403	1.8	0.7449	0.81489
488	489863.71	3861050.05	1.52244	0.82002	0.23819	2.26907	0.487	1.73	0.7483	0.82002
489	489913.71	3861050.05	1.46154	0.82707	0.2475	2.16859	0.537	1.655	0.7566	0.82707
490	489963.71	3861050.05	1.41471	0.83465	0.24793	2.13117	0.612	1.611	0.7665	0.83465
491	490013.71	3861050.05	1.38881	0.85546	0.24224	2.09134	0.693	1.579	0.7771	0.85546
492	490063.71	3861050.05	1.3602	0.87223	0.22805	2.04296	0.75	1.544	0.7858	0.87223
493	489513.71	3861100.05	1.89998	0.75295	0.28927	3.50112	0.2	1.809	0.7061	0.75295
494	489563.71	3861100.05	1.85386	0.75383	0.2713	3.20571	0.214	1.789	0.7068	0.75383
495	489613.71	3861100.05	1.78804	0.75242	0.22903	2.9736	0.221	1.756	0.7071	0.75242
496	489663.71	3861100.05	1.74489	0.76545	0.21858	2.77101	0.25	1.711	0.7119	0.76545
497	489713.71	3861100.05	1.68144	0.76921	0.21327	2.60738	0.272	1.645	0.7179	0.76921
498	489763.71	3861100.05	1.61393	0.78483	0.2064	2.46776	0.313	1.603	0.7239	0.78483
499	489813.71	3861100.05	1.55264	0.79921	0.21436	2.35531	0.358	1.633	0.7313	0.79921
500	489863.71	3861100.05	1.49571	0.81037	0.22478	2.26209	0.431	1.636	0.7383	0.81037
501	489913.71	3861100.05	1.42881	0.81545	0.23407	2.17416	0.492	1.617	0.7406	0.81545
502	489963.71	3861100.05	1.37284	0.82348	0.24083	2.10713	0.556	1.598	0.7501	0.82348
503	490013.71	3861100.05	1.34366	0.83085	0.23172	2.0637	0.631	1.551	0.7592	0.83085
504	490063.71	3861100.05	1.32242	0.84771	0.21625	2.01967	0.709	1.511	0.7692	0.84771
505	489713.71	3861150.05	1.68055	0.75677	0.2074	2.60516	0.252	1.624	0.7107	0.75677
506	489763.71	3861150.05	1.59546	0.76227	0.19574	2.46659	0.281	1.589	0.718	0.76227
507	489813.71	3861150.05	1.53741	0.78049	0.20316	2.35261	0.326	1.529	0.7259	0.78049
508	489863.71	3861150.05	1.48273	0.79442	0.21221	2.25308	0.374	1.486	0.7324	0.79442
509	489913.71	3861150.05	1.42973	0.80397	0.22164	2.17231	0.457	1.476	0.7372	0.80397
510	489963.71	3861150.05	1.36313	0.81058	0.22789	2.09358	0.503	1.505	0.7422	0.81058
511	490013.71	3861150.05	1.30169	0.81811	0.21634	2.04129	0.573	1.521	0.7525	0.81811
512	490063.71	3861150.05	1.28132	0.82843	0.20604	2.00109	0.648	1.485	0.765	0.82843
513	489613.71	3861200.05	1.72624	0.73303	0.26048	2.96328	0.202	1.619	0.6865	0.73303
514	489663.71	3861200.05	1.67797	0.73453	0.21373	2.7675	0.21	1.596	0.693	0.73453
515	489713.71	3861200.05	1.67121	0.73692	0.19897	2.60379	0.235	1.574	0.6999	0.73692
516	489763.71	3861200.05	1.606	0.75099	0.18667	2.46424	0.255	1.566	0.707	0.75099
517	489813.71	3861200.05	1.53209	0.75684	0.19285	2.34528	0.294	1.513	0.7148	0.75684
518	489863.71	3861200.05	1.4772	0.77731	0.20093	2.25195	0.336	1.468	0.724	0.77731
519	489913.71	3861200.05	1.42724	0.79079	0.21034	2.16412	0.394	1.428	0.7284	0.79079
520	489963.71	3861200.05	1.36048	0.80066	0.21569	2.08628	0.465	1.403	0.7327	0.80066
521	490013.71	3861200.05	1.29276	0.80881	0.20111	2.0267	0.521	1.386	0.7395	0.80881
522	490063.71	3861200.05	1.24376	0.81665	0.19759	1.98239	0.59	1.347	0.7493	0.81665
523	489513.71	3861250.05	1.68852	0.71106	0.27201	3.44444	0.199	1.525	0.6637	0.71106
524	489563.71	3861250.05	1.70741	0.72098	0.25006	3.17349	0.187	1.512	0.6707	0.72098
525	489613.71	3861250.05	1.66608	0.72576	0.24722	2.96796	0.19	1.51	0.6769	0.72576
526	489663.71	3861250.05	1.6184	0.72972	0.23584	2.77025	0.199	1.505	0.683	0.72972
527	489713.71	3861250.05	1.58918	0.73688	0.19396	2.60364	0.213	1.509	0.6898	0.73688

20.1564772	1.428855577	2.634E-05	0.182773	0.106074	0.271191	5.168416	5.26063643	22.05318		
19.5273209	1.453826012	3.144E-05	0.167963	0.109338	0.264957	5.195766	5.35257041	21.36663		
19.0644789	1.462709725	2.505E-05	0.15692	0.123823	0.263594	5.236223	5.38527769	20.9225		
18.540808	1.492038904	2.448E-05	0.146778	0.136305	0.262972	5.26995	5.49325932	20.35562		
17.9948088	1.510674384	2.499E-05	0.137902	0.15661	0.261705	5.296874	5.56186981	19.79673		
17.4497487	1.518837796	2.424E-05	0.131336	0.180009	0.254761	5.326491	5.59192515	19.26928		
16.6686768	1.532819023	2.509E-05	0.125668	0.221278	0.24423	5.376513	5.64340002	18.52581		
16.06717	1.540058972	2.629E-05	0.120127	0.244354	0.236548	5.409602	5.67005543	17.94783		
15.4964428	1.555683963	2.728E-05	0.115101	0.278168	0.229183	5.495193	5.72758217	17.44222		
15.1278177	1.603094545	2.701E-05	0.112831	0.315883	0.223279	5.538627	5.90213433	17.01942		
14.8942056	1.648713609	2.633E-05	0.110445	0.354962	0.216864	5.638176	6.07009064	16.7933		
14.8687472	1.662417798	2.482E-05	0.108696	0.370498	0.209929	5.717036	6.12054554	16.8168		
20.041497	1.406987977	2.975E-05	0.18383	0.100128	0.261266	5.078007	5.1801262	21.89162		
19.3422258	1.413027424	2.871E-05	0.168708	0.103148	0.256573	5.102027	5.20236171	21.18338		
18.859977	1.440620494	2.449E-05	0.157097	0.113103	0.258344	5.147869	5.30395148	20.67308		
18.2555487	1.443815675	2.348E-05	0.146737	0.126083	0.259232	5.164519	5.31571522	20.08024		
17.5998907	1.468490602	2.354E-05	0.137705	0.140587	0.257884	5.187476	5.40656122	19.3855		
17.0469009	1.490228917	2.278E-05	0.130124	0.163826	0.255936	5.231547	5.48659546	18.83199		
16.4879639	1.505041261	2.363E-05	0.124636	0.189101	0.253267	5.277744	5.54113027	18.29665		
15.8847877	1.51451599	2.48E-05	0.119521	0.228411	0.243325	5.302117	5.5760135	17.71669		
15.2493711	1.527536816	2.577E-05	0.114228	0.251758	0.232754	5.361067	5.62395245	17.11279		
14.7607577	1.541536512	2.581E-05	0.112257	0.286885	0.226617	5.431	5.67549531	16.68358		
14.4905231	1.579971036	2.522E-05	0.110159	0.324975	0.222157	5.505821	5.8170002	16.41663		
14.192013	1.610943979	2.374E-05	0.107611	0.351652	0.217262	5.567889	5.9310337	16.11636		
19.8239529	1.390642685	3.011E-05	0.184418	0.093634	0.254508	5.003257	5.11994752	21.63049		
19.3427475	1.39226798	2.824E-05	0.168858	0.100208	0.2516	5.008146	5.12593139	21.13792		
18.6559968	1.389663814	2.384E-05	0.156632	0.103758	0.247084	5.009988	5.1163436	20.4468		
18.2057797	1.413729256	2.276E-05	0.14596	0.11707	0.240747	5.043856	5.20494565	19.96222		
17.543757	1.420673696	2.22E-05	0.137341	0.127541	0.231444	5.086439	5.23051309	19.31671		
16.8393732	1.449522675	2.149E-05	0.129987	0.146814	0.225492	5.129093	5.33672676	18.58358		
16.1998875	1.476081467	2.232E-05	0.124064	0.168056	0.229708	5.181383	5.43450861	17.94469		
15.605893	1.496693157	2.34E-05	0.119153	0.201949	0.230195	5.231051	5.51039494	17.37456		
14.9078739	1.506075539	2.437E-05	0.114522	0.230727	0.227415	5.247489	5.54493818	16.68919		
14.3238958	1.520906353	2.507E-05	0.110991	0.260503	0.224734	5.314942	5.59954098	16.15646		
14.0194384	1.534518195	2.412E-05	0.108703	0.295836	0.218161	5.379135	5.64965588	15.90616		
13.7978252	1.565657362	2.251E-05	0.106384	0.332445	0.212516	5.45013	5.76430136	15.70068		
17.5344709	1.397697941	2.159E-05	0.137224	0.11806	0.228415	5.035424	5.14592295	19.30539		
16.6466615	1.407856032	2.038E-05	0.129925	0.131944	0.223577	5.087076	5.18332213	18.44374		
16.0409812	1.441507018	2.115E-05	0.123922	0.152643	0.215128	5.143334	5.3072154	17.81032		
15.4704627	1.467234693	2.209E-05	0.118679	0.175591	0.209071	5.189531	5.40193732	17.22865		
14.9174729	1.484872833	2.307E-05	0.114424	0.214324	0.207671	5.223611	5.4668759	16.69552		
14.2225839	1.497081011	2.372E-05	0.110277	0.235838	0.211652	5.258826	5.51182291	16.02446		
13.5815331	1.510988362	2.252E-05	0.107523	0.268606	0.213934	5.331734	5.56302578	15.45132		
13.3689972	1.530048635	2.145E-05	0.105406	0.303996	0.208951	5.420088	5.63320024	15.30431		
18.0111899	1.353851926	2.712E-05	0.156088	0.094642	0.227748	4.863746	4.98449449	19.7228		
17.5075518	1.356622314	2.225E-05	0.145776	0.098595	0.224481	4.910084	4.99469427	19.24844		
17.4370195	1.361036466	2.071E-05	0.137152	0.110102	0.221369	4.959115	5.01094591	19.21487		
16.7566334	1.387022711	1.943E-05	0.129802	0.119603	0.220243	5.009492	5.10661981	18.5162		
15.9854736	1.397827226	2.008E-05	0.123535	0.137933	0.212835	5.064474	5.14639894	17.7757		
15.412764	1.435633794	2.092E-05	0.118619	0.157604	0.206556	5.130014	5.28559188	17.17562		
14.8914928	1.460530352	2.19E-05	0.113993	0.184618	0.200889	5.160764	5.37725387	16.63506		
14.1949344	1.478759509	2.245E-05	0.109893	0.217902	0.197305	5.191586	5.44436839	15.94603		
13.4883596	1.493811953	2.094E-05	0.106755	0.244101	0.194912	5.239341	5.49978717	15.26751		
12.9771049	1.50829185	2.057E-05	0.104421	0.276887	0.189535	5.309273	5.553098	14.81244		
17.6176281	1.313274969	2.832E-05	0.181433	0.093479	0.214498	4.702483	4.83510178	19.28772		
17.814722	1.331596471	2.603E-05	0.167161	0.087603	0.212745	4.751939	4.90255629	19.46324		
17.3834943	1.340424776	2.574E-05	0.156335	0.089052	0.212461	4.796152	4.93505958	19.04288		
16.8860122	1.347738602	2.455E-05	0.14592	0.093287	0.211744	4.839018	4.96198699	18.56176		
16.5811374	1.360962589	2.019E-05	0.137144	0.100067	0.212275	4.887765	5.01067392	18.2687		

528	489763.71	3861250.05	1.59619	0.73879	0.18249	2.46401	0.236	1.485	0.6968	0.73879
529	489813.71	3861250.05	1.52761	0.75288	0.18344	2.34398	0.265	1.452	0.7041	0.75288
530	489863.71	3861250.05	1.47238	0.75858	0.19041	2.24713	0.304	1.393	0.7116	0.75858
531	489913.71	3861250.05	1.42099	0.78065	0.19885	2.16079	0.351	1.331	0.7193	0.78065
532	489963.71	3861250.05	1.36623	0.79482	0.20478	2.0835	0.419	1.308	0.7248	0.79482
533	490013.71	3861250.05	1.30229	0.80631	0.18688	2.00692	0.472	1.303	0.7305	0.80631
534	490063.71	3861250.05	1.23933	0.81292	0.19	1.9594	0.538	1.286	0.7368	0.81292
535	489528.13	3861308.47	1.59446	0.694	0.27053	3.35855	0.197	1.49	0.6532	0.694
536	489578.13	3861308.47	1.60529	0.70866	0.21905	3.09715	0.181	1.498	0.66	0.70866
537	489628.13	3861308.47	1.60791	0.71715	0.23152	2.90142	0.182	1.456	0.666	0.71715
538	489678.13	3861308.47	1.55858	0.72312	0.22917	2.71728	0.19	1.451	0.6727	0.72312
539	489728.13	3861308.47	1.51771	0.72546	0.20191	2.5619	0.202	1.442	0.6793	0.72546
540	489778.13	3861308.47	1.51656	0.7355	0.1772	2.42641	0.223	1.426	0.6856	0.7355
541	489678.13	3861358.47	1.53131	0.71466	0.21841	2.71535	0.181	1.427	0.6623	0.71466
542	489728.13	3861358.47	1.4819	0.71972	0.21378	2.56065	0.191	1.428	0.6687	0.71972
543	489528.13	3861408.47	1.40136	0.66075	0.24192	3.35298	0.185	1.473	0.635	0.66075
544	489578.13	3861408.47	1.4533	0.67584	0.21426	3.08955	0.186	1.449	0.6409	0.67584
545	489628.13	3861408.47	1.44787	0.6874	0.21536	2.9001	0.174	1.446	0.6483	0.6874
546	489678.13	3861408.47	1.45416	0.70282	0.21396	2.7141	0.174	1.405	0.654	0.70282
547	489728.13	3861408.47	1.44916	0.71214	0.20279	2.55859	0.181	1.392	0.6598	0.71214
548	489528.13	3861458.47	1.2973	0.64911	0.21792	3.36697	0.175	1.468	0.6278	0.64911
549	489578.13	3861458.47	1.35698	0.65983	0.21197	3.09406	0.183	1.435	0.6339	0.65983
550	489628.13	3861458.47	1.38536	0.67383	0.21274	2.89415	0.174	1.423	0.6399	0.67383
551	489678.13	3861458.47	1.37881	0.68331	0.2119	2.70741	0.172	1.401	0.6457	0.68331
552	489728.13	3861458.47	1.37935	0.69913	0.19939	2.55007	0.171	1.366	0.651	0.69913
553	489528.13	3861508.47	1.21134	0.63756	0.20562	3.36705	0.168	1.461	0.6212	0.63756
554	489578.13	3861508.47	1.25586	0.64772	0.19738	3.08584	0.171	1.418	0.6268	0.64772
555	489628.13	3861508.47	1.30826	0.65776	0.21012	2.87353	0.175	1.39	0.6327	0.65776
556	489678.13	3861508.47	1.32252	0.67032	0.20966	2.69803	0.168	1.393	0.6384	0.67032
557	489728.13	3861508.47	1.31606	0.67954	0.20304	2.54199	0.165	1.353	0.6446	0.67954
558	489628.13	3861558.47	1.21667	0.65008	0.19832	2.86445	0.171	1.371	0.6308	0.65008
559	489678.13	3861558.47	1.24854	0.66087	0.20771	2.69494	0.167	1.36	0.6372	0.66087
560	489728.13	3861558.47	1.26079	0.67319	0.20204	2.54432	0.163	1.341	0.6437	0.67319
561	489357.08	3861015.81	2.083	0.74676	0.34319	5.19473	0.252	2.04	0.7083	0.74676
562	489407.08	3861015.81	2.03788	0.75715	0.3072	4.36439	0.227	1.982	0.7131	0.75715
563	489457.08	3861015.81	2.00658	0.76119	0.29717	3.86311	0.206	1.933	0.7183	0.76119
564	489357.08	3861065.81	1.99516	0.72831	0.33453	5.24569	0.244	1.967	0.6971	0.72831
565	489407.08	3861065.81	1.99666	0.74031	0.29842	4.42885	0.232	1.959	0.7009	0.74031
566	489457.08	3861065.81	1.95091	0.75167	0.2845	3.90102	0.21	1.9	0.7052	0.75167
567	489357.08	3861115.81	1.84702	0.70079	0.33839	5.23681	0.234	1.814	0.6834	0.70079
568	489407.08	3861115.81	1.88708	0.72169	0.2952	4.46642	0.234	1.828	0.69	0.72169
569	489457.08	3861115.81	1.89852	0.73397	0.27776	3.93848	0.213	1.811	0.6943	0.73397
570	489407.08	3861165.81	1.7831	0.7071	0.31178	4.44317	0.225	1.743	0.6796	0.7071
571	489457.08	3861165.81	1.81422	0.72008	0.27465	3.93666	0.217	1.73	0.6831	0.72008
572	489407.08	3861215.81	1.68015	0.69561	0.3254	4.46488	0.214	1.64	0.6633	0.69561
573	489457.08	3861215.81	1.72152	0.70764	0.28976	3.92942	0.218	1.623	0.6683	0.70764
574	489407.08	3861265.81	1.56917	0.67689	0.33581	4.34674	0.206	1.563	0.6493	0.67689
575	489457.08	3861265.81	1.61486	0.69102	0.30793	3.87706	0.206	1.548	0.6547	0.69102
576	489309.86	3861110.14	1.81695	0.69114	0.43472	6.27794	0.243	1.861	0.6782	0.69114
577	489407.08	3861315.81	1.46319	0.66166	0.33781	4.34214	0.201	1.504	0.6387	0.66166
578	489457.08	3861315.81	1.51842	0.67204	0.32123	3.87965	0.196	1.494	0.6444	0.67204
579	488906.03	3861006.75	1.83567	0.67923	0.41708	3.02672	0.149	2.286	0.6613	0.67923
580	488956.03	3861006.75	1.87855	0.68731	0.48291	3.31207	0.134	2.272	0.6679	0.68731
581	488904.24	3861051.87	1.68829	0.67669	0.45457	2.64684	0.152	2.071	0.6641	0.67669
582	488954.24	3861051.87	1.74192	0.6781	0.45544	3.06619	0.136	2.072	0.6594	0.6781
583	489004.24	3861051.87	1.79728	0.69164	0.46684	3.23646	0.129	2.083	0.6688	0.69164
584	488804.24	3861101.87	1.50984	0.64706	0.33247	2.4255	0.153	2.033	0.6269	0.64706
585	488854.24	3861101.87	1.54998	0.65083	0.37387	2.54864	0.167	2.024	0.6368	0.65083
586	488904.24	3861101.87	1.54762	0.65151	0.41383	3.01162	0.152	2.007	0.6342	0.65151

16.6542782	1.364490217	1.9E-05	0.129789	0.110867	0.208965	4.937221	5.02366163	18.38197
15.9387303	1.3905134	1.91E-05	0.123467	0.12409	0.204267	4.98859	5.11947153	17.65021
15.3624732	1.401040876	1.982E-05	0.118365	0.142326	0.196016	5.041659	5.15823068	17.10367
14.8262818	1.441802526	2.07E-05	0.113818	0.164727	0.187232	5.096287	5.30830338	16.52187
14.2549286	1.467973463	2.132E-05	0.109746	0.196515	0.184029	5.13554	5.40465726	15.9441
13.5877934	1.489194639	1.946E-05	0.105713	0.221456	0.183347	5.176069	5.48278755	15.2808
12.9308833	1.501402817	1.978E-05	0.10321	0.252086	0.180908	5.220352	5.52773456	14.66113
16.6362277	1.281766417	2.816E-05	0.176909	0.092546	0.209624	4.627874	4.71909632	18.30588
16.7492255	1.308842347	2.28E-05	0.16314	0.08509	0.210796	4.676196	4.81878213	18.37453
16.7765619	1.324522746	2.41E-05	0.15283	0.085545	0.204813	4.719134	4.87651287	18.38692
16.2618641	1.335548892	2.386E-05	0.14313	0.08917	0.204073	4.766039	4.91710797	17.88274
15.835436	1.339870698	2.102E-05	0.134946	0.09459	0.202811	4.812944	4.93301963	17.4876
15.8234371	1.358413832	1.845E-05	0.127809	0.104475	0.200543	4.857936	5.00129013	17.47134
15.9773352	1.319923901	2.274E-05	0.143029	0.084926	0.200751	4.692422	4.85958124	17.55883
15.4618027	1.329269345	2.226E-05	0.13488	0.089639	0.20083	4.737768	4.89398848	17.06022
14.6214669	1.220356138	2.519E-05	0.176615	0.086558	0.207241	4.499133	4.49300129	16.31839
15.1633969	1.248226246	2.231E-05	0.162739	0.087102	0.203902	4.541149	4.59561104	16.81093
15.1067415	1.269576707	2.242E-05	0.15276	0.08177	0.203424	4.593581	4.67421731	16.73366
15.1723699	1.298056301	2.227E-05	0.142963	0.081433	0.197633	4.633968	4.77907101	16.74737
15.1202011	1.315269648	2.111E-05	0.134771	0.085071	0.195785	4.674921	4.84244561	16.6836
13.5357289	1.198857923	2.269E-05	0.177352	0.082164	0.206522	4.448331	4.41385103	15.23513
14.1584162	1.218656966	2.207E-05	0.162977	0.085808	0.201861	4.491056	4.48674543	15.83205
14.4545266	1.244513926	2.215E-05	0.152447	0.08147	0.200208	4.533993	4.58194334	16.08524
14.3861854	1.262022781	2.206E-05	0.14261	0.08042	0.197042	4.575159	4.64640592	15.99706
14.3918196	1.291241145	2.076E-05	0.134323	0.079955	0.19218	4.612853	4.75397956	15.94841
12.6388421	1.177525932	2.141E-05	0.177356	0.078778	0.205546	4.40171	4.33531276	14.34447
13.1033535	1.196290696	2.055E-05	0.162544	0.080392	0.199525	4.441246	4.40439924	14.77897
13.650083	1.21483383	2.187E-05	0.151361	0.082056	0.195566	4.482554	4.47266974	15.30381
13.7988685	1.238031217	2.183E-05	0.142116	0.078694	0.195944	4.523153	4.55807586	15.41875
13.7314664	1.255059871	2.114E-05	0.133897	0.077484	0.190379	4.566869	4.62077048	15.33441
12.6944541	1.200649441	2.065E-05	0.150882	0.080012	0.192841	4.469233	4.42044689	14.36765
13.0269783	1.220577769	2.162E-05	0.141953	0.078145	0.191301	4.515075	4.49381727	14.68024
13.154792	1.243331893	2.103E-05	0.13402	0.076424	0.18867	4.560847	4.57759143	14.78051
21.7335414	1.379210215	3.573E-05	0.273628	0.117933	0.287039	5.018561	5.07785644	23.73209
21.2627697	1.398399773	3.198E-05	0.22989	0.106599	0.278825	5.0525	5.14850689	23.18051
20.9361927	1.405861352	3.094E-05	0.203486	0.09663	0.271905	5.08906	5.17597829	22.82719
20.8170391	1.345134436	3.483E-05	0.276312	0.114299	0.276692	4.939488	4.9523992	22.8166
20.8326897	1.367297544	3.107E-05	0.233286	0.108644	0.27554	4.965988	5.03399741	22.74948
20.3553448	1.38827862	2.962E-05	0.205483	0.098482	0.267335	4.99688	5.11124371	22.20059
19.2713805	1.294307042	3.523E-05	0.275844	0.109704	0.255193	4.841852	4.76526731	21.28305
19.6893573	1.332907788	3.073E-05	0.235265	0.109713	0.257127	4.888757	4.90738419	21.60577
19.8087196	1.355588036	2.892E-05	0.207456	0.100072	0.254693	4.919649	4.99088635	21.65532
18.604454	1.305961143	3.246E-05	0.23404	0.105671	0.245173	4.815282	4.80817437	20.50244
18.9291529	1.329934238	2.859E-05	0.20736	0.101666	0.243432	4.839797	4.89643643	20.75494
17.5302974	1.284739967	3.388E-05	0.235183	0.100419	0.230691	4.700003	4.73004408	19.35132
17.9619425	1.306958483	3.017E-05	0.206979	0.102013	0.228246	4.735359	4.81184629	19.72968
16.3723577	1.250165518	3.496E-05	0.228961	0.096396	0.219826	4.600596	4.60275088	18.16558
16.8490766	1.276262578	3.206E-05	0.204221	0.096785	0.217707	4.638431	4.69883277	18.58368
18.9576371	1.276484209	4.526E-05	0.330685	0.113797	0.261809	4.80515	4.69964875	21.04596
15.2665869	1.22203684	3.517E-05	0.228718	0.094117	0.211531	4.525349	4.49918916	17.04919
15.8428439	1.241207929	3.344E-05	0.204357	0.092086	0.210226	4.565807	4.56977161	17.58679
19.1529572	1.254487324	4.342E-05	0.15943	0.069799	0.321637	4.685478	4.61866253	21.02517
19.6003573	1.269410484	5.027E-05	0.17446	0.063009	0.31959	4.732029	4.67360532	21.4853
17.6152283	1.249796133	4.732E-05	0.13942	0.071144	0.291355	4.705672	4.60139091	19.47127
18.1747914	1.252400298	4.741E-05	0.161509	0.063829	0.291545	4.671804	4.6109787	20.00495
18.7524048	1.277407672	4.86E-05	0.170478	0.060289	0.292957	4.73876	4.70304868	20.5893
15.7533222	1.195071725	3.461E-05	0.127761	0.071759	0.285966	4.441671	4.39991134	17.47567
16.1721337	1.202034635	3.892E-05	0.134247	0.078145	0.284761	4.511887	4.42554677	17.9577
16.14751	1.203290545	4.308E-05	0.158634	0.071449	0.282284	4.493394	4.43017067	17.92643

587	488954.24	3861101.87	1.56233	0.66317	0.42744	3.38181	0.137	1.966	0.6468	0.66317
588	489004.24	3861101.87	1.6044	0.66838	0.44749	3.82124	0.128	1.962	0.6524	0.66838
589	488804.24	3861151.87	1.43473	0.63022	0.35446	2.4919	0.14	1.883	0.6068	0.63022
590	488854.24	3861151.87	1.43617	0.63292	0.37969	2.79161	0.157	1.89	0.6149	0.63292
591	489129.49	3861187.55	1.45287	0.64435	0.4433	6.37389	0.119	1.774	0.6357	0.64435
592	489179.49	3861187.55	1.49301	0.65274	0.46041	8.94778	0.118	1.759	0.6413	0.65274
593	488804.24	3861201.87	1.36073	0.62166	0.35638	2.49577	0.131	1.81	0.5982	0.62166
594	488854.24	3861201.87	1.37537	0.62076	0.34879	2.79096	0.143	1.779	0.601	0.62076
595	489129.49	3861237.55	1.36175	0.63789	0.42238	6.37344	0.117	1.726	0.63	0.63789
596	489179.49	3861237.55	1.37977	0.64098	0.4369	9.15933	0.116	1.695	0.6334	0.64098
597	488804.24	3861251.87	1.27941	0.61644	0.34182	2.50471	0.128	1.77	0.591	0.61644
598	488854.24	3861251.87	1.29496	0.6133	0.33526	2.7865	0.132	1.734	0.592	0.6133
599	488804.24	3861301.87	1.23651	0.61083	0.3279	2.52641	0.125	1.683	0.5821	0.61083
600	488854.24	3861301.87	1.21356	0.60669	0.32612	2.7836	0.124	1.691	0.5857	0.60669
601	490943.5	3860181.97	1.56187	2.79574	1.19271	3.6967	0.755	2.462	2.9794	2.79574
602	490993.5	3860181.97	1.57616	3.06495	1.21795	3.80149	0.748	2.542	3.0739	3.06495
603	491043.5	3860181.97	1.59847	3.29793	1.12125	3.90317	0.748	2.627	3.276	3.29793
604	491093.5	3860181.97	1.6242	3.55219	1.10025	3.87218	0.75	2.685	3.581	3.55219
605	490943.5	3860231.97	1.53156	2.64226	0.85895	3.31254	0.703	2.301	2.7778	2.64226
606	490993.5	3860231.97	1.51966	2.79405	1.01176	3.4411	0.738	2.363	2.9072	2.79405
607	491043.5	3860231.97	1.51688	2.95864	1.13853	3.53719	0.732	2.387	3.0077	2.95864
608	491093.5	3860231.97	1.53417	3.15805	1.05768	3.56781	0.733	2.453	3.1587	3.15805
609	490943.5	3860281.97	1.50158	2.49654	0.64705	2.99215	0.615	2.113	2.438	2.49654
610	490993.5	3860281.97	1.46088	2.60853	0.7361	3.12963	0.669	2.177	2.6071	2.60853
611	491043.5	3860281.97	1.44311	2.71994	0.83354	3.19426	0.723	2.252	2.8117	2.71994
612	491093.5	3860281.97	1.44035	2.82032	0.96216	3.28472	0.715	2.27	2.8698	2.82032
613	490943.5	3860331.97	1.47331	2.33645	0.67368	2.81745	0.562	2.028	2.252	2.33645
614	490993.5	3860331.97	1.46763	2.43661	0.60884	2.80244	0.59	2.031	2.3676	2.43661
615	491043.5	3860331.97	1.43143	2.5393	0.63327	2.9062	0.63	2.041	2.4859	2.5393
616	491093.5	3860331.97	1.3987	2.64011	0.71277	3.02073	0.708	2.123	2.65	2.64011
617	490086.72	3859935.12	2.24461	2.49631	1.90591	3.95413	1.053	2.315	2.5089	2.49631
618	490136.72	3859935.12	2.19229	2.55756	2.2393	4.13674	0.932	2.297	2.575	2.55756
619	490186.72	3859935.12	2.14881	2.70345	1.73238	4.24909	0.968	2.299	2.6393	2.70345
620	490236.72	3859935.12	2.10974	2.81648	1.7451	4.31049	1.075	2.349	2.7679	2.81648
621	490286.72	3859935.12	2.06206	2.88305	1.93868	4.31355	1.179	2.451	2.8527	2.88305
622	490336.72	3859935.12	2.03051	2.98267	1.46212	4.33575	1.2	2.564	2.9085	2.98267
623	490386.72	3859935.12	1.99645	3.12451	1.58835	4.41453	1.114	2.582	2.9872	3.12451
624	490436.72	3859935.12	1.96257	3.29811	1.68462	4.37476	0.901	2.612	3.2754	3.29811
625	490486.72	3859935.12	1.93428	3.5284	1.70524	4.46529	0.749	2.735	3.5068	3.5284
626	490536.72	3859935.12	1.92438	3.70734	2.06076	4.73377	0.816	2.963	3.8203	3.70734
627	490586.72	3859935.12	1.89386	3.99619	2.14547	5.2505	0.884	3.298	4.1414	3.99619
628	490636.72	3859935.12	1.87473	4.28442	2.13757	5.76303	0.87	3.651	4.4207	4.28442
629	490686.72	3859935.12	1.88828	4.92035	2.04806	6.50785	0.869	4.074	4.8953	4.92035
630	490736.72	3859935.12	1.91856	5.5686	2.39532	7.03115	0.876	4.504	5.3774	5.5686
631	490086.72	3859985.12	2.24048	2.2799	1.2599	3.81474	0.907	2.273	2.2865	2.2799
632	490136.72	3859985.12	2.18681	2.3544	1.8113	3.90822	1.007	2.278	2.38	2.3544
633	490186.72	3859985.12	2.14707	2.42538	1.78656	3.93175	0.859	2.296	2.4371	2.42538
634	490236.72	3859985.12	2.11338	2.51811	1.50386	3.99009	0.943	2.312	2.5093	2.51811
635	490286.72	3859985.12	2.07405	2.68107	1.53781	4.03768	1.033	2.348	2.6321	2.68107
636	490336.72	3859985.12	2.03291	2.75304	1.70931	4.05509	1.138	2.436	2.6885	2.75304
637	490386.72	3859985.12	2.00034	2.82935	1.27565	4.05714	1.181	2.592	2.768	2.82935
638	490436.72	3859985.12	1.96277	2.96869	1.34916	3.98178	1.046	2.615	2.7948	2.96869
639	490486.72	3859985.12	1.92206	3.10285	1.45954	4.11345	0.846	2.556	2.971	3.10285
640	490536.72	3859985.12	1.88184	3.34753	1.37737	4.1891	0.704	2.564	3.3632	3.34753
641	490586.72	3859985.12	1.849	3.4951	1.6552	4.49317	0.773	2.719	3.5067	3.4951
642	490636.72	3859985.12	1.83624	3.68062	1.86683	4.93371	0.838	2.928	3.8108	3.68062
643	490686.72	3859985.12	1.85836	3.95497	1.9556	5.32543	0.844	3.323	4.017	3.95497
644	490736.72	3859985.12	1.85857	4.27967	1.82112	5.81962	0.846	3.623	4.2955	4.27967
645	490786.72	3859985.12	1.84805	4.70299	1.77904	6.09379	0.835	3.802	4.5345	4.70299

16.3009907	1.224825698	4.45E-05	0.178134	0.06419	0.27656	4.583024	4.50945693	18.11831
16.7399394	1.234448181	4.659E-05	0.20128	0.060017	0.276	4.622206	4.54488415	18.58905
14.9696418	1.163969497	3.69E-05	0.131259	0.065682	0.264899	4.299539	4.28540185	16.60962
14.9846664	1.168956196	3.953E-05	0.147045	0.073719	0.265911	4.356647	4.30376145	16.69322
15.1589104	1.190066557	4.615E-05	0.335739	0.055656	0.249601	4.504306	4.38148374	17.11284
15.5777219	1.205562263	4.793E-05	0.471316	0.055384	0.247422	4.543913	4.43853449	17.66283
14.1975429	1.148159813	3.71E-05	0.131462	0.061555	0.254644	4.238321	4.22719513	15.80453
14.3502932	1.14649758	3.631E-05	0.147011	0.066915	0.250287	4.258018	4.22107527	15.99798
14.2081853	1.178135417	4.397E-05	0.335715	0.054939	0.242759	4.463777	4.33755671	16.146
14.3962018	1.183842417	4.548E-05	0.482459	0.054301	0.2384	4.488009	4.35856825	16.48469
13.3490687	1.138518861	3.559E-05	0.131933	0.060054	0.249034	4.18759	4.19169991	14.92454
13.5113139	1.132719515	3.49E-05	0.146776	0.061954	0.243892	4.194463	4.17034838	15.1208
12.90146	1.128157608	3.414E-05	0.133076	0.058652	0.236739	4.124601	4.15355275	14.42917
12.662005	1.120511336	3.395E-05	0.146624	0.057926	0.237835	4.149612	4.12540137	14.24915
16.2961912	5.163523979	0.0001242	0.19472	0.353959	0.346342	21.10991	19.0106144	24.45416
16.4452898	5.660734839	0.0001268	0.20024	0.350587	0.357655	21.77997	20.8412021	23.95341
16.6780672	6.091031582	0.0001167	0.205596	0.350723	0.369602	23.2115	22.4254313	24.48121
16.946528	6.560630904	0.0001145	0.203963	0.351849	0.377713	25.37282	24.1543613	25.65926
15.9799437	4.880057827	8.942E-05	0.174485	0.329622	0.323632	19.68186	17.9669733	23.40271
15.8557818	5.160402675	0.0001053	0.181257	0.346255	0.332401	20.59821	18.9991226	23.47529
15.8267759	5.464388171	0.0001185	0.186318	0.343343	0.335804	21.31057	20.11831	23.34901
16.0071758	5.832683619	0.0001101	0.187931	0.343526	0.345113	22.38025	21.4742682	23.62252
15.6671393	4.610923818	6.736E-05	0.157609	0.288404	0.297199	17.27418	16.976099	21.31942
15.2424848	4.817761024	7.663E-05	0.16485	0.313744	0.306209	18.47203	17.7376143	21.57954
15.0570768	5.023527013	8.678E-05	0.168255	0.339047	0.316816	19.92177	18.4951857	22.33139
15.0282796	5.208921412	0.0001002	0.17302	0.335498	0.319351	20.33378	19.1777547	22.2212
15.3721766	4.315249487	7.013E-05	0.148407	0.263429	0.285269	15.95602	15.887511	20.45311
15.3129128	4.500237562	6.338E-05	0.147616	0.276794	0.285731	16.77551	16.568584	20.73028
14.9352103	4.68989836	6.593E-05	0.153081	0.295386	0.287118	17.61336	17.2668607	20.70726
14.5937131	4.876086937	7.42E-05	0.159114	0.331887	0.298622	18.77628	17.9523536	21.08342
23.4197428	4.610499025	0.0001984	0.20828	0.493659	0.325729	17.77675	16.9745351	29.86032
22.873848	4.723623222	0.0002331	0.217899	0.436948	0.323152	18.24495	17.3910259	29.42962
22.4201877	4.993071209	0.0001804	0.223817	0.453876	0.323398	18.70018	18.3830561	28.73165
22.0125404	5.201829217	0.0001817	0.227051	0.503854	0.33047	19.61157	19.1516433	28.73585
21.5150583	5.324779059	0.0002018	0.227212	0.552987	0.344758	20.21269	19.6043093	28.57338
21.1858728	5.508769795	0.0001522	0.228382	0.562694	0.360688	20.60806	20.2817104	28.1729
20.8304987	5.770737732	0.0001654	0.232531	0.522371	0.363218	21.16518	21.2462012	27.6385
20.4770026	6.091364029	0.0001754	0.230436	0.42236	0.367511	23.20739	22.4266553	28.36959
20.1818312	6.516692542	0.0001775	0.235205	0.351441	0.384712	24.84673	23.9925929	28.5242
20.0785369	6.847181422	0.0002145	0.249347	0.382549	0.416876	27.06813	25.2093582	29.83348
19.7600983	7.380665902	0.0002234	0.276565	0.414492	0.463932	29.3436	27.173495	30.46608
19.5605003	7.913005289	0.0002225	0.303562	0.407805	0.513641	31.32247	29.133416	30.88779
19.7018778	9.087520731	0.0002132	0.342795	0.40765	0.573114	34.68504	33.457645	31.34056
20.0178124	10.2847903	0.0002494	0.370359	0.410628	0.633658	38.10054	37.8656481	31.95239
23.3766514	4.21080584	0.0001312	0.200938	0.425253	0.319793	16.20032	15.5029794	29.23092
22.816671	4.348401803	0.0001886	0.205862	0.472305	0.320492	16.86344	16.0095683	29.01779
22.402033	4.479496587	0.000186	0.207101	0.402773	0.322989	17.26773	16.4922217	28.59009
22.0505193	4.650762005	0.0001566	0.210174	0.442294	0.325221	17.77923	17.1227718	28.33558
21.6401591	4.951737012	0.0001601	0.212681	0.484272	0.330262	18.64917	18.2308755	28.03756
21.2109139	5.084660253	0.0001779	0.213598	0.533611	0.342751	19.04885	18.7202607	27.7143
20.871086	5.225599151	0.0001328	0.213706	0.553686	0.36465	19.61207	19.2391573	27.60177
20.4790893	5.482949774	0.0001405	0.209737	0.4907	0.367829	19.80245	20.1866485	26.64625
20.0543306	5.730733322	0.0001519	0.216672	0.396499	0.359541	21.05082	21.0989165	26.70983
19.6346844	6.182639096	0.0001434	0.220657	0.330204	0.360762	23.82963	22.7627039	27.79601
19.2920394	6.455189917	0.0001723	0.236674	0.362409	0.382472	24.84609	23.7661579	27.80889
19.1589045	6.797831568	0.0001943	0.259879	0.392725	0.41189	27.00075	25.0276662	28.99451
19.3896995	7.304535626	0.0002036	0.280512	0.395955	0.467498	28.46189	26.8932052	29.40709
19.3918905	7.904232392	0.0001896	0.306543	0.396884	0.509601	30.43545	29.1011167	29.84367
19.2821273	8.686072967	0.0001852	0.320985	0.391491	0.534876	32.12829	31.9796294	29.36439

646	490086.72	3860035.12	2.21512	2.09977	0.95056	3.67192	0.853	2.266	2.1107	2.09977
647	490136.72	3860035.12	2.17575	2.14907	1.38248	3.61047	0.89	2.288	2.1789	2.14907
648	490186.72	3860035.12	2.13527	2.23643	1.69455	3.63345	0.966	2.301	2.2629	2.23643
649	490236.72	3860035.12	2.09831	2.3042	1.47887	3.672	0.801	2.3	2.3052	2.3042
650	490286.72	3860035.12	2.06218	2.34634	1.31415	3.75465	0.916	2.307	2.3386	2.34634
651	490336.72	3860035.12	2.02102	2.46597	1.37001	3.8559	0.991	2.313	2.4491	2.46597
652	490386.72	3860035.12	1.97958	2.6271	1.5062	3.79747	1.105	2.33	2.4912	2.6271
653	490436.72	3860035.12	1.93874	2.71244	1.15277	3.75296	1.162	2.434	2.5845	2.71244
654	490486.72	3860035.12	1.8937	2.82272	1.20168	3.82526	0.985	2.534	2.6503	2.82272
655	490536.72	3860035.12	1.8473	2.95233	1.28408	3.89902	0.799	2.512	2.7172	2.95233
656	490586.72	3860035.12	1.8201	3.10438	1.24365	3.99216	0.674	2.503	3.1006	3.10438
657	490636.72	3860035.12	1.84192	3.1788	1.30646	4.1436	0.734	2.569	3.241	3.1788
658	490686.72	3860035.12	1.84569	3.31845	1.58666	4.49618	0.784	2.7	3.4181	3.31845
659	490736.72	3860035.12	1.83008	3.59846	1.72355	4.74524	0.816	3.005	3.7442	3.59846
660	490786.72	3860035.12	1.7935	3.77493	1.69337	5.0626	0.823	3.214	3.9213	3.77493
661	490836.72	3860035.12	1.76392	3.99389	1.55405	5.33202	0.807	3.335	4.1427	3.99389
662	490086.72	3860085.12	2.12816	1.99341	0.76846	3.46937	0.874	2.292	2.0087	1.99341
663	490136.72	3860085.12	2.1089	2.01868	0.9251	3.45322	0.827	2.269	2.0254	2.01868
664	490186.72	3860085.12	2.07571	2.0668	1.31768	3.33046	0.875	2.308	2.0701	2.0668
665	490236.72	3860085.12	2.03906	2.13947	1.5566	3.35009	0.919	2.32	2.1297	2.13947
666	490286.72	3860085.12	1.99926	2.22042	1.23822	3.48691	0.76	2.28	2.1805	2.22042
667	490336.72	3860085.12	1.95528	2.25108	1.16299	3.5802	0.891	2.274	2.1987	2.25108
668	490386.72	3860085.12	1.90918	2.27033	1.22864	3.54238	0.951	2.303	2.2345	2.27033
669	490436.72	3860085.12	1.8517	2.45672	1.33369	3.52603	1.073	2.309	2.3455	2.45672
670	490486.72	3860085.12	1.81388	2.57454	1.04612	3.5376	1.128	2.333	2.4405	2.57454
671	490536.72	3860085.12	1.78398	2.6724	1.06812	3.59145	0.928	2.393	2.513	2.6724
672	490586.72	3860085.12	1.76188	2.76936	1.13356	3.64218	0.754	2.433	2.5471	2.76936
673	490636.72	3860085.12	1.77049	2.82786	1.11627	3.71787	0.649	2.426	2.6943	2.82786
674	490686.72	3860085.12	1.76351	2.9271	1.06782	3.84589	0.701	2.443	3.0543	2.9271
675	490736.72	3860085.12	1.75267	3.02953	1.2777	4.05628	0.738	2.534	3.2028	3.02953
676	490786.72	3860085.12	1.74074	3.17481	1.48518	4.31384	0.79	2.686	3.4214	3.17481
677	490836.72	3860085.12	1.70767	3.31384	1.54023	4.41348	0.8	2.839	3.5586	3.31384
678	490086.72	3860135.12	2.02674	1.83791	0.65674	3.2939	0.857	2.197	1.8812	1.83791
679	490136.72	3860135.12	2.00262	1.87794	0.69775	3.24276	0.821	2.2	1.9162	1.87794
680	490186.72	3860135.12	1.97774	1.91915	0.96996	3.17283	0.802	2.208	1.94	1.91915
681	490236.72	3860135.12	1.95898	1.97683	1.21833	3.11432	0.854	2.258	1.9586	1.97683
682	490286.72	3860135.12	1.94236	2.03234	1.39102	3.23087	0.846	2.292	1.9857	2.03234
683	490336.72	3860135.12	1.93135	2.12477	1.04699	3.28698	0.736	2.28	2.0518	2.12477
684	490386.72	3860135.12	1.88853	2.14988	1.03847	3.26365	0.863	2.271	2.0589	2.14988
685	490436.72	3860135.12	1.83889	2.15179	1.10601	3.24271	0.925	2.312	2.0643	2.15179
686	490486.72	3860135.12	1.80459	2.25033	1.19285	3.27474	1.038	2.265	2.2151	2.25033
687	490536.72	3860135.12	1.76517	2.426	0.95792	3.37885	1.073	2.282	2.2947	2.426
688	490586.72	3860135.12	1.73602	2.49841	0.95632	3.44235	0.876	2.325	2.3674	2.49841
689	490636.72	3860135.12	1.71826	2.57385	1.00996	3.48741	0.713	2.334	2.3901	2.57385
690	490686.72	3860135.12	1.69253	2.64126	1.00245	3.50675	0.627	2.345	2.4614	2.64126
691	490736.72	3860135.12	1.66323	2.73658	0.91482	3.58453	0.669	2.34	2.7359	2.73658
692	490786.72	3860135.12	1.62928	2.82429	1.02773	3.77909	0.693	2.402	2.9455	2.82429
693	490836.72	3860135.12	1.6229	2.88204	1.23228	4.00168	0.763	2.506	3.0523	2.88204
694	490086.72	3860185.12	1.97697	1.69561	0.4642	3.07821	0.849	2.121	1.7386	1.69561
695	490136.72	3860185.12	1.93254	1.77155	0.60065	3.08041	0.817	2.138	1.819	1.77155
696	490186.72	3860185.12	1.88882	1.80574	0.63315	3.03583	0.806	2.146	1.8625	1.80574
697	490236.72	3860185.12	1.86842	1.83799	0.92926	3.0117	0.777	2.14	1.8749	1.83799
698	490286.72	3860185.12	1.85971	1.89415	1.0999	2.99764	0.818	2.15	1.9014	1.89415
699	490336.72	3860185.12	1.85403	1.92667	1.14524	3.04888	0.78	2.177	1.8985	1.92667
700	490386.72	3860185.12	1.83258	1.98043	0.89458	3.04808	0.717	2.194	1.9321	1.98043
701	490436.72	3860185.12	1.80094	2.0143	0.93198	3.02476	0.828	2.181	1.9406	2.0143
702	490486.72	3860185.12	1.76083	2.02713	1.00045	3.10177	0.902	2.225	1.9499	2.02713
703	490536.72	3860185.12	1.74519	2.06727	1.0789	3.14152	1.007	2.202	2.0827	2.06727
704	490586.72	3860185.12	1.7319	2.26544	0.87999	3.24312	1.014	2.182	2.1455	2.26544

23.112051	3.878119119	9.896E-05	0.193415	0.39989	0.318719	14.95507	14.2781223	28.57924
22.7012735	3.969172554	0.0001439	0.190178	0.417296	0.321839	15.43808	14.613355	28.42463
22.2789145	4.130519981	0.0001764	0.191389	0.452784	0.323706	16.03353	15.2073899	28.20363
21.8932824	4.255686134	0.000154	0.193419	0.375496	0.323522	16.33317	15.6682158	27.70652
21.5163103	4.333515582	0.0001368	0.197773	0.429549	0.324591	16.56968	15.9547615	27.4168
21.0868564	4.5544633	0.0001426	0.203106	0.464901	0.325442	17.35269	16.7682276	27.21937
20.654481	4.852058434	0.0001568	0.200028	0.517992	0.327775	17.65119	17.8638875	26.3398
20.2283658	5.00967507	0.00012	0.197684	0.544804	0.342371	18.31233	18.4441868	26.19116
19.7584289	5.213354034	0.0001251	0.201492	0.46182	0.356537	18.77854	19.1940743	25.57623
19.274302	5.45273407	0.0001337	0.205377	0.374549	0.353431	19.25206	20.075403	24.83718
18.9905034	5.733559118	0.0001295	0.210283	0.316178	0.352102	21.96894	21.1093202	26.46238
19.2181683	5.871007327	0.000136	0.21826	0.344271	0.361452	22.96344	21.6153651	27.36137
19.2575036	6.128930497	0.0001652	0.236832	0.367506	0.379816	24.21876	22.5649643	28.02454
19.0946325	6.646088155	0.0001794	0.249951	0.382708	0.422732	26.5288	24.4689904	28.8561
18.7129652	6.972015128	0.0001763	0.266668	0.385953	0.452132	27.78347	25.6689601	28.90442
18.4043343	7.376417973	0.0001618	0.280859	0.378601	0.469192	29.35267	27.1578554	29.10438
22.2047304	3.681680104	8E-05	0.182746	0.409657	0.322446	14.23222	13.5548902	27.47867
22.003776	3.728351916	9.631E-05	0.181895	0.387604	0.319183	14.35034	13.7267224	27.24452
21.6574792	3.817225979	0.0001372	0.175429	0.410403	0.324622	14.66733	14.0539312	26.9987
21.2750816	3.951442068	0.0001621	0.176463	0.430712	0.326351	15.08969	14.5480764	26.70183
20.8598175	4.100950701	0.0001289	0.18367	0.356168	0.320732	15.44977	15.0985243	26.17271
20.4009404	4.157577442	0.0001211	0.188584	0.417807	0.319956	15.57858	15.3070077	25.75656
19.9199436	4.193130761	0.0001279	0.186592	0.445722	0.324042	15.83188	15.4379048	25.46354
19.3202106	4.537379238	0.0001388	0.18573	0.5033	0.324813	16.61871	16.705329	24.78496
18.9256054	4.75498402	0.0001089	0.18634	0.528992	0.328156	17.29175	17.5064874	24.50945
18.6136357	4.935724167	0.0001112	0.189176	0.435115	0.336695	17.80523	18.1719208	24.14376
18.3830494	5.11480208	0.000118	0.191848	0.353612	0.342222	18.04705	18.8312343	23.60147
18.4728842	5.222847232	0.0001162	0.195835	0.30453	0.341285	19.09009	19.2290256	24.39856
18.4000564	5.406136135	0.0001112	0.202579	0.328623	0.34371	21.64053	19.9038427	26.41791
18.2869544	5.595316732	0.000133	0.213661	0.346109	0.35643	22.69264	20.6003514	26.89089
18.1624795	5.863638094	0.0001546	0.227228	0.370432	0.377876	24.2415	21.5882337	27.65507
17.8174348	6.12041617	0.0001603	0.232476	0.375304	0.39939	25.21411	22.533617	27.62567
21.1465375	3.394483162	6.837E-05	0.173503	0.402089	0.309008	13.32919	12.4975134	26.25737
20.894875	3.468415597	7.264E-05	0.170809	0.384861	0.309516	13.57725	12.7697115	26.03609
20.6352828	3.544527404	0.000101	0.167126	0.37597	0.310637	13.7456	13.0499333	25.72931
20.4395453	3.651058077	0.0001268	0.164044	0.400588	0.317715	13.87739	13.4421487	25.40832
20.2661361	3.753580921	0.0001448	0.170183	0.396931	0.322461	14.06961	13.8196084	25.15944
20.1512603	3.924292261	0.000109	0.173139	0.345162	0.320784	14.53774	14.4481186	25.00437
19.7044863	3.970668564	0.0001081	0.17191	0.404447	0.319525	14.58833	14.6188628	24.54062
19.186554	3.974196192	0.0001151	0.170807	0.433821	0.325185	14.62659	14.6318505	24.08542
18.8286757	4.156192248	0.0001242	0.172494	0.486954	0.318605	15.69464	15.3019078	24.35578
18.4173765	4.480641681	9.973E-05	0.177978	0.503268	0.321064	16.25856	16.4964376	23.66255
18.1132321	4.614377569	9.956E-05	0.181323	0.410553	0.327047	16.77388	16.9888148	23.4317
17.9279284	4.753709642	0.0001051	0.183696	0.334114	0.32828	16.93486	17.5017955	22.9609
17.6594675	4.878210901	0.0001044	0.184715	0.293806	0.329866	17.43984	17.9601734	22.82583
17.3537581	5.054259856	9.524E-05	0.188812	0.313848	0.329201	19.38477	18.6083352	24.01641
16.9995316	5.216253707	0.000107	0.19906	0.324877	0.337944	20.86979	19.2047501	24.74281
16.9329641	5.322913664	0.0001283	0.210785	0.357954	0.352567	21.62686	19.5974415	25.20673
20.6272488	3.131665639	4.833E-05	0.162142	0.398009	0.29837	12.31854	11.5298947	25.40613
20.1636765	3.271921175	6.253E-05	0.162258	0.383262	0.300694	12.8882	12.0462754	25.1238
19.7075121	3.335067563	6.591E-05	0.15991	0.377972	0.301828	13.19627	12.2787622	24.79987
19.4946632	3.394630916	9.674E-05	0.158639	0.364561	0.301102	13.28399	12.4980574	24.49962
19.403785	3.498354262	0.0001145	0.157898	0.383463	0.302477	13.47189	12.879937	24.33805
19.3445212	3.558416285	0.0001192	0.160597	0.365785	0.306285	13.45177	13.1010682	24.08643
19.1207169	3.657707009	9.313E-05	0.160555	0.336013	0.308661	13.68934	13.4666281	23.80646
18.7905924	3.720262382	9.702E-05	0.159326	0.388242	0.306803	13.7495	13.6969391	23.41788
18.3720939	3.743958438	0.0001042	0.163383	0.422899	0.312947	13.81567	13.7841812	23.04688
18.2089098	3.818094034	0.0001123	0.165477	0.472197	0.309715	14.75682	14.0571272	23.6742
18.070245	4.184099295	9.161E-05	0.170828	0.475625	0.306908	15.20193	15.4046536	23.00507

705	490636.72	3860185.12	1.70347	2.36559	0.86706	3.28986	0.826	2.239	2.2344	2.36559	17.7736129	4.369068901	9.027E-05	0.17329	0.387557	0.314936	15.83132	16.0856586	22.76421
706	490686.72	3860185.12	1.66599	2.44166	0.91031	3.34186	0.675	2.235	2.279	2.44166	17.3825553	4.509564537	9.477E-05	0.176029	0.316422	0.31444	16.14754	16.6029232	22.24372
707	490736.72	3860185.12	1.62671	2.48812	0.89424	3.31974	0.605	2.255	2.3425	2.48812	16.9727168	4.595372704	9.31E-05	0.174864	0.283673	0.317217	16.59774	16.9188443	22.02283
708	490786.72	3860185.12	1.60439	2.56905	0.86835	3.41094	0.641	2.291	2.4771	2.56905	16.7398351	4.744844398	9.04E-05	0.179668	0.300394	0.322223	17.55115	17.4691562	22.36905
709	490836.72	3860185.12	1.59633	2.62564	0.86172	3.52681	0.659	2.305	2.7667	2.62564	16.6557389	4.849361922	8.971E-05	0.185771	0.309116	0.324266	19.60278	17.8539598	24.07317
710	490086.72	3860235.12	2.00787	1.61334	0.44398	2.9335	0.899	2.112	1.6466	1.61334	20.9496523	2.979719064	4.622E-05	0.154519	0.421704	0.297052	11.66676	10.970471	25.49898
711	490136.72	3860235.12	1.95911	1.63552	0.52248	2.87594	0.813	2.112	1.6814	1.63552	20.4409017	3.020683875	5.439E-05	0.151487	0.38103	0.297166	11.91311	11.1212917	25.08314
712	490186.72	3860235.12	1.91642	1.66806	0.56367	2.85401	0.77	2.103	1.731	1.66806	19.9954841	3.080782837	5.868E-05	0.150332	0.361082	0.295876	12.26476	11.3425588	24.80582
713	490236.72	3860235.12	1.86038	1.73183	0.65757	2.86674	0.795	2.095	1.7813	1.73183	19.4107757	3.198561287	6.846E-05	0.151003	0.372669	0.29478	12.62122	11.7761853	24.2729
714	490286.72	3860235.12	1.81549	1.7385	0.83272	2.85214	0.76	2.074	1.8101	1.7385	18.9424038	3.210880281	8.669E-05	0.150234	0.356229	0.291728	12.82528	11.8215403	23.9553
715	490336.72	3860235.12	1.78905	1.79174	1.01986	2.87793	0.784	2.071	1.8326	1.79174	18.6665349	3.309210604	0.0001062	0.151592	0.36744	0.291366	12.98456	12.1835643	23.58725
716	490386.72	3860235.12	1.7611	1.83461	0.98566	2.90694	0.716	2.093	1.8335	1.83461	18.3749111	3.388388308	0.0001026	0.15312	0.335615	0.29443	12.99108	12.4750739	23.06257
717	490436.72	3860235.12	1.74986	1.86329	0.7745	2.91411	0.699	2.068	1.8323	1.86329	18.2576355	3.441358136	8.063E-05	0.153498	0.327676	0.290955	12.98229	12.6700936	22.7834
718	490486.72	3860235.12	1.728	1.91779	0.83381	2.94198	0.796	2.048	1.8733	1.91779	18.0295533	3.542015585	8.68E-05	0.154966	0.373255	0.288096	13.27286	13.0406855	22.62015
719	490536.72	3860235.12	1.68814	1.93542	0.90543	2.9992	0.874	2.106	1.8843	1.93542	17.6136633	3.574576885	9.426E-05	0.15798	0.409849	0.296319	13.35059	13.1605669	22.24251
720	490586.72	3860235.12	1.6496	1.98196	0.98441	3.01843	0.977	2.11	1.9528	1.98196	17.2115458	3.660532805	0.0001025	0.158993	0.458275	0.29683	13.83636	13.4770319	22.14561
721	490636.72	3860235.12	1.61903	2.08109	0.80969	3.0615	0.957	2.095	2.0325	2.08109	16.8925855	3.843618547	8.429E-05	0.161262	0.44861	0.294782	14.40114	14.1511011	21.89098
722	490686.72	3860235.12	1.59106	2.26716	0.79399	3.11083	0.782	2.146	2.1324	2.26716	16.6007529	4.187276007	8.266E-05	0.16386	0.366704	0.301942	15.10861	15.4163493	21.31288
723	490736.72	3860235.12	1.56934	2.3331	0.82958	3.12832	0.639	2.15	2.1999	2.3331	16.3741315	4.309062286	8.636E-05	0.164781	0.299743	0.30246	15.58723	15.8647315	21.17276
724	490786.72	3860235.12	1.57118	2.39192	0.80045	3.14421	0.586	2.159	2.2671	2.39192	16.3933296	4.417698454	8.333E-05	0.165618	0.274805	0.30367	16.06322	16.2646987	21.35373
725	490086.72	3860285.12	2.01231	1.51127	0.43602	2.80429	0.952	2.097	1.5484	1.51127	20.9959782	2.791203361	4.539E-05	0.147713	0.446608	0.294934	10.97069	10.2764102	25.37076
726	490136.72	3860285.12	1.95575	1.55302	0.44499	2.73175	0.859	2.068	1.583	1.55302	20.4058442	2.868312508	4.633E-05	0.143892	0.402952	0.29086	11.21598	10.560304	24.76759
727	490186.72	3860285.12	1.9079	1.57597	0.50419	2.74276	0.78	2.023	1.6082	1.57597	19.9065884	2.910699452	5.249E-05	0.144472	0.365771	0.28461	11.39446	10.7163606	24.2903
728	490236.72	3860285.12	1.86335	1.60368	0.50554	2.77503	0.712	2	1.6637	1.60368	19.441764	2.961877762	5.263E-05	0.146172	0.333931	0.281325	11.78777	10.9047844	24.04811
729	490286.72	3860285.12	1.80852	1.63708	0.63458	2.75874	0.784	1.966	1.6854	1.63708	18.8696804	3.02356508	6.606E-05	0.145314	0.367469	0.276543	11.94174	11.1318994	23.49248
730	490336.72	3860285.12	1.76846	1.68451	0.7765	2.74087	0.747	1.955	1.7504	1.68451	18.4517036	3.111164764	8.084E-05	0.144373	0.350489	0.275024	12.40222	11.4544164	23.28063
731	490386.72	3860285.12	1.72756	1.72603	0.92862	2.7629	0.752	1.969	1.8048	1.72603	18.0249624	3.187849118	9.668E-05	0.145533	0.352505	0.277027	12.78738	11.7367462	23.0386
732	490436.72	3860285.12	1.68981	1.76793	0.85925	2.75452	0.662	1.986	1.7766	1.76793	17.6310876	3.265235304	8.945E-05	0.145092	0.310373	0.27943	12.58778	12.0216599	22.19743
733	490486.72	3860285.12	1.65454	1.7951	0.6949	2.80983	0.681	1.984	1.7695	1.7951	17.2630886	3.315416274	7.234E-05	0.148005	0.319564	0.279115	12.53769	12.2064118	21.65654
734	490536.72	3860285.12	1.6174	1.84641	0.7468	2.86105	0.766	1.979	1.7872	1.84641	16.8755784	3.41018203	7.775E-05	0.150703	0.359112	0.278357	12.66317	12.5553122	21.18187
735	490586.72	3860285.12	1.58593	1.88787	0.81825	2.87925	0.842	2.035	1.8302	1.88787	16.5472277	3.486755569	8.518E-05	0.151662	0.395018	0.286225	12.96749	12.837234	20.99722
736	490636.72	3860285.12	1.56391	1.92647	0.89713	2.87881	0.947	2.038	1.8794	1.92647	16.3174761	3.5580469	9.34E-05	0.151639	0.444146	0.286728	13.31637	13.0997082	20.97479
737	490686.72	3860285.12	1.55569	1.98434	0.7478	2.91257	0.903	2.044	1.9907	1.98434	16.2317105	3.664928488	7.785E-05	0.153417	0.423617	0.287554	14.10476	13.4932156	21.37285
738	490736.72	3860285.12	1.54326	2.12368	0.729	2.93625	0.74	2.093	2.0192	2.12368	16.1020188	3.922279112	7.589E-05	0.154664	0.34701	0.294374	14.30662	14.4407067	20.68633
739	490786.72	3860285.12	1.53617	2.25927	0.76074	2.96366	0.605	2.083	2.1189	2.25927	16.0280433	4.172703764	7.92E-05	0.156108	0.283917	0.292981	15.01282	15.3626985	20.58395
740	490086.72	3860335.12	1.97969	1.42719	0.40771	2.65492	0.893	1.992	1.4442	1.42719	20.6556287	2.63591385	4.245E-05	0.139845	0.41874	0.280157	10.23282	9.7046788	24.65847
741	490136.72	3860335.12	1.93092	1.46611	0.43456	2.62175	0.91	1.996	1.5013	1.46611	20.1467738	2.707796197	4.524E-05	0.138098	0.426557	0.280831	10.63739	9.96932898	24.36817
742	490186.72	3860335.12	1.86221	1.49773	0.45907	2.61828	0.822	2.007	1.5338	1.49773	19.4298695	2.766195987	4.779E-05	0.137915	0.385597	0.282311	10.8676	10.1843403	23.68519
743	490236.72	3860335.12	1.8166	1.53449	0.48407	2.65394	0.751	2	1.556	1.53449	18.9539853	2.834088975	5.039E-05	0.139794	0.352022	0.281344	11.02447	10.4343028	23.15145
744	490286.72	3860335.12	1.78985	1.56319	0.52248	2.67018	0.703	1.98	1.6054	1.56319	18.6748819	2.887095742	5.439E-05	0.140649	0.329669	0.278485	11.37498	10.6294585	23.05636
745	490336.72	3860335.12	1.75211	1.58618	0.59609	2.65853	0.763	1.95	1.6304	1.58618	18.2811115	2.929556563	6.206E-05	0.140036	0.357748	0.274336	11.55169	10.785787	22.74875
746	490386.72	3860335.12	1.70971	1.61318	0.72969	2.58673	0.736	1.918	1.6585	1.61318	17.8387197	2.979423556	7.597E-05	0.136254	0.345021	0.269822	11.75128	10.969383	22.35122
747	490436.72	3860335.12	1.66267	1.66524	0.84949	2.61095	0.722	1.916	1.746	1.66524	17.3479151	3.075574506	8.844E-05	0.137529	0.338414	0.269525	12.37118	11.3233832	22.21685
748	490486.72	3860335.12	1.63248	1.73814	0.7601	2.63678	0.634	1.927	1.7662	1.73814	17.0329197	3.210215388	7.913E-05	0.13889	0.297501	0.271123	12.51445	11.8190923	21.64608
749	490536.72	3860335.12	1.60495	1.75142	0.63292	2.65719	0.665	1.918	1.7657	1.75142	16.745678	3.234742561	6.589E-05	0.139965	0.311827	0.269772	12.51034	11.9093944	21.30299
750	490586.72	3860335.12	1.58655	1.77797	0.6711	2.70009	0.744	1.914	1.7482	1.77797	16.5536966	3.283778437	6.987E-05	0.142225	0.348684	0.269274	12.38656	12.0899304	20.89435
751	490636.72	3860335.12	1.56499	1.84987	0.73731	2.70343	0.812	1.966	1.7926	1.84987	16.3287446	3.416572393	7.676E-05	0.142401	0.380955	0.276569	12.70129	12.5788397	20.66777
752	490686.72	3860335.12	1.54241	1.88985	0.82071	2.73932	0.919	1.96	1.8398	1.88985	16.0931501	3.490412482	8.544E-05	0.144291	0.431115	0.275777	13.03586	12.8506977	20.61999
753	490736.72	3860335.12	1.52982	1.93722	0.69281	2.73734	0.854	1.978	1.9401	1.93722	15.9617889	3.577901351	7.213E-05	0.144187	0.40064	0.278207	13.74603	13.1728066	20.93601
754	490786.72	3860335.12	1.52235	2.01973	0.67117	2.76349	0.702	2.02	1.983	2.01973	15.8838486	3.730291188	6.987E-05	0.145564	0.329261	0.284217	14.05027	13.7338623	20.68966
755	490086.72	3860385.12	1.91152	1.34282	0.3777	2.53259	0.82	1.967	1.3531	1.34282	19.9443586	2.480088731	3.932E-05	0.133402	0.384336	0.276749	9.587273	9.1309754	23.67527
756	490136.72	3860385.12	1.85544	1.37039	0.41269	2.52958	0.89	1.905	1.4046	1.37039	19.3592328	2.531008472	4.296E-05	0.133243	0.417526	0.267993	9.951744	9.31844728	23.34234
757	490186.72	3860385.12	1.81745	1.39791	0.41961	2.48528	0.869	1.908	1.4531	1.39791	18.962854	2.581835866	4.368E-05	0.13091	0.407561	0.268468	10.29567	9.50557917	23.14176
758	490236.72	3860385.12	1.78319	1.44669	0.45698	2.49028	0.788	1.912	1.4882	1.44669	18.605393	2.671928901	4.757E-05	0.131173	0.369405	0.268993	10.54436	9.83727588	22.75403
759	490286.72	3860385.12	1.75353	1.47202	0.46192	2.49713	0.724	1.891	1.5078	1.47202	18.2959274	2.718711528	4.809E-05	0.131534	0.339413	0.266076	10.68331	10.0095161	22.4255
760	490336.72	3860385.12	1.7296	1.50541	0.50306	2.52894	0.694	1.864	1.5615	1.50541	18.0462473	2.780380376	5.237E-05	0.13321	0.325425	0.262273	11.06351	10.2365631	22.37453
761	490386.72	3860385.12	1.7049	1.54202	0.5655	2.47791	0.741	1.866	1.5928	1.54202	17.7885332	2.847996325	5.887E-05	0.130522	0.347394	0.262554	11.28535	10.4855056	22.1769
762	490436.72	3860385.12	1.67045	1.57783	0.68458	2.47356	0.722	1.853	1.6256	1.57783	17.4290899	2.914134733	7.127E-05	0.130292	0.338733	0.26066	11.51825	10.7290083	21.86222
763	490486.72	3860385.12	1.62742	1.6261	0.78418	2.51488	0.693	1.863	1.6681	1.6261	16.9801248	3.003285836	8.164E-05	0.132469	0.324881	0.262127	11.81881	11.0572371	21.46454

764	490536.72	3860385.12	1.5919	1.66862	0.63331	2.53653	0.621	1.89	1.7168	1.66862
765	490586.72	3860385.12	1.57628	1.7147	0.57762	2.56111	0.649	1.878	1.7366	1.7147
766	490636.72	3860385.12	1.56367	1.74899	0.60509	2.57522	0.727	1.866	1.7556	1.74899
767	490686.72	3860385.12	1.53985	1.78533	0.66449	2.58018	0.783	1.89	1.7903	1.78533
768	490736.72	3860385.12	1.5133	1.84591	0.74309	2.63047	0.893	1.894	1.8137	1.84591
769	490786.72	3860385.12	1.50635	1.91452	0.64371	2.63837	0.808	1.903	1.8838	1.91452
770	490136.72	3860435.12	1.84617	1.29834	0.36485	2.40057	0.818	1.875	1.3237	1.29834
771	490186.72	3860435.12	1.79501	1.32345	0.41355	2.40144	0.886	1.858	1.3647	1.32345
772	490236.72	3860435.12	1.75697	1.33942	0.39339	2.4096	0.832	1.829	1.4251	1.33942
773	490286.72	3860435.12	1.72659	1.39006	0.43718	2.41888	0.755	1.827	1.4543	1.39006
774	490336.72	3860435.12	1.6989	1.42298	0.44238	2.41665	0.684	1.838	1.4759	1.42298
775	490386.72	3860435.12	1.67739	1.45095	0.47962	2.41686	0.685	1.842	1.5292	1.45095
776	490436.72	3860435.12	1.65321	1.49453	0.53752	2.40191	0.72	1.836	1.5517	1.49453
777	490486.72	3860435.12	1.62679	1.54376	0.63804	2.38745	0.708	1.828	1.5961	1.54376
778	490536.72	3860435.12	1.59803	1.60023	0.68836	2.39992	0.662	1.829	1.6299	1.60023
779	490586.72	3860435.12	1.56496	1.62743	0.53162	2.4101	0.611	1.857	1.6566	1.62743
780	490636.72	3860435.12	1.54415	1.67827	0.52788	2.41609	0.635	1.855	1.6803	1.67827
781	490686.72	3860435.12	1.52243	1.72435	0.54653	2.4504	0.711	1.845	1.7204	1.72435
782	490736.72	3860435.12	1.49347	1.77672	0.59866	2.50061	0.755	1.849	1.7612	1.77672
783	490786.72	3860435.12	1.48455	1.82025	0.67269	2.55413	0.868	1.857	1.7844	1.82025
784	490136.72	3860485.12	1.83737	1.22249	0.33912	2.33575	0.753	1.906	1.1947	1.22249
785	490186.72	3860485.12	1.79886	1.25629	0.3836	2.34514	0.816	1.885	1.2833	1.25629
786	490236.72	3860485.12	1.75019	1.2908	0.39776	2.33628	0.879	1.856	1.3388	1.2908
787	490286.72	3860485.12	1.705	1.3111	0.41319	2.33576	0.797	1.831	1.3986	1.3111
788	490336.72	3860485.12	1.6746	1.34965	0.42084	2.32298	0.722	1.789	1.43	1.34965
789	490386.72	3860485.12	1.64965	1.39614	0.42189	2.30671	0.657	1.782	1.4574	1.39614
790	490436.72	3860485.12	1.63451	1.42667	0.45981	2.30904	0.677	1.78	1.5069	1.42667
791	490486.72	3860485.12	1.61316	1.45105	0.51212	2.28169	0.7	1.783	1.5229	1.45105
792	490536.72	3860485.12	1.58937	1.49446	0.59099	2.2916	0.688	1.779	1.5381	1.49446
793	490586.72	3860485.12	1.56674	1.54485	0.61202	2.30841	0.627	1.812	1.5774	1.54485
794	490636.72	3860485.12	1.54452	1.58392	0.46319	2.32172	0.601	1.808	1.6154	1.58392
795	490686.72	3860485.12	1.51201	1.61841	0.47033	2.31143	0.622	1.81	1.6461	1.61841
796	490736.72	3860485.12	1.49527	1.68459	0.49414	2.37342	0.687	1.817	1.6697	1.68459
797	490786.72	3860485.12	1.46303	1.74753	0.53897	2.34073	0.728	1.835	1.7177	1.74753
798	490136.72	3860535.12	1.82606	1.17491	0.31168	2.28965	0.747	1.872	1.1545	1.17491
799	490186.72	3860535.12	1.79406	1.19371	0.33122	2.28638	0.753	1.891	1.1751	1.19371
800	490236.72	3860535.12	1.75533	1.21994	0.40565	2.26305	0.814	1.901	1.2282	1.21994
801	490286.72	3860535.12	1.7083	1.26716	0.38079	2.24202	0.842	1.911	1.2957	1.26716
802	490336.72	3860535.12	1.67438	1.29321	0.41476	2.1982	0.764	1.864	1.3744	1.29321
803	490386.72	3860535.12	1.64895	1.32013	0.3909	2.16274	0.693	1.799	1.4105	1.32013
804	490436.72	3860535.12	1.62495	1.37554	0.40587	2.18938	0.633	1.771	1.4366	1.37554
805	490486.72	3860535.12	1.60232	1.40566	0.4411	2.1861	0.669	1.753	1.4793	1.40566
806	490536.72	3860535.12	1.58187	1.43598	0.49442	2.18859	0.682	1.757	1.5035	1.43598
807	490586.72	3860535.12	1.55866	1.44245	0.55345	2.22388	0.66	1.741	1.4937	1.44245
808	490636.72	3860535.12	1.53796	1.48862	0.55257	2.22567	0.604	1.757	1.5134	1.48862
809	490686.72	3860535.12	1.51736	1.54509	0.43777	2.19749	0.591	1.793	1.5661	1.54509
810	490736.72	3860535.12	1.48797	1.58472	0.43566	2.21082	0.608	1.794	1.6008	1.58472
811	490786.72	3860535.12	1.46412	1.63757	0.45018	2.2103	0.663	1.787	1.6311	1.63757
812	490136.72	3860585.12	1.80293	1.13751	0.29176	2.24837	0.778	1.86	1.1198	1.13751
813	490186.72	3860585.12	1.76966	1.1533	0.30171	2.20224	0.712	1.852	1.1353	1.1533
814	490236.72	3860585.12	1.74831	1.17413	0.34453	2.20106	0.747	1.867	1.1631	1.17413
815	490286.72	3860585.12	1.72063	1.19606	0.38455	2.20515	0.81	1.886	1.2132	1.19606
816	490336.72	3860585.12	1.67781	1.23933	0.40148	2.13763	0.807	1.884	1.2792	1.23933
817	490386.72	3860585.12	1.64505	1.27471	0.39279	2.0861	0.732	1.849	1.3361	1.27471
818	490436.72	3860585.12	1.6267	1.30467	0.37359	2.1135	0.654	1.816	1.3469	1.30467
819	490486.72	3860585.12	1.60611	1.34535	0.39471	2.14941	0.613	1.769	1.3913	1.34535
820	490536.72	3860585.12	1.57366	1.38869	0.4267	2.14647	0.663	1.739	1.457	1.38869
821	490586.72	3860585.12	1.53888	1.38943	0.46658	2.09817	0.66	1.724	1.4419	1.38943
822	490636.72	3860585.12	1.52089	1.40926	0.52282	2.07867	0.629	1.723	1.451	1.40926

16.6095173	3.081817115	6.593E-05	0.133609	0.2914	0.265836	12.16436	11.3463667	21.20024
16.4465418	3.16692345	6.013E-05	0.134904	0.304343	0.264137	12.30465	11.6597038	20.96186
16.314972	3.230254532	6.299E-05	0.135647	0.340923	0.262501	12.43885	11.8928707	20.83034
16.0664396	3.29737181	6.918E-05	0.135909	0.367365	0.265943	12.68492	12.1399773	20.67804
15.789423	3.409258568	7.736E-05	0.138558	0.418698	0.266392	12.85079	12.5519122	20.32128
15.7169083	3.535976138	6.701E-05	0.138974	0.379112	0.267667	13.3474	13.01845	20.36766
19.2625118	2.397937477	3.798E-05	0.126448	0.383416	0.263705	9.379034	8.82851804	22.98457
18.7287202	2.444313781	4.305E-05	0.126494	0.415612	0.261405	9.669392	8.99926229	22.64672
18.3318196	2.473809184	4.095E-05	0.126923	0.390253	0.257282	10.09699	9.10785591	22.56927
18.0148417	2.5673375	4.551E-05	0.127412	0.353945	0.256944	10.30424	9.45220034	22.17257
17.7259306	2.628138293	4.605E-05	0.127295	0.320661	0.258606	10.45707	9.67605142	21.8417
17.5015002	2.679796804	4.993E-05	0.127306	0.321205	0.259098	10.83493	9.86624325	21.85765
17.2492117	2.760285825	5.596E-05	0.126518	0.337458	0.258331	10.99407	10.1625807	21.56335
16.9735515	2.851209976	6.642E-05	0.125757	0.331845	0.257141	11.30859	10.4973374	21.35082
16.6734763	2.955505869	7.166E-05	0.126414	0.310317	0.257273	11.5485	10.8813249	20.99023
16.3284316	3.005742247	5.534E-05	0.12695	0.286411	0.261197	11.73789	11.0662809	20.6804
16.1113048	3.099639948	5.496E-05	0.127265	0.297782	0.260984	11.90574	11.4119853	20.39079
15.8846833	3.184746283	5.69E-05	0.129073	0.333355	0.259521	12.18987	11.7253224	20.25598
15.5825214	3.28146978	6.232E-05	0.131717	0.354254	0.260111	12.4786	12.0814306	20.0073
15.4894522	3.361866455	7.003E-05	0.134536	0.407045	0.261236	12.64312	12.3774281	19.9199
19.1706946	2.257848165	3.53E-05	0.123033	0.353129	0.268084	8.464668	8.31274937	22.32474
18.7688902	2.320274253	3.994E-05	0.123528	0.382544	0.265168	9.09236	8.54258433	22.41022
18.2610786	2.384011658	4.141E-05	0.123061	0.412386	0.261153	9.485952	8.77724717	22.15044
17.7895766	2.421504249	4.302E-05	0.123034	0.373888	0.257582	9.909656	8.91528414	21.96
17.47239	2.492703234	4.381E-05	0.122361	0.33856	0.25172	10.13214	9.17741838	21.6325
17.2120675	2.578566808	4.392E-05	0.121504	0.308131	0.250712	10.32628	9.49354343	21.30376
17.0541002	2.634953449	4.787E-05	0.121627	0.317547	0.250439	10.67707	9.70114287	21.35464
16.8313392	2.679981497	5.331E-05	0.120186	0.328154	0.250866	10.79044	9.86692323	21.13409
16.5831199	2.76015654	6.153E-05	0.120708	0.32279	0.250221	10.89764	10.1621047	20.77259
16.3470037	2.853223125	6.372E-05	0.121593	0.294115	0.254955	11.17616	10.5047492	20.54237
16.1151653	2.925382511	4.822E-05	0.122294	0.281769	0.254347	11.44569	10.7704194	20.37428
15.7759635	2.989082977	4.896E-05	0.121752	0.291715	0.254591	11.66307	11.0049462	20.09128
15.6013022	3.111312518	5.144E-05	0.125018	0.322068	0.25566	11.83036	11.4549603	19.79081
15.2649175	3.22755802	5.611E-05	0.123296	0.341514	0.258143	12.17052	11.8829429	19.50307
19.0526887	2.169971442	3.245E-05	0.120605	0.350395	0.263386	8.179766	7.98921248	22.14763
18.7188081	2.204693644	3.448E-05	0.120433	0.353307	0.265994	8.326078	8.11704967	21.8723
18.3147082	2.253138505	4.223E-05	0.119204	0.381536	0.267491	8.70224	8.29540976	21.74295
17.824008	2.340350335	3.964E-05	0.118096	0.394731	0.268817	9.180148	8.6164987	21.50969
17.4700946	2.388462749	4.318E-05	0.115788	0.358456	0.262191	9.738049	8.79363481	21.53945
17.2047638	2.438181988	4.07E-05	0.11392	0.325163	0.253091	9.99376	8.97668679	21.35223
16.9543534	2.540520139	4.225E-05	0.115324	0.29661	0.249175	10.17848	9.35346651	20.98103
16.7182372	2.59614954	4.592E-05	0.115151	0.313819	0.246596	10.48137	9.55827801	20.9131
16.5048666	2.652148327	5.147E-05	0.115282	0.319822	0.247232	10.65291	9.76444948	20.72786
16.2626988	2.664097936	5.762E-05	0.117141	0.30936	0.244876	10.58369	9.80844452	20.37347
16.0467198	2.749370494	5.753E-05	0.117235	0.283185	0.247167	10.72306	10.1223936	20.0444
15.8317841	2.853666387	4.557E-05	0.115751	0.277338	0.252163	11.09653	10.5063812	19.92089
15.5251357	2.926860051	4.535E-05	0.116453	0.285159	0.252391	11.3421	10.7758593	19.67229
15.2762903	3.024470073	4.687E-05	0.116426	0.310865	0.251447	11.55679	11.1352314	19.4011
18.8113556	2.100896421	3.037E-05	0.118431	0.364908	0.261587	7.93447	7.73489807	21.85678
18.4642241	2.130059378	3.141E-05	0.116001	0.334039	0.260484	8.044152	7.84226771	21.50672
18.2414631	2.16853084	3.587E-05	0.115939	0.350423	0.262643	8.241267	7.9839086	21.39639
17.9526564	2.20903392	4.003E-05	0.116154	0.380017	0.265331	8.595605	8.13302932	21.38581
17.5058824	2.288950393	4.18E-05	0.112598	0.378362	0.265047	9.063381	8.42725886	21.187
17.1640721	2.354294624	4.089E-05	0.109883	0.343282	0.26005	9.466892	8.66783757	21.03068
16.9726125	2.409628517	3.889E-05	0.111327	0.306762	0.255478	9.543485	8.8715611	20.72777
16.7577812	2.484761453	4.109E-05	0.113218	0.287485	0.248839	9.858146	9.14817902	20.60209
16.4192053	2.564807212	4.442E-05	0.113063	0.310828	0.244607	10.32302	9.44288455	20.53269
16.0563189	2.566173937	4.857E-05	0.110519	0.309313	0.242581	10.21667	9.44791644	20.0537
15.8686153	2.602798473	5.443E-05	0.109492	0.294753	0.242415	10.28114	9.58275747	19.81651

823	490686.72	3860585.12	1.50268	1.442	0.50417	2.03663	0.593	1.73	1.4652	1.442	15.6786164	2.663266819	5.249E-05	0.107278	0.277975	0.243349	10.38112	9.80538458	19.54627
824	490736.72	3860585.12	1.48395	1.49598	0.42462	2.09816	0.582	1.771	1.4993	1.49598	15.4831919	2.762963867	4.421E-05	0.110519	0.272995	0.249145	10.62287	10.1724405	19.32929
825	490786.72	3860585.12	1.45561	1.54963	0.41037	2.13943	0.59	1.767	1.5346	1.54963	15.1874989	2.862051429	4.272E-05	0.112692	0.276695	0.248507	10.87341	10.5372525	19.02364
826	490136.72	3860635.12	1.77497	1.10167	0.26971	2.23271	0.753	1.837	1.0883	1.10167	18.5196274	2.034702605	2.808E-05	0.117606	0.353016	0.258486	7.710856	7.49119142	21.50313
827	490186.72	3860635.12	1.74364	1.12294	0.28639	2.17565	0.734	1.832	1.1064	1.12294	18.1927374	2.073986714	2.981E-05	0.1146	0.344201	0.257704	7.839101	7.63582425	21.18654
828	490236.72	3860635.12	1.71271	1.14571	0.30417	2.15334	0.691	1.803	1.1265	1.14571	17.870021	2.116041212	3.167E-05	0.113425	0.323976	0.253623	7.981588	7.79065684	20.86805
829	490286.72	3860635.12	1.6844	1.16567	0.36669	2.14146	0.744	1.82	1.1534	1.16567	17.574641	2.152905848	3.817E-05	0.112799	0.34874	0.256034	8.172539	7.92638186	20.69132
830	490336.72	3860635.12	1.65684	1.18786	0.3491	2.10127	0.807	1.85	1.1993	1.18786	17.2870863	2.193889129	3.634E-05	0.110682	0.378286	0.260184	8.49719	8.07727055	20.65008
831	490386.72	3860635.12	1.61333	1.21648	0.39052	2.06177	0.774	1.833	1.2616	1.21648	16.833113	2.246748142	4.066E-05	0.108602	0.362789	0.257921	8.939033	8.27188227	20.47636
832	490436.72	3860635.12	1.58049	1.25656	0.3646	2.03329	0.702	1.803	1.3038	1.25656	16.490468	2.320772923	3.796E-05	0.107102	0.329064	0.253696	9.237681	8.54442029	20.1944
833	490486.72	3860635.12	1.55954	1.27712	0.36008	2.03478	0.599	1.769	1.3083	1.27712	16.2718805	2.358745715	3.749E-05	0.10718	0.280822	0.248786	9.269565	8.68422521	19.85279
834	490536.72	3860635.12	1.53467	1.31167	0.3796	2.06104	0.603	1.741	1.3307	1.31167	16.0123927	2.422556997	3.952E-05	0.108563	0.282974	0.244852	9.428348	8.91916005	19.58057
835	490586.72	3860635.12	1.50396	1.33253	0.40886	2.03427	0.652	1.697	1.3696	1.33253	15.6919716	2.461083866	4.256E-05	0.107153	0.305637	0.238669	9.704323	9.06100494	19.44788
836	490636.72	3860635.12	1.47495	1.36756	0.43854	2.01256	0.639	1.685	1.4126	1.36756	15.389288	2.525781672	4.565E-05	0.10601	0.299653	0.237008	10.00878	9.2992037	19.26736
837	490686.72	3860635.12	1.46153	1.38182	0.4959	1.97167	0.599	1.686	1.4227	1.38182	15.2492668	2.552118832	5.163E-05	0.103856	0.281005	0.237216	10.08041	9.39616957	19.10776
838	490736.72	3860635.12	1.45265	1.39604	0.43801	1.9652	0.583	1.7	1.4314	1.39604	15.1566149	2.578382115	4.56E-05	0.103515	0.27346	0.239098	10.14163	9.49286345	18.99988
839	490786.72	3860635.12	1.44978	1.44839	0.41251	2.04199	0.573	1.729	1.453	1.44839	15.12667	2.675068674	4.294E-05	0.10756	0.26877	0.243199	10.29531	9.84883563	18.86779
840	490136.72	3860685.12	1.73242	1.08394	0.24727	2.18994	0.753	1.783	1.0627	1.08394	18.0756706	2.001956613	2.574E-05	0.115353	0.353227	0.25087	7.529755	7.37063007	20.95623
841	490186.72	3860685.12	1.70929	1.09188	0.2755	2.16398	0.727	1.807	1.0687	1.09188	17.8343375	2.016621203	2.868E-05	0.113986	0.340806	0.254212	7.571983	7.42462089	20.70735
842	490236.72	3860685.12	1.68245	1.11366	0.2777	2.12946	0.697	1.785	1.0927	1.11366	17.5542951	2.056847244	2.891E-05	0.112167	0.327052	0.251082	7.741961	7.57272163	20.47071
843	490286.72	3860685.12	1.65452	1.13917	0.31589	2.07902	0.689	1.752	1.1123	1.13917	17.2628799	2.103962318	3.289E-05	0.10951	0.322931	0.246454	7.88133	7.74618582	20.18091
844	490336.72	3860685.12	1.63445	1.16022	0.33968	2.06272	0.742	1.782	1.1429	1.16022	17.0534742	2.142840103	3.536E-05	0.108652	0.347952	0.250657	8.098001	7.88932268	20.11229
845	490386.72	3860685.12	1.60982	1.17837	0.34152	2.04815	0.803	1.785	1.1868	1.17837	16.7964904	2.176361804	3.555E-05	0.107884	0.376556	0.251095	8.40919	8.01273997	20.10487
846	490436.72	3860685.12	1.56988	1.18828	0.37193	1.99787	0.742	1.789	1.2351	1.18828	16.3797657	2.194664838	3.872E-05	0.105236	0.347704	0.251697	8.750917	8.08012649	19.9499
847	490486.72	3860685.12	1.53844	1.22011	0.34442	1.97395	0.674	1.753	1.2666	1.22011	16.051728	2.253452482	3.586E-05	0.103976	0.315831	0.246652	8.974601	8.29656573	19.64971
848	490536.72	3860685.12	1.52034	1.25435	0.35391	1.98201	0.572	1.717	1.2799	1.25435	15.8628768	2.316691217	3.684E-05	0.104401	0.268311	0.241478	9.06827	8.52939262	19.33267
849	490586.72	3860685.12	1.49809	1.27265	0.36833	1.99914	0.594	1.682	1.3046	1.27265	15.6307254	2.350489957	3.835E-05	0.105303	0.278721	0.236555	9.243703	8.65382988	19.19171
850	490636.72	3860685.12	1.47073	1.31519	0.39589	1.95665	0.644	1.651	1.342	1.31519	15.3452575	2.429058175	4.121E-05	0.103065	0.301843	0.23219	9.508342	8.94309553	18.9767
851	490686.72	3860685.12	1.4438	1.33976	0.41554	1.91873	0.619	1.632	1.3631	1.33976	15.0642761	2.474437139	4.326E-05	0.101067	0.290313	0.229525	9.657772	9.11016786	18.70727
852	490736.72	3860685.12	1.42812	1.3511	0.46914	1.89072	0.574	1.641	1.3878	1.3511	14.9006746	2.495381276	4.884E-05	0.099592	0.269333	0.230793	9.832993	9.18727816	18.64154
853	490786.72	3860685.12	1.41946	1.37568	0.38599	1.93057	0.575	1.672	1.4145	1.37568	14.8103181	2.540778709	4.018E-05	0.101691	0.269413	0.235268	10.0221	9.35441849	18.62519
854	490136.72	3860735.12	1.68238	1.06657	0.24745	2.12896	0.813	1.729	1.0199	1.06657	17.5535647	1.969875514	2.576E-05	0.112141	0.381081	0.243254	7.226076	7.25251667	20.2335
855	490186.72	3860735.12	1.63301	1.06681	0.25015	2.08828	0.716	1.728	1.028	1.06681	17.0384496	1.970318776	2.604E-05	0.109998	0.33554	0.243103	7.283467	7.25414863	19.72675
856	490236.72	3860735.12	1.58661	1.08218	0.26465	2.05817	0.705	1.737	1.0435	1.08218	16.5543227	1.998706024	2.755E-05	0.108412	0.330527	0.244359	7.393503	7.35866234	19.2712
857	490286.72	3860735.12	1.55948	1.11493	0.28316	2.04174	0.667	1.727	1.0819	1.11493	16.2712545	2.05919284	2.948E-05	0.107547	0.312825	0.242978	7.665439	7.58135744	19.07791
858	490336.72	3860735.12	1.53735	1.13081	0.33064	2.02885	0.684	1.695	1.0985	1.13081	16.0403552	2.088522019	3.442E-05	0.106868	0.32091	0.238382	7.783198	7.68933907	18.88893
859	490386.72	3860735.12	1.51552	1.14665	0.31017	2.02659	0.74	1.703	1.1287	1.14665	15.812586	2.117777322	3.229E-05	0.106749	0.346892	0.239513	7.997176	7.7970487	18.82368
860	490436.72	3860735.12	1.49009	1.16476	0.36781	1.99041	0.783	1.711	1.1747	1.16476	15.5472552	2.151225146	3.829E-05	0.104843	0.366976	0.240671	8.323244	7.920194	18.81406
861	490486.72	3860735.12	1.45572	1.17515	0.3514	1.95005	0.71	1.731	1.2157	1.17515	15.1886466	2.170414704	3.658E-05	0.102717	0.33282	0.24346	8.613744	7.99084445	18.661
862	490536.72	3860735.12	1.42845	1.19076	0.33957	1.92798	0.628	1.703	1.2362	1.19076	14.9041177	2.199245213	3.535E-05	0.101555	0.294533	0.239623	8.758994	8.09699011	18.40111
863	490586.72	3860735.12	1.42571	1.23004	0.34939	1.93564	0.553	1.677	1.2599	1.23004	14.8755292	2.271792454	3.637E-05	0.101958	0.259528	0.235847	8.926917	8.36408825	18.30752
864	490636.72	3860735.12	1.41728	1.24793	0.36105	1.92805	0.586	1.652	1.2844	1.24793	14.7875725	2.304833954	3.759E-05	0.101558	0.274688	0.232337	9.10065	8.48573757	18.31594
865	490686.72	3860735.12	1.41069	1.28882	0.3836	1.86535	0.636	1.633	1.3184	1.28882	14.718814	2.380354745	3.994E-05	0.098256	0.298003	0.229693	9.341411	8.76378347	18.30279
866	490736.72	3860735.12	1.39745	1.31671	0.39799	1.84176	0.605	1.605	1.3466	1.31671	14.5806709	2.431865502	4.143E-05	0.097013	0.283879	0.22578	9.541289	8.9534313	18.20711
867	490136.72	3860785.12	1.62108	1.03905	0.24704	2.10255	0.858	1.677	0.9809	1.03905	16.9139747	1.91904812	2.572E-05	0.11075	0.402178	0.235967	6.950172	7.06538478	19.46673
868	490186.72	3860785.12	1.58465	1.04428	0.23519	2.06543	0.742	1.66	0.9929	1.04428	16.5338725	1.928707541	2.448E-05	0.108795	0.348116	0.23354	7.034771	7.100948	19.08688
869	490236.72	3860785.12	1.55726	1.05109	0.24907	2.02739	0.687	1.66	1.0059	1.05109	16.2480915	1.941285105	2.593E-05	0.106791	0.322162	0.233501	7.127377	7.14725498	18.83198
870	490286.72	3860785.12	1.51338	1.05914	0.25854	2.00435	0.669	1.658	1.0203	1.05914	15.7902577	1.956152857	2.692E-05	0.105577	0.313834	0.2332	7.229123	7.20199378	18.42618
871	490336.72	3860785.12	1.48107	1.06923	0.29262	1.99152	0.641	1.642	1.0365	1.06923	15.4531426	1.974788337	3.046E-05	0.104901	0.300652	0.230929	7.343764	7.27060427	18.1376
872	490386.72	3860785.12	1.46762	1.08473	0.30361	1.98622	0.683	1.635	1.0533	1.08473	15.3128085	2.003415684	3.161E-05	0.104622	0.320248	0.229995	7.463152	7.37600195	18.05827
873	490436.72	3860785.12	1.45384	1.11625	0.2917	1.97598	0.737	1.645	1.1	1.11625	15.1690311	2.061630782	3.037E-05	0.104083	0.345622	0.231396	7.794109	7.59033325	18.11557
874	490486.72	3860785.12	1.4353	1.14531	0.3518	1.93577	0.75	1.644	1.1544	1.14531	14.975589	2.115302442	3.662E-05	0.101965	0.351516	0.231202	8.179482	7.7879369	18.16716
875	490536.72	3860785.12	1.4092	1.15673	0.33064	1.90064	0.681	1.657	1.1918	1.15673	14.7032677	2.136394333	3.442E-05	0.100114	0.319118	0.233166	8.44412	7.8655912	18.07062
876	490586.72	3860785.12	1.3839	1.16538	0.33613	1.87346	0.578	1.649	1.2066	1.16538	14.4392933	2.15237024	3.499E-05	0.098683	0.270876	0.231904	8.548984	7.92440991	17.81774
877	490636.72	3860785.12	1.3706	1.20008	0.34444	1.88434	0.545	1.626	1.2412	1.20008	14.3005242	2.216458561	3.586E-05	0.099256	0.255462	0.228735	8.794633	8.16036472	17.73474
878	490686.72	3860785.12	1.35603	1.22969	0.35518	1.82809	0.578	1.603	1.2675	1.22969	14.1485041	2.27114603	3.698E-05	0.096293	0.270862	0.225481	8.980907	8.3617083	17.63152
879	490736.72	3860785.12	1.34098	1.25365	0.36317	1.76652	0.625	1.598	1.299	1.25365	13.9914759	2.315398369	3.781E-05	0.09305	0.293206	0.224836	9.203813	8.52463272	17.59718
880	490086.72	3860835.12	1.60737	1.00753	0.20976	2.12597	0.959	1.68	0.9253	1.00753	16.7709277	1.860833023	2.184E-05	0.111984	0.449572	0.236399	6.556155	6.85105349	19.13484
881	490136.72	3860835.12	1.595	1.01938	0.22577	2.0907	0.887	1.666	0.9452	1.01938	16.641862	1.882719092	2.35E-05	0.110126	0.416119	0.23438	6.697225	6.93163172	19.05082

882	490186.72	3860835.12	1.5672	1.02492	0.22013	2.03823	0.806	1.647	0.9628	1.02492	16.3518032	1.89295106	2.292E-05	0.107362	0.377836	0.231703	6.821502	6.96930289	18.81388
883	490236.72	3860835.12	1.53505	1.0303	0.23635	2.00881	0.685	1.626	0.9731	1.0303	16.0163575	1.90288752	2.461E-05	0.105812	0.321378	0.228773	6.894835	7.00588609	18.46418
884	490286.72	3860835.12	1.50211	1.03862	0.24904	1.97117	0.662	1.615	0.9873	1.03862	15.6726692	1.918253942	2.593E-05	0.10383	0.310425	0.227172	6.995093	7.06246084	18.16501
885	490336.72	3860835.12	1.46798	1.04142	0.26527	1.96548	0.647	1.608	1.0045	1.04142	15.3165646	1.923425334	2.762E-05	0.10353	0.303583	0.226167	7.117174	7.08150042	17.90897
886	490386.72	3860835.12	1.42907	1.05118	0.2996	1.95466	0.627	1.584	1.0175	1.05118	14.9105866	1.941451328	3.119E-05	0.10296	0.293951	0.222854	7.209142	7.14786697	17.53311
887	490436.72	3860835.12	1.40761	1.06811	0.27802	1.93158	0.68	1.578	1.033	1.06811	14.686678	1.97271978	2.894E-05	0.101744	0.31902	0.221946	7.319036	7.26298844	17.35818
888	490486.72	3860835.12	1.39674	1.08423	0.31622	1.91114	0.735	1.564	1.0654	1.08423	14.5732629	2.002492222	3.292E-05	0.100668	0.344562	0.220027	7.548673	7.37260203	17.41711
889	490536.72	3860835.12	1.37738	1.09749	0.33515	1.86745	0.718	1.547	1.1061	1.09749	14.3712651	2.026982456	3.489E-05	0.098366	0.336792	0.217658	7.836763	7.46276805	17.42509
890	490586.72	3860835.12	1.35102	1.11595	0.32414	1.83987	0.653	1.544	1.1496	1.11595	14.096231	2.061076704	3.374E-05	0.096913	0.306364	0.217205	8.145331	7.58829329	17.33486
891	490636.72	3860835.12	1.32644	1.14977	0.3324	1.83377	0.533	1.536	1.1882	1.14977	13.8397689	2.12353973	3.46E-05	0.096592	0.249779	0.216078	8.418542	7.81826424	17.12607
892	490686.72	3860835.12	1.31063	1.17632	0.33961	1.79866	0.542	1.523	1.2256	1.17632	13.674811	2.172575607	3.536E-05	0.094743	0.25399	0.214258	8.683889	7.99880027	17.0955
893	490736.72	3860835.12	1.29991	1.21321	0.34951	1.73408	0.57	1.507	1.2553	1.21321	13.562961	2.240708695	3.639E-05	0.091341	0.26749	0.211958	8.894324	8.24964676	17.01917
894	490086.72	3860885.12	1.55801	0.98757	0.23209	2.09824	0.973	1.591	0.9024	0.98757	16.2559169	1.823968386	2.416E-05	0.110523	0.456033	0.223826	6.3939	6.71532847	18.54886
895	490136.72	3860885.12	1.53256	0.99476	0.20189	2.07122	0.914	1.574	0.9101	0.99476	15.9903774	1.837247782	2.102E-05	0.1091	0.428653	0.221442	6.448529	6.76421939	18.27115
896	490186.72	3860885.12	1.52712	1.00444	0.20767	2.0186	0.843	1.567	0.9273	1.00444	15.9336177	1.855126022	2.162E-05	0.106328	0.395224	0.220402	6.570397	6.83004195	18.25107
897	490236.72	3860885.12	1.51101	1.01226	0.22228	1.98515	0.739	1.549	0.9475	1.01226	15.7655297	1.869568981	2.314E-05	0.104566	0.346663	0.21787	6.71345	6.88321678	18.13445
898	490286.72	3860885.12	1.4846	1.01697	0.23576	1.95351	0.659	1.539	0.9554	1.01697	15.4899739	1.878268001	2.454E-05	0.102899	0.308905	0.216552	6.769283	6.91524408	17.85066
899	490336.72	3860885.12	1.44706	1.02372	0.24599	1.91224	0.638	1.509	0.9696	1.02372	15.0982902	1.890734749	2.561E-05	0.100725	0.299311	0.212253	6.870108	6.96114307	17.5103
900	490386.72	3860885.12	1.42722	1.02753	0.27202	1.93626	0.624	1.502	0.9897	1.02753	14.8912842	1.897771536	2.832E-05	0.101991	0.292596	0.211274	7.012452	6.9870505	17.42035
901	490436.72	3860885.12	1.39245	1.03893	0.27392	1.91801	0.628	1.497	1.0038	1.03893	14.528502	1.918826489	2.852E-05	0.101029	0.294561	0.210607	7.112498	7.0645688	17.10148
902	490486.72	3860885.12	1.37422	1.055	0.25516	1.88377	0.678	1.475	1.0173	1.055	14.3382944	1.948506584	2.656E-05	0.099226	0.318134	0.207494	7.207654	7.1738424	16.94549
903	490536.72	3860885.12	1.36001	1.06945	0.32989	1.85914	0.732	1.455	1.0497	1.06945	14.1900305	1.97519466	3.434E-05	0.097928	0.34315	0.204716	7.437149	7.27210024	16.9761
904	490586.72	3860885.12	1.33588	1.08173	0.31547	1.82467	0.685	1.448	1.0881	1.08173	13.9382637	1.997874907	3.284E-05	0.096113	0.321317	0.203648	7.709794	7.3556024	16.91144
905	490636.72	3860885.12	1.30749	1.09354	0.32043	1.79886	0.604	1.432	1.1171	1.09354	13.642049	2.0196871	3.336E-05	0.094753	0.283321	0.20142	7.914773	7.43590864	16.72013
906	490686.72	3860885.12	1.2814	1.1077	0.32834	1.76672	0.492	1.421	1.1434	1.1077	13.3698319	2.045839567	3.418E-05	0.09306	0.230652	0.199834	8.101047	7.53219452	16.5081
907	490736.72	3860885.12	1.2723	1.12329	0.33516	1.70584	0.538	1.404	1.1792	1.12329	13.2748846	2.074633138	3.489E-05	0.089854	0.252363	0.197541	8.355199	7.63820419	16.60631
908	490086.72	3860935.12	1.49373	0.94147	0.24035	2.09084	0.931	1.515	0.8547	0.94147	15.5852342	1.738825113	2.502E-05	0.110133	0.436484	0.213089	6.056	6.40185536	17.73793
909	490136.72	3860935.12	1.49591	0.9671	0.22339	2.04287	0.935	1.488	0.8875	0.9671	15.6079798	1.786161818	2.326E-05	0.107606	0.438543	0.209268	6.288329	6.57613553	17.86177
910	490186.72	3860935.12	1.46894	0.97718	0.19946	2.00194	0.87	1.488	0.9032	0.97718	15.326581	1.804778828	2.077E-05	0.10545	0.407796	0.209302	6.399427	6.64467802	17.60868
911	490236.72	3860935.12	1.44676	0.98627	0.21121	1.94747	0.8	1.487	0.9218	0.98627	15.09516	1.821567383	2.199E-05	0.102581	0.375065	0.209138	6.531144	6.70648866	17.42819
912	490286.72	3860935.12	1.43994	0.99906	0.22197	1.91796	0.68	1.48	0.938	0.99906	15.0240017	1.845189562	2.311E-05	0.101027	0.31864	0.208154	6.645998	6.79345875	17.34957
913	490336.72	3860935.12	1.43178	1.00215	0.23109	1.89086	0.634	1.469	0.9378	1.00215	14.9388622	1.850896562	2.406E-05	0.099599	0.29707	0.206592	6.644722	6.81447029	17.2233
914	490386.72	3860935.12	1.39245	1.0105	0.25119	1.89468	0.618	1.455	0.9569	1.0105	14.528502	1.866318392	2.615E-05	0.099801	0.28959	0.204741	6.780194	6.87124904	16.89792
915	490436.72	3860935.12	1.38395	1.01593	0.27519	1.90225	0.601	1.435	0.9769	1.01593	14.439815	1.876347198	2.865E-05	0.100199	0.281956	0.201927	6.921618	6.90817223	16.91372
916	490486.72	3860935.12	1.34833	1.02711	0.25338	1.86914	0.629	1.432	0.9885	1.02711	14.0681641	1.896995827	2.638E-05	0.098455	0.295039	0.201463	7.004163	6.98419456	16.58011
917	490536.72	3860935.12	1.3369	1.04313	0.27153	1.83941	0.677	1.414	1.0017	1.04313	13.9489061	1.926583576	2.827E-05	0.096889	0.317318	0.1989	7.097406	7.09312817	16.4929
918	490586.72	3860935.12	1.32698	1.05612	0.31751	1.8098	0.724	1.397	1.0351	1.05612	13.8454031	1.950575141	3.305E-05	0.09533	0.339699	0.19648	7.334199	7.18145823	16.58026
919	490636.72	3860935.12	1.30161	1.06748	0.3092	1.78385	0.658	1.382	1.0727	1.06748	13.5806984	1.971556217	3.219E-05	0.093963	0.308441	0.194397	7.600396	7.25870453	16.49078
920	490686.72	3860935.12	1.27405	1.08182	0.3171	1.73653	0.557	1.362	1.0968	1.08182	13.2931437	1.998041131	3.301E-05	0.09147	0.261169	0.191589	7.771365	7.35621439	16.2506
921	490736.72	3860935.12	1.25186	1.09582	0.32402	1.69513	0.476	1.344	1.1296	1.09582	13.0616184	2.02389809	3.373E-05	0.089289	0.223346	0.189004	8.003553	7.4514123	16.13933
922	490786.72	3860935.12	1.24142	1.1074	0.33044	1.6436	0.535	1.32	1.1613	1.1074	12.9526898	2.045285489	3.44E-05	0.086575	0.250773	0.185658	8.228159	7.53015457	16.21902
923	490836.72	3860935.12	1.24523	1.13257	0.32931	1.58631	0.556	1.316	1.189	1.13257	12.9924425	2.091772609	3.428E-05	0.083557	0.260597	0.185194	8.424636	7.70130681	16.33693
924	490086.72	3860985.12	1.41999	0.91187	0.2352	2.0681	0.831	1.461	0.8183	0.91187	14.815848	1.684156113	2.449E-05	0.108935	0.389536	0.205486	5.798163	6.20057978	16.80157
925	490136.72	3860985.12	1.39033	0.9219	0.23647	2.01149	0.92	1.447	0.8272	0.9219	14.5063824	1.702680777	2.462E-05	0.105953	0.43126	0.203528	5.860798	6.26878228	16.54185
926	490186.72	3860985.12	1.38556	0.93761	0.21235	1.9794	0.896	1.445	0.851	0.93761	14.4566133	1.73169598	2.211E-05	0.104263	0.420034	0.203281	6.029713	6.37560793	16.57001
927	490236.72	3860985.12	1.38771	0.95192	0.19549	1.93065	0.828	1.439	0.8685	0.95192	14.479046	1.758125486	2.035E-05	0.101695	0.388364	0.202385	6.153494	6.47291379	16.61022
928	490286.72	3860985.12	1.3725	0.96192	0.21479	1.88884	0.735	1.43	0.8898	0.96192	14.3203483	1.776594743	2.236E-05	0.099493	0.344637	0.201172	6.304554	6.5409123	16.50591
929	490336.72	3860985.12	1.36919	0.99288	0.22096	1.8652	0.632	1.415	0.92	0.99288	14.2858125	1.833775561	2.3E-05	0.098248	0.296582	0.199029	6.518461	6.75143568	16.4805
930	490386.72	3860985.12	1.35672	1.00479	0.22993	1.85801	0.611	1.395	0.9285	1.00479	14.1557034	1.855772446	2.394E-05	0.097869	0.286481	0.196185	6.578545	6.8324219	16.33816
931	490436.72	3860985.12	1.34071	1.01359	0.25737	1.8725	0.599	1.383	0.9517	1.01359	13.9886588	1.872025392	2.679E-05	0.098632	0.280887	0.194562	6.742854	6.89226058	16.28539
932	490486.72	3860985.12	1.33583	1.01866	0.25352	1.85454	0.578	1.361	0.9765	1.01866	13.937742	1.881389305	2.639E-05	0.097686	0.271092	0.191454	6.918926	6.92673582	16.37158
933	490536.72	3860985.12	1.30399	1.02559	0.23877	1.8156	0.628	1.335	0.9844	1.02559	13.6055308	1.8941885	2.486E-05	0.095635	0.294369	0.187826	6.975042	6.97385879	16.07876
934	490586.72	3860985.12	1.29866	1.03657	0.29466	1.78769	0.674	1.317	0.9947	1.03657	13.5499188	1.914467744	3.068E-05	0.094165	0.316206	0.185211	7.047525	7.04852115	16.059
935	490636.72	3860985.12	1.29627	1.04662	0.30097	1.76305	0.694	1.316	1.0251	1.04662	13.5249821	1.933029347	3.133E-05	0.092867	0.325599	0.185194	7.26292	7.11685965	16.20776
936	490686.72	3860985.12	1.27434	1.05943	0.30369	1.69994	0.63	1.318	1.0617	1.05943	13.2961695	1.956688465	3.162E-05	0.089543	0.295424	0.185349	7.522598	7.20396573	16.14184
937	490736.72	3860985.12	1.24673	1.07059	0.31321	1.64548	0.514	1.301	1.0839	1.07059	13.0080932	1.977300155	3.261E-05	0.086674	0.240996	0.18298	7.67961	7.27985207	15.89583
938	490786.72	3860985.12	1.2217	1.08216	0.31952	1.60564	0.474	1.281	1.1165	1.08216	12.7469359	1.998669085	3.326E-05	0.084576	0.222174	0.18027	7.910734	7.35852634	15.78487
939	490836.72	3860985.12	1.20999	1.09568	0.32447	1.57442	0.532	1.27	1.1476	1.09568	12.6247565	2.023639521	3.378E-05	0.082931	0.249385	0.178724	8.131018	7.45046032	15.84003
940	490086.72	3861035.12	1.37277	0.87796	0.22873	2.02054	0.777	1.52	0.7942	0.87796	14.3231654	1.621526863	2.381E-05	0.10643	0.364341	0.213824	5.627335	5.96999684	16.28665

941	490136.72	3861035.12	1.35898	0.89416	0.23514	1.9822	0.852	1.471	0.804	0.89416
942	490186.72	3861035.12	1.35213	0.91773	0.23121	1.94781	0.89	1.441	0.8189	0.91773
943	490236.72	3861035.12	1.33822	0.93152	0.1918	1.91952	0.854	1.417	0.8362	0.93152
944	490286.72	3861035.12	1.3299	0.94362	0.20591	1.87346	0.788	1.387	0.854	0.94362
945	490336.72	3861035.12	1.31681	0.96052	0.21511	1.84004	0.675	1.352	0.8773	0.96052
946	490386.72	3861035.12	1.31527	0.98167	0.21754	1.83128	0.609	1.333	0.8969	0.98167
947	490436.72	3861035.12	1.30357	0.99609	0.23379	1.8217	0.587	1.326	0.9096	0.99609
948	490486.72	3861035.12	1.26342	1.01715	0.25547	1.83342	0.582	1.322	0.9335	1.01715
949	490536.72	3861035.12	1.23816	1.03082	0.23798	1.80069	0.575	1.311	0.9681	1.03082
950	490586.72	3861035.12	1.23917	1.04075	0.23804	1.75466	0.626	1.286	0.9979	1.04075
951	490636.72	3861035.12	1.24188	1.05146	0.29932	1.70462	0.672	1.302	1.0096	1.05146
952	490686.72	3861035.12	1.24535	1.06142	0.29373	1.64701	0.664	1.308	1.0385	1.06142
953	490736.72	3861035.12	1.23352	1.06847	0.30003	1.60904	0.581	1.307	1.0737	1.06847
954	490786.72	3861035.12	1.21126	1.0772	0.30885	1.60165	0.475	1.294	1.0927	1.0772
955	490836.72	3861035.12	1.18934	1.086	0.31508	1.56749	0.472	1.287	1.1081	1.086
956	490086.72	3861085.12	1.33128	0.86453	0.21899	1.99076	0.737	1.528	0.779	0.86453
957	490136.72	3861085.12	1.30655	0.87508	0.22535	1.95522	0.772	1.505	0.7904	0.87508
958	490186.72	3861085.12	1.28798	0.88737	0.23008	1.92622	0.874	1.481	0.8028	0.88737
959	490236.72	3861085.12	1.2901	0.89523	0.18235	1.89819	0.864	1.446	0.8143	0.89523
960	490286.72	3861085.12	1.29375	0.90392	0.19878	1.8618	0.815	1.41	0.8295	0.90392
961	490336.72	3861085.12	1.28892	0.91281	0.20782	1.81705	0.732	1.373	0.8479	0.91281
962	490386.72	3861085.12	1.27873	0.93731	0.2148	1.81549	0.624	1.356	0.8687	0.93731
963	490436.72	3861085.12	1.25624	0.97224	0.22128	1.78235	0.587	1.337	0.8884	0.97224
964	490486.72	3861085.12	1.254	0.98827	0.23955	1.76122	0.572	1.324	0.9063	0.98827
965	490536.72	3861085.12	1.2242	1.00487	0.23951	1.74929	0.565	1.316	0.9252	1.00487
966	490586.72	3861085.12	1.18931	1.0184	0.22908	1.69814	0.577	1.301	0.9499	1.0184
967	490636.72	3861085.12	1.17524	1.02775	0.25698	1.65305	0.624	1.286	0.9835	1.02775
968	490686.72	3861085.12	1.17635	1.04099	0.28718	1.6357	0.67	1.295	1.0018	1.04099
969	490736.72	3861085.12	1.17712	1.0538	0.28842	1.60018	0.638	1.295	1.0362	1.0538
970	490786.72	3861085.12	1.17077	1.06841	0.29652	1.56428	0.537	1.289	1.0735	1.06841
971	490836.72	3861085.12	1.15507	1.07724	0.30428	1.54558	0.441	1.264	1.097	1.07724
972	490086.72	3861135.12	1.27236	0.83924	0.20742	1.97967	0.7	1.486	0.7722	0.83924
973	490136.72	3861135.12	1.24716	0.85971	0.21284	1.92857	0.73	1.442	0.7838	0.85971
974	490186.72	3861135.12	1.24594	0.87077	0.22665	1.9066	0.782	1.409	0.7959	0.87077
975	490236.72	3861135.12	1.2262	0.88099	0.1856	1.8704	0.848	1.39	0.8069	0.88099
976	490286.72	3861135.12	1.23401	0.89014	0.19001	1.84405	0.837	1.373	0.8155	0.89014
977	490336.72	3861135.12	1.23747	0.89856	0.20396	1.80049	0.777	1.356	0.8241	0.89856
978	490386.72	3861135.12	1.24074	0.90899	0.21067	1.78667	0.675	1.341	0.844	0.90899
979	490436.72	3861135.12	1.24182	0.91908	0.21604	1.76605	0.586	1.323	0.8599	0.91908
980	490486.72	3861135.12	1.21913	0.93547	0.22691	1.72506	0.566	1.31	0.8663	0.93547
981	490536.72	3861135.12	1.19861	0.94879	0.23706	1.71342	0.555	1.29	0.8734	0.94879
982	490586.72	3861135.12	1.17195	0.9632	0.22942	1.66374	0.545	1.28	0.8815	0.9632
983	490636.72	3861135.12	1.15669	0.98803	0.22094	1.63583	0.579	1.266	0.9182	0.98803
984	490686.72	3861135.12	1.13733	1.01318	0.26526	1.61156	0.623	1.252	0.9603	1.01318
985	490736.72	3861135.12	1.12581	1.02283	0.27756	1.57799	0.665	1.245	0.9854	1.02283
986	490786.72	3861135.12	1.12756	1.03597	0.28488	1.54071	0.607	1.243	1.019	1.03597
987	490836.72	3861135.12	1.12679	1.04652	0.29301	1.51688	0.496	1.239	1.051	1.04652
988	490086.72	3861185.12	1.25324	0.82478	0.19694	1.96913	0.642	1.366	0.7598	0.82478
989	490136.72	3861185.12	1.22122	0.83294	0.20044	1.91313	0.692	1.326	0.7692	0.83294
990	490186.72	3861185.12	1.18071	0.85252	0.21685	1.88034	0.724	1.319	0.7803	0.85252
991	490236.72	3861185.12	1.16858	0.86264	0.19906	1.84791	0.801	1.297	0.7924	0.86264
992	490286.72	3861185.12	1.14666	0.87413	0.18297	1.81464	0.82	1.285	0.8043	0.87413
993	490336.72	3861185.12	1.15978	0.8799	0.21192	1.77856	0.8	1.268	0.8102	0.8799
994	490386.72	3861185.12	1.17498	0.88985	0.20344	1.75504	0.73	1.256	0.8205	0.88985
995	490436.72	3861185.12	1.18711	0.90161	0.21165	1.75036	0.622	1.248	0.8384	0.90161
996	490486.72	3861185.12	1.19689	0.91164	0.21837	1.70806	0.564	1.24	0.8585	0.91164
997	490536.72	3861185.12	1.1822	0.92608	0.23128	1.67798	0.539	1.24	0.8696	0.92608
998	490586.72	3861185.12	1.15641	0.94408	0.22428	1.64323	0.54	1.255	0.8751	0.94408
999	490636.72	3861185.12	1.11799	0.95023	0.21725	1.62086	0.529	1.256	0.8787	0.95023

14.1792838	1.651447059	2.448E-05	0.104411	0.399341	0.206904	5.696418	6.08015442	16.15767
14.1078124	1.694979097	2.407E-05	0.102599	0.417385	0.202762	5.802344	6.2404269	16.08748
13.9626787	1.720448202	1.997E-05	0.101109	0.400466	0.199376	5.924991	6.33419684	15.97489
13.8758697	1.742796003	2.144E-05	0.098683	0.369611	0.195055	6.050615	6.41647503	15.91618
13.7392917	1.774009047	2.239E-05	0.096922	0.316717	0.190165	6.215916	6.53139251	15.80165
13.7232237	1.813071525	2.265E-05	0.096461	0.28538	0.187567	6.354931	6.67520935	15.78545
13.6011486	1.839704193	2.434E-05	0.095956	0.275251	0.186502	6.44449	6.7732632	15.66981
13.1822328	1.878600448	2.66E-05	0.096574	0.272953	0.185997	6.614113	6.91646805	15.31403
12.9186758	1.903847921	2.478E-05	0.09485	0.269807	0.184465	6.859054	7.00942201	15.2213
12.9292139	1.922187893	2.478E-05	0.092425	0.293675	0.180964	7.070269	7.07694452	15.41181
12.9574894	1.941968467	3.116E-05	0.089789	0.315259	0.183126	7.153097	7.14977092	15.49099
12.9936946	1.960363847	3.058E-05	0.086755	0.311376	0.183972	7.357793	7.21749744	15.67649
12.8702631	1.973384673	3.123E-05	0.084755	0.272306	0.183835	7.607198	7.26543638	15.72634
12.6380074	1.989508334	3.215E-05	0.084365	0.222952	0.182019	7.742245	7.32479908	15.53433
12.4092991	2.00576128	3.28E-05	0.082566	0.221119	0.181005	7.851572	7.38463776	15.36672
13.8902684	1.596722651	2.28E-05	0.104861	0.345439	0.214982	5.519142	5.87867485	15.79276
13.6322412	1.616207717	2.346E-05	0.102989	0.362179	0.211772	5.600411	5.95041327	15.57541
13.4384861	1.638906434	2.395E-05	0.101462	0.409878	0.208391	5.688411	6.03398344	15.45158
13.4606057	1.65342327	1.898E-05	0.099985	0.405043	0.203471	5.76968	6.08743026	15.5048
13.498689	1.669473054	2.069E-05	0.098069	0.382118	0.19837	5.877448	6.14652097	15.57767
13.4482939	1.685892223	2.164E-05	0.095711	0.343282	0.193077	6.007748	6.20697164	15.56705
13.3419738	1.731141902	2.236E-05	0.095629	0.292526	0.190779	6.154982	6.37356798	15.43349
13.1073183	1.795655016	2.304E-05	0.093884	0.275054	0.188082	6.294918	6.61108676	15.14385
13.0839467	1.825261234	2.494E-05	0.092771	0.268255	0.186256	6.421108	6.72008836	15.15753
12.7730203	1.8559202	2.493E-05	0.092142	0.265132	0.185159	6.555659	6.83296588	14.89409
12.4089861	1.880909105	2.385E-05	0.089448	0.270712	0.183015	6.730668	6.92496786	14.63879
12.262183	1.89817786	2.675E-05	0.087073	0.292746	0.180937	6.96824	6.98854647	14.70084
12.2737645	1.922631156	2.99E-05	0.086159	0.314035	0.182151	7.098327	7.07857649	14.79852
12.2817985	1.946290273	3.003E-05	0.084288	0.299297	0.182129	7.34178	7.16568258	14.96993
12.215544	1.973273857	3.087E-05	0.082397	0.251585	0.181331	7.605781	7.26502839	15.04491
12.0517339	1.989582211	3.168E-05	0.081412	0.206667	0.177776	7.772428	7.32507107	14.95456
13.2755107	1.550013901	2.159E-05	0.104277	0.328197	0.209039	5.471032	5.70670663	15.23138
13.0125797	1.58782047	2.216E-05	0.101586	0.342452	0.202807	5.553577	5.84589957	14.95494
12.9998505	1.608247468	2.36E-05	0.100428	0.366746	0.198173	5.639168	5.92110592	14.99153
12.7938879	1.627123048	1.932E-05	0.098522	0.397498	0.195542	5.716965	5.99060039	14.83896
12.8753756	1.644022418	1.978E-05	0.097134	0.392326	0.19312	5.777757	6.05281902	14.92694
12.9114765	1.659573532	2.123E-05	0.094839	0.364463	0.190808	5.838833	6.11007377	14.94994
12.9455949	1.678836967	2.193E-05	0.094111	0.316502	0.18867	5.979832	6.18099621	15.02257
12.9568634	1.697472447	2.249E-05	0.093025	0.274796	0.18608	6.092914	6.2496067	15.05157
12.7201211	1.727743559	2.362E-05	0.090866	0.265207	0.184275	6.137977	6.36105625	14.76516
12.5060202	1.752344609	2.468E-05	0.090253	0.260475	0.181413	6.188283	6.45163026	14.52718
12.2278559	1.778958808	2.388E-05	0.087636	0.255556	0.180076	6.245675	6.54961611	14.22617
12.0686366	1.824817972	2.3E-05	0.086166	0.271289	0.178052	6.505707	6.7184564	14.21623
11.8666388	1.871268153	2.762E-05	0.084887	0.292048	0.176154	6.803789	6.88947264	14.20534
11.7464418	1.889090985	2.89E-05	0.083119	0.312061	0.175141	6.981844	6.9550912	14.23264
11.7647009	1.913359589	2.966E-05	0.081155	0.284784	0.174892	7.220266	7.04444124	14.39475
11.7566669	1.932844655	3.05E-05	0.0799	0.232753	0.174282	7.446431	7.11617966	14.50673
13.076017	1.523307356	2.05E-05	0.103722	0.300985	0.192167	5.383599	5.60838079	14.97144
12.7419277	1.538378269	2.087E-05	0.100772	0.324258	0.186588	5.450343	5.66386757	14.67842
12.3192557	1.574541074	2.258E-05	0.099045	0.339709	0.185481	5.52892	5.79700864	14.24996
12.1926941	1.593231962	2.072E-05	0.097337	0.37537	0.182452	5.61444	5.86582313	14.18972
11.9639859	1.614453138	1.905E-05	0.095584	0.384359	0.180699	5.698543	5.94395342	13.99369
12.1008769	1.625109899	2.206E-05	0.093684	0.375215	0.17833	5.740559	5.98318855	14.13061
12.2594702	1.643486809	2.118E-05	0.092445	0.342241	0.176672	5.813539	6.05084707	14.27703
12.3860318	1.665206655	2.203E-05	0.092199	0.291452	0.175517	5.940225	6.13081331	14.41984
12.4880741	1.68373132	2.273E-05	0.08997	0.264452	0.174486	6.082641	6.19901581	14.58436
12.334802	1.710400927	2.408E-05	0.088386	0.25271	0.174438	6.161642	6.29720565	14.4252
12.0657151	1.743645589	2.335E-05	0.086556	0.253357	0.176594	6.200045	6.41960297	14.10633
11.6648497	1.755004182	2.262E-05	0.085377	0.248161	0.176632	6.225552	6.46142205	13.69418

1000	490686.72	3861185.12	1.11111	0.96164	0.22897	1.59345	0.58	1.252	0.8901	0.96164
1001	490736.72	3861185.12	1.10744	0.97499	0.25159	1.57214	0.622	1.222	0.9195	0.97499
1002	490786.72	3861185.12	1.09398	0.98099	0.26796	1.5406	0.645	1.198	0.9437	0.98099
1003	490836.72	3861185.12	1.08215	0.99822	0.28223	1.50692	0.561	1.184	0.9871	0.99822
1004	490086.72	3861235.12	1.21817	0.81349	0.18809	1.94823	0.585	1.282	0.7448	0.81349
1005	490136.72	3861235.12	1.17945	0.82209	0.18911	1.90288	0.657	1.263	0.7553	0.82209
1006	490186.72	3861235.12	1.17595	0.83209	0.19907	1.85816	0.686	1.249	0.7666	0.83209
1007	490236.72	3861235.12	1.14886	0.84686	0.2142	1.83368	0.721	1.241	0.7764	0.84686
1008	490386.72	3861235.12	1.09587	0.87556	0.20338	1.73443	0.764	1.241	0.807	0.87556
1009	490436.72	3861235.12	1.10914	0.88515	0.20624	1.7193	0.671	1.24	0.8168	0.88515
1010	490486.72	3861235.12	1.12257	0.89566	0.21164	1.69349	0.573	1.235	0.8307	0.89566
1011	490536.72	3861235.12	1.13571	0.91012	0.21984	1.64956	0.544	1.226	0.8537	0.91012
1012	490586.72	3861235.12	1.13509	0.92442	0.22259	1.63377	0.519	1.218	0.868	0.92442
1013	490636.72	3861235.12	1.10678	0.93496	0.21209	1.60195	0.523	1.208	0.8758	0.93496
1014	490686.72	3861235.12	1.07536	0.94591	0.20902	1.58462	0.531	1.211	0.8902	0.94591
1015	490736.72	3861235.12	1.06557	0.96014	0.22776	1.56042	0.58	1.214	0.9047	0.96014
1016	490786.72	3861235.12	1.0628	0.97372	0.24068	1.53922	0.621	1.193	0.9208	0.97372
1017	490836.72	3861235.12	1.06495	0.97914	0.2593	1.50635	0.621	1.173	0.94	0.97914
1018	490086.72	3861285.12	1.21709	0.81579	0.18083	1.92953	0.533	1.248	0.7356	0.81579
1019	490136.72	3861285.12	1.17703	0.82312	0.17863	1.89899	0.603	1.262	0.7465	0.82312
1020	490186.72	3861285.12	1.14484	0.82888	0.18651	1.84944	0.651	1.253	0.7567	0.82888
1021	490236.72	3861285.12	1.11999	0.83495	0.20918	1.81567	0.681	1.252	0.7673	0.83495
1022	490386.72	3861285.12	1.0677	0.8674	0.20725	1.71151	0.765	1.244	0.7987	0.8674
1023	490436.72	3861285.12	1.05144	0.87884	0.19963	1.69765	0.727	1.22	0.8085	0.87884
1024	490486.72	3861285.12	1.05914	0.88675	0.20783	1.67512	0.619	1.191	0.8141	0.88675
1025	490536.72	3861285.12	1.06632	0.89708	0.21199	1.63169	0.542	1.174	0.8228	0.89708
1026	490586.72	3861285.12	1.07978	0.9086	0.22128	1.60111	0.519	1.164	0.842	0.9086
1027	490636.72	3861285.12	1.08341	0.91359	0.20726	1.58597	0.515	1.139	0.8497	0.91359
1028	490686.72	3861285.12	1.05372	0.92922	0.19839	1.57138	0.51	1.135	0.867	0.92922
1029	490736.72	3861285.12	1.0323	0.94792	0.20535	1.55446	0.534	1.14	0.8902	0.94792
1030	490786.72	3861285.12	1.01643	0.95867	0.21528	1.5275	0.579	1.159	0.9037	0.95867
1031	490836.72	3861285.12	1.01295	0.96749	0.23331	1.49165	0.616	1.178	0.9163	0.96749
1032	490061.24	3859716.13	2.41076	4.33605	4.02164	5.74562	1.376	3.222	4.1591	4.33605
1033	490111.24	3859716.13	2.42049	4.5311	3.40755	6.14522	1.312	3.338	4.672	4.5311
1034	490161.24	3859716.13	2.36906	4.90776	3.95865	6.3749	1.257	3.403	5.0406	4.90776
1035	490211.24	3859716.13	2.34272	5.32449	4.39894	6.44867	1.208	3.514	5.4293	5.32449
1036	490061.24	3859766.13	2.32013	3.76619	3.02193	5.0018	1.237	2.868	3.5484	3.76619
1037	490111.24	3859766.13	2.30214	3.94646	3.26988	5.41277	1.318	2.983	3.7907	3.94646
1038	490161.24	3859766.13	2.32185	4.07897	2.69516	5.60771	1.274	3.08	3.9836	4.07897
1039	490211.24	3859766.13	2.27253	4.29843	2.95097	5.74425	1.234	3.16	4.3279	4.29843
1040	490061.24	3859816.13	2.31695	3.21875	2.75507	4.56079	1.039	2.642	3.1362	3.21875
1041	490111.24	3859816.13	2.27552	3.37669	2.48296	4.85471	1.182	2.705	3.2429	3.37669
1042	490161.24	3859816.13	2.25817	3.57873	2.71185	5.12534	1.264	2.774	3.4265	3.57873
1043	490211.24	3859816.13	2.21245	3.69783	2.16591	5.14198	1.253	2.847	3.5542	3.69783
1044	490061.24	3859866.13	2.28814	2.79362	2.5064	4.30442	1.082	2.417	2.765	2.79362
1045	490111.24	3859866.13	2.2417	2.94257	2.26883	4.37051	0.998	2.432	2.8677	2.94257
1046	490161.24	3859866.13	2.20314	3.06935	2.10841	4.49756	1.131	2.532	2.9847	3.06935
1047	490211.24	3859866.13	2.14582	3.17351	2.3116	4.72767	1.22	2.631	3.1101	3.17351
1048	490061.24	3859916.13	2.29615	2.53581	1.86694	3.91459	1.064	2.353	2.5447	2.53581
1049	490111.24	3859916.13	2.22182	2.61655	2.40393	4.13555	0.992	2.33	2.6324	2.61655
1050	490161.24	3859916.13	2.16349	2.74954	1.8795	4.30034	0.96	2.318	2.7032	2.74954
1051	490211.24	3859916.13	2.1306	2.86841	1.83569	4.41691	1.083	2.367	2.8054	2.86841
1052	490229.25	3859815.26	2.19384	3.76332	2.20258	5.12865	1.24	2.896	3.6175	3.76332
1053	490279.25	3859815.26	2.15402	3.9202	2.45518	5.16091	1.195	3.002	3.9685	3.9202
1054	490329.25	3859815.26	2.12162	4.05714	2.87733	5.07875	1.006	3.065	4.0954	4.05714
1055	490379.25	3859815.26	2.11533	4.39685	3.00005	5.36012	0.882	3.188	4.3862	4.39685
1056	490429.25	3859815.26	2.10269	4.89009	3.14602	6.00054	0.931	3.46	4.7994	4.89009
1057	490229.25	3859865.26	2.13719	3.21597	2.25799	4.75359	1.265	2.678	3.1572	3.21597
1058	490279.25	3859865.26	2.09701	3.37613	1.81996	4.84064	1.219	2.705	3.2462	3.37613

11.5930654	1.776077603	2.384E-05	0.083934	0.271968	0.176129	6.306609	6.53900834	13.6688
11.5547734	1.800734061	2.619E-05	0.082811	0.291574	0.1719	6.515131	6.62978635	13.78716
11.4143349	1.811815615	2.79E-05	0.08115	0.302519	0.168492	6.686242	6.67058545	13.794
11.2909034	1.843638145	2.938E-05	0.079376	0.263153	0.16655	6.993605	6.78774688	13.84951
12.7101047	1.502455565	1.958E-05	0.102621	0.274318	0.180353	5.277106	5.53161047	14.51537
12.3061092	1.518339126	1.969E-05	0.100232	0.308239	0.177619	5.351715	5.59008919	14.17218
12.269591	1.536808383	2.072E-05	0.097877	0.321604	0.175648	5.431779	5.6580877	14.17524
11.9869402	1.564087475	2.23E-05	0.096587	0.338095	0.174535	5.500862	5.75852149	13.90261
11.4340547	1.617094242	2.117E-05	0.091359	0.3581	0.174642	5.717532	5.9536772	13.43913
11.5725108	1.634806259	2.147E-05	0.090563	0.31479	0.174482	5.78711	6.01888777	13.5554
11.7126364	1.654217448	2.203E-05	0.089203	0.268555	0.173778	5.885809	6.0903542	13.69387
11.8497361	1.680923993	2.289E-05	0.086889	0.255266	0.17247	6.049056	6.18868004	13.90568
11.8432672	1.70733503	2.317E-05	0.086057	0.243505	0.171392	6.149739	6.2859179	13.9154
11.5478871	1.726801627	2.208E-05	0.084381	0.24539	0.169962	6.20543	6.35758833	13.62229
11.2200581	1.747025463	2.176E-05	0.083468	0.249029	0.170405	6.307105	6.43204669	13.34507
11.1179115	1.773307215	2.371E-05	0.082194	0.271954	0.170796	6.410409	6.52880857	13.29779
11.08901	1.798388466	2.506E-05	0.081077	0.291138	0.167816	6.524129	6.62115054	13.33043
11.1114426	1.808398803	2.699E-05	0.079346	0.291316	0.165082	6.659885	6.65800573	13.45749
12.6988362	1.506703494	1.883E-05	0.101636	0.250023	0.17551	5.21185	5.54725013	14.39733
12.2808594	1.520241459	1.86E-05	0.100028	0.282894	0.177551	5.28908	5.59709304	14.05358
11.9449964	1.530879751	1.942E-05	0.097418	0.305238	0.176251	5.361563	5.63626018	13.78011
11.6857172	1.54209059	2.178E-05	0.095639	0.319503	0.176118	5.436668	5.67753527	13.57822
11.1401354	1.602023328	2.158E-05	0.090152	0.358864	0.175057	5.65929	5.89819042	13.12735
10.9704824	1.623152158	2.078E-05	0.089422	0.340843	0.17164	5.728231	5.97598071	12.94781
11.0508224	1.63776134	2.164E-05	0.088235	0.29028	0.167504	5.768192	6.02976753	12.97305
11.1257368	1.656840082	2.207E-05	0.085948	0.254361	0.165173	5.829693	6.10000999	13.01776
11.2661754	1.678116666	2.304E-05	0.084337	0.243257	0.16373	5.965945	6.17834427	13.22324
11.30405	1.687332825	2.158E-05	0.08354	0.241461	0.160224	6.020573	6.21227552	13.28493
10.9942714	1.716200273	2.065E-05	0.082771	0.239135	0.159675	6.142795	6.31855719	13.01631
10.77078	1.750737783	2.138E-05	0.08188	0.250206	0.160342	6.307388	6.44571439	12.87564
10.6051961	1.770592234	2.241E-05	0.08046	0.271532	0.162995	6.402757	6.51881279	12.77474
10.5688866	1.786882119	2.429E-05	0.078571	0.288695	0.165775	6.492245	6.57878747	12.80229
25.1533136	8.008362061	0.0004187	0.302645	0.645397	0.453287	29.46894	29.4844922	34.54787
25.2548342	8.368604914	0.0003547	0.323694	0.615067	0.469629	33.10252	30.8108031	37.3239
24.7182254	9.064267937	0.0004121	0.335792	0.589535	0.478763	35.71447	33.3720348	37.52943
24.4433999	9.833937273	0.000458	0.339678	0.566304	0.494336	38.4682	36.2057366	37.94057
24.2077011	6.955872998	0.0003146	0.263465	0.579898	0.403427	25.14134	25.6095294	31.94249
24.0199976	7.288818288	0.0003404	0.285113	0.61789	0.419692	26.85876	26.8353384	32.65527
24.2256472	7.533554409	0.0002806	0.295381	0.597605	0.433277	28.22503	27.7363867	33.57439
23.7110537	7.938880717	0.0003072	0.302573	0.578693	0.444472	30.66466	29.2286819	34.41196
24.1745217	5.944792008	0.0002868	0.240235	0.487146	0.371653	22.22083	21.8870192	31.55244
23.7422506	6.236495448	0.0002585	0.255717	0.554028	0.380512	22.97697	22.9609876	31.18525
23.5612247	6.609648311	0.0002823	0.269973	0.5927	0.390282	24.27806	24.3348294	31.36734
23.0841928	6.829617159	0.0002255	0.270849	0.587551	0.400522	25.18258	25.1446916	31.21084
23.8739248	5.159608497	0.0002609	0.226731	0.50731	0.340048	19.59088	18.9961987	30.70257
23.3893806	5.434708075	0.0002362	0.230213	0.468024	0.34213	20.31855	20.0090364	30.1742
22.9870544	5.668861312	0.0002195	0.236905	0.530324	0.356209	21.14768	20.8711215	30.05613
22.3889908	5.86123709	0.0002407	0.249026	0.572302	0.370079	22.03604	21.5793939	29.89852
23.9574993	4.683452589	0.0001944	0.206197	0.499141	0.330996	18.02998	17.2431292	30.46433
23.1819572	4.832573368	0.0002503	0.217836	0.465379	0.327742	18.65129	17.7921491	29.88488
22.5733555	5.078196013	0.0001957	0.226516	0.450275	0.32614	19.15301	18.6964613	29.11122
22.2301888	5.297740068	0.0001911	0.232657	0.507807	0.332984	19.87706	19.5047595	28.97387
22.8900204	6.950572321	0.0002293	0.270147	0.581352	0.40745	25.63122	25.5900138	31.14098
22.4745477	7.24031802	0.0002556	0.271846	0.560133	0.422326	28.11811	26.6567744	32.43076
22.1364936	7.493236022	0.0002995	0.267518	0.471498	0.431223	29.01717	27.5879459	32.2295
22.0708651	8.120655142	0.0003123	0.282339	0.413423	0.448457	31.07746	29.8979232	32.51558
21.9389823	9.031632761	0.0003275	0.316073	0.436676	0.486686	34.00555	33.2518815	32.96405
22.2989473	5.939657554	0.0002351	0.250391	0.5933	0.37671	22.36955	21.8681156	29.96067
21.8797185	6.23546117	0.0001895	0.254976	0.571641	0.380576	23.00036	22.9571796	29.36574

1059	490329.25	3859865.26	2.05373	3.572	2.06347	4.86628	1.153	2.785	3.5277	3.572	21.428145	6.597218501	0.0002148	0.256327	0.540711	0.39183	24.99481	24.2890664	29.92019
1060	490379.25	3859865.26	2.05142	3.77542	2.08949	4.91311	0.941	2.858	3.779	3.77542	21.404043	6.972920122	0.0002175	0.258794	0.441215	0.402085	26.77551	25.672292	30.58249
1061	490429.25	3859865.26	2.04858	3.99438	2.49375	5.08836	0.82	2.997	3.9884	3.99438	21.374411	7.377322967	0.0002596	0.268025	0.384443	0.421639	28.25911	27.1611873	30.92402
1062	490229.25	3859915.26	2.12222	2.89889	1.86876	4.44089	1.11	2.401	2.8402	2.89889	22.1427538	5.354034362	0.0001945	0.23392	0.520266	0.337788	20.12356	19.7120189	29.0005
1063	490279.25	3859915.26	2.09075	2.96677	1.98762	4.45664	1.222	2.528	2.9337	2.96677	21.8144031	5.479403677	0.0002069	0.234749	0.572832	0.355641	20.78604	20.1735928	29.06968
1064	490329.25	3859915.26	2.04842	3.09425	1.55346	4.45612	1.199	2.6	3.0054	3.09425	21.3727416	5.714849761	0.0001617	0.234722	0.562014	0.365824	21.29406	21.0404378	28.50394
1065	490379.25	3859915.26	2.00603	3.25164	1.76688	4.53602	1.083	2.628	3.1371	3.25164	20.9304542	6.005537393	0.0001839	0.238931	0.507933	0.36963	22.22763	22.1106662	28.16963
1066	490429.25	3859915.26	1.96863	3.48716	1.7343	4.52004	0.88	2.739	3.4931	3.48716	20.5402312	6.440525327	0.0001806	0.238089	0.412588	0.385276	24.74952	23.7121671	29.05424
1067	490451.43	3859872.59	2.03675	3.97905	2.43234	5.107	0.82	3.017	4.0118	3.97905	21.2509796	7.349009596	0.0002532	0.269007	0.384523	0.424412	28.42533	27.0569456	31.04657
1068	490501.43	3859872.59	2.00174	4.29684	2.61153	5.47512	0.906	3.264	4.3619	4.29684	20.8856933	7.935944106	0.0002719	0.288397	0.424803	0.45923	30.90592	29.2178701	31.68239
1069	490551.43	3859872.59	1.98144	4.81564	2.50026	5.96325	0.893	3.635	4.8013	4.81564	20.6738878	8.894129144	0.0002603	0.314109	0.418721	0.511342	34.0188	32.7456326	32.08562
1070	490601.43	3859872.59	1.968	5.68008	2.78341	6.60385	0.898	4.052	5.5389	5.68008	20.5336579	10.49068557	0.0002898	0.347852	0.420949	0.570087	39.24525	38.6236955	32.98507
1071	490451.43	3859922.59	1.95419	3.51743	1.67198	4.50864	0.825	2.725	3.5087	3.51743	20.3895676	6.496431767	0.0001741	0.237488	0.386779	0.38336	24.86012	23.9179985	28.83592
1072	490501.43	3859922.59	1.95254	3.6675	2.03356	4.62153	0.78	2.896	3.6926	3.6675	20.3723518	6.773599903	0.0002117	0.243435	0.36571	0.40738	26.16369	24.9384521	29.38792
1073	490551.43	3859922.59	1.93726	3.90454	2.20378	5.11479	0.87	3.155	4.0442	3.90454	20.2129239	7.211395164	0.0002294	0.269417	0.407857	0.4438	28.65433	26.5502887	30.64967
1074	490601.43	3859922.59	1.89491	4.27506	2.28653	5.54645	0.866	3.533	4.4155	4.27506	19.7710537	7.895718064	0.000238	0.292154	0.406154	0.496939	31.28513	29.0697694	31.07761
1075	482129.67	3852241.07	0.56032	3.11145	0.10093	0.14859	0.171	0.205	3.1383	3.11145	5.8462496	5.746616883	1.051E-05	0.007827	0.080077	0.028768	22.23563	21.1573952	12.78779
1076	482029.67	3852291.07	0.65863	4.44747	0.09633	0.1517	0.179	0.184	4.4834	4.44747	6.87199345	8.21414652	1.003E-05	0.007991	0.083829	0.025945	31.76615	30.2421316	16.72793
1077	482079.67	3852291.07	0.62769	3.91666	0.09729	0.1528	0.175	0.198	3.9449	3.91666	6.54917263	7.233779903	1.013E-05	0.008049	0.082234	0.027906	27.95118	26.6327029	15.21963
1078	482129.67	3852291.07	0.58699	3.4264	0.10144	0.15114	0.173	0.21	3.4694	3.4264	6.12451822	6.328306123	1.056E-05	0.007961	0.081029	0.029522	24.58188	23.2990081	13.85422
1079	482179.67	3852291.07	0.55755	2.99886	0.1023	0.15171	0.173	0.208	2.986	2.99886	5.81734806	5.538671521	1.065E-05	0.007991	0.080987	0.029221	21.15653	20.3918	12.23896
1080	482229.67	3852291.07	0.52858	2.51607	0.10203	0.15132	0.168	0.201	2.5334	2.51607	5.51508176	4.646994276	1.062E-05	0.007971	0.078919	0.028298	17.95027	17.1089001	11.11864
1081	482029.67	3852341.07	0.7328	5.04246	0.09796	0.15831	0.184	0.186	5.075	5.04246	7.64586612	9.313048825	1.02E-05	0.008339	0.086333	0.026205	35.95821	34.2879747	18.75003
1082	482079.67	3852341.07	0.6735	4.38038	0.09858	0.15431	0.182	0.196	4.4586	4.38038	7.0271436	8.090236276	1.026E-05	0.008128	0.085423	0.027587	31.59065	29.7859296	17.04325
1083	482129.67	3852341.07	0.62624	3.93269	0.10379	0.15471	0.178	0.211	3.9327	3.93269	6.53404367	7.263386122	1.081E-05	0.008149	0.083341	0.029691	27.86488	26.7417045	15.0418
1084	482179.67	3852341.07	0.58277	3.38542	0.10369	0.15462	0.177	0.217	3.3934	3.38542	6.08048772	6.252619109	1.079E-05	0.008144	0.082778	0.030518	24.04311	23.0203503	13.47732
1085	482259.06	3852400.14	0.5656	3.51511	0.10904	0.15953	0.179	0.218	3.4702	3.51511	5.9013399	6.4921469	1.135E-05	0.008403	0.083702	0.030656	24.58776	23.9022229	13.2018
1086	482309.06	3852400.14	0.55536	2.82395	0.12117	0.15909	0.177	0.214	2.8222	2.82395	5.7944981	5.215625752	1.261E-05	0.00838	0.083135	0.030088	19.99609	19.2024381	11.92539
1087	482209.06	3852450.14	0.65007	4.1739	0.11019	0.16142	0.188	0.235	4.1943	4.1739	6.78268039	7.708883063	1.147E-05	0.008503	0.087993	0.033052	29.71834	28.3818965	15.95757
1088	482259.06	3852450.14	0.60533	3.83799	0.11098	0.16262	0.182	0.228	3.8287	3.83799	6.31587355	7.088482261	1.155E-05	0.008566	0.085339	0.032143	27.12765	26.0977587	14.56031
1089	482309.06	3852450.14	0.57049	3.30786	0.11895	0.16371	0.181	0.222	3.284	3.30786	5.95236103	6.109371554	1.238E-05	0.008623	0.084767	0.031251	23.2684	22.4929538	12.96183
1090	482209.06	3852500.14	0.71765	4.6225	0.11269	0.16758	0.193	0.237	4.677	4.6225	7.48779451	8.53741392	1.173E-05	0.008827	0.090675	0.033333	33.13795	31.4323095	17.86369
1091	482259.06	3852500.14	0.65167	4.15967	0.11191	0.1657	0.191	0.24	4.1886	4.15967	6.79937442	7.682601311	1.165E-05	0.008728	0.089639	0.033807	29.67781	28.2851346	16.00684
1092	482309.06	3852500.14	0.60398	3.77689	0.11562	0.16598	0.185	0.232	3.7752	3.77689	6.30178796	6.975635102	1.204E-05	0.008743	0.086881	0.032626	26.74837	25.6822878	14.47177
1093	482283.91	3852513.62	0.63568	4.06498	0.11281	0.16688	0.191	0.24	4.0943	4.06498	6.63253845	7.507715919	1.174E-05	0.00879	0.089671	0.0337	29.00945	27.6412567	15.64062
1094	482333.91	3852513.62	0.59506	3.69757	0.12351	0.16736	0.185	0.235	3.6981	3.69757	6.20871874	6.829136958	1.286E-05	0.008816	0.086773	0.033059	26.20266	25.1429236	14.22625
1095	482283.91	3852563.62	0.70565	4.48146	0.11527	0.17091	0.198	0.251	4.4746	4.48146	7.36258928	8.276923523	1.2E-05	0.009003	0.092677	0.035367	31.70408	30.4732585	17.0074
1096	482333.91	3852563.62	0.63479	4.06411	0.12151	0.17217	0.195	0.247	4.0776	4.06411	6.62325239	7.506109094	1.265E-05	0.009069	0.091219	0.034803	28.89105	27.6353409	15.52018
1097	482383.91	3852563.62	0.60795	3.70154	0.13354	0.17234	0.189	0.239	3.7303	3.70154	6.34321003	6.836469253	1.39E-05	0.009078	0.088551	0.033564	26.43045	25.169919	14.57142
1098	482283.91	3852613.62	0.78861	5.21117	0.11728	0.17992	0.203	0.254	5.1884	5.21117	8.22817478	9.624643655	1.221E-05	0.009477	0.09528	0.035712	36.76147	35.4351775	19.3196
1099	482333.91	3852613.62	0.70336	4.49379	0.12156	0.17803	0.202	0.258	4.5049	4.49379	7.33869595	8.299696117	1.266E-05	0.009378	0.094581	0.036327	31.91905	30.5571007	17.14064
1100	482383.91	3852613.62	0.64578	4.05748	0.1333	0.17788	0.198	0.251	4.0874	4.05748	6.73791952	7.493863977	1.388E-05	0.00937	0.092677	0.035269	28.96099	27.5902579	15.73984
1101	482602.38	3852600.87	0.55011	2.22211	0.16259	0.17422	0.18	0.226	2.2586	2.22211	5.73972081	4.104072006	1.693E-05	0.009177	0.084232	0.031738	16.00328	15.110016	10.86222
1102	482652.38	3852600.87	0.52278	2.00081	0.17461	0.1814	0.177	0.23	2.0692	2.00081	5.4545659	3.695347354	1.818E-05	0.009555	0.082769	0.032417	14.66117	13.6052091	10.33063
1103	482702.38	3852600.87	0.50936	1.67388	0.17941	0.1783	0.173	0.233	1.8026	1.67388	5.31454471	3.091531944	1.868E-05	0.009392	0.081325	0.032737	12.77214	11.3821339	9.919557
1104	482552.38	3852650.87	0.5895	2.90408	0.16162	0.18405	0.189	0.231	2.9195	2.90408	6.15070698	5.363619906	1.683E-05	0.009695	0.088776	0.032467	20.68564	19.7473102	12.58361
1105	482602.38	3852650.87	0.57232	2.52252	0.16288	0.18263	0.19	0.229	2.5361	2.52252	5.97145483	4.658906947	1.696E-05	0.00962	0.089127	0.032256	17.96911	17.1527592	11.57774
1106	482652.38	3852650.87	0.55015	2.31688	0.17589	0.17973	0.182	0.233	2.3316	2.31688	5.74013816	4.279105152	1.831E-05	0.009467	0.085418	0.032828	16.52037	15.7544379	10.91291
1107	482702.38	3852650.87	0.53411	2.11358	0.18366	0.18643	0.179	0.242	2.1885	2.11358	5.5727805	3.903625162	1.912E-05	0.00982	0.083847	0.034046	15.50603	14.3720283	10.73814
1108	482552.38	3852700.87	0.61891	3.37494	0.16452	0.1883	0.197	0.24	3.3271	3.37494	6.45756414	6.233263328	1.713E-05	0.009919	0.092293	0.033824	23.57385	22.9490878	13.45164
1109	482602.38	3852700.87	0.58899	3.04952	0.16422	0.19006	0.192	0.236	3.0269	3.04952	6.14538576	5.632236776	1.71E-05	0.010011	0.089901	0.033239	21.44632	20.7362804	12.62083
1110	482652.38	3852700.87	0.57142	2.89912	0.17718	0.18897	0.193	0.235	2.8736	2.89912	5.96206443	5.354459155	1.845E-05	0.009954	0.090586	0.033008	20.36035	19.7135829	12.09686
1111	482702.38	3852700.87	0.55933	2.4878	0.18761	0.19477	0.186	0.248	2.5426	2.4878	5.83592016	4.594781687	1.953E-05	0.010259	0.08728	0.034852	18.01552	16.9166684	11.66197
1112	482452.38	3852750.87	0.74271	4.72784	0.15179	0.20158	0.21	0.267	4.7548	4.72784	7.74926477	8.73196907	1.58E-05	0.010618	0.098267	0.037534	33.6894	32.1486057	18.16847
1113	482521.29	3852749.74	0.689	4.00234	0.16919	0.19489	0.207	0.256	3.9317	4.00234	7.18886703	7.392024495	1.761E-05	0.010266	0.097296	0.035986	27.85716	27.2153141	15.3663
1114	482571.29	3852749.74	0.63691	3.59474	0.16791	0.19324	0.204	0.248	3.5416	3.59474	6.64537198	6.639217591	1.748E-05	0.010179	0.09581	0.034862	25.09337	24.443695	14.07513
1115	482521.29	3852799.74	0.74209	4.53543	0.17373	0.2128	0.213	0.266	4.4979	4.53543	7.74279584	8.376602102	1.809E-05	0.011209	0.099655	0.037396	31.86917	30.8402465	17.2966
1116	482571.29	3852799.74	0.69013	4.01052	0.17401	0.20176	0.212	0.259	3.9456	4.01052	7.20065718	7.407132347	1.812E-05	0.010628	0.099181	0.036417	27.95628	27.2709369	15.43938
1117	482621.29	3852799.74	0.63716	3.6216	0.17092	0.19952	0.208	0.252	3.5803	3.6216	6.64798043	6.688826015	1.779E-05	0.01051	0.097446	0.035391	25.36786	24.626339	14.22169

1118	482571.29	3852849.74	0.74218	4.51536	0.18211	0.22242	0.215	0.27	4.4859	4.51536	7.74373487	8.339534303	1.896E-05	0.011716	0.100982	0.037975	31.7845	30.7037735	17.31469
1119	482621.29	3852849.74	0.70002	4.0191	0.17464	0.20915	0.215	0.264	3.988	4.0191	7.30384716	7.422978969	1.818E-05	0.011017	0.100986	0.037145	28.25649	27.3292796	15.8032
1120	482577.42	3852901.55	0.82366	4.97831	0.1905	0.2303	0.224	0.279	5.0105	4.97831	8.59387839	9.194568543	1.983E-05	0.012131	0.105216	0.039187	35.50134	33.8517643	19.59458
1121	482627.42	3852901.55	0.74875	4.44718	0.18121	0.23028	0.22	0.274	4.4375	4.44718	7.81228474	8.213610911	1.887E-05	0.01213	0.10297	0.03857	31.44129	30.2401596	17.38071
1122	482629.96	3852955.85	0.83675	4.98572	0.19113	0.24285	0.228	0.284	5.0039	4.98572	8.73045643	9.208254263	1.99E-05	0.012792	0.106871	0.03996	35.45458	33.9021512	19.65078
1123	482679.96	3852955.85	0.76967	4.36069	0.18653	0.24047	0.224	0.295	4.4148	4.36069	8.03055919	8.05387031	1.942E-05	0.012667	0.104996	0.041533	31.28017	29.6520406	17.87177
1124	482781.63	3853034.48	0.79553	3.74433	0.2167	0.24659	0.235	0.323	3.7942	3.74433	8.30037647	6.915499202	2.256E-05	0.012989	0.109976	0.045497	26.88299	25.4608846	16.80647
1125	482831.63	3853034.48	0.72966	3.25603	0.21712	0.2582	0.229	0.305	3.3051	3.25603	7.61310408	6.013645397	2.26E-05	0.0136	0.107392	0.042867	23.41747	22.1405176	15.06759
1126	482881.63	3853034.48	0.69855	2.76528	0.21659	0.25761	0.226	0.293	2.802	2.76528	7.28850952	5.107266623	2.255E-05	0.013569	0.105882	0.041163	19.85318	18.8034909	13.6061
1127	482781.63	3853084.48	0.89136	3.88434	0.22258	0.26935	0.239	0.329	3.9674	3.88434	9.30024457	7.174087266	2.317E-05	0.014188	0.11209	0.046317	28.11074	26.4129317	18.34476
1128	482831.63	3853084.48	0.80827	3.45637	0.22135	0.27332	0.24	0.319	3.5453	3.45637	8.43330269	6.383658486	2.304E-05	0.014397	0.112508	0.04487	25.1198	23.5027997	16.60576
1129	482881.63	3853084.48	0.72596	3.08631	0.22077	0.26512	0.233	0.315	3.1375	3.08631	7.57449914	5.700185172	2.298E-05	0.013965	0.109418	0.044248	22.23039	20.9864469	14.68628
1130	482781.63	3853134.48	0.95481	4.13635	0.22847	0.28012	0.244	0.339	4.2778	4.13635	9.96226723	7.639531004	2.379E-05	0.014755	0.114609	0.047667	30.30969	28.1265621	19.96198
1131	482831.63	3853134.48	0.86891	3.65794	0.2263	0.27967	0.242	0.327	3.7313	3.65794	9.06600645	6.755943294	2.356E-05	0.014731	0.113493	0.046068	26.43739	24.8734455	17.56021
1132	482881.63	3853134.48	0.79807	3.248	0.22525	0.27989	0.244	0.335	3.273	3.248	8.32687824	5.998814583	2.345E-05	0.014743	0.11459	0.047077	23.19039	22.0859148	15.6066
1133	482831.63	3853184.48	0.92919	3.8221	0.23143	0.28877	0.25	0.342	3.9193	3.8221	9.69495407	7.059134612	2.409E-05	0.015211	0.11722	0.048065	27.76937	25.989709	18.71427
1134	482881.63	3853184.48	0.84659	3.44217	0.23044	0.29911	0.244	0.354	3.5079	3.44217	8.83312472	6.357432141	2.399E-05	0.015755	0.114562	0.04977	24.85445	23.4062418	16.81888
1135	484154.84	3854250.98	2.29051	0.57551	0.82638	2.75605	0.358	1.771	1.4783	0.57551	23.8986528	1.062924194	8.603E-05	0.145172	0.167742	0.249175	10.47457	3.91338203	32.08494
1136	484204.84	3854250.98	2.28278	0.57178	0.76176	2.60899	0.352	1.675	1.4464	0.57178	23.8179998	1.056035161	7.93E-05	0.137426	0.165181	0.235621	10.24798	3.88801858	31.77231
1137	484154.84	3854300.98	2.54631	0.53786	0.88092	2.87608	0.378	1.757	1.5351	0.53786	26.567611	0.993387442	9.171E-05	0.151495	0.177341	0.247174	10.87638	3.65736765	35.35612
1138	484204.84	3854300.98	2.50895	0.54205	0.83773	2.80157	0.37	1.729	1.4874	0.54205	26.1778054	1.001126061	8.721E-05	0.14757	0.173308	0.243233	10.53905	3.68585902	34.59632
1139	484074.19	3854519.8	3.54769	0.50082	2.18035	7.37702	0.44	3.363	2.669	0.50082	37.0157789	0.924977315	0.000227	0.388578	0.206249	0.473077	18.91083	3.40550118	54.51421
1140	484124.19	3854519.8	3.55767	0.50026	2.04707	5.94743	0.428	2.809	2.3468	0.50026	37.1199079	0.923943037	0.0002131	0.313275	0.200543	0.395102	16.62764	3.40169327	52.17893
1141	484074.19	3854569.8	3.86074	0.53002	2.70983	10.51007	0.453	4.012	3.3227	0.53002	40.2820704	0.978907545	0.0002821	0.553608	0.212266	0.564446	23.54253	3.60405682	62.53005
1142	484124.19	3854569.8	3.84132	0.47838	2.7999	7.82198	0.451	3.194	2.7266	0.47838	40.0794466	0.883532303	0.0002915	0.412016	0.211257	0.449363	19.3188	3.25291254	58.1018
1143	485205.11	3855188.89	4.41506	0.60724	2.24189	7.88006	0.611	3.63	3.2544	0.60724	46.0657173	1.121527145	0.0002334	0.415075	0.286491	0.51069	23.05839	4.12914129	67.32898
1144	485255.11	3855188.89	4.35125	0.58179	2.13456	6.6421	0.578	3.305	2.8507	0.58179	45.3999385	1.074522887	0.0002222	0.349866	0.270932	0.464998	20.19852	3.95608509	63.80292
1145	485205.11	3855238.89	4.61297	0.6059	2.41843	9.06021	0.603	3.775	3.3624	0.6059	48.1306646	1.119052265	0.0002518	0.477238	0.282805	0.531103	23.82396	4.12002949	70.24504
1146	485255.11	3855238.89	4.47491	0.60292	2.3384	7.57685	0.621	3.458	3.1313	0.60292	46.6901784	1.113548426	0.0002434	0.399104	0.291086	0.486408	22.18667	4.09976593	67.06748
1147	485205.11	3855288.89	4.74764	0.65086	2.55409	12.90912	0.688	4.845	3.984	0.65086	49.5357803	1.202090043	0.0002659	0.679976	0.322382	0.681571	28.22801	4.42575077	76.22432
1148	485255.11	3855288.89	4.59403	0.6426	2.48553	10.20991	0.625	4.205	3.4692	0.6426	47.933049	1.186834437	0.0002588	0.537798	0.29315	0.591565	24.58046	4.369584	70.75353
1149	485255.11	3855338.89	4.78001	0.67647	2.84422	13.86022	0.726	4.933	4.0733	0.67647	49.8735214	1.24938981	0.0002961	0.730074	0.340524	0.693906	28.86094	4.59989494	77.14876
1150	485305.11	3855338.89	4.61765	0.65906	2.81092	10.85538	0.681	4.255	3.571	0.65906	48.1794947	1.217234834	0.0002926	0.571797	0.319545	0.598561	25.30197	4.48150954	71.70738
1151	485852.5	3855635.28	4.13065	0.68386	3.83171	6.05754	0.846	2.963	2.3887	0.68386	43.098249	1.26303859	0.0003989	0.319075	0.39649	0.416879	16.92459	4.65014584	57.76857
1152	485902.5	3855635.28	4.07204	0.65609	3.83339	5.37359	0.845	2.69	2.1676	0.65609	42.4867258	1.211749464	0.0003991	0.283049	0.396091	0.378433	15.35844	4.46131399	55.65357
1153	485852.5	3855685.28	4.3087	0.69825	4.08183	6.93168	0.869	3.148	2.5408	0.69825	44.9559816	1.289615851	0.0004249	0.36512	0.407538	0.442814	18.00234	4.74799569	60.71584
1154	485902.5	3855685.28	4.21702	0.67567	3.94043	5.88644	0.887	2.809	2.2738	0.67567	43.9994137	1.247912269	0.0004102	0.310063	0.41611	0.395176	16.11076	4.59445506	57.88539
1155	485852.5	3855735.28	4.50969	0.70739	4.66035	8.16899	0.997	3.409	2.6739	0.70739	47.0530649	1.306496751	0.0004852	0.430294	0.467531	0.479593	18.9454	4.81014632	63.87272
1156	485902.5	3855735.28	4.37315	0.69614	4.43774	7.04439	0.934	3.09	2.4345	0.69614	45.6284381	1.285718837	0.000462	0.371057	0.438172	0.434659	17.24903	4.73364801	60.67389
1157	485852.5	3855785.28	4.67069	0.73238	5.49306	10.07675	1.102	4.06	2.9954	0.73238	48.7329018	1.352651424	0.0005719	0.530783	0.51666	0.571132	21.22363	4.98007459	67.94826
1158	485902.5	3855785.28	4.56962	0.70483	5.23968	8.34359	1.07	3.286	2.6041	0.70483	47.6783607	1.301768622	0.0005455	0.439491	0.501669	0.462238	18.45085	4.79273871	64.04218
1159	486809.46	3856465.28	4.46918	0.69882	2.55014	6.7478	4.104	3.152	2.4158	0.69882	46.6303929	1.290668598	0.0002655	0.355434	1.924618	0.443409	17.11653	4.7518716	63.00945
1160	486859.46	3856465.28	4.3476	0.70672	2.40192	6.13291	4.122	2.994	2.3241	0.70672	45.3618553	1.305259311	0.0002501	0.323045	1.932927	0.421151	16.46737	4.80559042	61.00627
1161	486909.46	3856465.28	4.23546	0.71086	2.40474	5.64519	4.058	2.845	2.2278	0.71086	44.1918124	1.312905583	0.0002503	0.297355	1.902954	0.40018	15.78455	4.83374181	59.05627
1162	486809.46	3856515.28	4.5564	0.71954	2.28725	7.60106	4.334	3.382	2.5287	0.71954	47.5404263	1.328936898	0.0002381	0.400379	2.032268	0.475774	17.91668	4.89276451	64.80194
1163	486859.46	3856515.28	4.41867	0.72483	2.2781	6.75272	4.711	3.191	2.4033	0.72483	46.1033832	1.338707135	0.0002372	0.355693	2.208975	0.448958	17.02853	4.92873572	62.55575
1164	486909.46	3856515.28	4.30099	0.72498	2.3743	6.13592	4.767	3.034	2.3065	0.72498	44.8755373	1.338984174	0.0002472	0.323204	2.235103	0.426792	16.34238	4.9297557	60.6125
1165	486980.94	3856357.95	3.90202	0.65231	2.35163	4.36585	3.089	2.372	1.8816	0.65231	40.7127764	1.204768085	0.0002448	0.229967	1.44836	0.333743	13.33146	4.43561055	52.82571
1166	487030.94	3856357.95	3.74712	0.6492	2.36934	4.03557	3.156	2.294	1.8217	0.6492	39.0965855	1.199024146	0.0002467	0.21257	1.479773	0.322766	12.90754	4.41446302	50.80405
1167	486980.94	3856407.95	4.02938	0.6806	2.2782	4.72169	3.562	2.501	1.9881	0.6806	42.0416212	1.257017613	0.0002372	0.248711	1.67052	0.351882	14.08648	4.62797833	55.02849
1168	487030.94	3856407.95	3.8672	0.67055	2.22591	4.41701	3.692	2.408	1.9166	0.67055	40.3494725	1.23845601	0.0002317	0.232662	1.731245	0.33873	13.57987	4.55963983	52.91103
1169	487447.18	3856437.45	3.2236	0.63967	1.98745	2.97617	4.402	1.889	1.4555	0.63967	33.6342986	1.181422945	0.0002069	0.156767	2.064084	0.265677	10.31288	4.34966044	43.26568
1170	487497.18	3856437.45	3.17011	0.62919	1.92096	2.86885	4.375	1.848	1.4147	0.62919	33.0761963	1.162067164	0.0002	0.151114	2.051723	0.260034	10.02345	4.27839801	42.44638
1171	487547.18	3856437.45	3.11752	0.62294	1.85509	2.77382	4.289	1.831	1.3795	0.62294	32.5274844	1.150523878	0.0001931	0.146108	2.011344	0.257608	9.774114	4.23589894	41.63148
1172	487447.18	3856487.45	3.26127	0.67084	2.06382	3.10249	4.971	1.952	1.5115	0.67084	34.0273387	1.238991618	0.0002149	0.163421	2.330941	0.274588	10.70981	4.56161178	44.18369
1173	487497.18	3856487.45	3.2108	0.65529	2.02947	2.98768	5.109	1.93	1.457	0.65529	33.5007464	1.210271924	0.0002113	0.157373	2.395896	0.271489	10.32323	4.45587411	43.40334
1174	487547.18	3856487.45	3.15978	0.64228	2.00727	2.88485	5.219	1.911	1.4172	0.64228	32.9684155	1.186243421	0.000209	0.151957	2.447514	0.268775	10.0413	4.36740805	42.69701
1175	487447.18	3856537.45	3.28336	0.68736	2.02955	3.22728	5.747	2.056	1.5533	0.68736	34.2578207	1.26950283	0.0002113	0.169994	2.695099	0.289224	11.00597	4.67394532	45.01388
1176	487497.18	3856537.45	3.23155	0.67945	2.02334	3.10894	6.156	2.029	1.4963	0.67945	33.7172471	1.254893648	0.0002106	0.163761	2.886788	0.285361	10.60183	4.6201585	44.28993

1177	487547.18	3856537.45	3.17589	0.67005	2.04564	2.99875	6.78	2.002	1.4455	0.67005
1178	489285.89	3858826.54	3.57937	3.0117	1.91165	16.33743	2.699	6.637	2.9324	3.0117
1179	489335.89	3858826.54	3.48776	2.85113	2.05286	13.18374	3.059	6.219	2.7868	2.85113
1180	489385.89	3858826.54	3.38648	2.73406	2.05779	11.25582	3.31	5.873	2.653	2.73406
1181	489435.89	3858826.54	3.30423	2.62985	2.25684	9.81787	2.988	5.508	2.5133	2.62985
1182	489485.89	3858826.54	3.23018	2.51101	2.63836	8.72235	2.662	5.176	2.4098	2.51101
1183	489535.89	3858826.54	3.15431	2.42713	2.55914	7.96214	2.832	4.952	2.3124	2.42713
1184	489585.89	3858826.54	3.08582	2.32609	2.84248	7.26671	3.089	4.765	2.217	2.32609
1185	489635.89	3858826.54	3.01941	2.23661	2.7787	6.85614	3.089	4.597	2.1372	2.23661
1186	489685.89	3858826.54	2.95821	2.15939	2.28273	6.4558	2.819	4.428	2.0484	2.15939
1187	489735.89	3858826.54	2.90084	2.08668	2.24961	6.22382	2.512	4.269	2.0274	2.08668
1188	489785.89	3858826.54	2.84594	2.03707	2.33385	5.95038	2.593	4.126	1.9974	2.03707
1189	489835.89	3858826.54	2.79545	1.99262	2.34724	5.6898	2.713	3.989	1.9572	1.99262
1190	489885.89	3858826.54	2.74585	1.94278	2.0931	5.50018	2.891	3.87	1.9045	1.94278
1191	489935.89	3858826.54	2.6978	1.85122	2.00909	5.32457	2.976	3.742	1.8244	1.85122
1192	489985.89	3858826.54	2.64981	1.79231	1.94659	5.12321	2.801	3.655	1.7391	1.79231
1193	490035.89	3858826.54	2.58523	1.72912	1.89836	4.93334	2.631	3.555	1.6812	1.72912
1194	489285.89	3858876.54	3.63244	3.31356	1.79016	17.66692	2.642	7.099	3.1869	3.31356
1195	489335.89	3858876.54	3.52569	3.12722	1.90624	14.01073	2.506	6.615	3	3.12722
1196	489385.89	3858876.54	3.41233	2.95629	1.93168	11.6645	2.838	6.261	2.8538	2.95629
1197	489435.89	3858876.54	3.31924	2.84038	2.10814	10.06562	3.057	5.965	2.7156	2.84038
1198	489485.89	3858876.54	3.24041	2.73059	2.29914	8.98973	2.795	5.621	2.5775	2.73059
1199	489535.89	3858876.54	3.16494	2.61366	2.43703	8.20345	2.379	5.265	2.4658	2.61366
1200	489585.89	3858876.54	3.10859	2.51345	2.83391	7.55728	2.557	4.966	2.3576	2.51345
1201	489635.89	3858876.54	3.05275	2.41603	2.89059	7.0539	2.799	4.768	2.2754	2.41603
1202	489685.89	3858876.54	2.99472	2.30606	2.58936	6.83516	2.816	4.582	2.1974	2.30606
1203	489735.89	3858876.54	2.93011	2.20817	2.34849	6.47624	2.731	4.433	2.1032	2.20817
1204	489785.89	3858876.54	2.86534	2.13546	2.26899	6.20788	2.319	4.3	2.0313	2.13546
1205	489835.89	3858876.54	2.81	2.07732	2.37467	5.94014	2.384	4.175	2.0264	2.07732
1206	489885.89	3858876.54	2.75718	2.03024	2.1878	5.70016	2.478	4.041	1.9908	2.03024
1207	489935.89	3858876.54	2.71062	1.98266	1.95203	5.47474	2.623	3.914	1.9352	1.98266
1208	489985.89	3858876.54	2.66519	1.87556	1.98723	5.28039	2.824	3.777	1.8473	1.87556
1209	490035.89	3858876.54	2.61576	1.81411	1.92527	5.06693	2.684	3.668	1.7578	1.81411
1210	489285.89	3858926.54	3.6654	3.64284	1.7709	20.04523	2.875	8.414	3.5212	3.64284
1211	489335.89	3858926.54	3.53988	3.44689	1.77601	15.64984	2.388	7.516	3.3128	3.44689
1212	489385.89	3858926.54	3.43221	3.25811	1.89738	13.20281	2.314	6.941	3.1195	3.25811
1213	489435.89	3858926.54	3.34646	3.0699	1.99009	11.25875	2.638	6.475	2.9484	3.0699
1214	489485.89	3858926.54	3.28529	2.9394	2.24739	9.76334	2.824	6.066	2.7848	2.9394
1215	489535.89	3858926.54	3.22076	2.81384	2.24798	8.84576	2.621	5.688	2.6461	2.81384
1216	489585.89	3858926.54	3.14455	2.71023	2.6818	8.11122	2.205	5.35	2.5362	2.71023
1217	489635.89	3858926.54	3.07003	2.60795	2.87923	7.51866	2.321	5.083	2.4462	2.60795
1218	489685.89	3858926.54	3.01267	2.49435	2.74117	7.10283	2.544	4.832	2.3479	2.49435
1219	489735.89	3858926.54	2.94609	2.3953	2.61874	6.84708	2.578	4.637	2.2698	2.3953
1220	489785.89	3858926.54	2.885	2.30439	2.57701	6.47809	2.575	4.464	2.1967	2.30439
1221	489835.89	3858926.54	2.83444	2.20279	2.55285	6.2155	2.222	4.305	2.1151	2.20279
1222	489885.89	3858926.54	2.7896	2.13003	2.32116	5.93644	2.195	4.172	2.0803	2.13003
1223	489935.89	3858926.54	2.74044	2.06645	2.03703	5.61797	2.276	4.046	2.0332	2.06645
1224	489985.89	3858926.54	2.69203	2.01027	2.13875	5.34685	2.389	3.918	1.9705	2.01027
1225	490035.89	3858926.54	2.64315	1.88333	1.89801	5.108	2.549	3.794	1.875	1.88333
1226	489335.89	3858976.54	3.58917	3.82735	1.83543	19.97851	2.605	9.274	3.6484	3.82735
1227	489385.89	3858976.54	3.51559	3.59734	1.94449	16.0872	2.233	7.834	3.4287	3.59734
1228	489435.89	3858976.54	3.48368	3.40763	1.95636	13.13685	2.152	7.161	3.2525	3.40763
1229	489485.89	3858976.54	3.41607	3.20336	2.28312	11.2736	2.456	6.648	3.0704	3.20336
1230	489535.89	3858976.54	3.29727	3.04413	2.37022	9.95454	2.624	6.173	2.9029	3.04413
1231	489585.89	3858976.54	3.19474	2.90048	2.76634	8.98222	2.46	5.773	2.761	2.90048
1232	489635.89	3858976.54	3.0985	2.78206	2.88385	8.21202	2.055	5.413	2.6354	2.78206
1233	489685.89	3858976.54	3.00929	2.69099	3.17491	7.59332	2.115	5.123	2.5184	2.69099
1234	489735.89	3858976.54	2.95772	2.58181	2.88842	7.1726	2.314	4.877	2.4245	2.58181
1235	489785.89	3858976.54	2.92456	2.48735	2.83241	6.79629	2.383	4.675	2.3459	2.48735

33.1365035	1.237532547	0.000213	0.157956	3.17931	0.281631	10.24203	4.5562399	43.67894
37.3463207	5.562386047	0.000199	0.860559	1.265477	0.933597	20.77704	20.4791101	46.26647
36.3904831	5.265825192	0.0002137	0.694441	1.434321	0.874877	19.74577	19.3872581	45.01867
35.3337509	5.049605603	0.0002142	0.59289	1.551949	0.826163	18.79739	18.5911996	43.56076
34.4755734	4.857137479	0.000235	0.517147	1.40098	0.77489	17.80792	17.8825871	41.9513
33.7029528	4.637648832	0.0002747	0.459442	1.248272	0.728179	17.07459	17.0744929	40.77686
32.9113427	4.482728707	0.0002664	0.419398	1.328064	0.696653	16.38447	16.5041214	39.7188
32.1967339	4.296115337	0.0002959	0.382767	1.448308	0.670366	15.70853	15.8170645	38.88605
31.5038273	4.130852428	0.0002893	0.361141	1.448482	0.646703	15.14269	15.2086139	38.02537
30.8652806	3.988232827	0.0002376	0.340053	1.322071	0.622925	14.5133	14.6835294	36.96857
30.2666952	3.853942862	0.0002342	0.327834	1.177775	0.600591	14.36465	14.1891123	36.40261
29.6938813	3.762316879	0.000243	0.313431	1.216043	0.58049	14.15244	13.8517717	35.86708
29.1670803	3.680221033	0.0002444	0.299705	1.272131	0.561158	13.86747	13.5495183	35.29849
28.6495653	3.588170258	0.0002179	0.289717	1.355772	0.544397	13.494	13.2106138	34.71122
28.1482227	3.419065743	0.0002092	0.280467	1.395691	0.526399	12.92618	12.5880195	34.10821
27.6475061	3.310263352	0.0002027	0.26986	1.313236	0.514228	12.32229	12.1874403	33.19015
26.9736933	3.193556118	0.0001976	0.259859	1.233731	0.50013	11.91198	11.7577577	32.31539
37.9000408	6.119899031	0.0001864	0.930589	1.238814	0.998612	22.57998	22.531713	47.23641
36.786236	5.775742901	0.0001985	0.738002	1.174966	0.930626	21.25594	21.2646288	45.39708
35.6034639	5.460047896	0.0002011	0.614417	1.330727	0.880706	20.22013	20.1023304	44.00736
34.6321843	5.245970741	0.0002195	0.530197	1.433603	0.839069	19.24101	19.3141597	42.60809
33.8096903	5.043196771	0.0002394	0.473526	1.310442	0.790733	18.26273	18.5676041	41.12295
33.0222537	4.827235753	0.0002537	0.432109	1.11576	0.740603	17.47094	17.7724976	39.83666
32.4343108	4.642155331	0.000295	0.398073	1.198919	0.698534	16.70445	17.0910845	38.98565
31.8516891	4.462227832	0.0003009	0.371558	1.312289	0.670767	16.12217	16.4286431	38.36236
31.2462175	4.259121416	0.0002696	0.360036	1.320678	0.644537	15.56937	15.6808635	37.71937
30.5720917	4.078325862	0.0002445	0.34113	1.280454	0.623659	14.90214	15.0152261	36.78282
29.8962964	3.944035896	0.0002362	0.326994	1.087635	0.604835	14.39235	14.520809	35.73158
29.3188916	3.836655637	0.0002472	0.312891	1.11811	0.587269	14.35785	14.1254657	35.40645
28.7677799	3.749702377	0.0002278	0.300251	1.161996	0.568476	14.10568	13.8053287	34.84878
28.2819837	3.661825653	0.0002032	0.288377	1.229839	0.550671	13.71187	13.4817918	34.24298
27.8079775	3.464019914	0.0002069	0.27814	1.324439	0.531342	13.08843	12.7535278	33.74103
27.2922363	3.350526331	0.0002004	0.266896	1.258513	0.516058	12.45443	12.335677	32.80319
38.2439379	6.728054716	0.0001844	1.055864	1.34795	1.183685	24.94883	24.7707678	48.73774
36.9342912	6.36614963	0.0001849	0.824341	1.119756	1.05732	23.47245	23.4383371	46.33616
35.8108872	6.017487002	0.0001975	0.695446	1.084966	0.976499	22.10307	22.1546613	44.53389
34.9161915	5.669877121	0.0002072	0.593044	1.236882	0.910922	20.89055	20.8748614	43.34281
34.2779578	5.428853321	0.000234	0.514275	1.324368	0.853345	19.73153	19.9874809	42.14308
33.6046667	5.196953334	0.000234	0.465942	1.229018	0.800167	18.74886	19.1336916	40.91215
32.8095092	5.005593365	0.0002792	0.427251	1.033765	0.752611	17.96975	18.4291591	39.5696
32.0319847	4.816689807	0.0002997	0.396038	1.088591	0.715117	17.33221	17.7336704	38.64726
31.4335037	4.606879051	0.0002854	0.374135	1.192884	0.679804	16.63593	16.9612074	37.96221
30.7388233	4.423941063	0.0002726	0.360664	1.209005	0.652298	16.08256	16.2876822	37.17989
30.1014243	4.25603705	0.0002683	0.341227	1.207425	0.628013	15.5647	15.6695078	36.42958
29.573893	4.068389402	0.0002658	0.327396	1.041807	0.60558	14.98618	14.9786429	35.62486
29.1060427	3.93400709	0.0002416	0.312696	1.029414	0.586916	14.73932	14.4838858	35.22475
28.5931187	3.816579555	0.0002121	0.295921	1.067035	0.569163	14.40603	14.0515513	34.6965
28.0880199	3.712819271	0.0002227	0.28164	1.120295	0.551152	13.96163	13.6695357	34.04625
27.5780172	3.478370526	0.0001976	0.269059	1.195045	0.533722	13.28477	12.8063627	33.53282
37.4485716	7.068830972	0.0001911	1.05235	1.2213	1.304606	25.84995	26.0254082	47.92039
36.6808549	6.644019598	0.0002024	0.847378	1.046956	1.102081	24.29351	24.4613746	46.15362
36.3479133	6.293639329	0.0002037	0.691971	1.009048	1.007316	23.04485	23.1713749	45.22357
35.6424862	5.916367821	0.0002377	0.593826	1.151745	0.935281	21.75482	21.7823695	44.2124
34.4029544	5.622281847	0.0002468	0.524346	1.230538	0.86837	20.56809	20.6996292	42.5172
33.33318	5.356970974	0.000288	0.47313	1.15334	0.812069	19.56268	19.7228307	40.96883
32.3290341	5.138258036	0.0003002	0.432561	0.963409	0.761488	18.67297	18.9175924	39.38043
31.3982375	4.970058515	0.0003305	0.399971	0.991694	0.720726	17.84399	18.29833	38.02667
30.860168	4.76841117	0.0003007	0.37781	1.08514	0.686024	17.1786	17.5559223	37.40053
30.5141842	4.593950571	0.0002949	0.357988	1.117406	0.657618	16.62155	16.9136084	36.94938

1236	489835.89	3858976.54	2.87547	2.39186	2.59078	6.41788	2.329	4.505	2.2694	2.39186
1237	489885.89	3858976.54	2.8297	2.28481	2.43592	6.10208	2.147	4.329	2.1874	2.28481
1238	489935.89	3858976.54	2.77003	2.19507	2.17402	5.81594	2.033	4.173	2.1417	2.19507
1239	489985.89	3858976.54	2.71772	2.11183	2.08453	5.57061	2.098	4.033	2.0737	2.11183
1240	490035.89	3858976.54	2.67057	1.98714	2.05226	5.21431	2.21	3.774	1.974	1.98714
1241	489385.89	3859026.54	3.5427	3.99661	2.06052	19.58159	2.386	10.79	3.8439	3.99661
1242	489435.89	3859026.54	3.59937	3.78379	2.13908	16.56442	2.159	8.509	3.6278	3.78379
1243	489485.89	3859026.54	3.49561	3.5609	2.22758	13.54166	2.036	7.491	3.4196	3.5609
1244	489535.89	3859026.54	3.34692	3.34093	2.56323	11.6237	2.293	6.837	3.2214	3.34093
1245	489585.89	3859026.54	3.23807	3.16149	2.75993	10.33794	2.439	6.313	3.0439	3.16149
1246	489635.89	3859026.54	3.18675	3.00109	2.98944	9.2893	2.313	5.871	2.8529	3.00109
1247	489685.89	3859026.54	3.10155	2.86	3.84	8.45529	1.94	5.468	2.7065	2.86
1248	489735.89	3859026.54	3.01684	2.74183	3.1009	7.80097	1.961	5.19	2.5952	2.74183
1249	489785.89	3859026.54	2.94915	2.65084	3.14213	7.36275	2.109	4.95	2.4953	2.65084
1250	489835.89	3859026.54	2.87094	2.55859	2.92856	6.8755	2.218	4.72	2.4018	2.55859
1251	489885.89	3859026.54	2.81731	2.45214	2.65435	6.47181	2.144	4.524	2.3083	2.45214
1252	489935.89	3859026.54	2.77721	2.35107	2.49805	6.12515	2.074	4.347	2.212	2.35107
1253	489985.89	3859026.54	2.72657	2.25221	2.20388	5.79254	1.878	4.187	2.17	2.25221
1254	490035.89	3859026.54	2.69257	2.0862	2.47331	5.3741	1.957	3.849	2.0213	2.0862
1255	489485.89	3859076.54	3.41004	3.95011	2.58462	18.89536	2.096	9.021	3.8411	3.95011
1256	489535.89	3859076.54	3.38297	3.72155	2.78368	14.59912	1.916	7.765	3.6159	3.72155
1257	489585.89	3859076.54	3.38165	3.47596	3.33428	12.17136	2.147	7.046	3.3889	3.47596
1258	489635.89	3859076.54	3.30506	3.30681	3.60101	10.78886	2.269	6.479	3.1604	3.30681
1259	489685.89	3859076.54	3.21439	3.14579	4.01354	9.67844	2.188	5.981	2.9812	3.14579
1260	489735.89	3859076.54	3.1319	2.98926	3.40735	8.82031	1.833	5.592	2.8303	2.98926
1261	489785.89	3859076.54	3.04557	2.84085	3.44955	8.09332	1.84	5.298	2.6809	2.84085
1262	489835.89	3859076.54	2.97695	2.73318	3.07141	7.55037	1.932	5.035	2.5553	2.73318
1263	489885.89	3859076.54	2.8973	2.60984	2.98902	7.04874	2.072	4.798	2.4622	2.60984
1264	489935.89	3859076.54	2.83184	2.52301	2.85768	6.61425	1.974	4.593	2.3618	2.52301
1265	489985.89	3859076.54	2.78975	2.41593	2.94765	6.2055	1.935	4.383	2.2542	2.41593
1266	490035.89	3859076.54	2.7485	2.22642	3.23209	5.71601	1.794	3.99	2.126	2.22642
1267	489585.89	3859126.54	3.56645	3.89965	3.49775	15.60425	1.821	8.36	3.779	3.89965
1268	489635.89	3859126.54	3.52597	3.64523	4.28625	13.09271	2.008	7.229	3.5429	3.64523
1269	489685.89	3859126.54	3.42103	3.45629	4.66867	11.23303	2.113	6.65	3.3017	3.45629
1270	489735.89	3859126.54	3.26672	3.28635	4.34628	10.01419	2.041	6.087	3.1081	3.28635
1271	489785.89	3859126.54	3.13671	3.12921	3.80964	9.11239	1.736	5.707	2.9568	3.12921
1272	489835.89	3859126.54	3.04853	2.9498	3.7392	8.36049	1.732	5.385	2.7845	2.9498
1273	489885.89	3859126.54	2.99279	2.81262	3.41541	7.72184	1.797	5.086	2.6429	2.81262
1274	489935.89	3859126.54	2.92387	2.67472	3.29123	7.192	1.939	4.828	2.5277	2.67472
1275	489985.89	3859126.54	2.84107	2.57135	3.79275	6.72972	1.822	4.567	2.3959	2.57135
1276	490035.89	3859126.54	2.74397	2.38734	3.99011	6.24611	1.789	4.315	2.2388	2.38734
1277	489585.89	3859176.54	3.58798	4.34789	4.4796	20.00222	1.928	11.96	4.2515	4.34789
1278	489635.89	3859176.54	3.55706	4.08207	5.33382	18.07708	1.743	8.899	3.9456	4.08207
1279	489685.89	3859176.54	3.4116	3.82256	5.90604	13.81096	1.875	7.746	3.6996	3.82256
1280	489735.89	3859176.54	3.29382	3.61739	5.64724	11.93471	1.971	6.804	3.4531	3.61739
1281	489785.89	3859176.54	3.22172	3.42592	5.08585	10.43468	1.906	6.272	3.2462	3.42592
1282	489835.89	3859176.54	3.17983	3.25423	5.12106	9.39414	1.653	5.79	3.0864	3.25423
1283	489885.89	3859176.54	3.09101	3.06278	4.60223	8.55134	1.632	5.415	2.9147	3.06278
1284	489935.89	3859176.54	2.95397	2.92739	4.93421	7.90481	1.698	5.131	2.7466	2.92739
1285	489985.89	3859176.54	2.83833	2.75823	5.28815	7.32645	1.829	4.798	2.6495	2.75823
1286	490035.89	3859176.54	2.77983	2.64043	5.54213	6.83941	1.684	4.569	2.4751	2.64043
1287	489685.89	3859226.54	3.44079	4.28195	8.06735	19.71146	1.679	9.849	4.2226	4.28195
1288	489735.89	3859226.54	3.46496	4.01192	8.3113	15.14998	1.737	8.03	3.9416	4.01192
1289	489785.89	3859226.54	3.38236	3.78298	7.16155	12.67836	1.846	7.169	3.6646	3.78298
1290	489835.89	3859226.54	3.29138	3.56791	6.62966	10.90675	1.773	6.451	3.4166	3.56791
1291	489885.89	3859226.54	3.11812	3.37735	6.61548	9.72792	1.578	5.908	3.2339	3.37735
1292	489935.89	3859226.54	3.0249	3.17363	7.46593	8.79758	1.544	5.454	3.0517	3.17363
1293	489985.89	3859226.54	2.93618	2.97297	7.89213	7.97325	1.618	5.005	2.8655	2.97297
1294	490035.89	3859226.54	2.84159	2.84746	6.74194	7.44205	1.736	4.79	2.7585	2.84746

30.0019905	4.417587638	0.0002697	0.338056	1.091888	0.633788	16.07931	16.2642907	36.29859
29.5244369	4.219874245	0.0002536	0.321421	1.006812	0.608988	15.49816	15.5363667	35.64358
28.9018539	4.054131135	0.0002263	0.306349	0.953491	0.587041	15.17486	14.9261481	35.0518
28.3560634	3.900393042	0.000217	0.293427	0.983586	0.567335	14.69256	14.3601285	34.43345
27.8641112	3.67009988	0.0002137	0.274659	1.036241	0.530978	13.98657	13.5122551	33.85062
36.9637144	7.381441611	0.0002145	1.031442	1.118963	1.518183	27.23556	27.176351	48.07317
37.5549961	6.988378889	0.0002227	0.872516	1.012439	1.197023	25.70406	25.7292067	47.60043
36.4723882	6.576717626	0.0002319	0.713294	0.954588	1.053771	24.22917	24.213588	45.78657
34.920991	6.170449386	0.0002668	0.612268	1.075325	0.961755	22.82492	22.7178249	43.84815
33.7852753	5.839037044	0.0002873	0.544541	1.143811	0.888055	21.56727	21.4976597	42.27062
33.2498142	5.542790166	0.0003112	0.489305	1.084662	0.825969	20.21347	20.4069637	40.99936
32.3608571	5.282207423	0.0003998	0.445375	0.909511	0.76917	19.17667	19.4475728	39.49662
31.4770125	5.063956216	0.0003228	0.410909	0.919433	0.730071	18.38793	18.6440344	38.3456
30.7707506	4.895904449	0.0003271	0.387826	0.988922	0.696356	17.67996	18.025316	37.39473
29.9547255	4.725525556	0.0003049	0.362161	1.040114	0.664016	17.01783	17.3980298	36.36665
29.3951625	4.528920318	0.0002763	0.340897	1.005569	0.636376	16.35521	16.6741857	35.58822
28.9767683	4.34225154	0.0002601	0.322637	0.97237	0.611547	15.67253	15.9869248	34.91144
28.4484023	4.159664468	0.0002294	0.305117	0.880508	0.589	15.37509	15.3146915	34.44332
28.0936541	3.853056337	0.0002575	0.283076	0.917469	0.5414	14.32178	14.1858483	33.82485
35.5795706	7.295559567	0.0002691	0.995296	0.982883	1.269071	27.21523	26.8601579	46.47772
35.2971284	6.873426236	0.0002898	0.768995	0.898595	1.09229	25.6201	25.305984	45.24484
35.2833558	6.41983976	0.0003471	0.641115	1.006657	0.991211	24.01137	23.6360087	44.71788
34.4842335	6.107432282	0.0003749	0.568293	1.063776	0.911457	22.39222	22.485814	43.04197
33.5382036	5.81004031	0.0004178	0.509803	1.02593	0.841361	21.12288	21.3909021	41.45773
32.677522	5.520941035	0.0003547	0.464602	0.859318	0.786655	20.0537	20.3265214	40.03657
31.7767747	5.246838796	0.0003591	0.426308	0.86298	0.745303	18.99514	19.3173556	38.73635
31.0608094	5.047980309	0.0003198	0.397709	0.905849	0.708271	18.10529	18.5852157	37.64102
30.2297597	4.820180496	0.0003112	0.371286	0.971526	0.675004	17.44586	17.7465221	36.7674
29.5467652	4.65981194	0.0002975	0.3484	0.925651	0.646059	16.73399	17.1560911	35.70489
29.1076078	4.462043139	0.0003069	0.326869	0.907363	0.616645	15.97168	16.4279631	34.96455
28.6772148	4.112032255	0.0003365	0.301086	0.841189	0.561291	15.06334	15.1393234	34.41716
37.2115164	7.202363698	0.0003641	0.821939	0.853911	1.176082	26.77579	26.5170374	47.52493
36.7891574	6.732468868	0.0004462	0.689646	0.941763	1.016944	25.10287	24.7870194	46.48627
35.6942377	6.383510732	0.000486	0.591689	0.99099	0.935442	23.39374	23.5022557	44.48784
34.0842027	6.069644183	0.0004525	0.527488	0.957172	0.856313	22.02173	22.3466891	42.17031
32.7277084	5.779418283	0.0003966	0.479987	0.813973	0.802789	20.94999	21.2781605	40.27611
31.8076586	5.448061348	0.0003893	0.440381	0.812074	0.757578	19.72926	20.0581993	38.9372
31.2260803	5.194700084	0.0003556	0.406741	0.842624	0.715422	18.72611	19.1253958	37.98664
30.5069849	4.940009034	0.0003426	0.378832	0.909117	0.679181	17.90981	18.1876964	37.13658
29.6430689	4.749092327	0.0003948	0.354482	0.85415	0.64249	16.9756	17.4847959	35.73449
28.6299499	4.409239534	0.0004154	0.329008	0.838971	0.60705	15.86271	16.2335554	34.44378
37.4361555	8.030229661	0.0004664	1.053598	0.904072	1.68246	30.12306	29.5650025	49.66504
37.1135433	7.539279879	0.0005553	0.952193	0.817256	1.251899	27.95565	27.7574662	47.87291
35.5958472	7.059984198	0.0006149	0.72748	0.879144	1.08962	26.21307	25.992837	45.57292
34.3669579	6.681050458	0.0005879	0.62865	0.924371	0.957179	24.46632	24.5977116	43.4274
33.6146831	6.327419599	0.0005295	0.549637	0.893966	0.88237	23.00021	23.2957442	41.97308
33.1776125	6.01032093	0.0005331	0.494828	0.775255	0.814514	21.86819	22.1282779	41.01297
32.2508851	5.65672701	0.0004791	0.450434	0.765459	0.761782	20.65163	20.8264465	39.71095
30.8210414	5.406671744	0.0005137	0.416379	0.796126	0.721771	19.46065	19.9058147	37.71734
29.6144803	5.094245797	0.0005505	0.385914	0.857634	0.675014	18.77295	18.755552	36.64523
29.0041048	4.876677953	0.000577	0.36026	0.789646	0.642812	17.53691	17.9545296	35.25645
35.900409	7.908443382	0.0008399	1.038283	0.787245	1.385456	29.91829	29.1166203	47.82235
36.1525932	7.409718043	0.0008653	0.798011	0.814677	1.129621	27.92766	27.2804567	46.95269
35.2907638	6.98688288	0.0007456	0.667821	0.865461	1.008495	25.96501	25.7236989	45.06148
34.3414995	6.589664575	0.0006902	0.574503	0.831267	0.907461	24.20813	24.261255	43.19196
32.5337446	6.237714419	0.0006887	0.512409	0.739842	0.831131	22.91342	22.9654755	40.80347
31.5611087	5.861458721	0.0007772	0.463404	0.724133	0.767313	21.62204	21.5802099	39.42003
30.6354246	5.490854616	0.0008216	0.419984	0.758857	0.704112	20.30331	20.2157519	38.09761
29.6484944	5.259046975	0.0007019	0.392003	0.813894	0.673823	19.54461	19.3623026	36.97027

1295	489735.89	3859276.54	3.44688	4.58936	13.35368	19.31157	1.623	12	4.5234	4.58936
1296	489785.89	3859276.54	3.49879	4.22376	11.86873	17.53196	1.618	8.59	4.2005	4.22376
1297	489835.89	3859276.54	3.38664	3.95526	10.11312	13.7478	1.733	7.375	3.9105	3.95526
1298	489885.89	3859276.54	3.22864	3.72763	11.76079	11.51925	1.649	6.699	3.6591	3.72763
1299	489935.89	3859276.54	3.10316	3.50603	11.90193	10.12367	1.507	6.057	3.4102	3.50603
1300	489985.89	3859276.54	3.01409	3.15357	10.41958	8.95317	1.471	5.41	3.0733	3.15357
1301	490035.89	3859276.54	2.91524	3.09233	12.48584	8.30336	1.538	5.175	2.9767	3.09233
1302	490458.06	3859590.74	2.85803	4.33636	10.02756	13.32231	1.144	6.795	4.3337	4.33636
1303	490508.06	3859590.74	2.77549	3.94426	9.21218	11.43017	0.977	6.134	3.9704	3.94426
1304	490558.06	3859590.74	2.69637	3.62006	8.88974	10.02619	0.97	5.618	3.6551	3.62006
1305	490608.06	3859590.74	2.61682	3.24261	8.73356	8.75181	1.041	4.968	3.2466	3.24261
1306	490658.06	3859590.74	2.5421	2.92223	8.20861	7.59361	1.137	4.528	2.9582	2.92223
1307	490708.06	3859590.74	2.47415	2.64185	7.4062	6.58775	1.11	4.121	2.6804	2.64185
1308	490758.06	3859590.74	2.42284	2.40583	6.66072	5.82259	1.032	3.772	2.4174	2.40583
1309	490808.06	3859590.74	2.3792	2.19602	6.29959	5.37132	1.046	3.502	2.2002	2.19602
1310	490858.06	3859590.74	2.32458	2.03467	5.99556	4.86644	1.102	3.286	1.9985	2.03467
1311	490458.06	3859640.74	2.93826	5.16947	10.06747	23.0545	1.159	9.307	5.1994	5.16947
1312	490508.06	3859640.74	2.91515	4.81224	9.38941	16.85097	1.113	7.778	4.8061	4.81224
1313	490558.06	3859640.74	2.84959	4.42726	8.43908	13.52545	0.952	6.877	4.4576	4.42726
1314	490608.06	3859640.74	2.757	3.9087	7.70198	11.44182	0.946	6.145	3.9649	3.9087
1315	490658.06	3859640.74	2.67073	3.38657	7.51054	9.63068	0.977	5.357	3.4219	3.38657
1316	490708.06	3859640.74	2.57724	3.05882	6.96812	8.24467	1.072	4.768	3.0929	3.05882
1317	490758.06	3859640.74	2.49332	2.74381	6.75589	7.11048	1.099	4.222	2.7685	2.74381
1318	490808.06	3859640.74	2.40821	2.56107	6.46975	6.40349	1.003	3.929	2.5728	2.56107
1319	490858.06	3859640.74	2.34839	2.37604	6.11648	5.82863	0.99	3.696	2.3791	2.37604
1320	490608.06	3859690.74	2.90231	4.8862	8.12811	17.05071	0.931	7.739	4.9538	4.8862
1321	490658.06	3859690.74	2.79076	4.12925	7.54646	13.41976	0.923	6.66	4.1858	4.12925
1322	490708.06	3859690.74	2.68471	3.65789	6.94211	11.22972	0.942	5.745	3.6969	3.65789
1323	490758.06	3859690.74	2.58805	3.27007	6.20244	9.38739	1.013	4.959	3.2856	3.27007
1324	490808.06	3859690.74	2.50381	3.01888	5.73132	8.02605	1.087	4.483	2.989	3.01888
1325	490858.06	3859690.74	2.42751	2.86934	5.49374	7.48604	0.989	4.319	2.8761	2.86934
1326	490708.06	3859740.74	2.86578	4.60999	6.76675	17.29384	0.896	7.629	4.7306	4.60999
1327	490758.06	3859740.74	2.75147	4.19493	6.72651	13.72236	0.918	6.687	4.2504	4.19493
1328	490808.06	3859740.74	2.65355	3.79431	6.31548	11.43209	0.947	5.968	3.8524	3.79431
1329	490858.06	3859740.74	2.55502	3.52259	6.01297	10.14469	1.023	5.413	3.5701	3.52259
1330	490786.56	3859749.39	2.71893	4.1352	6.47489	13.25598	0.92	6.568	4.1914	4.1352
1331	490836.56	3859749.39	2.62062	3.76882	6.10582	11.24854	0.971	5.872	3.8315	3.76882
1332	490786.56	3859799.39	2.82712	5.65046	4.93677	23.33484	0.877	9.078	5.7376	5.65046
1333	490836.56	3859799.39	2.76946	4.88302	5.18218	16.88821	0.897	7.684	5.0464	4.88302
1334	492307.84	3854508.36	1.12039	0.2608	0.63625	0.54485	0.907	0.433	0.3402	0.2608
1335	486445.7	3854753.6	2.18332	0.25722	1.45976	1.12393	0.553	0.755	0.7255	0.25722
1336	472599.75	3877830.11	0.04126	0.06144	0.01736	0.03792	0.016	0.053	0.0594	0.06144
1337	493107.48	3866840.19	0.23629	0.1282	0.0348	0.18474	0.03	0.191	0.1333	0.1282
1338	495815.79	3861662.87	0.70453	2.36936	0.44495	0.76549	0.439	0.926	2.3842	2.36936
1339	480272.33	3841389.2	0.07727	0.05688	0.02512	0.04341	0.098	0.046	0.054	0.05688
1340	497005.18	3862813.64	0.43939	1.87167	0.19163	0.40038	0.251	0.494	1.8692	1.87167
1341	493677.33	3860302.55	1.22391	1.00952	1.24549	2.03504	0.835	10.1	0.9959	1.00952
1342	493727.33	3860302.55	1.21911	0.99067	1.23721	1.97484	0.865	10.05	0.9769	0.99067
1343	493777.33	3860302.55	1.21507	0.97248	1.22769	1.92775	0.891	10.14	0.9571	0.97248
1344	493827.33	3860302.55	1.21139	0.95911	1.21658	1.90004	0.902	10.13	0.9407	0.95911
1345	493877.33	3860302.55	1.20523	0.94177	1.20151	1.86518	0.877	9.937	0.9254	0.94177
1346	493927.33	3860302.55	1.19783	0.92873	1.18588	1.84655	0.863	9.672	0.9055	0.92873
1347	493977.33	3860302.55	1.20188	0.90961	1.17408	1.82139	0.884	9.862	0.8891	0.90961
1348	494027.33	3860302.55	1.20066	0.89319	1.13956	1.79254	0.911	9.957	0.8729	0.89319
1349	493677.33	3860352.55	1.21782	1.05846	1.23776	2.06279	0.79	7.163	1.0343	1.05846
1350	493727.33	3860352.55	1.20595	1.03292	1.22062	2.0104	0.794	7.038	1.0055	1.03292
1351	493777.33	3860352.55	1.19671	1.00537	1.20446	1.96407	0.813	7.002	0.9872	1.00537
1352	493827.33	3860352.55	1.18937	0.97831	1.18849	1.91547	0.841	7.014	0.9662	0.97831
1353	493877.33	3860352.55	1.18443	0.95891	1.18186	1.87676	0.864	7.054	0.9459	0.95891

35.9639506	8.476206803	0.0013902	1.017219	0.761197	1.688319	32.04999	31.2069624	48.75131		
36.5055676	7.800970777	0.0012356	0.92348	0.758683	1.208401	29.76227	28.720937	48.23967		
35.3354204	7.305071234	0.0010528	0.724153	0.812656	1.037471	27.70759	26.8951771	46.02823		
33.6868848	6.884655544	0.0012244	0.606766	0.773285	0.942442	25.92604	25.3473271	43.47397		
32.3776554	6.475376815	0.0012391	0.533255	0.706567	0.852053	24.16221	23.8404802	41.26788		
31.4483196	5.824409392	0.0010847	0.4716	0.689607	0.761035	21.77551	21.4438049	39.52776		
30.4169415	5.711303664	0.0012999	0.437372	0.721071	0.728041	21.09114	21.027382	38.07978		
29.8200256	8.008934608	0.0010439	0.70174	0.536519	0.955858	30.70604	29.4866002	41.24356		
28.9588223	7.284755052	0.000959	0.602074	0.458312	0.862881	28.13165	26.8203788	39.47907		
28.1333024	6.685981749	0.0009255	0.52812	0.454945	0.790325	25.89763	24.6158672	37.87536		
27.3032961	5.988859654	0.0009092	0.460993	0.488201	0.698843	23.00333	22.0492636	35.89517		
26.5236849	5.397141607	0.0008546	0.399986	0.533156	0.63696	20.96013	19.8707275	34.58118		
25.8147102	4.879300587	0.000771	0.347004	0.520618	0.579725	18.99174	17.9641853	33.16969		
25.2793535	4.44338919	0.0006934	0.3067	0.48407	0.530698	17.1278	16.3592846	31.81342		
24.8240238	4.055885715	0.0006558	0.282929	0.490372	0.492693	15.58886	14.9326079	30.80281		
24.2541314	3.757884258	0.0006242	0.256335	0.516627	0.462263	14.16038	13.835452	29.57279		
30.6571269	9.547626855	0.0010481	1.214374	0.543412	1.309205	36.83927	35.1516237	44.96044		
30.4160025	8.887849597	0.0009775	0.887609	0.522099	1.094196	34.05302	32.7225131	43.13924		
29.7319646	8.176820152	0.0008786	0.712441	0.446617	0.967448	31.5837	30.1047066	41.51517		
28.7659019	7.219078375	0.0008018	0.602687	0.44363	0.864455	28.09239	26.5785761	39.41037		
27.8657806	6.254743074	0.0007819	0.507287	0.4579	0.753631	24.24504	23.0281701	37.057		
26.8903275	5.649413185	0.0007254	0.43428	0.502569	0.670694	21.91396	20.799519	35.26245		
26.0147256	5.067613129	0.0007033	0.374538	0.515492	0.593975	19.61603	18.6574981	33.52558		
25.1267075	4.730105931	0.0006735	0.337298	0.470284	0.552769	18.229	17.4148934	32.03195		
24.5025594	4.388369274	0.0006368	0.307018	0.464357	0.519932	16.85678	16.156717	30.88294		
30.2820329	9.02444822	0.0008462	0.89813	0.436625	1.088725	35.09939	33.2254301	43.60477		
29.1181459	7.626417832	0.0007856	0.706873	0.43262	0.936892	29.65783	28.0782831	40.40128		
28.0116447	6.755850947	0.0007227	0.591515	0.441605	0.80824	26.19408	24.8731056	37.93056		
27.0031166	6.039576233	0.0006457	0.494472	0.475146	0.697575	23.27966	22.2359875	35.75421		
26.1241758	5.575646973	0.0005967	0.422765	0.509926	0.630597	21.17814	20.527933	33.91392		
25.3280792	5.299457708	0.0005719	0.39432	0.463775	0.607594	20.37814	19.5110834	32.96085		
29.9008873	8.51430888	0.0007045	0.910937	0.42017	1.073145	33.51794	31.3472433	42.99085		
28.7082031	7.74772391	0.0007003	0.722813	0.430266	0.940704	30.11533	28.5248973	40.14085		
27.6865284	7.007808547	0.0006575	0.602175	0.444043	0.839619	27.29536	25.8007412	38.07545		
26.6584892	6.505961904	0.000626	0.534362	0.479704	0.761509	25.29538	23.9530858	36.28294		
28.3686883	7.63740704	0.0006741	0.698246	0.431317	0.923913	29.69744	28.1187423	39.63894		
27.3429444	6.960730412	0.0006357	0.592506	0.455424	0.826089	27.14763	25.627413	37.69855		
29.4975178	10.43597963	0.0005139	1.229141	0.411092	1.277081	40.65282	38.4222839	45.08187		
28.8959066	9.018574996	0.0005395	0.889571	0.420583	1.080927	35.75535	33.2038065	42.85765		
11.6898907	0.481678215	6.624E-05	0.028699	0.425511	0.060921	2.410298	1.77340104	13.32366		
22.7802571	0.475066221	0.000152	0.059202	0.259519	0.106252	5.140075	1.74905757	27.07147		
0.43049732	0.113475113	1.807E-06	0.001997	0.007554	0.007506	0.420658	0.41778282	0.563907		
2.46539534	0.236775871	3.623E-06	0.009731	0.014152	0.026923	0.944266	0.87174085	2.825506		
7.35090346	4.376031811	4.632E-05	0.040321	0.205926	0.130332	16.89263	16.111294	12.8849		
0.80621735	0.105053132	2.615E-06	0.002287	0.04609	0.006436	0.38268	0.3867755	0.96199		
4.58449388	3.456835373	1.995E-05	0.02109	0.117924	0.069454	13.24396	12.7270764	8.766697		
12.7699945	1.864508405	0.0001297	0.107194	0.391491	1.420801	7.056523	6.86458519	16.74606		
12.7199125	1.829693856	0.0001288	0.104023	0.405742	1.413216	6.921972	6.73640801	16.65828		
12.67776	1.796098278	0.0001278	0.101542	0.417662	1.425901	6.781682	6.61271872	16.58805		
12.6393638	1.771404882	0.0001267	0.100083	0.423026	1.424397	6.66527	6.52180472	16.50187		
12.5750917	1.73937919	0.0001251	0.098247	0.411341	1.397856	6.55658	6.40389531	16.37472		
12.4978818	1.71529528	0.0001235	0.097265	0.404551	1.3606	6.416007	6.31522526	16.1765		
12.5401386	1.679982061	0.0001222	0.09594	0.414459	1.38736	6.299736	6.18521212	16.23253		
12.5274094	1.649655541	0.0001186	0.09442	0.42704	1.400641	6.184599	6.07355857	16.21033		
12.7064529	1.954896947	0.0001289	0.108656	0.370662	1.007617	7.328389	7.19736988	16.27943		
12.582604	1.907726465	0.0001271	0.105896	0.37227	0.990021	7.12433	7.02370169	16.05927		
12.486196	1.856843663	0.0001254	0.103456	0.38102	0.985047	6.994952	6.83636581	15.97127		
12.4096122	1.806865854	0.0001237	0.100896	0.39423	0.986643	6.845521	6.65236185	15.89153		
12.3580693	1.771035496	0.000123	0.098857	0.405071	0.992365	6.702255	6.52044475	15.80733		

1354	493927.33	3860352.55	1.18324	0.93871	1.1672	1.84881	0.88	7.211	0.9178	0.93871
1355	493977.33	3860352.55	1.18506	0.93721	1.15659	1.82721	0.86	7.307	0.8972	0.93721
1356	494027.33	3860352.55	1.18036	0.91803	1.14529	1.79943	0.846	7.227	0.8833	0.91803
1357	493677.33	3860402.55	1.20582	1.06634	1.26823	2.06607	0.758	5.61	1.0704	1.06634
1358	493727.33	3860402.55	1.19756	1.051	1.23332	2.02224	0.77	5.591	1.0504	1.051
1359	493777.33	3860402.55	1.19414	1.03138	1.19805	2.00864	0.767	5.702	1.0156	1.03138
1360	493827.33	3860402.55	1.1827	1.01517	1.17948	1.98317	0.774	5.628	0.9954	1.01517
1361	493877.33	3860402.55	1.1743	0.9977	1.18043	1.94308	0.792	5.593	0.9768	0.9977
1362	493927.33	3860402.55	1.17283	0.98204	1.16011	1.88793	0.818	5.632	0.9517	0.98204
1363	493977.33	3860402.55	1.17412	0.96781	1.13983	1.83157	0.842	5.66	0.9227	0.96781
1364	494027.33	3860402.55	1.16555	0.94206	1.12728	1.79197	0.857	5.673	0.9043	0.94206
1365	493677.33	3860452.55	1.19889	1.06817	1.32318	1.82996	0.771	4.844	1.0919	1.06817
1366	493727.33	3860452.55	1.18567	1.06007	1.29683	1.83884	0.74	4.796	1.0856	1.06007
1367	493777.33	3860452.55	1.17873	1.04328	1.2624	1.84653	0.733	4.755	1.0699	1.04328
1368	493827.33	3860452.55	1.17616	1.02393	1.23397	1.85311	0.75	4.737	1.047	1.02393
1369	493877.33	3860452.55	1.17124	1.01532	1.20458	1.84933	0.743	4.695	1.0227	1.01532
1370	493927.33	3860452.55	1.1722	0.99996	1.16985	1.86871	0.758	4.74	0.9866	0.99996
1371	493977.33	3860452.55	1.16511	0.98562	1.14031	1.83328	0.775	4.863	0.9638	0.98562
1372	494027.33	3860452.55	1.15789	0.97245	1.12301	1.79709	0.795	4.888	0.9422	0.97245
1373	493677.33	3860502.55	1.19215	1.11881	1.22856	1.56818	0.764	4.268	1.1048	1.11881
1374	493727.33	3860502.55	1.1811	1.11381	1.2446	1.5926	0.754	4.203	1.104	1.11381
1375	493777.33	3860502.55	1.17314	1.09286	1.25656	1.62182	0.753	4.127	1.0882	1.09286
1376	493827.33	3860502.55	1.16558	1.07041	1.24655	1.63549	0.724	4.052	1.0755	1.07041
1377	493877.33	3860502.55	1.16151	1.03083	1.24914	1.63947	0.716	4.062	1.0507	1.03083
1378	493927.33	3860502.55	1.15939	1.00008	1.23223	1.65185	0.731	4.184	1.0222	1.00008
1379	493977.33	3860502.55	1.15072	0.99045	1.20786	1.66248	0.725	4.255	1.0099	0.99045
1380	494027.33	3860502.55	1.14498	0.97868	1.17803	1.67619	0.739	4.178	0.989	0.97868
1381	493627.33	3860552.55	1.18393	1.18997	1.17883	1.67963	0.767	3.797	1.1504	1.18997
1382	493677.33	3860552.55	1.17422	1.1799	1.16328	1.63451	0.773	3.738	1.1561	1.1799
1383	493727.33	3860552.55	1.1654	1.17048	1.1618	1.57009	0.76	3.709	1.1598	1.17048
1384	493777.33	3860552.55	1.1597	1.14175	1.1584	1.52952	0.747	3.723	1.1379	1.14175
1385	493827.33	3860552.55	1.15615	1.10935	1.1644	1.48941	0.736	3.731	1.1035	1.10935
1386	493877.33	3860552.55	1.14822	1.09251	1.17718	1.45265	0.736	3.726	1.0947	1.09251
1387	493927.33	3860552.55	1.14432	1.06866	1.1904	1.44517	0.71	3.778	1.0602	1.06866
1388	493977.33	3860552.55	1.1414	1.03044	1.19821	1.45233	0.698	3.84	1.032	1.03044
1389	494027.33	3860552.55	1.13304	1.0142	1.19288	1.46717	0.71	3.844	1.0157	1.0142
1390	493627.33	3860602.55	1.16741	1.20588	1.12744	1.69895	0.698	3.459	1.204	1.20588
1391	493727.33	3860602.55	1.12823	1.22005	1.11142	1.63913	0.746	3.412	1.2123	1.22005
1392	493777.33	3860602.55	1.12512	1.1763	1.12233	1.59266	0.755	3.49	1.1682	1.1763
1393	493827.33	3860602.55	1.11991	1.15949	1.1103	1.55085	0.746	3.45	1.153	1.15949
1394	493877.33	3860602.55	1.11785	1.1193	1.10215	1.50975	0.734	3.261	1.1256	1.1193
1395	493927.33	3860602.55	1.1138	1.0939	1.10238	1.45924	0.721	3.332	1.1037	1.0939
1396	493977.33	3860602.55	1.1103	1.06954	1.10911	1.43382	0.723	3.53	1.0737	1.06954
1397	494027.33	3860602.55	1.10275	1.05482	1.1166	1.40754	0.695	3.535	1.0747	1.05482
1398	493627.33	3860652.55	1.15208	1.26579	1.07655	1.54935	0.63	3.319	1.2536	1.26579
1399	493727.33	3860652.55	1.12688	1.28885	1.05776	1.48292	0.678	3.251	1.2934	1.28885
1400	493777.33	3860652.55	1.11141	1.2528	1.06253	1.52731	0.711	3.177	1.2516	1.2528
1401	493827.33	3860652.55	1.09753	1.22082	1.06946	1.54818	0.731	3.007	1.2066	1.22082
1402	493877.33	3860652.55	1.09026	1.16971	1.06046	1.5542	0.739	3.124	1.1598	1.16971
1403	493927.33	3860652.55	1.08579	1.13938	1.06257	1.51386	0.734	3.231	1.1367	1.13938
1404	493977.33	3860652.55	1.08104	1.11445	1.06717	1.47475	0.721	3.289	1.1255	1.11445
1405	494027.33	3860652.55	1.07875	1.07326	1.0519	1.46224	0.708	3.298	1.0976	1.07326
1406	494311.06	3858401.99	0.85056	0.17248	0.5889	0.56422	1.836	0.499	0.1987	0.17248
1407	494361.06	3858401.99	0.82351	0.17215	0.58252	0.55465	1.827	0.491	0.199	0.17215
1408	494411.06	3858401.99	0.80896	0.17149	0.57208	0.54628	1.835	0.49	0.2007	0.17149
1409	494461.06	3858401.99	0.80374	0.17084	0.5647	0.54174	1.855	0.515	0.2008	0.17084
1410	494511.06	3858401.99	0.78606	0.16994	0.55458	0.53176	1.842	0.515	0.198	0.16994
1411	494561.06	3858401.99	0.78189	0.16924	0.54294	0.5278	1.801	0.523	0.1946	0.16924
1412	494611.06	3858401.99	0.76315	0.16915	0.5325	0.52392	1.759	0.525	0.1902	0.16915

12.3456531	1.733727598	0.0001215	0.097384	0.412597	1.014416	6.503157	6.38308777	15.72397
12.3646426	1.730957209	0.0001204	0.096247	0.403064	1.027877	6.356986	6.37288799	15.60701
12.3156039	1.695533175	0.0001192	0.094783	0.396602	1.016674	6.258216	6.24246686	15.53506
12.5812477	1.969450721	0.000132	0.108828	0.355206	0.789128	7.58417	7.2509527	16.13721
12.4950647	1.941118882	0.0001284	0.10652	0.361194	0.786549	7.442605	7.14664299	15.98654
12.4593812	1.9048822	0.0001247	0.105803	0.359497	0.802192	7.19568	7.01322992	15.81433
12.3400189	1.874943535	0.0001228	0.104462	0.362953	0.791706	7.052485	6.90300435	15.62369
12.2523753	1.842677743	0.0001229	0.10235	0.371271	0.786798	6.92098	6.78421096	15.49236
12.2370376	1.813754887	0.0001208	0.099445	0.383388	0.792238	6.74335	6.6777253	15.39161
12.2504972	1.787473135	0.0001187	0.096476	0.394628	0.796285	6.537379	6.58096342	15.28189
12.1610798	1.739914799	0.0001174	0.09439	0.401807	0.798065	6.407292	6.40586727	15.1968
12.5089416	1.972830595	0.0001378	0.096391	0.361513	0.681474	7.736364	7.26339643	16.09426
12.3710072	1.957870497	0.000135	0.096859	0.347122	0.674647	7.691726	7.20831764	15.93105
12.2985968	1.926860615	0.0001314	0.097264	0.343933	0.668961	7.580769	7.09414815	15.82237
12.2717821	1.891122604	0.0001285	0.097611	0.351614	0.666361	7.418585	6.96257104	15.73463
12.2204479	1.875220574	0.0001254	0.097412	0.34851	0.660491	7.245986	6.90402432	15.54417
12.2304643	1.846851795	0.0001218	0.098433	0.355567	0.666817	6.990417	6.79957862	15.38909
12.1564889	1.820366881	0.0001187	0.096566	0.363609	0.684168	6.828729	6.70206876	15.24798
12.0811571	1.79604287	0.0001169	0.09466	0.372706	0.68766	6.675827	6.61251473	15.09566
12.438618	2.066358911	0.0001279	0.082602	0.358217	0.600429	7.828119	7.60774086	15.76673
12.3233249	2.057124283	0.0001296	0.083889	0.353706	0.591255	7.821955	7.57374161	15.65764
12.2402721	2.01843119	0.0001308	0.085428	0.352866	0.580539	7.71029	7.43128474	15.55667
12.1613928	1.976967709	0.0001298	0.086148	0.339671	0.570084	7.620447	7.27862809	15.47621
12.1189273	1.903866391	0.00013	0.086358	0.335545	0.571431	7.444376	7.00949001	15.45114
12.0968078	1.847073426	0.0001283	0.08701	0.342846	0.588604	7.242939	6.8003946	15.40501
12.006347	1.829287532	0.0001257	0.08757	0.339793	0.598539	7.155222	6.73491204	15.28197
11.9464571	1.807549217	0.0001226	0.088292	0.346564	0.58776	7.007705	6.6548778	15.12957
12.3528524	2.197786142	0.0001227	0.088473	0.359727	0.534085	8.150999	8.09161823	15.59243
12.2515405	2.179187601	0.0001211	0.086096	0.362259	0.525787	8.191456	8.02314374	15.5733
12.1595147	2.161789561	0.000121	0.082703	0.356477	0.521745	8.217247	7.95908914	15.54051
12.1000422	2.108727386	0.0001206	0.080566	0.350423	0.523711	8.062503	7.76372944	15.46236
12.0630023	2.048886995	0.0001212	0.078453	0.34511	0.524844	7.818625	7.54341428	15.33563
11.9802625	2.017784766	0.0001226	0.076517	0.345317	0.524204	7.756415	7.42890479	15.27172
11.9395708	1.973735589	0.0001239	0.076123	0.332909	0.531517	7.5119	7.26672836	15.09915
11.9091042	1.90314609	0.0001247	0.0765	0.327338	0.540213	7.312022	7.00683806	15.06161
11.8218779	1.873152017	0.0001242	0.077282	0.332769	0.54071	7.196459	6.89640849	14.94597
12.1804866	2.22717073	0.0001174	0.089491	0.327432	0.486648	8.530774	8.19980386	15.64232
11.7716915	2.253341666	0.0001157	0.08634	0.349654	0.479943	8.58937	8.29615774	15.2343
11.7392425	2.172538668	0.0001168	0.083892	0.353856	0.490915	8.276906	7.99866428	15.1188
11.6848825	2.141491848	0.0001156	0.08169	0.349893	0.485326	8.169421	7.88435879	15.02846
11.663389	2.067263905	0.0001147	0.079525	0.344252	0.458794	7.974928	7.61107279	14.97719
11.6211322	2.020351993	0.0001148	0.076864	0.33787	0.468673	7.820113	7.43835658	14.90676
11.584614	1.975360883	0.0001155	0.075525	0.338869	0.496535	7.60741	7.27271222	14.80572
11.5058391	1.948174138	0.0001162	0.074141	0.325964	0.497317	7.61485	7.17261842	14.79378
12.0205369	2.337820047	0.0001121	0.081611	0.295269	0.466951	8.882067	8.60718291	15.47718
11.7576059	2.380410153	0.0001101	0.078111	0.318049	0.457348	9.163993	8.76398746	15.39164
11.5961955	2.313828482	0.0001106	0.08045	0.333209	0.446924	8.868038	8.51885285	15.1199
11.4513748	2.254763799	0.0001113	0.081549	0.34271	0.422981	8.548913	8.30139362	14.80101
11.3755213	2.160367428	0.0001104	0.081866	0.346738	0.439482	8.217672	7.95385326	14.6679
11.3288823	2.104350172	0.0001106	0.079741	0.344074	0.454476	8.053646	7.74761379	14.61767
11.2793219	2.058306315	0.0001111	0.077681	0.337861	0.462681	7.974786	7.57809351	14.61266
11.2554286	1.982231447	0.0001095	0.077022	0.331826	0.463918	7.777034	7.29800767	14.58956
8.87454679	0.31855774	6.131E-05	0.02972	0.861048	0.07022	1.407932	1.17283823	10.38925
8.59231333	0.317948254	6.064E-05	0.029216	0.856865	0.069069	1.409845	1.17059428	10.10472
8.44050199	0.316729284	5.956E-05	0.028775	0.860439	0.068924	1.42189	1.16610638	9.971212
8.38603771	0.315528782	5.879E-05	0.028536	0.869812	0.072511	1.422457	1.16168648	9.933255
8.20156867	0.313866549	5.774E-05	0.02801	0.863895	0.072506	1.402901	1.15556661	9.727238
8.15805985	0.312573701	5.652E-05	0.027801	0.844383	0.07353	1.378811	1.15080672	9.644409
7.96253102	0.312407477	5.544E-05	0.027597	0.824674	0.07381	1.347494	1.15019473	9.398374

1413	494661.06	3858401.99	0.74744	0.16831	0.52705	0.52051	1.71	0.506	0.1878	0.16831	7.7986165	0.31085606	5.487E-05	0.027417	0.802053	0.071244	1.330631	1.14448286	9.19639
1414	494711.06	3858401.99	0.7201	0.16704	0.51156	0.51381	1.648	0.493	0.183	0.16704	7.51335725	0.308510464	5.326E-05	0.027064	0.772905	0.069398	1.296904	1.13584705	8.852346
1415	494761.06	3858401.99	0.71145	0.16565	0.50129	0.50996	1.63	0.504	0.1825	0.16565	7.42310515	0.305943238	5.219E-05	0.026862	0.76423	0.070832	1.292724	1.12639525	8.757353
1416	494811.06	3858401.99	0.69681	0.16296	0.48491	0.50437	1.609	0.507	0.1805	0.16296	7.27035476	0.300975008	5.048E-05	0.026567	0.754664	0.071365	1.278978	1.10810366	8.594852
1417	494861.06	3858401.99	0.68596	0.16013	0.4759	0.49914	1.592	0.505	0.178	0.16013	7.15714837	0.295748208	4.954E-05	0.026292	0.74644	0.071107	1.261336	1.08886008	8.469261
1418	494911.06	3858401.99	0.67461	0.15516	0.47068	0.4931	1.566	0.519	0.1764	0.15516	7.03872509	0.286568987	4.9E-05	0.025974	0.734445	0.072942	1.249574	1.05506482	8.353213
1419	494961.06	3858401.99	0.66449	0.15029	0.46717	0.48614	1.525	0.526	0.1765	0.15029	6.93313534	0.277574459	4.864E-05	0.025607	0.715031	0.07405	1.250354	1.02194955	8.253851
1420	495011.06	3858401.99	0.65162	0.14869	0.4494	0.47852	1.469	0.501	0.1743	0.14869	6.79885273	0.274619378	4.679E-05	0.025206	0.689006	0.07048	1.234837	1.01106979	8.081978
1421	495061.06	3858401.99	0.63997	0.14978	0.44075	0.47118	1.424	0.512	0.1749	0.14978	6.67729932	0.276632527	4.588E-05	0.024819	0.667807	0.071988	1.239017	1.01848162	7.939127
1422	495111.06	3858401.99	0.61421	0.14876	0.43146	0.44776	1.359	0.508	0.1736	0.14876	6.40852542	0.274748663	4.492E-05	0.023585	0.637111	0.071463	1.229664	1.01154578	7.633597
1423	495161.06	3858401.99	0.61071	0.15058	0.42797	0.44483	1.365	0.517	0.1764	0.15058	6.37200723	0.278110068	4.455E-05	0.023431	0.640154	0.072774	1.249787	1.02392151	7.612387
1424	495211.06	3858401.99	0.59036	0.14569	0.42144	0.42863	1.33	0.529	0.1718	0.14569	6.15968002	0.269078601	4.387E-05	0.022578	0.623658	0.07437	1.217123	0.99067024	7.375861
1425	495261.06	3858401.99	0.57926	0.14475	0.40946	0.41957	1.319	0.558	0.1692	0.14475	6.04386519	0.267342491	4.263E-05	0.0221	0.618364	0.078482	1.198985	0.98427838	7.244902
1426	495311.06	3858401.99	0.56884	0.14318	0.40712	0.4119	1.299	0.567	0.1676	0.14318	5.93514531	0.264442818	4.238E-05	0.021696	0.609332	0.079694	1.187436	0.97360261	7.124187
1427	495361.06	3858401.99	0.55985	0.14119	0.40486	0.40753	1.293	0.598	0.1661	0.14119	5.84134572	0.260767436	4.215E-05	0.021466	0.606191	0.084066	1.17702	0.96007091	7.030828
1428	495411.06	3858401.99	0.55755	0.1417	0.40452	0.40433	1.291	0.606	0.1642	0.1417	5.81734806	0.261709368	4.211E-05	0.021298	0.605229	0.085266	1.163133	0.96353883	6.990487
1429	495461.06	3858401.99	0.55599	0.14222	0.4035	0.40692	1.286	0.616	0.1632	0.14222	5.80107138	0.262669769	4.201E-05	0.021434	0.602889	0.086608	1.156047	0.96707475	6.963688
1430	495511.06	3858401.99	0.55205	0.14274	0.40129	0.40302	1.28	0.621	0.1622	0.14274	5.75996232	0.26363017	4.178E-05	0.021229	0.600165	0.087306	1.149458	0.97061068	6.911182
1431	495561.06	3858401.99	0.54236	0.14347	0.39418	0.39431	1.25	0.658	0.1616	0.14347	5.6588591	0.264978426	4.104E-05	0.02077	0.585924	0.092522	1.144923	0.97557457	6.792444
1432	495611.06	3858401.99	0.54175	0.14275	0.39434	0.39291	1.247	0.746	0.1611	0.14275	5.6524945	0.26364864	4.105E-05	0.020696	0.584906	0.104893	1.141381	0.97067867	6.797382
1433	495661.06	3858401.99	0.54575	0.14237	0.40276	0.39398	1.264	0.806	0.1617	0.14237	5.69422958	0.262946808	4.193E-05	0.020753	0.592667	0.113393	1.145561	0.96809473	6.861497
1434	494311.06	3858451.99	0.90406	0.1837	0.59915	0.57467	1.88	0.532	0.2039	0.1837	9.43275344	0.339280246	6.238E-05	0.03027	0.881587	0.074859	1.444351	1.24913256	10.95403
1435	494361.06	3858451.99	0.88868	0.18087	0.57004	0.56488	1.862	0.529	0.2016	0.18087	9.27228207	0.334053446	5.934E-05	0.029755	0.873156	0.074354	1.428409	1.22988898	10.78218
1436	494411.06	3858451.99	0.87958	0.18151	0.55979	0.55469	1.829	0.534	0.2006	0.18151	9.17733477	0.335235479	5.828E-05	0.029218	0.857794	0.07506	1.421111	1.23424088	10.66157
1437	494461.06	3858451.99	0.87005	0.17951	0.5566	0.54864	1.799	0.567	0.2014	0.17951	9.07790095	0.331541627	5.795E-05	0.028899	0.843736	0.079783	1.427133	1.22064118	10.56841
1438	494511.06	3858451.99	0.86516	0.17852	0.55524	0.54681	1.789	0.57	0.2042	0.17852	9.02687982	0.329713171	5.78E-05	0.028803	0.83899	0.08022	1.446547	1.21390933	10.5373
1439	494561.06	3858451.99	0.84366	0.17266	0.54974	0.53028	1.758	0.561	0.2032	0.17266	8.80255378	0.318890187	5.723E-05	0.027932	0.824477	0.078881	1.439533	1.17406221	10.31826
1440	494611.06	3858451.99	0.82756	0.17115	0.53395	0.5219	1.757	0.557	0.2031	0.17115	8.6345701	0.316101329	5.559E-05	0.027491	0.82368	0.078361	1.439108	1.16379443	10.15557
1441	494661.06	3858451.99	0.81037	0.17046	0.52037	0.51493	1.758	0.552	0.1974	0.17046	8.4552136	0.31482695	5.417E-05	0.027123	0.82444	0.077719	1.398438	1.15910254	9.938712
1442	494711.06	3858451.99	0.79111	0.17037	0.51653	0.50972	1.76	0.546	0.1925	0.17037	8.25425921	0.314660727	5.377E-05	0.026849	0.825134	0.076774	1.363578	1.15849055	9.702817
1443	494761.06	3858451.99	0.77457	0.17034	0.51616	0.50073	1.759	0.525	0.1892	0.17034	8.08168466	0.314605319	5.374E-05	0.026375	0.824955	0.07379	1.340267	1.15828655	9.503445
1444	494811.06	3858451.99	0.75815	0.17027	0.5078	0.49388	1.723	0.55	0.1869	0.17027	7.91036217	0.314476034	5.287E-05	0.026015	0.807891	0.077405	1.3239	1.15781056	9.302292
1445	494861.06	3858451.99	0.73626	0.16696	0.4955	0.48788	1.684	0.544	0.1851	0.16696	7.68196696	0.30836271	5.158E-05	0.025699	0.789594	0.076522	1.311217	1.13530306	9.05811
1446	494911.06	3858451.99	0.71389	0.16367	0.47336	0.48194	1.614	0.552	0.1824	0.16367	7.44856354	0.302286325	4.928E-05	0.025386	0.757028	0.077715	1.292086	1.11293155	8.790182
1447	494961.06	3858451.99	0.69496	0.15746	0.46861	0.47697	1.577	0.542	0.1776	0.15746	7.25105229	0.290816916	4.879E-05	0.025124	0.739495	0.076291	1.258431	1.07070448	8.570555
1448	495011.06	3858451.99	0.67777	0.15299	0.45836	0.47092	1.526	0.522	0.175	0.15299	7.0716958	0.282561159	4.772E-05	0.024805	0.715411	0.073407	1.239938	1.04030915	8.367558
1449	495061.06	3858451.99	0.6703	0.14993	0.45684	0.46739	1.52	0.536	0.1762	0.14993	6.99375554	0.276909566	4.756E-05	0.024619	0.712954	0.075451	1.248653	1.0195016	8.312889
1450	495111.06	3858451.99	0.65654	0.14933	0.4512	0.46089	1.488	0.542	0.1751	0.14933	6.85018687	0.275801411	4.697E-05	0.024277	0.6977	0.076208	1.240434	1.01542169	8.149233
1451	495161.06	3858451.99	0.64122	0.14994	0.44634	0.45293	1.438	0.552	0.1738	0.14994	6.69034153	0.276928035	4.647E-05	0.023858	0.674536	0.077632	1.231152	1.0195696	7.954924
1452	495211.06	3858451.99	0.62184	0.14952	0.43962	0.43801	1.363	0.575	0.1734	0.14952	6.48813508	0.276152327	4.577E-05	0.023072	0.639043	0.080829	1.228602	1.01671366	7.719165
1453	495261.06	3858451.99	0.61028	0.15065	0.43582	0.42744	1.32	0.616	0.1742	0.15065	6.36752071	0.278239353	4.537E-05	0.022515	0.618842	0.086613	1.234341	1.02439749	7.583718
1454	495311.06	3858451.99	0.60146	0.15159	0.42867	0.42093	1.292	0.62	0.175	0.15159	6.27549486	0.279975463	4.463E-05	0.022172	0.605914	0.087156	1.240222	1.03078935	7.480189
1455	495361.06	3858451.99	0.5947	0.14731	0.43007	0.41552	1.277	0.615	0.1735	0.14731	6.20496258	0.272070621	4.477E-05	0.021887	0.598791	0.086556	1.229452	1.00168599	7.412078
1456	495411.06	3858451.99	0.59346	0.14726	0.42853	0.41269	1.284	0.64	0.1727	0.14726	6.19202471	0.271978274	4.461E-05	0.021738	0.602031	0.090085	1.223925	1.001346	7.400481
1457	495461.06	3858451.99	0.59136	0.14811	0.429	0.41112	1.296	0.656	0.1712	0.14811	6.17011379	0.273548161	4.466E-05	0.021655	0.607869	0.092325	1.213014	1.00712587	7.371445
1458	495511.06	3858451.99	0.58302	0.14641	0.42912	0.40641	1.288	0.722	0.1675	0.14641	6.08309616	0.270408388	4.467E-05	0.021407	0.603851	0.101588	1.18694	0.99556613	7.271768
1459	495561.06	3858451.99	0.5844	0.14798	0.43382	0.40812	1.299	0.773	0.1666	0.14798	6.09749476	0.273308061	4.516E-05	0.021497	0.609126	0.108804	1.180492	1.00624189	7.284526
1460	495611.06	3858451.99	0.57456	0.14694	0.42909	0.4019	1.285	0.809	0.1645	0.14694	5.99482647	0.271387258	4.467E-05	0.02117	0.602496	0.113826	1.165825	0.99917005	7.170405
1461	495661.06	3858451.99	0.57361	0.1477	0.42922	0.40137	1.277	0.888	0.1637	0.1477	5.98491439	0.272790922	4.468E-05	0.021142	0.599016	0.124912	1.159732	1.00433794	7.158213
1462	494311.06	3858501.99	0.91566	0.19674	0.60112	0.5928	1.855	0.547	0.2173	0.19674	9.55378517	0.363364157	6.258E-05	0.031225	0.869723	0.076986	1.539507	1.33780261	11.09685
1463	494361.06	3858501.99	0.90731	0.19426	0.58862	0.58115	1.853	0.552	0.2098	0.19426	9.46666319	0.358783781	6.128E-05	0.030612	0.868687	0.077659	1.486792	1.32093898	10.96832
1464	494411.06	3858501.99	0.89882	0.18646	0.58163	0.56868	1.848	0.562	0.2065	0.18646	9.37808049	0.344377761	6.055E-05	0.029955	0.866366	0.078996	1.462773	1.26790015	10.89271
1465	494461.06	3858501.99	0.89414	0.18355	0.57771	0.56201	1.846	0.597	0.2043	0.18355	9.32925045	0.339003207	6.014E-05	0.029603	0.865526	0.083941	1.447256	1.24811258	10.84653
1466	494511.06	3858501.99	0.88016	0.18251	0.56716	0.55284	1.83	0.594	0.2004	0.18251	9.18338636	0.337082404	5.904E-05	0.02912	0.8583	0.083502	1.419906	1.24104074	10.67032
1467	494561.06	3858501.99	0.8813	0.18481	0.56601	0.55316	1.824	0.602	0.2026	0.18481	9.19528086	0.341330333	5.893E-05	0.029137	0.855177	0.084736	1.435352	1.25668039	10.68439
1468	494611.06	3858501.99	0.87182	0.18341	0.54578	0.54746	1.81	0.604	0.2041	0.18341	9.09636872	0.338744638	5.682E-05	0.028837	0.848781	0.085023	1.446193	1.2471606	10.59684
1469	494661.06	3858501.99	0.86673	0.18339	0.53295	0.54099	1.796	0.607	0.2043	0.18339	9.04326084	0.338707699	5.548E-05	0.028496	0.842038	0.085394	1.447185	1.2470246	10.53811
1470	494711.06	3858501.99	0.85683	0.17929	0.5241	0.53584	1.755	0.607	0.2038	0.17929	8.93996652	0.331135304	5.456E-05	0.028225	0.823089	0.085337	1.443713	1.21914522	10.43238
1471	494761.06	3858501.99	0.83249	0.17192	0.51314	0.51435	1.706	0.587	0.1978	0.17192	8.68600858	0.317523462	5.342E-05	0.027093	0.79976	0.082634	1.401414	1.16903032	10.14546

1472	494811.06	3858501.99	0.80522	0.17149	0.50928	0.50768	1.678	0.574	0.1931	0.17149	8.40147969	0.316729284	5.302E-05	0.026742	0.786785	0.08069	1.368183	1.16610638	9.814556
1473	494861.06	3858501.99	0.79132	0.17141	0.5003	0.50094	1.672	0.592	0.1925	0.17141	8.2564503	0.316581529	5.208E-05	0.026387	0.783981	0.083248	1.364074	1.16556239	9.665211
1474	494911.06	3858501.99	0.76029	0.17117	0.49178	0.48083	1.652	0.566	0.1873	0.17117	7.93269044	0.316138267	5.12E-05	0.025327	0.774486	0.079621	1.326876	1.16393043	9.291259
1475	494961.06	3858501.99	0.74525	0.16563	0.47974	0.47342	1.644	0.567	0.1853	0.16563	7.77576655	0.305906299	4.994E-05	0.024937	0.771025	0.079763	1.312563	1.12625926	9.143752
1476	495011.06	3858501.99	0.7146	0.16003	0.47881	0.46262	1.603	0.547	0.1807	0.16003	7.45597152	0.295563515	4.985E-05	0.024368	0.751452	0.076916	1.280041	1.08818009	8.796182
1477	495061.06	3858501.99	0.70721	0.15707	0.4785	0.45887	1.583	0.571	0.1777	0.15707	7.37886596	0.290096615	4.981E-05	0.024171	0.742524	0.080256	1.258927	1.06805254	8.706837
1478	495111.06	3858501.99	0.67753	0.15157	0.4709	0.45036	1.526	0.566	0.1742	0.15157	7.06919169	0.279938524	4.902E-05	0.023722	0.715514	0.079575	1.234128	1.03065336	8.371465
1479	495161.06	3858501.99	0.66335	0.149	0.47119	0.44672	1.48	0.593	0.1732	0.149	6.92124084	0.275191925	4.905E-05	0.023531	0.693766	0.083363	1.227184	1.01317774	8.211148
1480	495211.06	3858501.99	0.65016	0.14949	0.4718	0.44315	1.434	0.615	0.1729	0.14949	6.78361943	0.276096919	4.912E-05	0.023343	0.672571	0.086489	1.224988	1.01650967	8.050646
1481	495261.06	3858501.99	0.64267	0.14989	0.46783	0.44085	1.41	0.629	0.1734	0.14989	6.7054705	0.276835689	4.87E-05	0.023221	0.661078	0.088477	1.22846	1.01922961	7.964361
1482	495311.06	3858501.99	0.63883	0.15046	0.46642	0.4398	1.407	0.641	0.1751	0.15046	6.66540482	0.277888437	4.856E-05	0.023166	0.659535	0.090241	1.240505	1.02310552	7.933683
1483	495361.06	3858501.99	0.63398	0.15198	0.46943	0.4388	1.404	0.679	0.1768	0.15198	6.61480104	0.280695764	4.887E-05	0.023113	0.65847	0.095496	1.252338	1.0334413	7.891522
1484	495411.06	3858501.99	0.63129	0.15364	0.46337	0.43573	1.398	0.746	0.179	0.15364	6.5867342	0.28376166	4.824E-05	0.022952	0.655483	0.104901	1.26828	1.04472905	7.87743
1485	495461.06	3858501.99	0.62768	0.15534	0.46033	0.433	1.375	0.766	0.1809	0.15534	6.54906829	0.286901434	4.792E-05	0.022808	0.644783	0.107707	1.281671	1.05628879	7.836697
1486	495511.06	3858501.99	0.62156	0.15695	0.4585	0.42771	1.338	0.799	0.1811	0.15695	6.48521363	0.289874984	4.773E-05	0.022529	0.627625	0.112459	1.282946	1.06723655	7.753459
1487	495561.06	3858501.99	0.62316	0.15872	0.45933	0.42567	1.35	0.888	0.1818	0.15872	6.50190766	0.293144043	4.782E-05	0.022422	0.632928	0.124975	1.287977	1.07927229	7.784129
1488	495611.06	3858501.99	0.6151	0.15848	0.45134	0.41987	1.265	0.947	0.1792	0.15848	6.41781148	0.292700781	4.699E-05	0.022116	0.592948	0.133233	1.26998	1.07764033	7.651196
1489	495661.06	3858501.99	0.61172	0.15817	0.45614	0.41787	1.321	0.961	0.1791	0.15817	6.38254534	0.292128234	4.749E-05	0.022011	0.619574	0.135227	1.268988	1.07553237	7.644989
1490	494311.06	3858551.99	0.91495	0.19649	0.58143	0.60785	1.796	0.564	0.2254	0.19649	9.54637719	0.362902425	6.053E-05	0.032018	0.842245	0.079385	1.597253	1.33610265	11.12414
1491	494361.06	3858551.99	0.91995	0.19817	0.56319	0.61152	1.812	0.572	0.2253	0.19817	9.59854604	0.36600526	5.863E-05	0.032211	0.849813	0.080476	1.596403	1.3475264	11.17599
1492	494411.06	3858551.99	0.93294	0.19884	0.5773	0.62276	1.845	0.612	0.2248	0.19884	9.7340807	0.367242701	6.01E-05	0.032803	0.864982	0.08615	1.592647	1.3520823	11.32588
1493	494461.06	3858551.99	0.93226	0.1974	0.55849	0.61807	1.836	0.643	0.2208	0.1974	9.72698574	0.364583128	5.814E-05	0.032556	0.860903	0.090464	1.564093	1.34229051	11.29735
1494	494511.06	3858551.99	0.92332	0.19153	0.54807	0.61149	1.818	0.649	0.2151	0.19153	9.63370784	0.353741674	5.706E-05	0.03221	0.852659	0.091256	1.523849	1.30237539	11.1851
1495	494561.06	3858551.99	0.91652	0.1878	0.5442	0.60716	1.802	0.646	0.2112	0.1878	9.56275821	0.346852641	5.665E-05	0.031982	0.844833	0.090861	1.496286	1.27701194	11.09662
1496	494611.06	3858551.99	0.90401	0.18599	0.5351	0.599	1.798	0.629	0.2092	0.18599	9.43223176	0.343509706	5.571E-05	0.031552	0.842887	0.08842	1.48247	1.26470422	10.95642
1497	494661.06	3858551.99	0.89375	0.18713	0.54359	0.59191	1.795	0.66	0.2072	0.18713	9.32518128	0.345615201	5.659E-05	0.031178	0.841541	0.092804	1.468016	1.27245605	10.83194
1498	494711.06	3858551.99	0.87261	0.18766	0.54622	0.5801	1.783	0.659	0.2051	0.18766	9.1046114	0.346594072	5.686E-05	0.030556	0.836139	0.092718	1.453278	1.27605997	10.58789
1499	494761.06	3858551.99	0.85963	0.18861	0.54428	0.57152	1.771	0.647	0.2037	0.18861	8.96918108	0.348348651	5.666E-05	0.030104	0.830287	0.090979	1.443217	1.28251982	10.42965
1500	494811.06	3858551.99	0.85184	0.18262	0.54538	0.56432	1.75	0.636	0.2038	0.18262	8.88790201	0.337285566	5.678E-05	0.029725	0.820637	0.089415	1.443855	1.24178872	10.36709
1501	494861.06	3858551.99	0.84199	0.17758	0.54562	0.54349	1.731	0.632	0.1987	0.17758	8.78512939	0.327977061	5.68E-05	0.028628	0.811844	0.088937	1.407578	1.20751747	10.24263
1502	494911.06	3858551.99	0.81978	0.1724	0.54553	0.51548	1.676	0.64	0.1946	0.1724	8.55339537	0.318409986	5.679E-05	0.027152	0.786138	0.090068	1.379095	1.17229425	9.982021
1503	494961.06	3858551.99	0.79688	0.17223	0.54545	0.50354	1.624	0.624	0.1936	0.17223	8.31446205	0.318096009	5.678E-05	0.026524	0.761431	0.087797	1.371726	1.17113827	9.708954
1504	495011.06	3858551.99	0.77014	0.17043	0.53859	0.48949	1.594	0.597	0.1875	0.17043	8.03546306	0.314771542	5.607E-05	0.025783	0.747542	0.08403	1.328434	1.15889854	9.377181
1505	495061.06	3858551.99	0.75169	0.16571	0.52713	0.47883	1.587	0.606	0.1851	0.16571	7.84296002	0.306054053	5.488E-05	0.025222	0.744259	0.085272	1.311713	1.12680324	9.188732
1506	495111.06	3858551.99	0.71044	0.15833	0.51393	0.46319	1.565	0.596	0.1803	0.15833	7.41256704	0.292423742	5.35E-05	0.024398	0.733821	0.083833	1.27742	1.07662035	8.747896
1507	495161.06	3858551.99	0.69032	0.15287	0.51175	0.45328	1.558	0.621	0.1752	0.15287	7.2026396	0.282339528	5.328E-05	0.023876	0.73036	0.087351	1.241426	1.03949316	8.528553
1508	495211.06	3858551.99	0.67635	0.15089	0.50638	0.44387	1.516	0.65	0.1733	0.15089	7.05687984	0.278682615	5.272E-05	0.02338	0.711055	0.091421	1.228035	1.02602946	8.363477
1509	495261.06	3858551.99	0.67043	0.14942	0.5017	0.43856	1.47	0.696	0.1732	0.14942	6.99511193	0.275967634	5.223E-05	0.023101	0.689513	0.097947	1.226901	1.01603368	8.29256
1510	495311.06	3858551.99	0.66799	0.1506	0.49796	0.43704	1.464	0.753	0.1751	0.1506	6.96965353	0.278147006	5.184E-05	0.023021	0.686324	0.105884	1.240434	1.0240575	8.279458
1511	495361.06	3858551.99	0.66342	0.15098	0.49459	0.43506	1.461	0.786	0.1769	0.15098	6.92197121	0.278848838	5.149E-05	0.022916	0.685222	0.110504	1.253046	1.02664145	8.245918
1512	495411.06	3858551.99	0.66166	0.15171	0.4865	0.43497	1.454	0.819	0.1793	0.15171	6.90360777	0.280197094	5.065E-05	0.022912	0.682029	0.115185	1.270334	1.03160534	8.24271
1513	495461.06	3858551.99	0.65748	0.15323	0.47988	0.43415	1.441	0.876	0.181	0.15323	6.85999462	0.283004421	4.996E-05	0.022868	0.675722	0.123219	1.282238	1.04194111	8.205155
1514	495511.06	3858551.99	0.65771	0.15491	0.47536	0.43479	1.435	0.93	0.1835	0.15491	6.86239438	0.286107256	4.949E-05	0.022902	0.672735	0.130774	1.29988	1.05336486	8.221477
1515	495561.06	3858551.99	0.65399	0.1565	0.46729	0.43554	1.428	0.964	0.1847	0.1565	6.82358076	0.289043868	4.865E-05	0.022942	0.669828	0.135628	1.30895	1.06417662	8.185844
1516	495611.06	3858551.99	0.64945	0.15804	0.46433	0.43595	1.428	0.987	0.1844	0.15804	6.77621145	0.291888133	4.834E-05	0.022963	0.669467	0.138801	1.306186	1.07464839	8.130916
1517	495661.06	3858551.99	0.64424	0.15839	0.46524	0.43608	1.42	1.002	0.1837	0.15839	6.72185151	0.292534557	4.843E-05	0.02297	0.665861	0.140999	1.301793	1.07702834	8.069029
1518	494311.06	3858601.99	0.87778	0.18095	0.54858	0.60385	1.708	0.58	0.2159	0.18095	9.15855399	0.3342012	5.711E-05	0.031807	0.800726	0.081582	1.529729	1.23043297	10.70622
1519	494361.06	3858601.99	0.93283	0.20026	0.56961	0.6306	1.761	0.614	0.2262	0.20026	9.73293299	0.369865335	5.93E-05	0.033216	0.825814	0.086392	1.602425	1.36173808	11.28897
1520	494411.06	3858601.99	0.99063	0.2024	0.5994	0.6463	1.851	0.641	0.2364	0.2024	10.3360048	0.373817756	6.24E-05	0.034043	0.868035	0.090166	1.675263	1.37628976	12.0011
1521	494461.06	3858601.99	0.98982	0.20358	0.60607	0.64388	1.855	0.679	0.2326	0.20358	10.3275535	0.375997128	6.31E-05	0.033916	0.869784	0.09553	1.648055	1.38431359	11.96659
1522	494511.06	3858601.99	0.97458	0.20227	0.60619	0.62584	1.855	0.698	0.2288	0.20227	10.1685429	0.373577656	6.311E-05	0.032966	0.869803	0.098182	1.620847	1.37540578	11.78858
1523	494561.06	3858601.99	0.97628	0.20276	0.61112	0.6277	1.849	0.69	0.2282	0.20276	10.1862803	0.374482649	6.362E-05	0.033064	0.867102	0.097134	1.616808	1.37873771	11.7962
1524	494611.06	3858601.99	0.95632	0.19406	0.61024	0.61891	1.83	0.663	0.2223	0.19406	9.97802223	0.358414396	6.353E-05	0.032601	0.858352	0.093268	1.574721	1.31957901	11.57586
1525	494661.06	3858601.99	0.9444	0.1901	0.61748	0.60976	1.808	0.694	0.2182	0.1901	9.8536517	0.35110057	6.428E-05	0.032119	0.847933	0.097657	1.545884	1.2926516	11.43576
1526	494711.06	3858601.99	0.92464	0.18795	0.6216	0.59761	1.783	0.7	0.2138	0.18795	9.64748042	0.34712968	6.471E-05	0.031479	0.836224	0.098541	1.514779	1.27803192	11.19766
1527	494761.06	3858601.99	0.90694	0.18858	0.61766	0.58508	1.757	0.698	0.2096	0.18858	9.4628027	0.348293243	6.43E-05	0.030819	0.823975	0.09819	1.485304	1.28231583	10.96713
1528	494811.06	3858601.99	0.8723	0.18786	0.59881	0.55436	1.72	0.704	0.2039	0.18786	9.10137693	0.346963457	6.234E-05	0.0292	0.806715	0.098986	1.444705	1.27741994	10.55059
1529	494861.06	3858601.99	0.85664	0.18869	0.58301	0.5489	1.711	0.713	0.2044	0.18869	8.93798411	0.348496405	6.069E-05	0.028913	0.802157	0.100337	1.448531	1.28306381	10.38341
1530	494911.06	3858601.99	0.8372	0.18277	0.56545	0.5388	1.695	0.682	0.2027	0.18277	8.73515163	0.337562605	5.887E-05	0.028381	0.794748	0.095896	1.435848	1.2428087	10.18484

1531	494961.06	3858601.99	0.82706	0.17661	0.55518	0.53033	1.685	0.679	0.1972	0.17661	8.62935321	0.326185543	5.78E-05	0.027935	0.789946	0.095506	1.39695	1.20092162	10.06501
1532	495011.06	3858601.99	0.81521	0.17296	0.54543	0.51336	1.664	0.654	0.1953	0.17296	8.50571304	0.319444264	5.678E-05	0.027041	0.780235	0.091982	1.3837	1.17610216	9.93207
1533	495061.06	3858601.99	0.79717	0.17273	0.53841	0.50394	1.611	0.637	0.1928	0.17273	8.31748785	0.319019471	5.605E-05	0.026545	0.755649	0.089677	1.366128	1.1745382	9.700024
1534	495111.06	3858601.99	0.75562	0.16657	0.5353	0.4759	1.529	0.625	0.1877	0.16657	7.88396473	0.307642409	5.573E-05	0.025068	0.716935	0.087958	1.330064	1.13265112	9.219036
1535	495161.06	3858601.99	0.73105	0.16338	0.5331	0.4697	1.488	0.697	0.1848	0.16338	7.62760702	0.301750716	5.55E-05	0.024741	0.697583	0.098113	1.309304	1.11095959	8.948194
1536	495211.06	3858601.99	0.71983	0.15902	0.52542	0.46479	1.494	0.759	0.1818	0.15902	7.51054013	0.29369812	5.47E-05	0.024482	0.70049	0.106817	1.288331	1.08131224	8.843101
1537	495261.06	3858601.99	0.70784	0.15541	0.51183	0.45948	1.505	0.768	0.1766	0.15541	7.38543924	0.287030719	5.328E-05	0.024203	0.705728	0.107995	1.251558	1.05676478	8.705243
1538	495311.06	3858601.99	0.70092	0.15359	0.51207	0.45478	1.505	0.817	0.1755	0.15359	7.31323755	0.283669314	5.331E-05	0.023955	0.705601	0.114907	1.243481	1.04438906	8.640515
1539	495361.06	3858601.99	0.69943	0.1538	0.51574	0.45434	1.508	0.871	0.1772	0.1538	7.29769124	0.284057168	5.369E-05	0.023932	0.707205	0.122503	1.255455	1.04581702	8.645081
1540	495411.06	3858601.99	0.69793	0.15561	0.51914	0.45165	1.512	0.894	0.1791	0.15561	7.28204058	0.287400104	5.405E-05	0.02379	0.709029	0.125713	1.268705	1.05812475	8.638608
1541	495461.06	3858601.99	0.69788	0.15828	0.52201	0.44998	1.514	0.933	0.1809	0.15828	7.2815189	0.292331395	5.434E-05	0.023702	0.710141	0.131182	1.2816	1.07628035	8.644249
1542	495511.06	3858601.99	0.69035	0.15973	0.51946	0.44649	1.498	0.969	0.1816	0.15973	7.20295261	0.295009438	5.408E-05	0.023518	0.702455	0.136372	1.286772	1.08614014	8.560994
1543	495561.06	3858601.99	0.6935	0.16349	0.51556	0.44665	1.477	1.02	0.1842	0.16349	7.23581899	0.301953878	5.367E-05	0.023527	0.692762	0.143492	1.304769	1.11170758	8.59067
1544	495611.06	3858601.99	0.68342	0.16302	0.51284	0.44458	1.456	1.031	0.1849	0.16302	7.13064659	0.301085823	5.339E-05	0.023418	0.68261	0.145002	1.310154	1.10851165	8.484458
1545	495661.06	3858601.99	0.68434	0.16344	0.51155	0.44396	1.456	1.061	0.1867	0.16344	7.14024566	0.301861532	5.326E-05	0.023385	0.682789	0.149198	1.322837	1.11136758	8.509001
1546	494311.06	3858651.99	0.88086	0.18144	0.60839	0.59312	1.666	0.598	0.2168	0.18144	9.19069	0.335106194	6.334E-05	0.031242	0.781407	0.084147	1.53639	1.2337649	10.72528
1547	494361.06	3858651.99	0.94036	0.20237	0.63278	0.62263	1.726	0.625	0.2253	0.20237	9.81149927	0.373762348	6.588E-05	0.032796	0.809289	0.087911	1.596615	1.37608577	11.33585
1548	494411.06	3858651.99	1.02088	0.2063	0.65402	0.66116	1.824	0.68	0.2443	0.2063	10.6516264	0.381020766	6.809E-05	0.034826	0.85544	0.095641	1.731237	1.40280918	12.34705
1549	494461.06	3858651.99	1.02627	0.20664	0.66275	0.65867	1.857	0.709	0.2467	0.20664	10.7078644	0.381648721	6.9E-05	0.034695	0.870563	0.099714	1.747888	1.40512113	12.43732
1550	494511.06	3858651.99	1.01828	0.20666	0.66665	0.64683	1.854	0.719	0.2437	0.20666	10.6244986	0.381685659	6.94E-05	0.034071	0.869146	0.101201	1.726702	1.40525713	12.33212
1551	494561.06	3858651.99	1.01452	0.20787	0.65975	0.64255	1.842	0.723	0.2406	0.20787	10.5852676	0.383920439	6.868E-05	0.033846	0.86396	0.101693	1.70488	1.41348495	12.26015
1552	494611.06	3858651.99	1.00719	0.20807	0.64547	0.63481	1.813	0.692	0.2365	0.20807	10.5087881	0.384289825	6.72E-05	0.033438	0.849996	0.097335	1.675759	1.41484492	12.13483
1553	494661.06	3858651.99	0.99628	0.20604	0.64535	0.62508	1.797	0.698	0.2316	0.20604	10.3949556	0.380540566	6.718E-05	0.032926	0.842479	0.098261	1.640757	1.40104122	11.98894
1554	494711.06	3858651.99	0.97146	0.19569	0.64423	0.61661	1.79	0.73	0.2261	0.19569	10.1359895	0.361424885	6.707E-05	0.032479	0.839511	0.102693	1.602213	1.33066277	11.74371
1555	494761.06	3858651.99	0.95301	0.19123	0.64046	0.61059	1.786	0.733	0.2216	0.19123	9.94348645	0.353187596	6.668E-05	0.032162	0.837382	0.10318	1.569833	1.30033543	11.53896
1556	494811.06	3858651.99	0.92543	0.18896	0.63172	0.60174	1.773	0.773	0.2146	0.18896	9.65572309	0.348995075	6.577E-05	0.031696	0.831389	0.108693	1.520731	1.28489977	11.21239
1557	494861.06	3858651.99	0.9015	0.18927	0.62589	0.59254	1.746	0.778	0.2095	0.18927	9.40604299	0.349567622	6.516E-05	0.031211	0.818902	0.109464	1.484241	1.28700773	10.91249
1558	494911.06	3858651.99	0.87336	0.18788	0.61016	0.5718	1.711	0.741	0.2037	0.18788	9.11243673	0.347000395	6.352E-05	0.030119	0.80226	0.104227	1.443217	1.27755593	10.56177
1559	494961.06	3858651.99	0.85076	0.18805	0.59664	0.55444	1.673	0.716	0.2034	0.18805	8.87663354	0.347314373	6.211E-05	0.029205	0.784272	0.100663	1.441233	1.27871191	10.30067
1560	495011.06	3858651.99	0.83489	0.18516	0.58631	0.54044	1.643	0.719	0.2026	0.18516	8.71104962	0.341976757	6.104E-05	0.028467	0.7705	0.101102	1.43514	1.25906034	10.12924
1561	495061.06	3858651.99	0.8197	0.17654	0.57303	0.52531	1.608	0.699	0.1978	0.17654	8.55256067	0.326056258	5.966E-05	0.02767	0.754163	0.098334	1.401484	1.20044563	9.959882
1562	495111.06	3858651.99	0.80136	0.17311	0.56891	0.50806	1.584	0.728	0.1964	0.17311	8.36120534	0.319721303	5.923E-05	0.026762	0.742641	0.10235	1.391707	1.17712214	9.767323
1563	495161.06	3858651.99	0.78773	0.1726	0.55912	0.49941	1.575	0.77	0.19	0.1726	8.21899307	0.318779371	5.821E-05	0.026306	0.738445	0.10833	1.34636	1.17365422	9.583617
1564	495211.06	3858651.99	0.77235	0.16691	0.55605	0.48224	1.537	0.796	0.1886	0.16691	8.05852169	0.308270364	5.789E-05	0.025402	0.720588	0.111962	1.336016	1.13496307	9.425855
1565	495261.06	3858651.99	0.76737	0.16457	0.55208	0.47857	1.541	0.846	0.1866	0.16457	8.00656152	0.303948558	5.747E-05	0.025208	0.722436	0.119052	1.322341	1.11905142	9.380553
1566	495311.06	3858651.99	0.75833	0.16096	0.5453	0.47213	1.508	0.877	0.1854	0.16096	7.91224025	0.297281156	5.677E-05	0.024869	0.707271	0.123352	1.313555	1.09450395	9.284121
1567	495361.06	3858651.99	0.75308	0.15732	0.53813	0.46975	1.489	0.906	0.1833	0.15732	7.85746296	0.290558347	5.602E-05	0.024744	0.69831	0.12741	1.298605	1.0697525	9.227393
1568	495411.06	3858651.99	0.74973	0.15547	0.53125	0.46961	1.476	0.949	0.1835	0.15547	7.82250983	0.287141534	5.531E-05	0.024736	0.692195	0.133438	1.299809	1.05717277	9.202713
1569	495461.06	3858651.99	0.75059	0.15657	0.52222	0.47237	1.482	1.019	0.1847	0.15657	7.83148287	0.289173153	5.437E-05	0.024882	0.695009	0.143401	1.308808	1.06465261	9.228157
1570	495511.06	3858651.99	0.73944	0.15784	0.51248	0.46529	1.468	1.057	0.1849	0.15784	7.71514635	0.291518748	5.335E-05	0.024509	0.688491	0.14876	1.309871	1.07328842	9.10506
1571	495561.06	3858651.99	0.73307	0.15963	0.50115	0.45997	1.473	1.094	0.1853	0.15963	7.64868324	0.294824745	5.217E-05	0.024228	0.690638	0.15394	1.312563	1.08546015	9.03947
1572	495611.06	3858651.99	0.71988	0.1609	0.49232	0.45228	1.474	1.104	0.1854	0.1609	7.51106182	0.297170341	5.125E-05	0.023823	0.691337	0.155322	1.313555	1.09409596	8.898224
1573	495661.06	3858651.99	0.71712	0.16373	0.49273	0.45302	1.48	1.21	0.1872	0.16373	7.48226462	0.30239714	5.13E-05	0.023862	0.693883	0.170154	1.326167	1.11333954	8.88544
1574	494311.06	3858701.99	0.90323	0.2006	0.66222	0.59894	1.727	0.646	0.2268	0.2006	9.42409342	0.37049329	6.894E-05	0.031549	0.809983	0.090906	1.606606	1.36405003	10.96965
1575	494361.06	3858701.99	1.00737	0.20778	0.67699	0.64952	1.834	0.669	0.2405	0.20778	10.5106661	0.383754216	7.048E-05	0.034213	0.860181	0.094073	1.704029	1.41287296	12.17411
1576	494411.06	3858701.99	1.06168	0.20912	0.69808	0.67555	1.878	0.697	0.2512	0.20912	11.0773242	0.386229097	7.267E-05	0.035584	0.880691	0.098052	1.779701	1.42198476	12.83567
1577	494461.06	3858701.99	1.06337	0.20915	0.70167	0.66847	1.87	0.735	0.2522	0.20915	11.0949572	0.386284504	7.305E-05	0.035211	0.876832	0.103439	1.786645	1.42218876	12.86125
1578	494511.06	3858701.99	1.05965	0.20929	0.71598	0.66464	1.858	0.76	0.2531	0.20929	11.0561436	0.386543074	7.454E-05	0.035009	0.871397	0.106914	1.793588	1.42314073	12.82653
1579	494561.06	3858701.99	1.05222	0.20883	0.70749	0.65707	1.844	0.763	0.2527	0.20883	10.9786207	0.385693488	7.365E-05	0.034611	0.864467	0.107367	1.790683	1.4200128	12.7415
1580	494611.06	3858701.99	1.02346	0.20797	0.693	0.64359	1.823	0.735	0.2464	0.20797	10.6785455	0.384105132	7.215E-05	0.033901	0.854793	0.103345	1.745975	1.41416493	12.38657
1581	494661.06	3858701.99	1.02524	0.20935	0.6855	0.64601	1.804	0.752	0.2448	0.20935	10.6971176	0.386653889	7.136E-05	0.034028	0.846151	0.105745	1.734213	1.42354873	12.38043
1582	494711.06	3858701.99	0.96201	0.20492	0.66561	0.61521	1.737	0.782	0.2295	0.20492	10.0373904	0.378472009	6.929E-05	0.032406	0.814616	0.109954	1.626161	1.39342539	11.60564
1583	494761.06	3858701.99	0.98359	0.2053	0.66118	0.62471	1.76	0.775	0.2304	0.2053	10.2625511	0.379173841	6.883E-05	0.032906	0.825157	0.108966	1.632467	1.39600933	11.84528
1584	494811.06	3858701.99	0.9523	0.19543	0.64951	0.60618	1.709	0.798	0.2254	0.19543	9.93607847	0.360944684	6.762E-05	0.03193	0.801313	0.112265	1.597111	1.32889481	11.51081
1585	494861.06	3858701.99	0.93103	0.19097	0.64416	0.59159	1.665	0.827	0.2192	0.19097	9.7141522	0.352707396	6.706E-05	0.031161	0.780919	0.116276	1.552899	1.29856747	11.24961
1586	494911.06	3858701.99	0.91502	0.18964	0.64152	0.57965	1.673	0.807	0.2148	0.18964	9.54710756	0.350250984	6.679E-05	0.030533	0.784657	0.113455	1.521652	1.28952367	11.0582
1587	494961.06	3858701.99	0.87841	0.18595	0.63471	0.5573	1.642	0.771	0.2053	0.18595	9.16512726	0.343435829	6.608E-05	0.029355	0.76989	0.10851	1.454483	1.26443222	10.60644
1588	495011.06	3858701.99	0.85816	0.1869	0.59536	0.54643	1.621	0.767	0.2028	0.1869	8.95384343	0.345190408	6.198E-05	0.028783	0.760146	0.107834	1.436557	1.27089208	10.36152
1589	495061.06	3858701.99	0.84973	0.18744	0.58643	0.5411	1.633	0.778	0.2033	0.18744	8.86588676	0.346187748	6.105E-05	0.028502	0.765661	0.109422	1.440312	1.274564	10.28147

1590	495111.06	3858701.99	0.82623	0.17968	0.56534	0.53487	1.595	0.814	0.2018	0.17968	8.62069318	0.331855605	5.886E-05	0.028174	0.748104	0.114455	1.429755	1.22179716	10.0513
1591	495161.06	3858701.99	0.81502	0.17632	0.55992	0.5213	1.578	0.856	0.1998	0.17632	8.50373063	0.325649935	5.829E-05	0.027459	0.74018	0.12048	1.415726	1.19894966	9.934334
1592	495211.06	3858701.99	0.80199	0.17319	0.54966	0.51083	1.551	0.866	0.1984	0.17319	8.36777861	0.319869057	5.722E-05	0.026907	0.727458	0.121796	1.405806	1.17766613	9.792006
1593	495261.06	3858701.99	0.7982	0.17259	0.54378	0.50817	1.547	0.891	0.1969	0.17259	8.32823463	0.318760902	5.661E-05	0.026767	0.725249	0.125386	1.395178	1.17358622	9.746047
1594	495311.06	3858701.99	0.79483	0.17087	0.53971	0.50552	1.545	0.938	0.1941	0.17087	8.29307283	0.31558419	5.619E-05	0.026628	0.724485	0.131926	1.375056	1.16189047	9.704917
1595	495361.06	3858701.99	0.78978	0.16911	0.53132	0.50218	1.542	0.989	0.1902	0.16911	8.24038229	0.3123336	5.531E-05	0.026452	0.722998	0.139137	1.347352	1.14992274	9.638788
1596	495411.06	3858701.99	0.78852	0.16476	0.5285	0.5036	1.552	1.052	0.1891	0.16476	8.22723574	0.304299474	5.502E-05	0.026527	0.727927	0.147968	1.339558	1.12034339	9.653227
1597	495461.06	3858701.99	0.78466	0.15949	0.53018	0.50217	1.556	1.1	0.1889	0.15949	8.18696139	0.294566175	5.519E-05	0.026451	0.729615	0.154797	1.338637	1.08450817	9.646575
1598	495511.06	3858701.99	0.77925	0.15718	0.53098	0.49761	1.541	1.154	0.1883	0.15718	8.1305147	0.290299777	5.528E-05	0.026211	0.722806	0.162291	1.334457	1.06880052	9.597834
1599	495561.06	3858701.99	0.77315	0.15891	0.53052	0.49301	1.525	1.187	0.1875	0.15891	8.06686871	0.293494959	5.523E-05	0.025969	0.714928	0.167031	1.328505	1.08056426	9.516288
1600	495611.06	3858701.99	0.76667	0.1605	0.53002	0.48593	1.507	1.281	0.1861	0.1605	7.99925788	0.29643157	5.518E-05	0.025596	0.706821	0.180185	1.318586	1.09137602	9.435555
1601	495661.06	3858701.99	0.76243	0.16154	0.528	0.48078	1.485	1.362	0.1875	0.16154	7.9550187	0.298352373	5.497E-05	0.025325	0.696317	0.191589	1.328151	1.09844787	9.39636
1602	494311.06	3858751.99	0.96447	0.20813	0.70894	0.60097	1.645	0.667	0.2323	0.20813	10.0630574	0.38440064	7.38E-05	0.031656	0.771156	0.093893	1.645788	1.41525291	11.57477
1603	494361.06	3858751.99	1.06654	0.2179	0.7168	0.67534	1.833	0.698	0.2538	0.2179	11.1280323	0.402445104	7.462E-05	0.035573	0.859402	0.098124	1.798477	1.48168745	12.84044
1604	494411.06	3858751.99	1.10326	0.22011	0.72551	0.6994	1.881	0.744	0.2656	0.22011	11.5111603	0.40652681	7.553E-05	0.03684	0.882257	0.104716	1.881588	1.49671512	13.32645
1605	494461.06	3858751.99	1.10599	0.21299	0.72147	0.70015	1.879	0.784	0.2659	0.21299	11.5396445	0.393376699	7.511E-05	0.03688	0.88124	0.110304	1.88421	1.44830018	13.39743
1606	494511.06	3858751.99	1.104	0.21345	0.75902	0.70483	1.879	0.823	0.2654	0.21345	11.5188813	0.394226285	7.902E-05	0.037126	0.880898	0.115733	1.880738	1.45142811	13.37625
1607	494561.06	3858751.99	1.09592	0.21248	0.75137	0.69236	1.862	0.82	0.2606	0.21248	11.4345764	0.392434767	7.822E-05	0.036469	0.873071	0.115323	1.846658	1.44483226	13.25378
1608	494611.06	3858751.99	1.0732	0.21137	0.7551	0.67539	1.843	0.81	0.2546	0.21137	11.1975212	0.390384679	7.861E-05	0.035576	0.864176	0.114011	1.803649	1.43728442	12.96811
1609	494661.06	3858751.99	1.06226	0.21062	0.7524	0.66464	1.823	0.82	0.2532	0.21062	11.0833757	0.388999485	7.833E-05	0.035009	0.854849	0.115323	1.794013	1.43218454	12.83946
1610	494711.06	3858751.99	1.02753	0.20954	0.74128	0.64027	1.768	0.89	0.2457	0.20954	10.7210109	0.387004805	7.717E-05	0.033726	0.829251	0.125239	1.741086	1.4248407	12.41255
1611	494761.06	3858751.99	1.01344	0.21037	0.73088	0.63456	1.752	0.888	0.2431	0.21037	10.5739991	0.388537754	7.609E-05	0.033425	0.821659	0.124989	1.722593	1.43048457	12.23479
1612	494811.06	3858751.99	0.99055	0.21074	0.71503	0.61668	1.732	0.861	0.2345	0.21074	10.3351701	0.389221116	7.444E-05	0.032483	0.812004	0.121063	1.661801	1.43300052	11.91882
1613	494861.06	3858751.99	0.96142	0.20138	0.6988	0.60441	1.68	0.851	0.2282	0.20138	10.0312344	0.371933892	7.275E-05	0.031837	0.787906	0.119769	1.616525	1.36935392	11.58992
1614	494911.06	3858751.99	0.93396	0.19489	0.67892	0.58658	1.655	0.851	0.2228	0.19489	9.74472315	0.359947344	7.068E-05	0.030898	0.776019	0.119702	1.578477	1.32522289	11.28461
1615	494961.06	3858751.99	0.91594	0.19073	0.66093	0.57164	1.638	0.832	0.219	0.19073	9.55670662	0.352264133	6.881E-05	0.030111	0.768005	0.117083	1.551977	1.29693551	11.07928
1616	495011.06	3858751.99	0.90551	0.19018	0.65514	0.56495	1.607	0.841	0.2147	0.19018	9.44788241	0.351248324	6.82E-05	0.029758	0.753422	0.118262	1.52151	1.29319559	10.92896
1617	495061.06	3858751.99	0.8864	0.18605	0.64898	0.55552	1.565	0.875	0.2077	0.18605	9.24849308	0.343620521	6.756E-05	0.029262	0.733727	0.123065	1.471629	1.26511221	10.68475
1618	495111.06	3858751.99	0.86217	0.18685	0.60748	0.54676	1.533	0.893	0.2034	0.18685	8.99568285	0.345098062	6.324E-05	0.0288	0.719041	0.125563	1.441375	1.27055209	10.38507
1619	495161.06	3858751.99	0.8485	0.187	0.601	0.54019	1.524	0.915	0.204	0.187	8.85305322	0.345375101	6.257E-05	0.028454	0.714628	0.128786	1.445626	1.27157206	10.24441
1620	495211.06	3858751.99	0.83176	0.1861	0.59243	0.53137	1.515	0.941	0.2026	0.1861	8.67839193	0.343712868	6.168E-05	0.027989	0.710427	0.132353	1.43514	1.2654522	10.06262
1621	495261.06	3858751.99	0.82748	0.18581	0.58763	0.53025	1.538	0.984	0.2023	0.18581	8.63373539	0.343177259	6.118E-05	0.02793	0.72132	0.138474	1.433298	1.26348024	10.03452
1622	495311.06	3858751.99	0.82448	0.18548	0.58704	0.52912	1.551	1.024	0.2019	0.18548	8.60243409	0.342567774	6.111E-05	0.027871	0.727378	0.144006	1.430818	1.26123629	10.0139
1623	495361.06	3858751.99	0.81875	0.18111	0.58598	0.52617	1.557	1.089	0.1993	0.18111	8.54264859	0.334496709	6.1E-05	0.027716	0.730023	0.153248	1.4119	1.23152094	9.968571
1624	495411.06	3858751.99	0.81924	0.17564	0.58787	0.52434	1.568	1.127	0.1974	0.17564	8.54776113	0.324394025	6.12E-05	0.027619	0.73549	0.158504	1.398367	1.19432576	9.99787
1625	495461.06	3858751.99	0.81466	0.17018	0.58738	0.52001	1.563	1.165	0.195	0.17018	8.49997447	0.314309811	6.115E-05	0.027391	0.733141	0.163859	1.381929	1.15719858	9.963467
1626	495511.06	3858751.99	0.80723	0.16641	0.56373	0.51662	1.552	1.246	0.1911	0.16641	8.42245157	0.307346901	5.869E-05	0.027212	0.727884	0.175319	1.354083	1.13156314	9.882793
1627	495561.06	3858751.99	0.79858	0.15949	0.55525	0.50843	1.542	1.338	0.1901	0.15949	8.33219946	0.294566175	5.78E-05	0.026781	0.722853	0.188227	1.346715	1.08450817	9.826891
1628	495611.06	3858751.99	0.78932	0.15814	0.54918	0.50085	1.534	1.432	0.1888	0.15814	8.23558276	0.292072826	5.717E-05	0.026382	0.719467	0.201472	1.337716	1.07532838	9.737421
1629	495661.06	3858751.99	0.7818	0.16055	0.54749	0.49781	1.523	1.52	0.1889	0.16055	8.15712081	0.296523917	5.7E-05	0.026222	0.714323	0.213829	1.338283	1.09171602	9.654642
1630	494311.06	3858801.99	1.02018	0.21498	0.71032	0.64663	1.807	0.685	0.2465	0.21498	10.6443227	0.397052081	7.395E-05	0.034061	0.84744	0.096353	1.746825	1.46183188	12.3043
1631	494361.06	3858801.99	1.10231	0.2199	0.73241	0.71272	1.875	0.723	0.2658	0.2199	11.5012482	0.406138955	7.625E-05	0.037542	0.879144	0.101669	1.883501	1.49528715	13.31403
1632	494411.06	3858801.99	1.11781	0.22163	0.75214	0.73652	1.875	0.758	0.2723	0.22163	11.6629716	0.409334137	7.83E-05	0.038796	0.879284	0.106627	1.929415	1.50705089	13.51945
1633	494461.06	3858801.99	1.12844	0.22257	0.76164	0.74343	1.881	0.81	0.2752	0.22257	11.7738826	0.411070247	7.929E-05	0.039159	0.882056	0.113992	1.949679	1.51344275	13.65648
1634	494511.06	3858801.99	1.1321	0.22242	0.80727	0.74727	1.897	0.869	0.2752	0.22242	11.8120702	0.410793208	8.404E-05	0.039362	0.889399	0.122291	1.94982	1.51242277	13.7114
1635	494561.06	3858801.99	1.12522	0.21807	0.80193	0.74499	1.904	0.888	0.2735	0.21807	11.7402859	0.402759081	8.349E-05	0.039242	0.89262	0.124936	1.93813	1.48284342	13.65521
1636	494611.06	3858801.99	1.11531	0.21706	0.78412	0.72878	1.881	0.877	0.2707	0.21706	11.6368872	0.400893686	8.163E-05	0.038388	0.882046	0.123409	1.91822	1.47597557	13.52395
1637	494661.06	3858801.99	1.10244	0.2154	0.76077	0.69905	1.84	0.889	0.265	0.2154	11.5026046	0.39782779	7.92E-05	0.036822	0.862685	0.124992	1.877904	1.46468782	13.33823
1638	494711.06	3858801.99	1.08005	0.21388	0.74847	0.67194	1.805	0.978	0.2588	0.21388	11.2689925	0.395020463	7.792E-05	0.035394	0.846333	0.13752	1.833762	1.45435205	13.06275
1639	494761.06	3858801.99	1.04889	0.21215	0.73724	0.64904	1.783	0.967	0.2518	0.21215	10.9438762	0.391825281	7.675E-05	0.034188	0.836261	0.136049	1.784094	1.44258831	12.68378
1640	494811.06	3858801.99	1.01242	0.21064	0.71943	0.6323	1.75	0.959	0.2446	0.21064	10.5633567	0.389036424	7.49E-05	0.033306	0.820623	0.134856	1.733008	1.43232053	12.24194
1641	494861.06	3858801.99	0.99815	0.21134	0.70771	0.62435	1.723	0.977	0.2371	0.21134	10.4144668	0.390329272	7.368E-05	0.032887	0.808088	0.137436	1.679726	1.43708043	12.02593
1642	494911.06	3858801.99	0.97208	0.20974	0.69212	0.6085	1.671	0.929	0.2327	0.20974	10.1424584	0.38737419	7.205E-05	0.032052	0.783714	0.130689	1.648622	1.42620067	11.69878
1643	494961.06	3858801.99	0.9523	0.20003	0.68297	0.59647	1.639	0.88	0.2266	0.20003	9.93607847	0.369440542	7.11E-05	0.031419	0.76862	0.123776	1.605259	1.36017412	11.47449
1644	495011.06	3858801.99	0.93348	0.19497	0.67446	0.58353	1.609	0.911	0.2234	0.19497	9.73971494	0.360095098	7.022E-05	0.030737	0.754538	0.128219	1.582515	1.32576687	11.27012
1645	495061.06	3858801.99	0.92172	0.19166	0.66616	0.57184	1.594	1.01	0.2215	0.19166	9.61701381	0.353981774	6.935E-05	0.030121	0.747377	0.142052	1.569478	1.30325937	11.15683
1646	495111.06	3858801.99	0.89886	0.18514	0.6531	0.56147	1.581	0.984	0.2154	0.18514	9.37849784	0.341939819	6.799E-05	0.029575	0.741455	0.138395	1.526187	1.25892434	10.89719
1647	495161.06	3858801.99	0.88115	0.18504	0.638	0.54905	1.559	0.99	0.2072	0.18504	9.19371579	0.341755126	6.642E-05	0.028921	0.731125	0.139241	1.467945	1.25824436	10.64452
1648	495211.06	3858801.99	0.86977	0.18674	0.62654	0.54072	1.525	1.02	0.2053	0.18674	9.0749795	0.3448949	6.523E-05	0.028482	0.715228	0.143501	1.45427	1.2698041	10.49162

1649	495261.06	3858801.99	0.86659	0.18731	0.61663	0.53862	1.502	1.09	0.2051	0.18731	9.04180011	0.345947648	6.419E-05	0.028371	0.704176	0.153349	1.452924	1.27368002	10.45295
1650	495311.06	3858801.99	0.86556	0.18711	0.60803	0.53905	1.485	1.191	0.206	0.18711	9.03105333	0.345578263	6.33E-05	0.028394	0.69627	0.16748	1.459584	1.27232005	10.4561
1651	495361.06	3858801.99	0.86041	0.18669	0.60021	0.53887	1.482	1.226	0.2066	0.18669	8.97731942	0.344802554	6.249E-05	0.028384	0.694934	0.172506	1.463552	1.26946411	10.4121
1652	495411.06	3858801.99	0.86644	0.1862	0.60117	0.54106	1.503	1.297	0.2073	0.1862	9.04023504	0.34389756	6.259E-05	0.0285	0.704846	0.182454	1.468654	1.26613218	10.50252
1653	495461.06	3858801.99	0.86093	0.18192	0.59191	0.5382	1.52	1.344	0.2044	0.18192	8.98274498	0.335992718	6.162E-05	0.028349	0.712734	0.189106	1.447964	1.23702882	10.45992
1654	495511.06	3858801.99	0.85001	0.17617	0.579	0.53353	1.534	1.439	0.2005	0.17617	8.86880822	0.325372896	6.028E-05	0.028103	0.719481	0.202363	1.420261	1.19792968	10.36652
1655	495561.06	3858801.99	0.84116	0.17059	0.56609	0.52909	1.543	1.469	0.1979	0.17059	8.77646936	0.31506705	5.893E-05	0.027869	0.723388	0.206618	1.401909	1.15998652	10.29139
1656	495611.06	3858801.99	0.82625	0.16683	0.55554	0.52208	1.541	1.558	0.1948	0.16683	8.62090186	0.30812261	5.784E-05	0.0275	0.722544	0.219132	1.380157	1.13441908	10.144
1657	495661.06	3858801.99	0.82092	0.16363	0.54629	0.51842	1.544	1.693	0.1943	0.16363	8.56528987	0.302212448	5.687E-05	0.027307	0.723777	0.23815	1.376686	1.11265956	10.12082
1658	494311.06	3858851.99	1.1155	0.22388	0.77091	0.70297	1.958	0.731	0.2788	0.22388	11.6388696	0.41348972	8.026E-05	0.037028	0.918223	0.102844	1.975257	1.52235056	13.56344
1659	494361.06	3858851.99	1.17158	0.22699	0.79723	0.74104	1.953	0.792	0.2855	0.22699	12.2239954	0.419233658	8.3E-05	0.039034	0.915583	0.111432	2.023083	1.54349809	14.18895
1660	494411.06	3858851.99	1.16602	0.22672	0.79912	0.74469	1.924	0.831	0.2818	0.22672	12.1659836	0.418734988	8.319E-05	0.039226	0.902351	0.116942	1.996655	1.54166213	14.09831
1661	494461.06	3858851.99	1.1645	0.22584	0.80142	0.75793	1.907	0.878	0.2827	0.22584	12.1501243	0.417109694	8.343E-05	0.039923	0.894252	0.123519	2.003244	1.53567826	14.09258
1662	494511.06	3858851.99	1.15662	0.22723	0.83941	0.75514	1.887	0.947	0.2834	0.22723	12.0679062	0.419676921	8.739E-05	0.039776	0.884921	0.133196	2.008062	1.54513005	14.0085
1663	494561.06	3858851.99	1.14689	0.22719	0.82775	0.75478	1.866	0.982	0.281	0.22719	11.9663856	0.419603043	8.617E-05	0.039757	0.874919	0.138077	1.990703	1.54485806	13.88467
1664	494611.06	3858851.99	1.13217	0.22338	0.8145	0.74854	1.839	0.973	0.2786	0.22338	11.8128006	0.412566257	8.479E-05	0.039429	0.862183	0.136811	1.973911	1.51895063	13.71883
1665	494661.06	3858851.99	1.11387	0.21948	0.7981	0.73689	1.827	0.975	0.2748	0.21948	11.6218626	0.405363247	8.309E-05	0.038815	0.856542	0.137097	1.946703	1.49243121	13.51403
1666	494711.06	3858851.99	1.09279	0.21788	0.77654	0.71892	1.806	1.023	0.2676	0.21788	11.4019187	0.402408165	8.084E-05	0.037868	0.846995	0.143852	1.896043	1.48155145	13.24761
1667	494761.06	3858851.99	1.07208	0.21552	0.74708	0.69413	1.742	1.02	0.2612	0.21552	11.1858354	0.398049421	7.778E-05	0.036563	0.816895	0.14352	1.850342	1.4655038	12.96578
1668	494811.06	3858851.99	1.053	0.21428	0.73525	0.66001	1.732	1.02	0.2538	0.21428	10.986759	0.395759233	7.654E-05	0.034765	0.811976	0.143554	1.798406	1.45707199	12.71422
1669	494861.06	3858851.99	1.03933	0.21353	0.72271	0.64868	1.712	1.062	0.2509	0.21353	10.8441294	0.394374039	7.524E-05	0.034169	0.80286	0.149415	1.777717	1.4519721	12.55077
1670	494911.06	3858851.99	1.01499	0.21279	0.70469	0.63277	1.698	1.052	0.2451	0.21279	10.5901715	0.393007314	7.336E-05	0.033331	0.796258	0.148058	1.736834	1.44694021	12.25079
1671	494961.06	3858851.99	0.99478	0.21292	0.69358	0.62147	1.697	1.028	0.2358	0.21292	10.379305	0.393247414	7.221E-05	0.032735	0.795775	0.144633	1.67087	1.44782419	11.96881
1672	495011.06	3858851.99	0.97841	0.21053	0.68474	0.61073	1.685	1.124	0.2337	0.21053	10.2085042	0.388833262	7.129E-05	0.03217	0.79003	0.158079	1.656132	1.43157255	11.80225
1673	495061.06	3858851.99	0.95652	0.20044	0.669	0.59996	1.651	1.107	0.229	0.20044	9.98010898	0.370197782	6.965E-05	0.031602	0.774261	0.155794	1.622689	1.36296206	11.57176
1674	495111.06	3858851.99	0.92269	0.19423	0.64312	0.57681	1.597	1.075	0.2226	0.19423	9.62713457	0.358728373	6.695E-05	0.030383	0.748709	0.151156	1.577272	1.32073498	11.17272
1675	495161.06	3858851.99	0.90576	0.1915	0.63009	0.55711	1.551	1.11	0.22	0.1915	9.45049085	0.353686266	6.56E-05	0.029345	0.727073	0.156149	1.558496	1.30217139	10.97313
1676	495211.06	3858851.99	0.90763	0.19048	0.62785	0.56081	1.542	1.262	0.2182	0.19048	9.470002	0.351802402	6.536E-05	0.02954	0.722989	0.177478	1.545742	1.29523554	11.00238
1677	495261.06	3858851.99	0.90445	0.18899	0.62081	0.55811	1.544	1.24	0.2158	0.18899	9.43682261	0.349050483	6.463E-05	0.029398	0.723969	0.174406	1.528879	1.28510377	10.95749
1678	495311.06	3858851.99	0.90448	0.1893	0.61537	0.55676	1.549	1.334	0.2149	0.1893	9.43713563	0.34962303	6.406E-05	0.029327	0.726276	0.187673	1.522431	1.28721172	10.96532
1679	495361.06	3858851.99	0.90224	0.19046	0.6086	0.55463	1.535	1.42	0.2144	0.19046	9.41376398	0.351765464	6.336E-05	0.029215	0.719608	0.199785	1.518747	1.29509955	10.93785
1680	495411.06	3858851.99	0.89968	0.19226	0.6022	0.55449	1.52	1.533	0.2141	0.19226	9.38705353	0.35508993	6.269E-05	0.029207	0.712945	0.215619	1.516621	1.30733928	10.90926
1681	495461.06	3858851.99	0.89694	0.19411	0.59968	0.55469	1.505	1.678	0.2142	0.19411	9.35846501	0.358506742	6.243E-05	0.029218	0.705691	0.236075	1.517684	1.319919	10.88578
1682	495511.06	3858851.99	0.89462	0.19271	0.58658	0.54802	1.482	1.69	0.2135	0.19271	9.33425866	0.355921046	6.107E-05	0.028866	0.694746	0.237773	1.512512	1.31039921	10.85374
1683	495561.06	3858851.99	0.8747	0.18174	0.58225	0.53947	1.455	1.789	0.2099	0.18174	9.12641798	0.335660272	6.062E-05	0.028416	0.682301	0.25167	1.487501	1.23580485	10.67622
1684	495611.06	3858851.99	0.86349	0.17633	0.58006	0.5318	1.44	1.899	0.2064	0.17633	9.00945542	0.325668404	6.039E-05	0.028012	0.675173	0.267076	1.462206	1.19901766	10.56863
1685	495661.06	3858851.99	0.862	0.17135	0.57697	0.53211	1.463	2.06	0.2066	0.17135	8.99390911	0.316470714	6.007E-05	0.028028	0.686188	0.289758	1.463552	1.1651544	10.61281
1686	494311.06	3858901.99	1.17116	0.23146	0.82427	0.75382	1.985	0.803	0.2961	0.23146	12.2196132	0.427489416	8.581E-05	0.039707	0.930903	0.112984	2.098046	1.57389342	14.25493
1687	494361.06	3858901.99	1.19973	0.23673	0.83936	0.78459	1.987	0.844	0.2982	0.23673	12.517706	0.437222714	8.738E-05	0.041328	0.931953	0.118737	2.112571	1.60972864	14.54988
1688	494411.06	3858901.99	1.19649	0.23761	0.84004	0.78883	1.964	0.876	0.2941	0.23761	12.4839006	0.438848009	8.745E-05	0.041551	0.921079	0.123254	2.083805	1.6157125	14.47681
1689	494461.06	3858901.99	1.1947	0.24006	0.87245	0.79619	1.967	0.928	0.2899	0.24006	12.4652241	0.443372977	9.083E-05	0.041939	0.922392	0.130501	2.054259	1.63237214	14.42541
1690	494511.06	3858901.99	1.19003	0.24014	0.85778	0.78914	1.956	0.985	0.2886	0.24014	12.4164984	0.443520731	8.93E-05	0.041567	0.91714	0.138533	2.045048	1.63291613	14.36948
1691	494561.06	3858901.99	1.17391	0.23689	0.83781	0.77096	1.932	1.038	0.2876	0.23689	12.2483061	0.437518222	8.722E-05	0.04061	0.906097	0.146051	2.037679	1.61081661	14.20553
1692	494611.06	3858901.99	1.14805	0.23049	0.81479	0.74942	1.871	1.075	0.2829	0.23049	11.9784888	0.425697898	8.482E-05	0.039475	0.877535	0.151242	2.004165	1.56729757	13.90939
1693	494661.06	3858901.99	1.13488	0.22858	0.80019	0.74206	1.844	1.104	0.2792	0.22858	11.8410761	0.42217027	8.33E-05	0.039087	0.864884	0.155359	1.978233	1.55430985	13.74658
1694	494711.06	3858901.99	1.11434	0.2225	0.77403	0.71299	1.807	1.109	0.2753	0.2225	11.6267664	0.410940962	8.058E-05	0.037556	0.847201	0.15606	1.950458	1.51296676	13.5161
1695	494761.06	3858901.99	1.08454	0.21989	0.74252	0.68141	1.757	1.112	0.2696	0.21989	11.3158401	0.406120486	7.73E-05	0.035893	0.823994	0.156363	1.910142	1.49521915	13.15321
1696	494811.06	3858901.99	1.07136	0.21894	0.72953	0.67374	1.737	1.135	0.265	0.21894	11.178323	0.404365907	7.595E-05	0.035489	0.814386	0.159608	1.877337	1.48875929	12.98083
1697	494861.06	3858901.99	1.06263	0.21813	0.71719	0.66923	1.729	1.138	0.2606	0.21813	11.0872362	0.402869897	7.466E-05	0.035251	0.81078	0.160127	1.846516	1.48325141	12.8596
1698	494911.06	3858901.99	1.03891	0.2157	0.69999	0.64234	1.666	1.118	0.2532	0.2157	10.8397472	0.398381868	7.287E-05	0.033835	0.781027	0.157268	1.793872	1.46672778	12.53748
1699	494961.06	3858901.99	1.02616	0.21516	0.69165	0.63435	1.639	1.164	0.2489	0.21516	10.7067167	0.397384528	7.2E-05	0.033414	0.768699	0.163702	1.76383	1.46305586	12.37076
1700	495011.06	3858901.99	1.01227	0.21501	0.68343	0.62861	1.61	1.271	0.2431	0.21501	10.5617916	0.397107489	7.115E-05	0.033111	0.754754	0.178772	1.722168	1.46203588	12.18574
1701	495061.06	3858901.99	0.98717	0.21444	0.67466	0.61549	1.586	1.261	0.2337	0.21444	10.299904	0.396054741	7.024E-05	0.03242	0.743481	0.177384	1.655495	1.45815997	11.84665
1702	495111.06	3858901.99	0.94486	0.20634	0.65868	0.59448	1.564	1.307	0.2274	0.20634	9.85845123	0.381094643	6.857E-05	0.031314	0.733554	0.183852	1.610998	1.40308118	11.39625
1703	495161.06	3858901.99	0.9352	0.19825	0.6549	0.58752	1.58	1.39	0.2251	0.19825	9.75766102	0.366153015	6.818E-05	0.030947	0.740691	0.195494	1.594702	1.34807038	11.33765
1704	495211.06	3858901.99	0.94246	0.19529	0.65584	0.59127	1.61	1.471	0.2264	0.19529	9.83341018	0.360686115	6.828E-05	0.031145	0.755101	0.206982	1.604409	1.32794283	11.46386
1705	495261.06	3858901.99	0.94077	0.19287	0.65059	0.58233	1.605	1.483	0.2247	0.19287	9.81577711	0.356216554	6.773E-05	0.030674	0.752653	0.208633	1.591868	1.31148719	11.4444
1706	495311.06	3858901.99	0.93628	0.19113	0.64338	0.57548	1.581	1.587	0.2236	0.19113	9.76892949	0.353002904	6.698E-05	0.030313	0.741455	0.223321	1.584145	1.29965545	11.40158
1707	495361.06	3858901.99	0.9339	0.18998	0.63836	0.57504	1.557	1.687	0.2228	0.18998	9.74409712	0.350878939	6.646E-05	0.03029	0.729896	0.237297	1.578335	1.29183562	11.37903

1708	495411.06	3858901.99	0.93907	0.18997	0.63568	0.57773	1.541	1.799	0.2228	0.18997	9.79803971	0.35086047	6.618E-05	0.030431	0.722675	0.253053	1.578689	1.29176762	11.44205
1709	495461.06	3858901.99	0.93175	0.19169	0.62891	0.57515	1.523	1.896	0.2208	0.19169	9.72166451	0.354037182	6.547E-05	0.030295	0.714225	0.26668	1.564306	1.30346336	11.34781
1710	495511.06	3858901.99	0.91875	0.19387	0.61981	0.56302	1.521	2.064	0.2177	0.19387	9.58602551	0.35806348	6.453E-05	0.029657	0.713437	0.290351	1.542625	1.31828704	11.20194
1711	495561.06	3858901.99	0.91021	0.19528	0.61179	0.55487	1.514	2.138	0.2153	0.19528	9.49692112	0.360667645	6.369E-05	0.029227	0.710159	0.300818	1.525549	1.32787483	11.09553
1712	495611.06	3858901.99	0.89868	0.19304	0.60305	0.54901	1.487	2.248	0.2137	0.19304	9.37661977	0.356530532	6.278E-05	0.028919	0.697461	0.316208	1.514071	1.31264316	10.97723
1713	495661.06	3858901.99	0.89746	0.18879	0.59877	0.54867	1.469	2.455	0.2137	0.18879	9.36389057	0.348681098	6.234E-05	0.028901	0.688913	0.345383	1.514425	1.2837438	11.00651
1714	494311.06	3858951.99	1.23176	0.24544	0.87612	0.80349	1.992	0.847	0.3137	0.24544	12.8518996	0.453309437	9.121E-05	0.042323	0.934087	0.119183	2.222749	1.66895533	14.95469
1715	494361.06	3858951.99	1.23376	0.24824	0.87557	0.83068	2.018	0.881	0.3125	0.24824	12.8727672	0.458480829	9.115E-05	0.043755	0.946387	0.123899	2.214104	1.68799492	14.97149
1716	494411.06	3858951.99	1.21952	0.24678	0.87097	0.82592	1.999	0.926	0.3059	0.24678	12.7241903	0.455784317	9.067E-05	0.043505	0.937421	0.130217	2.167341	1.67806713	14.78048
1717	494461.06	3858951.99	1.21772	0.24902	0.89602	0.83696	1.979	0.992	0.3012	0.24902	12.7054095	0.459921431	9.328E-05	0.044086	0.928221	0.139597	2.134252	1.6932988	14.71828
1718	494511.06	3858951.99	1.20827	0.24791	0.89137	0.83504	1.962	1.018	0.2967	0.24791	12.6068104	0.457871343	9.28E-05	0.043985	0.920005	0.143167	2.102439	1.68575097	14.58862
1719	494561.06	3858951.99	1.19197	0.24533	0.87868	0.82713	1.936	1.084	0.2921	0.24533	12.43674	0.453106275	9.148E-05	0.043568	0.907659	0.152545	2.069917	1.66820735	14.39542
1720	494611.06	3858951.99	1.16986	0.24157	0.85076	0.80725	1.899	1.102	0.2892	0.24157	12.2060493	0.446161835	8.857E-05	0.042521	0.890618	0.154975	2.048803	1.64263991	14.14658
1721	494661.06	3858951.99	1.15234	0.23699	0.83118	0.78097	1.882	1.126	0.2868	0.23699	12.0232497	0.437702915	8.653E-05	0.041137	0.882309	0.158449	2.031869	1.6114966	13.96331
1722	494711.06	3858951.99	1.1298	0.23184	0.80923	0.74234	1.856	1.151	0.2788	0.23184	11.7880725	0.428191248	8.425E-05	0.039102	0.870516	0.161888	1.975469	1.57647737	13.68685
1723	494761.06	3858951.99	1.11076	0.22741	0.78588	0.71802	1.81	1.274	0.2733	0.22741	11.5894136	0.420009367	8.181E-05	0.037821	0.848791	0.17928	1.936642	1.54635403	13.46568
1724	494811.06	3858951.99	1.09498	0.22263	0.77112	0.7016	1.78	1.382	0.2717	0.22263	11.4247687	0.411181062	8.028E-05	0.036956	0.834831	0.194427	1.924738	1.51385074	13.31313
1725	494861.06	3858951.99	1.08564	0.22095	0.75297	0.69012	1.767	1.265	0.2698	0.22095	11.3273173	0.408078227	7.839E-05	0.036351	0.828505	0.177953	1.911772	1.50242699	13.18763
1726	494911.06	3858951.99	1.07096	0.21991	0.72559	0.66881	1.729	1.267	0.2645	0.21991	11.1741495	0.406157425	7.554E-05	0.035229	0.810752	0.17819	1.874007	1.49535515	12.98321
1727	494961.06	3858951.99	1.06178	0.21937	0.71726	0.6572	1.691	1.543	0.2612	0.21937	11.0783675	0.405160085	7.467E-05	0.034617	0.792727	0.217058	1.850413	1.49168323	12.88673
1728	495011.06	3858951.99	1.03023	0.21647	0.69091	0.63228	1.648	1.436	0.2518	0.21647	10.7491821	0.399804	7.193E-05	0.033305	0.772995	0.202013	1.784094	1.47196366	12.4695
1729	495061.06	3858951.99	1.00106	0.21603	0.67034	0.60201	1.589	1.65	0.2403	0.21603	10.4448291	0.398991353	6.979E-05	0.03171	0.745211	0.232101	1.702896	1.46897173	12.08684
1730	495111.06	3858951.99	0.97317	0.21197	0.65768	0.57581	1.538	1.627	0.2325	0.21197	10.1538312	0.391492835	6.847E-05	0.03033	0.721109	0.228822	1.647346	1.44136433	11.73164
1731	495161.06	3858951.99	0.9878	0.21365	0.66246	0.59205	1.522	1.757	0.2349	0.21365	10.3064773	0.39459567	6.897E-05	0.031186	0.713531	0.2471	1.66428	1.45278808	11.90445
1732	495211.06	3858951.99	0.98644	0.20869	0.66044	0.59698	1.51	1.811	0.2362	0.20869	10.2922874	0.385434919	6.876E-05	0.031445	0.707871	0.254716	1.673775	1.41906082	11.92654
1733	495261.06	3858951.99	0.98491	0.2007	0.65898	0.60169	1.539	1.919	0.2375	0.2007	10.2763237	0.370677982	6.86E-05	0.031693	0.721671	0.269906	1.68249	1.36473002	11.9881
1734	495311.06	3858951.99	0.97358	0.1941	0.65091	0.59179	1.539	1.957	0.2332	0.1941	10.1581091	0.358488273	6.776E-05	0.031172	0.72177	0.275287	1.651952	1.319851	11.87699
1735	495361.06	3858951.99	0.97425	0.19197	0.64701	0.5975	1.569	2.057	0.235	0.19197	10.1650997	0.354554321	6.736E-05	0.031473	0.735828	0.289307	1.664706	1.30536732	11.93567
1736	495411.06	3858951.99	0.97678	0.19081	0.64587	0.60359	1.593	2.137	0.2356	0.19081	10.1914971	0.352411888	6.724E-05	0.031794	0.746773	0.300655	1.66924	1.2974795	11.99496
1737	495461.06	3858951.99	0.97291	0.18981	0.64077	0.5974	1.597	2.35	0.2313	0.18981	10.1511185	0.350564962	6.671E-05	0.031467	0.749084	0.330598	1.639127	1.29067964	11.96135
1738	495511.06	3858951.99	0.97119	0.18944	0.63867	0.60263	1.573	2.474	0.2283	0.18944	10.1331724	0.349881599	6.649E-05	0.031743	0.737399	0.348018	1.617588	1.2881637	11.9297
1739	495561.06	3858951.99	0.95528	0.19034	0.62499	0.58679	1.531	2.495	0.2251	0.19034	9.96717111	0.351543832	6.507E-05	0.030909	0.71814	0.350996	1.594915	1.29428357	11.71946
1740	495611.06	3858951.99	0.94285	0.19241	0.61796	0.57912	1.503	2.693	0.2229	0.19241	9.83747935	0.355366969	6.433E-05	0.030505	0.704776	0.378826	1.578973	1.30835926	11.57763
1741	495661.06	3858951.99	0.94375	0.19489	0.61688	0.58293	1.495	2.874	0.2217	0.19489	9.84686975	0.359947344	6.422E-05	0.030705	0.700842	0.404336	1.571108	1.32522289	11.58865
1742	494311.06	3859001.99	1.27881	0.25568	0.92328	0.9076	2.14	0.889	0.3261	0.25568	13.3428085	0.472221956	9.612E-05	0.047807	1.003459	0.125068	2.310536	1.7385858	15.56341
1743	494361.06	3859001.99	1.26991	0.25643	0.91285	0.90585	2.049	0.899	0.3248	0.25643	13.2499479	0.47360715	9.503E-05	0.047715	0.960886	0.126414	2.301396	1.74368569	15.41638
1744	494411.06	3859001.99	1.25778	0.25927	0.94164	0.90003	1.957	0.983	0.3201	0.25927	13.1233863	0.478852419	9.803E-05	0.047408	0.917769	0.138253	2.267882	1.76299727	15.21065
1745	494461.06	3859001.99	1.24545	0.25841	0.93865	0.88865	1.946	1.021	0.3142	0.25841	12.9947379	0.477264063	9.772E-05	0.046809	0.912493	0.143678	2.226291	1.7571494	15.04422
1746	494511.06	3859001.99	1.23279	0.25746	0.93324	0.87739	1.965	1.064	0.3083	0.25746	12.8626464	0.475509484	9.716E-05	0.046216	0.921234	0.149747	2.184204	1.75068954	14.88896
1747	494561.06	3859001.99	1.21115	0.25341	0.91413	0.84895	1.961	1.107	0.3011	0.25341	12.6368596	0.468029435	9.517E-05	0.044718	0.919715	0.155752	2.133473	1.72315014	14.63549
1748	494611.06	3859001.99	1.19428	0.24896	0.89734	0.82153	1.939	1.148	0.296	0.24896	12.460842	0.459810615	9.342E-05	0.043273	0.909019	0.161425	2.096983	1.69289081	14.43856
1749	494661.06	3859001.99	1.17463	0.24427	0.8762	0.78728	1.913	1.218	0.2907	0.24427	12.2558184	0.451148534	9.122E-05	0.041469	0.897	0.171314	2.059927	1.66099951	14.21577
1750	494711.06	3859001.99	1.15257	0.23724	0.85272	0.75838	1.884	1.284	0.2877	0.23724	12.0256494	0.438164646	8.877E-05	0.039947	0.883416	0.180666	2.038175	1.61319656	13.99291
1751	494761.06	3859001.99	1.136	0.23505	0.835	0.74937	1.857	1.54	0.2857	0.23505	11.8527619	0.434119879	8.693E-05	0.039472	0.8709	0.216605	2.024146	1.59830489	13.83979
1752	494811.06	3859001.99	1.12731	0.23401	0.81945	0.75002	1.832	1.695	0.2781	0.23401	11.7620924	0.432199077	8.531E-05	0.039507	0.858943	0.23849	1.970297	1.59123304	13.71038
1753	494861.06	3859001.99	1.10978	0.22745	0.80405	0.73534	1.797	1.485	0.2746	0.22745	11.5791885	0.420083244	8.371E-05	0.038733	0.842432	0.208881	1.945782	1.54662602	13.48856
1754	494911.06	3859001.99	1.09086	0.22161	0.78442	0.71286	1.77	1.764	0.2707	0.22161	11.3817815	0.409297198	8.166E-05	0.037549	0.829846	0.248173	1.918078	1.50691489	13.31789
1755	494961.06	3859001.99	1.07768	0.21932	0.7651	0.68911	1.736	1.889	0.2675	0.21932	11.2442645	0.405067738	7.965E-05	0.036298	0.813983	0.265675	1.895192	1.49134324	13.16922
1756	495011.06	3859001.99	1.02867	0.21648	0.71591	0.62814	1.676	1.928	0.253	0.21648	10.7329054	0.39982247	7.453E-05	0.033087	0.785899	0.271264	1.792596	1.47203166	12.54362
1757	495061.06	3859001.99	1.02032	0.21604	0.7071	0.61902	1.653	2.054	0.2504	0.21604	10.6457835	0.399009822	7.361E-05	0.032606	0.775334	0.288892	1.774174	1.46903973	12.44683
1758	495111.06	3859001.99	0.99925	0.21531	0.69204	0.59792	1.619	2.002	0.2412	0.21531	10.4259439	0.397661566	7.205E-05	0.031495	0.758969	0.281681	1.708918	1.46407584	12.14066
1759	495161.06	3859001.99	1.01515	0.21575	0.6988	0.61796	1.614	2.383	0.2488	0.21575	10.5918409	0.398474214	7.275E-05	0.03255	0.756737	0.335171	1.762979	1.46706777	12.41076
1760	495211.06	3859001.99	1.01062	0.21552	0.6953	0.61337	1.59	2.482	0.2471	0.21552	10.5445759	0.398049421	7.238E-05	0.032309	0.745722	0.349218	1.751005	1.4655038	12.35545
1761	495261.06	3859001.99	1.01133	0.21522	0.68609	0.61453	1.567	2.521	0.249	0.21522	10.5519839	0.397495343	7.143E-05	0.03237	0.734689	0.354637	1.764538	1.46346385	12.37232
1762	495311.06	3859001.99	1.00593	0.20979	0.6743	0.61214	1.555	2.671	0.2479	0.20979	10.4956415	0.387466537	7.02E-05	0.032244	0.72909	0.375686	1.756674	1.42654066	12.35033
1763	495361.06	3859001.99	1.00686	0.20338	0.66669	0.61607	1.542	2.711	0.2477	0.20338	10.5053449	0.375627743	6.941E-05	0.032451	0.723284	0.381366	1.755327	1.38295362	12.39052
1764	495411.06	3859001.99	1.00457	0.19578	0.6604	0.61845	1.508	2.826	0.2466	0.19578	10.4814516	0.361591108	6.875E-05	0.032576	0.707351	0.397489	1.747533	1.33127475	12.39679
1765	495461.06	3859001.99	1.00371	0.19246	0.65289	0.62273	1.515	2.931	0.2423	0.19246	10.4724786	0.355459315	6.797E-05	0.032802	0.710628	0.412311	1.716854	1.30869925	12.3919
1766	495511.06	3859001.99	0.98896	0.18958	0.63888	0.61303	1.526	3.012	0.239	0.18958	10.3185805	0.350140169	6.651E-05	0.032291	0.715758	0.423753	1.693472	1.28911568	12.24495

1767	495561.06	3859001.99	0.98135	0.18875	0.63287	0.60917	1.531	3.161	0.2362	0.18875	10.2391795	0.348607221	6.589E-05	0.032087	0.717943	0.444707	1.673704	1.2834718	12.17282
1768	495611.06	3859001.99	0.97215	0.18814	0.62793	0.59892	1.545	3.34	0.2301	0.18814	10.1431888	0.347480596	6.537E-05	0.031548	0.724307	0.46984	1.630129	1.27932389	12.06723
1769	495661.06	3859001.99	0.97999	0.18979	0.62813	0.60712	1.569	3.627	0.2368	0.18979	10.2249895	0.350528023	6.539E-05	0.031979	0.73588	0.510291	1.677743	1.29054365	12.24093
1770	494311.06	3859051.99	1.31225	0.2665	1.00472	0.98383	2.291	0.957	0.3331	0.2665	13.6917137	0.492205692	0.0001046	0.051822	1.074275	0.134583	2.360205	1.81216019	15.99275
1771	494361.06	3859051.99	1.30117	0.27225	1.01338	0.9867	2.29	0.981	0.3344	0.27225	13.5761076	0.502825514	0.0001055	0.051974	1.07405	0.137944	2.369557	1.85125933	15.8613
1772	494411.06	3859051.99	1.28629	0.2703	1.00596	0.97618	2.275	1.036	0.3326	0.2703	13.4208531	0.499224009	0.0001047	0.051419	1.067007	0.145702	2.356591	1.83799962	15.7029
1773	494461.06	3859051.99	1.2732	0.26673	0.99115	0.96351	2.195	1.074	0.3265	0.26673	13.284275	0.492630485	0.0001032	0.050752	1.029118	0.151111	2.313299	1.81372415	15.50757
1774	494511.06	3859051.99	1.2581	0.2626	0.97263	0.93728	2.066	1.079	0.3201	0.2626	13.1267251	0.485002682	0.0001013	0.04937	0.968679	0.151724	2.268237	1.78564077	15.2642
1775	494561.06	3859051.99	1.24438	0.26127	0.95073	0.91433	1.946	1.102	0.314	0.26127	12.9835738	0.48254627	9.898E-05	0.048161	0.912653	0.155002	2.224449	1.77659697	15.02989
1776	494611.06	3859051.99	1.22725	0.2577	0.9301	0.8834	1.876	1.309	0.3072	0.2577	12.8048433	0.475952746	9.683E-05	0.046532	0.879486	0.18409	2.17641	1.7523215	14.81509
1777	494661.06	3859051.99	1.20677	0.25241	0.90744	0.84865	1.867	1.442	0.3	0.25241	12.5911597	0.466182509	9.447E-05	0.044702	0.875364	0.202905	2.125608	1.71635029	14.58967
1778	494711.06	3859051.99	1.18492	0.24755	0.88377	0.81778	1.87	1.568	0.2947	0.24755	12.3631819	0.45720645	9.201E-05	0.043076	0.877071	0.220529	2.088056	1.68330302	14.36591
1779	494761.06	3859051.99	1.16838	0.24197	0.85916	0.78897	1.87	1.796	0.2896	0.24197	12.1906073	0.446900605	8.944E-05	0.041558	0.876719	0.2527	2.051779	1.64535985	14.21499
1780	494811.06	3859051.99	1.15491	0.2388	0.84278	0.77022	1.872	2.072	0.2881	0.2388	12.0500645	0.441045851	8.774E-05	0.040571	0.877657	0.291473	2.041151	1.62380433	14.11825
1781	494861.06	3859051.99	1.14168	0.23602	0.82619	0.75236	1.85	1.962	0.2848	0.23602	11.9120257	0.435911397	8.601E-05	0.03963	0.86751	0.27594	2.01784	1.60490074	13.94404
1782	494911.06	3859051.99	1.11879	0.23215	0.77548	0.72614	1.823	2.342	0.2744	0.23215	11.6731967	0.428763795	8.073E-05	0.038249	0.854826	0.32951	1.94394	1.57858532	13.68998
1783	494961.06	3859051.99	1.08303	0.22393	0.72986	0.68	1.783	2.668	0.2676	0.22393	11.3000851	0.413582066	7.598E-05	0.035818	0.835891	0.375264	1.896043	1.52269055	13.33407
1784	495011.06	3859051.99	1.06155	0.21669	0.71534	0.65837	1.742	2.96	0.2619	0.21669	11.0759678	0.400210324	7.447E-05	0.034679	0.816637	0.416376	1.855656	1.47345963	13.12614
1785	495061.06	3859051.99	1.04858	0.21579	0.7016	0.64539	1.707	3.099	0.2586	0.21579	10.9406418	0.398548091	7.304E-05	0.033995	0.800375	0.436008	1.832487	1.46733976	12.97479
1786	495111.06	3859051.99	1.0433	0.21571	0.69537	0.63805	1.676	3.256	0.2573	0.21571	10.8855515	0.398400337	7.239E-05	0.033609	0.786059	0.45808	1.823347	1.46679578	12.91832
1787	495161.06	3859051.99	1.05298	0.21602	0.69169	0.65223	1.667	3.785	0.262	0.21602	10.9865504	0.398972884	7.201E-05	0.034356	0.781519	0.532507	1.856506	1.46890373	13.12158
1788	495211.06	3859051.99	1.04526	0.21554	0.68087	0.64008	1.641	3.705	0.2583	0.21554	10.9060017	0.398086359	7.088E-05	0.033716	0.769557	0.521257	1.829936	1.4656398	12.99299
1789	495261.06	3859051.99	1.05122	0.21559	0.67582	0.65135	1.631	3.994	0.2581	0.21559	10.9681869	0.398178706	7.036E-05	0.034309	0.764788	0.561828	1.828873	1.46597979	13.09026
1790	495311.06	3859051.99	1.04565	0.21512	0.67267	0.64304	1.61	3.979	0.2535	0.21512	10.9100708	0.397310651	7.003E-05	0.033872	0.755082	0.559724	1.796352	1.46278386	12.9897
1791	495361.06	3859051.99	1.04406	0.21482	0.66674	0.64142	1.592	4.194	0.2532	0.21482	10.8934811	0.396756573	6.941E-05	0.033786	0.746665	0.589976	1.794084	1.46074391	12.99407
1792	495411.06	3859051.99	1.04397	0.21219	0.66025	0.64573	1.584	4.61	0.2531	0.21219	10.8925421	0.391899158	6.874E-05	0.034013	0.742693	0.648542	1.793163	1.4428603	13.06006
1793	495461.06	3859051.99	1.04232	0.2059	0.65024	0.64253	1.579	4.782	0.251	0.2059	10.8753264	0.380281996	6.769E-05	0.033845	0.740391	0.672719	1.778284	1.40008924	13.08082
1794	495511.06	3859051.99	1.03116	0.19905	0.63791	0.63339	1.549	4.555	0.2481	0.19905	10.7588855	0.367630555	6.641E-05	0.033363	0.726337	0.640822	1.757595	1.35351026	12.93119
1795	495561.06	3859051.99	1.01844	0.19375	0.63578	0.6238	1.516	4.74	0.2434	0.19375	10.626168	0.357841849	6.619E-05	0.032858	0.710741	0.666833	1.724577	1.31747106	12.80161
1796	495611.06	3859051.99	1.00709	0.1916	0.62865	0.61958	1.48	4.774	0.2402	0.1916	10.5077447	0.353870959	6.545E-05	0.032636	0.693832	0.671648	1.701975	1.30285138	12.65892
1797	495661.06	3859051.99	1.01355	0.19317	0.62924	0.6296	1.478	5.308	0.2413	0.19317	10.5751468	0.356770632	6.551E-05	0.033164	0.693048	0.74667	1.709768	1.31352714	12.80111
1798	494311.06	3859101.99	1.34576	0.288	1.04029	1.01028	2.292	1.047	0.342	0.288	14.0413493	0.531914594	0.0001083	0.053216	1.074571	0.147296	2.422839	1.95835698	16.31294
1799	494361.06	3859101.99	1.33139	0.28562	1.02546	1.00175	2.257	1.071	0.3411	0.28562	13.8914161	0.527518911	0.0001068	0.052766	1.058229	0.150603	2.416462	1.94217333	16.15493
1800	494411.06	3859101.99	1.3195	0.28439	1.01331	0.99666	2.279	1.119	0.3407	0.28439	13.7673585	0.525247192	0.0001055	0.052498	1.06862	0.157405	2.413982	1.93380952	16.05141
1801	494461.06	3859101.99	1.30506	0.28024	0.98472	0.98645	2.237	1.205	0.3384	0.28024	13.6166949	0.51758245	0.0001025	0.05196	1.048991	0.169531	2.397615	1.90559014	15.89689
1802	494511.06	3859101.99	1.28682	0.27436	0.95081	0.96868	2.224	1.261	0.332	0.27436	13.426383	0.506722527	9.899E-05	0.051024	1.043059	0.177323	2.35234	1.86560701	15.69134
1803	494561.06	3859101.99	1.27035	0.27063	0.92331	0.95802	2.214	1.284	0.3257	0.27063	13.2545388	0.499833495	9.612E-05	0.050463	1.037957	0.180687	2.307489	1.84024357	15.49082
1804	494611.06	3859101.99	1.25074	0.26387	0.88708	0.93534	2.11	1.417	0.3192	0.26387	13.0499326	0.487348277	9.235E-05	0.049268	0.989218	0.199336	2.261576	1.79427658	15.2425
1805	494661.06	3859101.99	1.23576	0.2624	0.86398	0.91646	1.989	1.552	0.313	0.2624	12.8936347	0.484633296	8.995E-05	0.048274	0.932802	0.218275	2.21786	1.7842808	15.01129
1806	494711.06	3859101.99	1.2119	0.25523	0.8337	0.87253	1.851	1.855	0.3056	0.25523	12.644685	0.471390839	8.679E-05	0.04596	0.867791	0.260959	2.165286	1.73552587	14.72063
1807	494761.06	3859101.99	1.20154	0.25445	0.82671	0.8634	1.822	2.613	0.2998	0.25445	12.5365911	0.469950237	8.607E-05	0.045479	0.854141	0.367517	2.124262	1.73022199	14.6678
1808	494811.06	3859101.99	1.18307	0.24901	0.79845	0.8386	1.811	3.141	0.2942	0.24901	12.3438794	0.459902962	8.312E-05	0.044172	0.849405	0.441823	2.084159	1.6932308	14.53019
1809	494861.06	3859101.99	1.16691	0.24248	0.77679	0.81731	1.802	3.092	0.29	0.24248	12.1752697	0.447842537	8.087E-05	0.043051	0.845199	0.435007	2.055038	1.64882778	14.35266
1810	494911.06	3859101.99	1.14662	0.23762	0.75192	0.78458	1.791	3.678	0.2862	0.23762	11.9635685	0.438866478	7.828E-05	0.041327	0.839816	0.517417	2.027901	1.6157805	14.21319
1811	494961.06	3859101.99	1.11255	0.23414	0.71735	0.72937	1.774	4.585	0.2761	0.23414	11.60809	0.432439177	7.468E-05	0.038419	0.831905	0.644952	1.955914	1.59211702	13.91968
1812	495011.06	3859101.99	1.07432	0.22638	0.69574	0.66598	1.751	4.441	0.2608	0.22638	11.209207	0.418107034	7.243E-05	0.03508	0.821171	0.624674	1.847791	1.53935018	13.41675
1813	495061.06	3859101.99	1.07334	0.22024	0.69211	0.67024	1.764	5.224	0.2644	0.22024	11.1989819	0.40676691	7.205E-05	0.035304	0.827394	0.734842	1.873086	1.4975991	13.57885
1814	495111.06	3859101.99	1.06524	0.21539	0.67742	0.66493	1.755	5.723	0.2625	0.21539	11.1144684	0.397809321	7.052E-05	0.035025	0.822958	0.805028	1.859553	1.46461982	13.57029
1815	495161.06	3859101.99	1.07135	0.21637	0.68217	0.67637	1.729	6.812	0.2683	0.21637	11.1782187	0.399619308	7.102E-05	0.035627	0.810879	0.958303	1.900861	1.47128368	13.81229
1816	495211.06	3859101.99	1.06602	0.21559	0.67343	0.6693	1.695	7.186	0.2659	0.21559	11.1226067	0.398178706	7.011E-05	0.035255	0.794841	1.010906	1.883714	1.46597979	13.77959
1817	495261.06	3859101.99	1.06573	0.21583	0.66903	0.6723	1.67	7.459	0.2673	0.21583	11.1195809	0.398621968	6.965E-05	0.035413	0.783301	1.049336	1.893846	1.46761176	13.81256
1818	495311.06	3859101.99	1.06566	0.21542	0.66315	0.66915	1.647	7.662	0.2665	0.21542	11.1188506	0.397864728	6.904E-05	0.035247	0.77239	1.07792	1.88832	1.46482382	13.82584
1819	495361.06	3859101.99	1.06346	0.21587	0.66634	0.67109	1.637	7.979	0.266	0.21587	11.0958963	0.398695845	6.937E-05	0.035349	0.767724	1.122462	1.884848	1.46788375	13.83716
1820	495411.06	3859101.99	1.06251	0.21568	0.66602	0.67139	1.619	8.168	0.2594	0.21568	11.0859842	0.398344929	6.934E-05	0.035365	0.759072	1.149083	1.837801	1.46659178	13.79913
1821	495461.06	3859101.99	1.06121	0.21448	0.65766	0.66608	1.605	8.023	0.257	0.21448	11.0724203	0.396128618	6.847E-05	0.035085	0.752587	1.128711	1.820654	1.45843196	13.74722
1822	495511.06	3859101.99	1.05779	0.21126	0.65629	0.6637	1.586	7.825	0.2552	0.21126	11.0367368	0.390181518	6.832E-05	0.03496	0.743856	1.100748	1.808397	1.43653644	13.67841
1823	495561.06	3859101.99	1.0475	0.20486	0.65657	0.65428	1.564	7.755	0.252	0.20486	10.9293733	0.378361193	6.835E-05	0.034464	0.733544	1.090918	1.785369	1.3930174	13.55908
1824	495611.06	3859101.99	1.0396	0.20093	0.65084	0.64125	1.547	7.939	0.2484	0.20093	10.8469465	0.371102775	6.776E-05	0.033777	0.72554	1.116811	1.759791	1.36629398	13.48774
1825	495661.06	3859101.99	1.0393	0.20303	0.65066	0.63958	1.543	8.415	0.247	0.20303	10.8438164	0.374981319	6.774E-05	0.033689	0.723697	1.183746	1.750084	1.38057367	13.52951

1826	494311.06	3859151.99	1.35533	0.3089	1.00747	1.02673	2.325	1.143	0.3493	0.3089
1827	494361.06	3859151.99	1.35015	0.30894	0.98978	1.02069	2.334	1.197	0.3494	0.30894
1828	494411.06	3859151.99	1.33958	0.30337	0.96724	1.00364	2.318	1.244	0.3466	0.30337
1829	494461.06	3859151.99	1.32392	0.29627	0.9508	0.99303	2.24	1.332	0.3436	0.29627
1830	494511.06	3859151.99	1.30684	0.28538	0.92429	0.9732	2.168	1.356	0.3401	0.28538
1831	494561.06	3859151.99	1.29454	0.28143	0.9043	0.96674	2.177	1.438	0.3378	0.28143
1832	494611.06	3859151.99	1.27826	0.27503	0.86367	0.94673	2.175	1.661	0.3318	0.27503
1833	494661.06	3859151.99	1.26477	0.27205	0.85135	0.93655	2.16	1.975	0.3257	0.27205
1834	494711.06	3859151.99	1.25201	0.26898	0.84183	0.92694	2.156	2.433	0.32	0.26898
1835	494761.06	3859151.99	1.23117	0.26378	0.81633	0.90116	2.05	3.399	0.3127	0.26378
1836	494811.06	3859151.99	1.21118	0.25989	0.79545	0.87899	1.897	5.146	0.3061	0.25989
1837	494861.06	3859151.99	1.19577	0.25612	0.78349	0.86032	1.795	7.405	0.2999	0.25612
1838	494911.06	3859151.99	1.16918	0.24567	0.75499	0.82899	1.74	10.53	0.2928	0.24567
1839	494961.06	3859151.99	1.14333	0.23544	0.72309	0.77765	1.715	12.17	0.284	0.23544
1840	495011.06	3859151.99	1.11667	0.23317	0.70293	0.72455	1.687	13.96	0.2753	0.23317
1841	495061.06	3859151.99	1.10918	0.23277	0.69769	0.72486	1.694	14.23	0.2712	0.23277
1842	495111.06	3859151.99	1.09948	0.22706	0.69103	0.71911	1.696	14.83	0.2686	0.22706
1843	495161.06	3859151.99	1.09945	0.22463	0.68944	0.7362	1.727	14.38	0.2703	0.22463
1844	495211.06	3859151.99	1.09152	0.21874	0.68364	0.73225	1.736	15.81	0.27	0.21874
1845	495261.06	3859151.99	1.08716	0.21802	0.67592	0.72787	1.744	15.36	0.2695	0.21802
1846	495311.06	3859151.99	1.08467	0.21779	0.67187	0.7255	1.724	15.19	0.269	0.21779
1847	495361.06	3859151.99	1.08207	0.21752	0.67154	0.7198	1.688	15.04	0.2684	0.21752
1848	495411.06	3859151.99	1.08831	0.21884	0.68249	0.72563	1.665	13.92	0.2686	0.21884
1849	495461.06	3859151.99	1.08639	0.21838	0.68338	0.71864	1.639	13.75	0.2682	0.21838
1850	495511.06	3859151.99	1.07723	0.2167	0.676	0.70074	1.615	13.8	0.2615	0.2167
1851	495561.06	3859151.99	1.06973	0.21571	0.6713	0.68862	1.597	13.75	0.2594	0.21571
1852	495611.06	3859151.99	1.0633	0.21197	0.66544	0.68433	1.579	13.86	0.258	0.21197
1853	495661.06	3859151.99	1.05879	0.20932	0.66144	0.67998	1.563	13.81	0.2553	0.20932
1854	494311.06	3859201.99	1.36362	0.32482	1.03001	1.02673	2.188	1.239	0.3592	0.32482
1855	494361.06	3859201.99	1.35281	0.32272	1.01463	1.03355	2.243	1.288	0.358	0.32272
1856	494411.06	3859201.99	1.34215	0.31751	0.99011	1.02993	2.226	1.372	0.3564	0.31751
1857	494461.06	3859201.99	1.3337	0.31109	0.96267	1.01323	2.223	1.429	0.3509	0.31109
1858	494511.06	3859201.99	1.32588	0.30823	0.94244	1.00417	2.234	1.418	0.3486	0.30823
1859	494561.06	3859201.99	1.30977	0.29753	0.91962	0.98513	2.242	1.539	0.3436	0.29753
1860	494611.06	3859201.99	1.29436	0.28863	0.90364	0.96312	2.177	1.852	0.3402	0.28863
1861	494661.06	3859201.99	1.28197	0.28423	0.89715	0.94448	2.116	2.181	0.337	0.28423
1862	494711.06	3859201.99	1.26922	0.28004	0.89015	0.93332	2.097	2.657	0.3327	0.28004
1863	494761.06	3859201.99	1.2528	0.27302	0.87169	0.91802	2.096	3.485	0.3261	0.27302
1864	494811.06	3859201.99	1.23596	0.26754	0.84285	0.90456	2.093	5.77	0.3197	0.26754
1865	494861.06	3859201.99	1.21825	0.26268	0.82044	0.88205	2.076	5.992	0.3122	0.26268
1866	494911.06	3859201.99	1.1943	0.25437	0.79544	0.84946	1.915	5.117	0.304	0.25437
1867	494961.06	3859201.99	1.1699	0.24224	0.77123	0.81775	1.764	4.626	0.2928	0.24224
1868	495011.06	3859201.99	1.14031	0.23557	0.73265	0.7592	1.676	5.017	0.2804	0.23557
1869	495061.06	3859201.99	1.14341	0.23534	0.74614	0.78482	1.652	5.587	0.2822	0.23534
1870	495111.06	3859201.99	1.13811	0.23604	0.74134	0.78092	1.658	5.908	0.2822	0.23604
1871	495161.06	3859201.99	1.13161	0.23585	0.73469	0.77379	1.667	5.936	0.2755	0.23585
1872	495211.06	3859201.99	1.12207	0.22879	0.7229	0.76133	1.67	5.958	0.2705	0.22879
1873	495261.06	3859201.99	1.1168	0.22955	0.71636	0.7603	1.679	5.869	0.2705	0.22955
1874	495311.06	3859201.99	1.11117	0.22794	0.70952	0.75899	1.688	6.01	0.2705	0.22794
1875	495361.06	3859201.99	1.10485	0.22919	0.70395	0.75774	1.702	6.179	0.2707	0.22919
1876	495411.06	3859201.99	1.10398	0.23244	0.70129	0.76307	1.719	6.042	0.2721	0.23244
1877	495461.06	3859201.99	1.09972	0.23138	0.69255	0.75718	1.711	6.106	0.2713	0.23138
1878	495511.06	3859201.99	1.09549	0.23036	0.68501	0.74812	1.686	6.268	0.2705	0.23036
1879	495561.06	3859201.99	1.08745	0.22541	0.67326	0.7293	1.645	6.267	0.268	0.22541
1880	495611.06	3859201.99	1.08099	0.22252	0.66701	0.71936	1.617	6.044	0.2625	0.22252
1881	495661.06	3859201.99	1.07492	0.22051	0.66356	0.71449	1.59	6.269	0.2609	0.22051
1882	494311.06	3859251.99	1.35559	0.34856	1.10739	0.97982	2.005	1.376	0.3708	0.34856
1883	494361.06	3859251.99	1.34865	0.34089	1.08512	0.97524	2.039	1.414	0.3678	0.34089
1884	494411.06	3859251.99	1.34143	0.32982	1.06093	0.96559	2.021	1.435	0.3623	0.32982

14.1412005	0.57051534	0.0001049	0.054082	1.090106	0.160792	2.474917	2.10047385	16.39124
14.0871536	0.570589217	0.000103	0.053764	1.094289	0.168441	2.475767	2.10074585	16.34936
13.9768686	0.560301841	0.0001007	0.052866	1.087128	0.175061	2.455503	2.06287068	16.24496
13.8134758	0.547188669	9.898E-05	0.052307	1.050356	0.187377	2.43453	2.01459174	16.07074
13.635267	0.527075648	9.622E-05	0.051262	1.016528	0.190687	2.40959	1.94054137	15.88996
13.5069317	0.519780292	9.414E-05	0.050922	1.020954	0.202335	2.393151	1.91368196	15.78049
13.3370699	0.507959968	8.991E-05	0.049868	1.019918	0.233616	2.350781	1.87016291	15.62914
13.1963184	0.502456129	8.863E-05	0.049332	1.012898	0.277791	2.307631	1.84989936	15.49662
13.0631835	0.496786067	8.764E-05	0.048826	1.010807	0.342266	2.266961	1.82902382	15.39989
12.8457437	0.487182054	8.498E-05	0.047468	0.961406	0.478134	2.215805	1.79366459	15.24216
12.6371727	0.479997513	8.281E-05	0.0463	0.889502	0.723948	2.168546	1.76721318	15.17834
12.4763883	0.473034603	8.157E-05	0.045317	0.841827	1.041683	2.124545	1.74157774	15.2613
12.1989544	0.45373423	7.86E-05	0.043666	0.815821	1.480864	2.074239	1.6705193	15.39684
11.9292414	0.43484018	7.528E-05	0.040962	0.804379	1.712371	2.011959	1.60095683	15.33287
11.6510771	0.430647659	7.318E-05	0.038165	0.791085	1.964094	1.950316	1.58552117	15.23994
11.5729282	0.429908889	7.263E-05	0.038181	0.794143	2.001494	1.921196	1.58280123	15.17512
11.4717206	0.419362943	7.194E-05	0.037878	0.795165	2.085553	1.903128	1.54397408	15.16891
11.4714076	0.414874914	7.177E-05	0.038779	0.809622	2.023396	1.915173	1.52745044	15.14587
11.3886678	0.403996522	7.117E-05	0.038571	0.814137	2.224734	1.912693	1.48739932	15.29547
11.3431766	0.402666735	7.037E-05	0.03834	0.817636	2.160268	1.909576	1.48250343	15.18923
11.3171965	0.402241942	6.995E-05	0.038215	0.808445	2.136588	1.906245	1.48093946	15.12806
11.2900687	0.401743272	6.991E-05	0.037915	0.791761	2.11606	1.901782	1.47910351	15.0603
11.3551754	0.404181214	7.105E-05	0.038222	0.780689	1.958782	1.903411	1.48807931	14.95245
11.3351426	0.403331628	7.114E-05	0.037854	0.768348	1.934867	1.900081	1.48495138	14.89474
11.2395693	0.400228793	7.038E-05	0.036911	0.757084	1.941754	1.852751	1.47352763	14.75484
11.161316	0.398400337	6.989E-05	0.036272	0.74908	1.934905	1.83773	1.46679578	14.65098
11.0942269	0.391492835	6.928E-05	0.036046	0.740414	1.950122	1.827881	1.44136433	14.59889
11.0471706	0.386598482	6.886E-05	0.035817	0.733075	1.942613	1.809105	1.42334473	14.5311
14.2276964	0.599918397	0.0001072	0.054082	1.025948	0.174278	2.545274	2.20872748	16.41858
14.1149074	0.596039853	0.0001056	0.054441	1.051729	0.181203	2.536488	2.19444779	16.34047
14.0036834	0.58641737	0.0001031	0.054251	1.043875	0.193076	2.524939	2.15902057	16.24732
13.9155181	0.574560107	0.0001002	0.053371	1.0423	0.201088	2.486041	2.11536553	16.15761
13.833926	0.5692779	9.811E-05	0.052894	1.047678	0.199436	2.470169	2.09591795	16.07756
13.665838	0.549515795	9.574E-05	0.051891	1.051345	0.216455	2.434813	2.02315955	15.94679
13.5050536	0.533078157	9.407E-05	0.050731	1.020795	0.260567	2.410581	1.96264088	15.81826
13.3757792	0.524951684	9.34E-05	0.04975	0.992102	0.30687	2.387412	1.93272154	15.70424
13.2427486	0.517213065	9.267E-05	0.049162	0.983305	0.373798	2.357158	1.90423017	15.61925
13.0714261	0.504247647	9.075E-05	0.048356	0.982639	0.490228	2.310536	1.85649521	15.55103
12.8957215	0.494126494	8.775E-05	0.047647	0.981392	0.81163	2.265402	1.81923203	15.67677
12.7109394	0.485150436	8.541E-05	0.046461	0.973556	0.84294	2.21205	1.78618476	15.485
12.4610506	0.469802483	8.281E-05	0.044745	0.898126	0.719794	2.153879	1.729678	15.0178
12.2064667	0.447399275	8.029E-05	0.043074	0.827295	0.650759	2.074523	1.64719581	14.6024
11.8977314	0.435080281	7.627E-05	0.03999	0.785955	0.705755	1.986664	1.60184081	14.24941
11.9300761	0.434655488	7.768E-05	0.04134	0.774805	0.786009	1.999772	1.60027684	14.36646
11.8747771	0.435948336	7.718E-05	0.041134	0.77767	0.83115	1.999347	1.60503674	14.35507
11.8069576	0.43559742	7.649E-05	0.040759	0.781913	0.835067	1.951875	1.60374477	14.2485
11.7074195	0.422558125	7.526E-05	0.040102	0.78287	0.838114	1.916236	1.55573782	14.15164
11.6524335	0.423961788	7.458E-05	0.040048	0.787315	0.825633	1.916307	1.56090571	14.08487
11.5936914	0.420988238	7.387E-05	0.039979	0.791601	0.845492	1.916448	1.54995795	14.05832
11.52775	0.423296895	7.329E-05	0.039913	0.798096	0.869286	1.918149	1.55845776	14.01811
11.5186726	0.429299403	7.301E-05	0.040194	0.806086	0.849924	1.927785	1.58055728	13.99148
11.4742247	0.427341662	7.21E-05	0.039884	0.802419	0.858932	1.922471	1.57334943	13.952
11.4300899	0.425457798	7.131E-05	0.039407	0.790696	0.881782	1.916519	1.56641359	13.91761
11.3462024	0.416315516	7.009E-05	0.038415	0.771156	0.881652	1.898522	1.53275433	13.81958
11.2788002	0.410977901	6.944E-05	0.037892	0.758134	0.850254	1.859695	1.51310276	13.68272
11.2154673	0.40726558	6.908E-05	0.037635	0.745713	0.88195	1.848854	1.49943506	13.63752
14.1439133	0.643764412	0.0001153	0.051611	0.940136	0.193612	2.627039	2.37015593	16.23004
14.0715029	0.629598492	0.000113	0.05137	0.956107	0.198917	2.605925	2.31800108	16.19553
13.9961711	0.609153025	0.0001104	0.050862	0.947836	0.201922	2.567168	2.24272673	16.13049

1885	494461.06	3859251.99	1.33102	0.32501	1.04501	0.96786	2.046	1.458	0.3591	0.32501
1886	494511.06	3859251.99	1.32124	0.31479	1.02188	0.95622	2.09	1.549	0.3528	0.31479
1887	494561.06	3859251.99	1.31163	0.31175	1.00198	0.95947	2.098	1.726	0.3496	0.31175
1888	494611.06	3859251.99	1.30313	0.30597	0.97212	0.94684	2.114	1.968	0.345	0.30597
1889	494661.06	3859251.99	1.29345	0.30237	0.95375	0.94937	2.125	2.345	0.3432	0.30237
1890	494711.06	3859251.99	1.2798	0.29515	0.93479	0.94326	2.143	2.997	0.3401	0.29515
1891	494761.06	3859251.99	1.26394	0.27941	0.88181	0.89244	2.081	3.817	0.3325	0.27941
1892	494811.06	3859251.99	1.25389	0.27947	0.88498	0.90804	2.03	5.462	0.3285	0.27947
1893	494861.06	3859251.99	1.23771	0.26785	0.83136	0.87043	1.984	5.488	0.3211	0.26785
1894	494911.06	3859251.99	1.21771	0.26197	0.80817	0.8418	1.922	4.668	0.3137	0.26197
1895	494961.06	3859251.99	1.20418	0.25645	0.79028	0.83541	1.922	3.84	0.307	0.25645
1896	495011.06	3859251.99	1.189	0.2491	0.77373	0.81417	1.857	3.548	0.2997	0.2491
1897	495061.06	3859251.99	1.18329	0.25142	0.76507	0.82029	1.831	3.557	0.2945	0.25142
1898	495111.06	3859251.99	1.17259	0.24739	0.75327	0.81356	1.768	3.683	0.2886	0.24739
1899	495161.06	3859251.99	1.16616	0.24767	0.74457	0.80659	1.705	3.752	0.2863	0.24767
1900	495211.06	3859251.99	1.15709	0.24603	0.73383	0.78979	1.645	3.909	0.2851	0.24603
1901	495261.06	3859251.99	1.15153	0.24441	0.7269	0.78685	1.634	3.895	0.2788	0.24441
1902	495311.06	3859251.99	1.14335	0.24441	0.72301	0.78178	1.641	3.87	0.2753	0.24441
1903	495361.06	3859251.99	1.13391	0.24387	0.71427	0.77988	1.648	3.839	0.275	0.24387
1904	495411.06	3859251.99	1.12867	0.24373	0.7121	0.78245	1.66	3.842	0.2762	0.24373
1905	495461.06	3859251.99	1.1194	0.24293	0.70438	0.7781	1.659	3.966	0.2755	0.24293
1906	495511.06	3859251.99	1.10578	0.23922	0.69259	0.76267	1.661	4.003	0.2726	0.23922
1907	495561.06	3859251.99	1.09704	0.23771	0.68838	0.75754	1.67	3.964	0.2712	0.23771
1908	495611.06	3859251.99	1.08575	0.23467	0.6791	0.74725	1.675	4.209	0.2692	0.23467
1909	495661.06	3859251.99	1.07744	0.2331	0.67445	0.74239	1.668	4.258	0.2679	0.2331
1910	494311.06	3859301.99	1.34688	0.37098	1.13145	0.98337	1.845	1.452	0.3808	0.37098
1911	494361.06	3859301.99	1.34021	0.36281	1.1064	0.97061	1.886	1.518	0.3769	0.36281
1912	494411.06	3859301.99	1.33344	0.35219	1.07751	0.94745	1.893	1.523	0.3692	0.35219
1913	494461.06	3859301.99	1.32653	0.3416	1.04731	0.92086	1.899	1.623	0.3629	0.3416
1914	494511.06	3859301.99	1.31962	0.33329	1.02616	0.90618	1.927	1.602	0.3579	0.33329
1915	494561.06	3859301.99	1.31449	0.32984	1.01545	0.90551	1.904	1.831	0.354	0.32984
1916	494611.06	3859301.99	1.3083	0.31861	1.00232	0.9054	1.889	2.183	0.3496	0.31861
1917	494661.06	3859301.99	1.30166	0.31298	0.98767	0.90556	1.939	2.563	0.346	0.31298
1918	494711.06	3859301.99	1.29316	0.30609	0.95354	0.90037	1.962	3.167	0.3417	0.30609
1919	494761.06	3859301.99	1.28162	0.2996	0.93134	0.88913	1.987	3.698	0.3386	0.2996
1920	494811.06	3859301.99	1.26842	0.29048	0.90021	0.86719	2.01	5.138	0.3336	0.29048
1921	494861.06	3859301.99	1.24915	0.27839	0.8647	0.83968	2.021	4.932	0.3274	0.27839
1922	494911.06	3859301.99	1.23617	0.27192	0.84888	0.83258	1.995	4.709	0.3222	0.27192
1923	494961.06	3859301.99	1.21449	0.26273	0.81463	0.80114	1.914	3.741	0.3148	0.26273
1924	495011.06	3859301.99	1.20163	0.25752	0.79854	0.78729	1.906	3.386	0.3091	0.25752
1925	495061.06	3859301.99	1.20436	0.26522	0.80434	0.81541	1.892	3.399	0.3051	0.26522
1926	495111.06	3859301.99	1.18638	0.2609	0.78532	0.79731	1.845	3.139	0.2985	0.2609
1927	495161.06	3859301.99	1.17662	0.25909	0.77942	0.80863	1.864	3.071	0.2932	0.25909
1928	495211.06	3859301.99	1.17107	0.25924	0.77556	0.82992	1.856	3.152	0.2893	0.25924
1929	495261.06	3859301.99	1.16304	0.25926	0.77453	0.83415	1.821	3.174	0.2885	0.25926
1930	495311.06	3859301.99	1.15008	0.25599	0.76086	0.82233	1.732	3.081	0.2859	0.25599
1931	495361.06	3859301.99	1.14299	0.25627	0.75458	0.82647	1.666	3.155	0.2841	0.25627
1932	495411.06	3859301.99	1.13421	0.25405	0.74502	0.82226	1.602	2.896	0.2789	0.25405
1933	495461.06	3859301.99	1.12597	0.25388	0.7381	0.81986	1.607	2.78	0.2789	0.25388
1934	495511.06	3859301.99	1.11416	0.24882	0.72445	0.80588	1.612	2.888	0.2772	0.24882
1935	495561.06	3859301.99	1.09976	0.24266	0.70387	0.7791	1.609	3.105	0.2736	0.24266
1936	495611.06	3859301.99	1.09282	0.24085	0.69305	0.7732	1.612	3.226	0.2722	0.24085
1937	495661.06	3859301.99	1.08459	0.23899	0.67748	0.7672	1.613	2.992	0.2707	0.23899
1938	494311.06	3859351.99	1.33784	0.38882	1.13972	1.03894	1.91	1.73	0.3871	0.38882
1939	494361.06	3859351.99	1.32876	0.3815	1.11178	1.00723	1.808	1.769	0.3829	0.3815
1940	494411.06	3859351.99	1.32065	0.36788	1.07993	0.9745	1.763	1.815	0.376	0.36788
1941	494461.06	3859351.99	1.31207	0.35826	1.04695	0.95464	1.763	1.86	0.3699	0.35826
1942	494511.06	3859351.99	1.30352	0.34877	1.01485	0.93918	1.778	1.931	0.3639	0.34877
1943	494561.06	3859351.99	1.29812	0.34345	0.99003	0.92304	1.803	2.08	0.3597	0.34345

13.8875556	0.600269313	0.0001088	0.050981	0.95946	0.205095	2.544141	2.21001945	16.03759
13.7855133	0.581393732	0.0001064	0.050368	0.980004	0.217941	2.499361	2.14052497	15.97416
13.6852448	0.575779078	0.0001043	0.050539	0.983858	0.242872	2.4769	2.11985343	15.89544
13.5965577	0.565103848	0.0001012	0.049874	0.991492	0.276844	2.444095	2.08055029	15.84352
13.4955589	0.558454916	9.929E-05	0.050007	0.996613	0.329885	2.431342	2.05607083	15.80589
13.3531379	0.545120112	9.732E-05	0.049685	1.004678	0.421612	2.409448	2.00697591	15.7768
13.1876583	0.516049502	9.18E-05	0.047008	0.975765	0.53692	2.355953	1.89994626	15.7195
13.0827989	0.516160318	9.213E-05	0.04783	0.951958	0.768392	2.327754	1.90035425	15.79463
12.9139806	0.494699041	8.655E-05	0.045849	0.930547	0.771988	2.275393	1.82133999	15.6112
12.7053052	0.483839118	8.414E-05	0.044341	0.901122	0.656729	2.222394	1.78135686	15.23246
12.5641363	0.473644089	8.227E-05	0.044004	0.901263	0.540258	2.174922	1.74382169	14.95449
12.4057517	0.460069185	8.055E-05	0.042886	0.870806	0.499085	2.123695	1.69384279	14.70853
12.3461748	0.464354053	7.965E-05	0.043208	0.858432	0.50036	2.08678	1.70961844	14.58977
12.2345335	0.456910942	7.842E-05	0.042854	0.828998	0.518158	2.044552	1.68221504	14.44387
12.1674444	0.457428081	7.751E-05	0.042486	0.799362	0.527803	2.028468	1.684119	14.33895
12.0728101	0.454399123	7.64E-05	0.041601	0.771414	0.549852	2.020036	1.67296725	14.23722
12.0147983	0.451407104	7.567E-05	0.041447	0.76612	0.547929	1.97554	1.66195149	14.13537
11.9294501	0.451407104	7.527E-05	0.04118	0.769346	0.54444	1.950458	1.66195149	14.02441
11.8309553	0.450409764	7.436E-05	0.041079	0.772666	0.540013	1.94812	1.65827957	13.92504
11.7762824	0.450151194	7.413E-05	0.041215	0.778312	0.540489	1.957189	1.65732759	13.88639
11.6795613	0.448673654	7.333E-05	0.040986	0.77789	0.557913	1.951946	1.65188771	13.80516
11.5374534	0.441821559	7.21E-05	0.040173	0.778842	0.563093	1.931328	1.62666026	13.66612
11.4462622	0.439032702	7.166E-05	0.039903	0.783194	0.557619	1.921833	1.61639249	13.57152
11.328465	0.433418048	7.07E-05	0.039361	0.785421	0.592042	1.907167	1.59572094	13.49022
11.2417604	0.430518374	7.021E-05	0.039105	0.782284	0.598975	1.897885	1.58504518	13.40555
14.0530352	0.685172486	0.0001178	0.051798	0.865372	0.204294	2.698035	2.52260858	16.03521
13.9834419	0.670083103	0.0001152	0.051126	0.884321	0.213592	2.670614	2.4670538	16.00624
13.9128053	0.650468753	0.0001122	0.049906	0.887805	0.214232	2.616057	2.39483939	15.93655
13.8407079	0.63090981	0.000109	0.048505	0.890674	0.22837	2.571136	2.32282897	15.88758
13.7686106	0.615561857	0.0001068	0.047732	0.903584	0.225322	2.535709	2.26632221	15.8303
13.7150854	0.609189964	0.0001057	0.047697	0.892822	0.257544	2.508076	2.24286273	15.78766
13.6505003	0.588448988	0.0001043	0.047691	0.885741	0.307133	2.477042	2.1665004	15.79016
13.5812201	0.578050797	0.0001028	0.0477	0.909436	0.360541	2.451677	2.12821724	15.80051
13.4925331	0.565325479	9.927E-05	0.047426	0.920062	0.445503	2.420855	2.08136627	15.81044
13.3721274	0.553338931	9.696E-05	0.046834	0.931719	0.520219	2.399387	2.03723524	15.78649
13.2344016	0.536494969	9.372E-05	0.045678	0.94242	0.72274	2.363464	1.97522061	15.87007
13.0333429	0.514165638	9.002E-05	0.044229	0.947897	0.693772	2.319605	1.89301041	15.66009
12.8979126	0.502216029	8.837E-05	0.043855	0.935316	0.662466	2.282974	1.84901538	15.47581
12.6717084	0.485242782	8.481E-05	0.042199	0.897675	0.526222	2.230259	1.78652475	15.06687
12.5375302	0.475620299	8.313E-05	0.04147	0.893549	0.476356	2.190156	1.75109753	14.86367
12.5660144	0.489841627	8.374E-05	0.042951	0.886998	0.478144	2.161673	1.80345638	14.82225
12.3784152	0.481862908	8.176E-05	0.041998	0.865358	0.441592	2.115051	1.77408102	14.55028
12.2765816	0.478519972	8.114E-05	0.042594	0.874047	0.431987	2.077499	1.7617733	14.41954
12.2186742	0.478797011	8.074E-05	0.043715	0.870506	0.443413	2.049795	1.76279327	14.34219
12.134891	0.47883395	8.063E-05	0.043938	0.853888	0.446463	2.044197	1.76292927	14.23936
11.9996694	0.472794503	7.921E-05	0.043315	0.812027	0.433439	2.025846	1.74069376	14.04648
11.9256939	0.473311642	7.856E-05	0.043534	0.781093	0.443776	2.012809	1.74259772	13.9377
11.8340854	0.469211467	7.756E-05	0.043312	0.751424	0.407359	1.976249	1.72750205	13.75422
11.7481112	0.46889749	7.684E-05	0.043185	0.7536	0.391055	1.976107	1.72634607	13.65469
11.6248884	0.459552046	7.542E-05	0.042449	0.756076	0.406336	1.964133	1.69193883	13.56157
11.4746421	0.448174984	7.328E-05	0.041038	0.754355	0.436852	1.938555	1.65005175	13.44364
11.4022317	0.444832048	7.215E-05	0.040728	0.75601	0.453871	1.928635	1.63774402	13.38864
11.3163618	0.441396766	7.053E-05	0.040412	0.756437	0.42086	1.917653	1.6250963	13.26809
13.9587139	0.71812164	0.0001187	0.054725	0.895739	0.243408	2.742672	2.64391792	15.96958
13.8639753	0.704602144	0.0001157	0.053055	0.847947	0.248914	2.712772	2.59414301	15.83724
13.7793574	0.679447016	0.0001124	0.051331	0.826536	0.255364	2.664379	2.50152904	15.755
13.6898356	0.661679591	0.000109	0.050285	0.826897	0.261685	2.621158	2.43611448	15.67553
13.6006269	0.644152267	0.0001057	0.04947	0.833527	0.271688	2.578292	2.3715839	15.60628
13.5442846	0.634326622	0.0001031	0.04862	0.845607	0.292615	2.548533	2.33540869	15.57868

1944	494611.06	3859351.99	1.29014	0.33782	0.96902	0.90594	1.81	2.411	0.3545	0.33782	13.4610231	0.623928431	0.0001009	0.04772	0.848917	0.339106	2.51169	2.29712553	15.53536
1945	494661.06	3859351.99	1.29509	0.33367	0.94545	0.8915	1.832	2.781	0.3496	0.33367	13.5126702	0.616263689	9.843E-05	0.046959	0.859276	0.391214	2.477255	2.26890615	15.63483
1946	494711.06	3859351.99	1.28942	0.32016	0.91551	0.88019	1.798	3.287	0.344	0.32016	13.4535108	0.591311723	9.531E-05	0.046363	0.843332	0.462401	2.437222	2.17704017	15.6572
1947	494761.06	3859351.99	1.2829	0.30726	0.88177	0.8628	1.772	3.881	0.3372	0.30726	13.3854826	0.567486382	9.18E-05	0.045447	0.831122	0.545942	2.389113	2.0893221	15.67536
1948	494811.06	3859351.99	1.27059	0.29253	0.85383	0.83917	1.773	5.145	0.3301	0.29253	13.2570429	0.540281167	8.889E-05	0.044203	0.831412	0.723743	2.339019	1.9891603	15.74663
1949	494861.06	3859351.99	1.25965	0.28803	0.83984	0.83158	1.775	5.19	0.3285	0.28803	13.1428975	0.531970001	8.743E-05	0.043803	0.832364	0.730099	2.327612	1.95856097	15.65027
1950	494911.06	3859351.99	1.24653	0.28542	0.82925	0.82614	1.786	4.748	0.3276	0.28542	13.0060064	0.527149525	8.633E-05	0.043516	0.837569	0.667981	2.321448	1.94081336	15.46294
1951	494961.06	3859351.99	1.22861	0.28101	0.81144	0.81361	1.831	4.166	0.3238	0.28101	12.8190333	0.519004583	8.448E-05	0.042856	0.858441	0.58599	2.294027	1.91082602	15.20861
1952	495011.06	3859351.99	1.21194	0.2786	0.79003	0.8045	1.905	3.647	0.3187	0.2786	12.6451023	0.514553492	8.225E-05	0.042376	0.893394	0.513106	2.257821	1.89443838	14.972
1953	495061.06	3859351.99	1.20427	0.28231	0.79034	0.81717	1.959	3.534	0.3155	0.28231	12.5650753	0.521405587	8.228E-05	0.043044	0.91865	0.497128	2.23536	1.91966583	14.86108
1954	495111.06	3859351.99	1.19241	0.27913	0.76792	0.81609	1.912	3.339	0.3099	0.27913	12.4413308	0.515532363	7.995E-05	0.042987	0.896667	0.469775	2.195966	1.8980423	14.6643
1955	495161.06	3859351.99	1.18334	0.27814	0.76164	0.82143	1.876	3.16	0.3046	0.27814	12.3466965	0.513703906	7.929E-05	0.043268	0.879899	0.444514	2.157847	1.89131045	14.4947
1956	495211.06	3859351.99	1.17421	0.27454	0.75587	0.8301	1.872	3.025	0.2991	0.27454	12.2514362	0.507054974	7.869E-05	0.043725	0.877939	0.425485	2.118877	1.86683099	14.35776
1957	495261.06	3859351.99	1.1667	0.27461	0.75614	0.84391	1.841	2.894	0.2942	0.27461	12.1730786	0.507184259	7.872E-05	0.044452	0.863238	0.407137	2.084513	1.86730698	14.21237
1958	495311.06	3859351.99	1.1552	0.27075	0.74485	0.83904	1.844	2.817	0.2915	0.27075	12.0530903	0.500055126	7.754E-05	0.044196	0.864715	0.396324	2.065312	1.84105955	14.08271
1959	495361.06	3859351.99	1.14523	0.26908	0.73575	0.84852	1.881	2.685	0.2896	0.26908	11.9490656	0.49697076	7.66E-05	0.044695	0.882075	0.377744	2.05185	1.8297038	13.97277
1960	495411.06	3859351.99	1.13976	0.26872	0.72667	0.86037	1.835	2.695	0.2883	0.26872	11.8919929	0.496305867	7.565E-05	0.045319	0.860668	0.379118	2.042355	1.82725586	13.88858
1961	495461.06	3859351.99	1.13494	0.26821	0.72179	0.86417	1.79	2.743	0.287	0.26821	11.8417021	0.495363935	7.514E-05	0.045519	0.839567	0.385874	2.03364	1.82378793	13.81795
1962	495511.06	3859351.99	1.12604	0.26256	0.7102	0.84465	1.695	2.758	0.2805	0.26256	11.7488415	0.484928805	7.394E-05	0.044491	0.79487	0.38796	1.987302	1.78536878	13.6631
1963	495561.06	3859351.99	1.11556	0.258	0.70082	0.83487	1.6	2.945	0.2786	0.258	11.6394956	0.476506823	7.296E-05	0.043976	0.750196	0.414232	1.973769	1.75436146	13.54389
1964	495611.06	3859351.99	1.10736	0.2528	0.69332	0.82532	1.553	2.861	0.2771	0.2528	11.5539387	0.46690281	7.218E-05	0.043473	0.728344	0.402416	1.963141	1.71900223	13.43929
1965	495661.06	3859351.99	1.09751	0.24845	0.67831	0.80567	1.561	2.695	0.2741	0.24845	11.4511661	0.458868683	7.062E-05	0.042438	0.731753	0.379075	1.941956	1.68942288	13.3159
1966	494311.06	3859401.99	1.32658	0.41363	1.10593	1.06853	1.977	2.029	0.402	0.41363	13.8412296	0.763943866	0.0001151	0.056284	0.927002	0.285388	2.848598	2.81262221	15.90994
1967	494361.06	3859401.99	1.31709	0.39922	1.07847	1.05112	1.916	2.001	0.3924	0.39922	13.7422132	0.737329667	0.0001123	0.055367	0.898487	0.281533	2.780296	2.71463636	15.7807
1968	494411.06	3859401.99	1.3108	0.38474	1.05048	1.02779	1.882	2.093	0.3837	0.38474	13.6765848	0.710586183	0.0001094	0.054138	0.882351	0.294448	2.718582	2.61617452	15.72063
1969	494461.06	3859401.99	1.30444	0.37687	1.02291	0.99669	1.818	2.133	0.3779	0.37687	13.610226	0.696050878	0.0001065	0.0525	0.852565	0.300116	2.6777	2.5626597	15.6266
1970	494511.06	3859401.99	1.29994	0.37239	0.99767	0.97578	1.714	2.24	0.3741	0.37239	13.563274	0.687776651	0.0001039	0.051398	0.80376	0.315087	2.650846	2.53219637	15.54005
1971	494561.06	3859401.99	1.28807	0.36526	0.97006	0.96047	1.695	2.348	0.3691	0.36526	13.4394252	0.674608071	0.000101	0.050592	0.794856	0.330239	2.614923	2.48371343	15.42103
1972	494611.06	3859401.99	1.27504	0.3544	0.9415	0.94067	1.679	2.819	0.364	0.3544	13.3034732	0.654550458	9.802E-05	0.049549	0.787386	0.396541	2.579355	2.40986706	15.36108
1973	494661.06	3859401.99	1.26355	0.348	0.93451	0.9232	1.687	3.049	0.3603	0.348	13.1835892	0.642730134	9.729E-05	0.048629	0.791071	0.428977	2.552501	2.36634801	15.28125
1974	494711.06	3859401.99	1.25646	0.34072	0.92108	0.90608	1.721	3.272	0.356	0.34072	13.1096137	0.629284515	9.589E-05	0.047727	0.806963	0.460273	2.522318	2.3168451	15.25943
1975	494761.06	3859401.99	1.25803	0.33091	0.85814	0.87612	1.72	3.825	0.3438	0.33091	13.1259948	0.611166174	8.934E-05	0.046149	0.80648	0.53803	2.435664	2.25013857	15.31343
1976	494811.06	3859401.99	1.25131	0.31922	0.8514	0.85657	1.725	4.86	0.3393	0.31922	13.0558798	0.589575613	8.864E-05	0.045119	0.808665	0.68375	2.403921	2.17064831	15.41635
1977	494861.06	3859401.99	1.24311	0.3077	0.82102	0.83692	1.678	5.765	0.3327	0.3077	12.9703229	0.568299029	8.547E-05	0.044084	0.786959	0.810955	2.357512	2.09231403	15.4459
1978	494911.06	3859401.99	1.23575	0.29849	0.79259	0.82412	1.675	4.925	0.3294	0.29849	12.8935304	0.551288844	8.251E-05	0.04341	0.785229	0.692814	2.333634	2.02968741	15.2703
1979	494961.06	3859401.99	1.22852	0.29658	0.78052	0.81427	1.696	4.408	0.3282	0.29658	12.8180942	0.547761216	8.126E-05	0.042891	0.795334	0.620138	2.325486	2.01669969	15.13309
1980	495011.06	3859401.99	1.21923	0.29497	0.77234	0.80736	1.714	3.87	0.326	0.29497	12.7211645	0.544787666	8.041E-05	0.042527	0.803943	0.544477	2.309686	2.00575194	14.96091
1981	495061.06	3859401.99	1.20605	0.29238	0.76637	0.80672	1.733	3.652	0.3219	0.29238	12.5836474	0.540004128	7.978E-05	0.042493	0.812698	0.513692	2.280848	1.98814032	14.78532
1982	495111.06	3859401.99	1.1889	0.28827	0.75396	0.80413	1.746	3.421	0.3172	0.28827	12.4047083	0.532413264	7.849E-05	0.042357	0.818855	0.481235	2.247122	1.96019294	14.56658
1983	495161.06	3859401.99	1.17738	0.2898	0.74635	0.80576	1.833	3.368	0.3135	0.2898	12.2845113	0.53523906	7.77E-05	0.042443	0.859299	0.473835	2.221331	1.97059671	14.44614
1984	495211.06	3859401.99	1.16847	0.2906	0.74089	0.80894	1.896	3.291	0.3092	0.2906	12.1915464	0.5367166	7.713E-05	0.04261	0.888916	0.462919	2.190439	1.97603659	14.33719
1985	495261.06	3859401.99	1.16265	0.28828	0.73991	0.81122	1.898	3.119	0.3041	0.28828	12.1308218	0.532431733	7.703E-05	0.04273	0.889793	0.438792	2.1548	1.96026093	14.22918
1986	495311.06	3859401.99	1.15786	0.28616	0.73776	0.81721	1.853	2.809	0.299	0.28616	12.0808441	0.52851625	7.681E-05	0.043046	0.868973	0.395122	2.11831	1.94584525	14.08904
1987	495361.06	3859401.99	1.15531	0.28687	0.74262	0.8337	1.831	2.848	0.297	0.28687	12.054238	0.529827568	7.731E-05	0.043914	0.858521	0.400649	2.104423	1.95067315	14.04098
1988	495411.06	3859401.99	1.14886	0.28575	0.74292	0.84485	1.826	2.63	0.2957	0.28575	11.9869402	0.527759011	7.734E-05	0.044502	0.856129	0.369972	2.094999	1.94305731	13.93732
1989	495461.06	3859401.99	1.14153	0.2832	0.72874	0.85088	1.79	2.679	0.2936	0.2832	11.9104606	0.52304935	7.587E-05	0.044819	0.839586	0.376893	2.080191	1.92571769	13.84936
1990	495511.06	3859401.99	1.13458	0.27984	0.70826	0.84753	1.815	2.661	0.2899	0.27984	11.8379459	0.51684368	7.373E-05	0.044643	0.851027	0.374371	2.053975	1.9028702	13.77601
1991	495561.06	3859401.99	1.12623	0.27118	0.68616	0.83228	1.793	2.623	0.2853	0.27118	11.750824	0.500849304	7.143E-05	0.04384	0.840753	0.369025	2.021737	1.84398349	13.68312
1992	495611.06	3859401.99	1.11877	0.26795	0.67493	0.83356	1.72	2.563	0.2814	0.26795	11.672988	0.494883734	7.026E-05	0.043907	0.806625	0.360596	1.993679	1.82201997	13.55073
1993	495661.06	3859401.99	1.11174	0.26247	0.66645	0.83791	1.659	2.461	0.2801	0.26247	11.5996386	0.484762581	6.938E-05	0.044136	0.777773	0.346161	1.98461	1.78475679	13.45239
1994	494311.06	3859451.99	1.33785	0.43302	1.1097	1.05856	2.169	2.205	0.4124	0.43302	13.9588182	0.799755755	0.0001155	0.055759	1.017269	0.310221	2.92179	2.94447131	16.11926
1995	494361.06	3859451.99	1.3266	0.42164	1.08689	1.03839	2.126	2.397	0.4104	0.42164	13.8414383	0.77873774	0.0001132	0.054696	0.996772	0.337145	2.908045	2.86708901	16.04986
1996	494411.06	3859451.99	1.31657	0.40081	1.04236	1.02046	1.968	2.638	0.3913	0.40081	13.7367876	0.740266279	0.0001085	0.053752	0.92287	0.37111	2.772573	2.72544812	15.87202
1997	494461.06	3859451.99	1.3048	0.39692	1.0219	1.01738	1.895	2.736	0.3896	0.39692	13.6139821	0.733081738	0.0001064	0.05359	0.888677	0.384956	2.760102	2.6989967	15.7355
1998	494511.06	3859451.99	1.29352	0.38653	0.99242	1	1.859	2.869	0.3841	0.38653	13.4962892	0.71389218	0.0001033	0.052674	0.87165	0.403634	2.721275	2.62834626	15.63117
1999	494561.06	3859451.99	1.28972	0.37908	0.96708	0.99008	1.825	3.042	0.3793	0.37908	13.4566409	0.700132584	0.0001007	0.052152	0.855815	0.427985	2.687407	2.57768737	15.60254
2000	494611.06	3859451.99	1.2856	0.37656	0.94932	0.98321	1.751	3.539	0.3777	0.37656	13.4136538	0.695478331	9.883E-05	0.05179	0.821115	0.497888	2.675928	2.56055175	15.5954
2001	494661.06	3859451.99	1.27816	0.36693	0.93529	0.95627	1.652	3.758	0.3701	0.36693	13.3360265	0.677692437	9.737E-05	0.050371	0.77442	0.528726	2.621938	2.49506919	15.4942
2002	494711.06	3859451.99	1.2651	0.35659	0.91581	0.92793	1.637	3.998	0.3626	0.35659	13.1997615	0.658595225	9.534E-05	0.048878	0.767452	0.562412	2.568939	2.42475873	15.38137

2003	494761.06	3859451.99	1.25298	0.34687	0.89897	0.90836	1.621	4.365	0.3577	0.34687	13.0733042	0.640643108	9.359E-05	0.047847	0.760146	0.613984	2.534363	2.35866418	15.31172
2004	494811.06	3859451.99	1.24011	0.33374	0.87681	0.8854	1.597	5.256	0.3497	0.33374	12.9390216	0.616392974	9.128E-05	0.046638	0.748653	0.739426	2.477963	2.26938214	15.2988
2005	494861.06	3859451.99	1.22597	0.32815	0.84061	0.86592	1.603	5.183	0.3426	0.32815	12.7914881	0.606068659	8.751E-05	0.045612	0.751513	0.729179	2.42709	2.23137098	15.11967
2006	494911.06	3859451.99	1.21573	0.31787	0.81973	0.85116	1.631	5.873	0.3389	0.31787	12.6846463	0.587082263	8.534E-05	0.044834	0.764948	0.826234	2.40137	2.16146851	15.14773
2007	494961.06	3859451.99	1.21113	0.31463	0.81513	0.84083	1.658	5.252	0.3376	0.31463	12.636651	0.581098224	8.486E-05	0.04429	0.777248	0.738874	2.39216	2.139437	15.03097
2008	495011.06	3859451.99	1.20883	0.31208	0.8085	0.83211	1.636	4.926	0.3362	0.31208	12.6126533	0.576388564	8.417E-05	0.043831	0.767339	0.693015	2.381815	2.12209738	14.95303
2009	495061.06	3859451.99	1.20658	0.30968	0.79027	0.82452	1.626	4.494	0.3322	0.30968	12.5891773	0.571955942	8.227E-05	0.043431	0.762519	0.632172	2.353828	2.10577774	14.84739
2010	495111.06	3859451.99	1.20388	0.30555	0.77116	0.81821	1.644	4.05	0.3273	0.30555	12.5610061	0.564328139	8.028E-05	0.043098	0.770772	0.569765	2.319039	2.07769435	14.75039
2011	495161.06	3859451.99	1.19568	0.30429	0.75456	0.81567	1.673	3.558	0.3236	0.30429	12.4754492	0.562001013	7.855E-05	0.042965	0.784446	0.500558	2.292894	2.06912654	14.58926
2012	495211.06	3859451.99	1.18571	0.30408	0.74395	0.81405	1.682	3.428	0.3199	0.30408	12.3714246	0.561613158	7.745E-05	0.042879	0.788656	0.482272	2.266253	2.06769857	14.44548
2013	495261.06	3859451.99	1.1724	0.30338	0.73404	0.81203	1.709	3.15	0.3165	0.30338	12.2325511	0.56032031	7.642E-05	0.042773	0.801228	0.443164	2.242446	2.06293868	14.25962
2014	495311.06	3859451.99	1.16265	0.30083	0.72343	0.81123	1.761	2.836	0.3116	0.30083	12.1308218	0.55561065	7.531E-05	0.042731	0.825879	0.399001	2.207657	2.04559906	14.11618
2015	495361.06	3859451.99	1.1534	0.2984	0.72096	0.81182	1.826	2.663	0.3068	0.2984	12.0343095	0.551122621	7.506E-05	0.042762	0.856298	0.374666	2.173505	2.02907542	14.00366
2016	495411.06	3859451.99	1.14348	0.29508	0.71768	0.81316	1.848	2.641	0.3026	0.29508	11.9308065	0.544990827	7.471E-05	0.042832	0.866689	0.371515	2.143747	2.00649992	13.89416
2017	495461.06	3859451.99	1.13897	0.293	0.71511	0.81902	1.831	2.582	0.3009	0.293	11.8837502	0.541149222	7.445E-05	0.043141	0.858539	0.36318	2.132198	1.99235623	13.82968
2018	495511.06	3859451.99	1.13277	0.28622	0.70213	0.81454	1.782	2.579	0.2958	0.28622	11.8190608	0.528627066	7.31E-05	0.042905	0.835398	0.362822	2.095921	1.94625324	13.73855
2019	495561.06	3859451.99	1.12777	0.28279	0.69664	0.81749	1.77	2.475	0.2928	0.28279	11.766892	0.522292111	7.252E-05	0.043061	0.829945	0.348241	2.074664	1.92292975	13.66224
2020	495611.06	3859451.99	1.12145	0.2799	0.69114	0.82	1.739	2.31	0.2907	0.2799	11.7009505	0.516954496	7.195E-05	0.043193	0.815286	0.324923	2.059714	1.90327819	13.55782
2021	495661.06	3859451.99	1.11452	0.27695	0.68316	0.82501	1.73	2.258	0.2884	0.27695	11.6286445	0.511506065	7.112E-05	0.043457	0.811357	0.317684	2.043489	1.88321863	13.47299
2022	494311.06	3859501.99	1.35117	0.45279	1.10952	1.11647	2.148	2.265	0.4196	0.45279	14.097796	0.836269475	0.0001155	0.058809	1.007407	0.318581	2.972663	3.07890436	16.21274
2023	494361.06	3859501.99	1.3437	0.44425	1.0867	1.07059	2.143	2.943	0.4118	0.44425	14.0198558	0.82049673	0.0001131	0.056392	1.004763	0.414071	2.917397	3.02083363	16.21225
2024	494411.06	3859501.99	1.33236	0.41903	1.04409	1.01257	2.115	3.3	0.3996	0.41903	13.9015368	0.773917264	0.0001087	0.053336	0.991694	0.46421	2.831381	2.8493414	16.16684
2025	494461.06	3859501.99	1.31743	0.42283	1.04413	1.02205	2.09	3.355	0.4015	0.42283	13.7457606	0.780935582	0.0001087	0.053836	0.980163	0.471901	2.844631	2.87518083	16.00215
2026	494511.06	3859501.99	1.30485	0.41117	1.02366	1.00657	2.031	4.143	0.3956	0.41117	13.6145038	0.759400429	0.0001066	0.05302	0.952417	0.582859	2.802827	2.79589458	15.96924
2027	494561.06	3859501.99	1.29384	0.40064	1.00858	1.0005	1.895	4.87	0.3907	0.40064	13.499628	0.739952301	0.000105	0.0527	0.888775	0.685054	2.768534	2.72429215	15.91046
2028	494611.06	3859501.99	1.28166	0.40574	1.002	1.00509	1.844	5.245	0.3926	0.40574	13.3725447	0.749371622	0.0001043	0.052942	0.8648	0.737849	2.781642	2.75897139	15.80028
2029	494661.06	3859501.99	1.27332	0.39159	0.97236	0.99594	1.809	5.445	0.3846	0.39159	13.2855271	0.723237624	0.0001012	0.05246	0.848294	0.766037	2.725242	2.6627535	15.73815
2030	494711.06	3859501.99	1.27188	0.37359	0.93967	0.97071	1.754	5.535	0.3747	0.37359	13.2705025	0.689992962	9.783E-05	0.051131	0.82247	0.778704	2.65453	2.54035619	15.72707
2031	494761.06	3859501.99	1.26765	0.37377	0.92834	0.96608	1.672	6.194	0.3751	0.37377	13.2263676	0.690325409	9.665E-05	0.050887	0.784183	0.871406	2.657577	2.54158016	15.73926
2032	494811.06	3859501.99	1.25334	0.35095	0.89438	0.9145	1.591	6.325	0.3595	0.35095	13.0770604	0.648178565	9.311E-05	0.04817	0.745821	0.889732	2.547046	2.38640757	15.56969
2033	494861.06	3859501.99	1.24092	0.34304	0.87949	0.89439	1.579	7.149	0.3553	0.34304	12.947473	0.633569383	9.156E-05	0.047111	0.740245	1.005722	2.517429	2.33262075	15.55902
2034	494911.06	3859501.99	1.22865	0.33956	0.86379	0.88347	1.569	8.449	0.3539	0.33956	12.8194506	0.627142081	8.993E-05	0.046536	0.735753	1.188578	2.507793	2.30895727	15.61638
2035	494961.06	3859501.99	1.21546	0.32964	0.84273	0.86572	1.55	7.041	0.3501	0.32964	12.6818292	0.608820579	8.773E-05	0.045601	0.726961	0.990445	2.480372	2.24150276	15.29261
2036	495011.06	3859501.99	1.20745	0.32669	0.83412	0.86208	1.533	5.478	0.349	0.32669	12.5982547	0.603372148	8.684E-05	0.045409	0.718811	0.770632	2.47272	2.2214432	14.98784
2037	495061.06	3859501.99	1.2053	0.32491	0.82925	0.85763	1.578	4.805	0.3474	0.32491	12.5758221	0.60008462	8.633E-05	0.045175	0.740086	0.675892	2.4611	2.20933946	14.88891
2038	495111.06	3859501.99	1.19696	0.31845	0.82072	0.84043	1.597	4.225	0.3411	0.31845	12.4888045	0.58815348	8.544E-05	0.044269	0.749005	0.594399	2.416462	2.16541243	14.71577
2039	495161.06	3859501.99	1.19289	0.31871	0.81812	0.83351	1.591	3.778	0.3369	0.31871	12.446339	0.588633681	8.517E-05	0.043904	0.746215	0.53145	2.386845	2.16718039	14.57629
2040	495211.06	3859501.99	1.18936	0.31977	0.82042	0.83154	1.582	3.572	0.3335	0.31977	12.4095078	0.590591422	8.541E-05	0.043801	0.742022	0.502523	2.363251	2.17438823	14.47739
2041	495261.06	3859501.99	1.18113	0.32014	0.81907	0.82957	1.597	3.347	0.3295	0.32014	12.3236379	0.591274785	8.527E-05	0.043697	0.748723	0.470808	2.334697	2.17690417	14.33602
2042	495311.06	3859501.99	1.17183	0.31715	0.8164	0.82813	1.634	3.117	0.3262	0.31715	12.2266038	0.585752477	8.499E-05	0.043621	0.766064	0.438439	2.311032	2.15657262	14.21502
2043	495361.06	3859501.99	1.16281	0.31521	0.80414	0.82418	1.639	2.918	0.3214	0.31521	12.1324912	0.582169441	8.372E-05	0.043413	0.768451	0.410452	2.277377	2.14338091	14.07106
2044	495411.06	3859501.99	1.1538	0.31336	0.78601	0.82051	1.647	2.752	0.3168	0.31336	12.038483	0.578752629	8.183E-05	0.04322	0.77253	0.387074	2.244288	2.13080119	13.93363
2045	495461.06	3859501.99	1.14357	0.31011	0.78008	0.81606	1.685	2.592	0.312	0.31011	11.9317455	0.57275012	8.121E-05	0.042985	0.790058	0.364581	2.210491	2.10870167	13.80399
2046	495511.06	3859501.99	1.13332	0.29749	0.75068	0.80871	1.727	2.435	0.3039	0.29749	11.8247994	0.549441918	7.815E-05	0.042598	0.809823	0.342482	2.152887	2.02288756	13.69922
2047	495561.06	3859501.99	1.12693	0.29878	0.75463	0.80912	1.779	2.297	0.305	0.29878	11.7581276	0.551824452	7.856E-05	0.04262	0.834123	0.323184	2.161248	2.03165937	13.63955
2048	495611.06	3859501.99	1.12259	0.29437	0.74657	0.80767	1.789	2.201	0.3021	0.29437	11.712845	0.54367951	7.772E-05	0.042543	0.839037	0.309655	2.1407	2.00167202	13.58687
2049	495661.06	3859501.99	1.11686	0.28995	0.7359	0.80721	1.748	2.108	0.2988	0.28995	11.6530595	0.535516099	7.661E-05	0.042519	0.81968	0.296561	2.117177	1.97161668	13.49297
2050	494311.06	3859551.99	1.3447	0.47148	1.18872	1.1618	2.111	2.603	0.4416	0.47148	14.0302895	0.870788516	0.0001238	0.061197	0.989734	0.366206	3.129037	3.20599357	16.24138
2051	494361.06	3859551.99	1.33997	0.45773	1.15773	1.08831	2.098	3.243	0.4227	0.45773	13.9809378	0.845393288	0.0001205	0.057326	0.983961	0.456256	2.994769	3.11249562	16.20627
2052	494411.06	3859551.99	1.33479	0.43657	1.11501	1.02713	2.077	4.652	0.4037	0.43657	13.9268909	0.806312341	0.0001161	0.054103	0.974133	0.654419	2.860006	2.96861078	16.30737
2053	494461.06	3859551.99	1.32207	0.44585	1.11263	1.04196	2.081	7.082	0.4148	0.44585	13.7941733	0.823451811	0.0001158	0.054884	0.975727	0.996208	2.939291	3.0317134	16.55214
2054	494511.06	3859551.99	1.31122	0.43372	1.0886	1.00947	2.078	11.61	0.4061	0.43372	13.6809669	0.801048603	0.0001133	0.053173	0.974194	1.633347	2.877294	2.94923121	17.07091
2055	494561.06	3859551.99	1.29633	0.42396	1.0688	0.99943	2.038	13	0.4002	0.42396	13.5256081	0.783022608	0.0001113	0.052644	0.955793	1.829131	2.835278	2.88286467	17.09872
2056	494611.06	3859551.99	1.28064	0.4216	1.05487	0.99722	2.024	13.99	0.3996	0.4216	13.3619023	0.778663863	0.0001098	0.052528	0.948989	1.967657	2.831098	2.86681702	17.07413
2057	494661.06	3859551.99	1.26558	0.4156	1.03764	0.99192	1.957	14.13	0.3971	0.4156	13.2047697	0.767582309	0.000108	0.052248	0.917544	1.988151	2.813668	2.82601791	16.91805
2058	494711.06	3859551.99	1.25428	0.38797	0.97856	0.96816	1.828	14.26	0.3794	0.38797	13.0868681	0.716551753	0.0001019	0.050997	0.857161	2.006576	2.688115	2.63813804	16.76823
2059	494761.06	3859551.99	1.24181	0.3972	0.99198	0.97834	1.792	15.09	0.3874	0.3972	12.956759	0.733598877	0.0001033	0.051533	0.840486	2.122775	2.744585	2.70090066	16.74894
2060	494811.06	3859551.99	1.24106	0.37858	0.94127	0.96042	1.756	15.48	0.3747	0.37858	12.9489337	0.699209121	9.799E-05	0.050589	0.823633	2.177287	2.655026	2.57428744	16.78049
2061	494861.06	3859551.99	1.23845	0.37184	0.92002	0.95301	1.683	15.56	0.3712	0.37184	12.9217015	0.686760842	9.578E-05	0.050199	0.789022	2.188383	2.630015	2.52845645	16.73772

2062	494911.06	3859551.99	1.23192	0.36327	0.89328	0.93758	1.586	10.06	0.3663	0.36327
2063	494961.06	3859551.99	1.22407	0.36099	0.88215	0.92657	1.544	6.963	0.3651	0.36099
2064	495011.06	3859551.99	1.21678	0.36017	0.87292	0.919	1.537	5.433	0.3647	0.36017
2065	495061.06	3859551.99	1.20731	0.35554	0.85945	0.90334	1.529	4.609	0.3618	0.35554
2066	495111.06	3859551.99	1.19743	0.34653	0.84413	0.8792	1.516	4.051	0.3567	0.34653
2067	495161.06	3859551.99	1.19463	0.34714	0.83604	0.88047	1.49	3.653	0.3535	0.34714
2068	495211.06	3859551.99	1.19172	0.34996	0.82588	0.88679	1.53	3.363	0.3509	0.34996
2069	495261.06	3859551.99	1.18804	0.3434	0.81409	0.87228	1.551	3.01	0.3455	0.3434
2070	495311.06	3859551.99	1.18548	0.34	0.81142	0.86013	1.559	2.671	0.3408	0.34
2071	495361.06	3859551.99	1.18133	0.33846	0.80685	0.85213	1.545	2.54	0.3367	0.33846
2072	495411.06	3859551.99	1.1719	0.33833	0.80326	0.84812	1.545	2.397	0.3332	0.33833
2073	495461.06	3859551.99	1.16174	0.32932	0.78225	0.83242	1.571	2.289	0.3267	0.32932
2074	495511.06	3859551.99	1.14375	0.31924	0.75965	0.81681	1.575	2.214	0.3196	0.31924
2075	495561.06	3859551.99	1.13371	0.31595	0.75724	0.81389	1.577	2.168	0.3155	0.31595
2076	495611.06	3859551.99	1.12406	0.31292	0.74479	0.81072	1.588	2.065	0.313	0.31292
2077	495661.06	3859551.99	1.1146	0.30832	0.73794	0.8066	1.625	1.99	0.3092	0.30832
2078	494311.06	3859601.99	1.33447	0.50291	1.15662	1.21859	1.883	3.081	0.4731	0.50291
2079	494361.06	3859601.99	1.33376	0.47149	1.13292	1.12132	1.939	4.179	0.4366	0.47149
2080	494411.06	3859601.99	1.32782	0.46148	1.11793	1.07986	1.939	7.04	0.423	0.46148
2081	494461.06	3859601.99	1.3152	0.46415	1.11839	1.09675	1.994	6.711	0.4308	0.46415
2082	494511.06	3859601.99	1.30935	0.4515	1.09918	1.0423	2.022	6.017	0.4162	0.4515
2083	494561.06	3859601.99	1.298	0.45274	1.09447	1.04992	2.025	5.881	0.4196	0.45274
2084	494611.06	3859601.99	1.28939	0.45023	1.0858	1.04125	2.026	5.922	0.4193	0.45023
2085	494661.06	3859601.99	1.28008	0.42944	1.05988	0.99318	2.02	6.472	0.4051	0.42944
2086	494711.06	3859601.99	1.26896	0.41123	1.03166	0.97804	1.932	7.059	0.3927	0.41123
2087	494761.06	3859601.99	1.25363	0.42893	1.02822	0.99647	1.962	7.089	0.4053	0.42893
2088	494811.06	3859601.99	1.24251	0.40626	1.00017	0.97822	1.859	6.978	0.3914	0.40626
2089	494861.06	3859601.99	1.23115	0.40285	0.98177	0.97579	1.782	6.581	0.3882	0.40285
2090	494911.06	3859601.99	1.22314	0.38758	0.95208	0.95946	1.742	6.167	0.3782	0.38758
2091	494961.06	3859601.99	1.21712	0.39059	0.94071	0.97476	1.715	5.685	0.3842	0.39059
2092	495011.06	3859601.99	1.21914	0.37746	0.90793	0.94584	1.635	5.308	0.3749	0.37746
2093	495061.06	3859601.99	1.21227	0.37704	0.8937	0.95054	1.558	4.873	0.3771	0.37704
2094	495111.06	3859601.99	1.20664	0.36867	0.87404	0.93772	1.502	4.314	0.3719	0.36867
2095	495161.06	3859601.99	1.20055	0.36801	0.86526	0.93143	1.496	3.94	0.3704	0.36801
2096	495211.06	3859601.99	1.19342	0.36456	0.8504	0.9194	1.49	3.656	0.3664	0.36456
2097	495261.06	3859601.99	1.18747	0.36309	0.8377	0.90994	1.482	3.315	0.3631	0.36309
2098	495311.06	3859601.99	1.18407	0.36217	0.82955	0.90816	1.457	3.036	0.3599	0.36217
2099	495361.06	3859601.99	1.17944	0.35854	0.81133	0.90324	1.476	2.823	0.3552	0.35854
2100	495411.06	3859601.99	1.17707	0.35669	0.79729	0.90182	1.503	2.664	0.3515	0.35669
2101	495461.06	3859601.99	1.17269	0.34718	0.77613	0.88353	1.51	2.503	0.3434	0.34718
2102	495511.06	3859601.99	1.16374	0.33951	0.76047	0.85825	1.487	2.341	0.336	0.33951
2103	495561.06	3859601.99	1.15309	0.33936	0.74795	0.85907	1.487	2.235	0.3332	0.33936
2104	495611.06	3859601.99	1.13976	0.33094	0.72908	0.82954	1.503	2.107	0.3246	0.33094
2105	495661.06	3859601.99	1.12896	0.32874	0.72219	0.82603	1.523	1.986	0.3221	0.32874
2106	494311.06	3859651.99	1.32745	0.52004	1.13538	1.21715	1.664	3.096	0.4916	0.52004
2107	494361.06	3859651.99	1.32753	0.4866	1.10944	1.13843	1.697	4.268	0.4607	0.4866
2108	494411.06	3859651.99	1.31874	0.47998	1.0921	1.11778	1.768	6.206	0.4532	0.47998
2109	494461.06	3859651.99	1.30563	0.4839	1.08581	1.14344	1.835	5.939	0.4604	0.4839
2110	494511.06	3859651.99	1.29739	0.4748	1.07574	1.12353	1.895	5.176	0.4515	0.4748
2111	494561.06	3859651.99	1.28736	0.47122	1.07518	1.11125	1.885	4.842	0.4487	0.47122
2112	494611.06	3859651.99	1.27769	0.46716	1.06634	1.10168	1.939	4.596	0.4452	0.46716
2113	494661.06	3859651.99	1.27406	0.45086	1.04332	1.04084	1.968	4.261	0.4192	0.45086
2114	494711.06	3859651.99	1.26769	0.44753	1.03572	1.03137	1.971	4.445	0.4178	0.44753
2115	494761.06	3859651.99	1.2604	0.44852	1.02977	1.03407	1.97	4.402	0.4214	0.44852
2116	494811.06	3859651.99	1.25028	0.43623	1.01544	1.01385	1.962	3.658	0.4132	0.43623
2117	494861.06	3859651.99	1.23884	0.43018	1.0052	1.00429	1.889	3.905	0.4115	0.43018
2118	494911.06	3859651.99	1.2281	0.42314	0.99108	0.9871	1.891	3.799	0.4049	0.42314
2119	494961.06	3859651.99	1.21738	0.4171	0.9816	0.984	1.806	3.883	0.4027	0.4171
2120	495011.06	3859651.99	1.20867	0.40946	0.96547	0.97841	1.735	3.758	0.3983	0.40946

12.853569	0.670932689	9.3E-05	0.049386	0.743823	1.414962	2.59558	2.47018173	15.85816
12.7716639	0.666721698	9.184E-05	0.048806	0.723899	0.979515	2.586794	2.45467807	15.32281
12.6956018	0.665207219	9.088E-05	0.048407	0.720527	0.764303	2.584315	2.44910219	15.02935
12.596794	0.656655954	8.947E-05	0.047583	0.716818	0.648328	2.563129	2.41761889	14.81178
12.4937083	0.640015153	8.788E-05	0.046311	0.711088	0.569925	2.527561	2.35635223	14.63234
12.4644938	0.641141778	8.704E-05	0.046378	0.698797	0.51391	2.504675	2.36050014	14.50898
12.4341315	0.646350108	8.598E-05	0.046711	0.717273	0.473119	2.486182	2.37967572	14.42418
12.3957352	0.634234276	8.475E-05	0.045947	0.727387	0.423379	2.447709	2.3350687	14.33941
12.3690248	0.627954729	8.447E-05	0.045307	0.730825	0.375741	2.41462	2.31194921	14.25161
12.3257246	0.625110463	8.4E-05	0.044885	0.724339	0.35728	2.385641	2.30147744	14.16159
12.2273342	0.624870363	8.362E-05	0.044674	0.724269	0.337139	2.36063	2.30059346	14.01841
12.1213271	0.608229562	8.144E-05	0.043847	0.736489	0.321944	2.314504	2.2393268	13.90709
11.9336236	0.589612552	7.908E-05	0.043025	0.738763	0.311505	2.264552	2.17078431	13.71038
11.8288686	0.583536166	7.883E-05	0.042871	0.739542	0.304936	2.23536	2.1484128	13.58678
11.7281827	0.577939981	7.754E-05	0.042704	0.744653	0.290553	2.217364	2.12780925	13.47366
11.6294792	0.569444123	7.682E-05	0.042487	0.761848	0.279918	2.190723	2.09652994	13.37745
13.9235521	0.92883739	0.0001204	0.064188	0.882778	0.433484	3.351801	3.41971287	16.16505
13.9161441	0.870806985	0.0001179	0.059064	0.909323	0.587881	3.093752	3.20606157	16.23103
13.8541675	0.852319259	0.0001164	0.056881	0.909305	0.990324	2.996895	3.13799506	16.52201
13.7224933	0.857250551	0.0001164	0.05777	0.935166	0.944133	3.052019	3.15615066	16.4128
13.6614558	0.833886941	0.0001144	0.054902	0.948159	0.846384	2.948998	3.07013255	16.22377
13.5430325	0.836177129	0.0001139	0.055304	0.949585	0.827337	2.973017	3.07856437	16.106
13.4531978	0.831541345	0.000113	0.054847	0.950251	0.833071	2.970892	3.06149674	16.03242
13.3560594	0.793143761	0.0001103	0.052315	0.947217	0.910484	2.870351	2.92012785	16.00955
13.2400358	0.759511244	0.0001074	0.051517	0.905896	0.993001	2.78235	2.79630257	15.93612
13.0800862	0.792201829	0.000107	0.052488	0.920132	0.997238	2.871555	2.91665992	15.79715
12.9640627	0.750332024	0.0001041	0.051527	0.871641	0.981623	2.773494	2.76250731	15.63028
12.845535	0.744034007	0.0001022	0.051399	0.835506	0.925834	2.750537	2.73931982	15.41363
12.7619605	0.715831452	9.912E-05	0.050539	0.816956	0.867601	2.679896	2.6354861	15.2574
12.6991493	0.721390698	9.793E-05	0.051345	0.804051	0.799721	2.722479	2.65595365	15.14228
12.7202255	0.697140564	9.452E-05	0.049821	0.766453	0.746691	2.65616	2.56667161	15.06991
12.6485455	0.696364855	9.304E-05	0.050069	0.730801	0.685507	2.671606	2.56381567	14.91917
12.5898033	0.680906088	9.099E-05	0.049394	0.704242	0.606861	2.635329	2.50690093	14.75972
12.5262617	0.679687117	9.008E-05	0.049062	0.701644	0.554203	2.624559	2.50241302	14.63309
12.4518689	0.673315223	8.853E-05	0.048429	0.698647	0.514244	2.59636	2.47895354	14.504
12.389788	0.670600242	8.721E-05	0.04793	0.695168	0.466316	2.572553	2.46895776	14.37348
12.3543132	0.668901071	8.636E-05	0.047836	0.683332	0.427061	2.550021	2.4627019	14.26885
12.3060048	0.662196731	8.446E-05	0.047577	0.691961	0.397091	2.516578	2.43801844	14.18348
12.2812768	0.658779918	8.3E-05	0.047503	0.704603	0.374791	2.49015	2.42543871	14.13175
12.2355769	0.641215655	8.08E-05	0.046539	0.708087	0.352147	2.4329	2.36077214	14.05577
12.1421946	0.627049735	7.917E-05	0.045208	0.697048	0.329281	2.38054	2.30861728	13.91278
12.031075	0.626772696	7.787E-05	0.045251	0.697217	0.31435	2.360559	2.3075973	13.7677
11.8919929	0.611221582	7.59E-05	0.043695	0.704678	0.296346	2.299908	2.25034256	13.59757
11.7793082	0.607158345	7.518E-05	0.04351	0.713967	0.27934	2.282053	2.23538289	13.47003
13.850307	0.960475227	0.0001182	0.064112	0.780347	0.435472	3.482951	3.53619431	16.03759
13.8511417	0.898714032	0.0001155	0.059966	0.795657	0.600472	3.263871	3.30880731	16.16113
13.7594289	0.886487384	0.0001137	0.058878	0.829194	0.873	3.211298	3.2637923	16.35461
13.6226422	0.893727333	0.000113	0.06023	0.860364	0.835534	3.262242	3.29044771	16.2444
13.5366679	0.876920309	0.000112	0.059181	0.888461	0.728179	3.198899	3.22856907	16.05985
13.4320172	0.870308315	0.0001119	0.058534	0.883964	0.681207	3.179485	3.20422561	15.9014
13.3311227	0.862809797	0.000111	0.05803	0.909375	0.646516	3.154332	3.17661821	15.78568
13.2932481	0.832704909	0.0001086	0.054825	0.923016	0.599428	2.9699	3.06578065	15.60745
13.226785	0.826554646	0.0001078	0.054326	0.924085	0.625333	2.960335	3.04313714	15.57439
13.1507228	0.828383103	0.0001072	0.054469	0.92394	0.619246	2.985913	3.049869	15.51291
13.045133	0.805684386	0.0001057	0.053404	0.91993	0.514619	2.927813	2.96629883	15.30039
12.9257707	0.794510486	0.0001046	0.0529	0.885849	0.549389	2.915413	2.92515974	15.19878
12.813712	0.781508129	0.0001032	0.051995	0.886703	0.534382	2.868933	2.87728879	15.06005
12.701862	0.770352698	0.0001022	0.051831	0.846798	0.546191	2.853346	2.83621769	14.93426
12.6109839	0.756242186	0.0001005	0.051537	0.813622	0.528655	2.822099	2.78426683	14.79897

2121	495061.06	3859651.99	1.20125	0.40521	0.94935	0.97785	1.701	3.772	0.3967	0.40521
2122	495111.06	3859651.99	1.19886	0.39635	0.92998	0.97109	1.672	3.684	0.3895	0.39635
2123	495161.06	3859651.99	1.19732	0.39075	0.91221	0.96414	1.614	3.469	0.3876	0.39075
2124	495211.06	3859651.99	1.18998	0.38807	0.89522	0.96048	1.53	3.182	0.3821	0.38807
2125	495261.06	3859651.99	1.18327	0.38367	0.87662	0.95783	1.467	3.013	0.3779	0.38367
2126	495311.06	3859651.99	1.17616	0.38084	0.8584	0.94952	1.459	2.95	0.3731	0.38084
2127	495361.06	3859651.99	1.16863	0.37889	0.83984	0.93966	1.454	2.763	0.3694	0.37889
2128	495411.06	3859651.99	1.1674	0.37563	0.82272	0.92664	1.447	2.587	0.365	0.37563
2129	495461.06	3859651.99	1.16752	0.36476	0.80571	0.90295	1.424	2.462	0.3575	0.36476
2130	495511.06	3859651.99	1.16396	0.35795	0.79142	0.89121	1.403	2.357	0.3511	0.35795
2131	495561.06	3859651.99	1.16022	0.35617	0.78544	0.8879	1.44	2.251	0.347	0.35617
2132	495611.06	3859651.99	1.15227	0.35174	0.76972	0.88276	1.458	2.141	0.3419	0.35174
2133	495661.06	3859651.99	1.14085	0.34605	0.75286	0.87315	1.439	2.064	0.3363	0.34605
2134	494311.06	3859701.99	1.32062	0.50789	1.10349	1.19353	1.753	3.251	0.4842	0.50789
2135	494361.06	3859701.99	1.31504	0.49962	1.09844	1.17528	1.699	3.798	0.4775	0.49962
2136	494411.06	3859701.99	1.30559	0.4984	1.09481	1.17131	1.618	5.977	0.4746	0.4984
2137	494461.06	3859701.99	1.29271	0.51394	1.10365	1.19034	1.602	5.419	0.4812	0.51394
2138	494511.06	3859701.99	1.28572	0.50511	1.08509	1.17046	1.671	5.053	0.476	0.50511
2139	494561.06	3859701.99	1.27668	0.50248	1.07394	1.15673	1.739	4.557	0.4734	0.50248
2140	494611.06	3859701.99	1.26921	0.49768	1.06391	1.1479	1.796	4.22	0.4702	0.49768
2141	494661.06	3859701.99	1.26893	0.46861	1.01233	1.09448	1.838	3.787	0.4472	0.46861
2142	494711.06	3859701.99	1.26069	0.46903	1.01208	1.10487	1.818	3.724	0.4479	0.46903
2143	494761.06	3859701.99	1.25543	0.462	1.0019	1.08205	1.846	3.41	0.4425	0.462
2144	494811.06	3859701.99	1.24877	0.4562	0.99201	1.05861	1.916	3.013	0.4335	0.4562
2145	494861.06	3859701.99	1.23847	0.45647	0.99695	1.07071	1.922	3.057	0.4381	0.45647
2146	494911.06	3859701.99	1.22835	0.45024	0.97778	1.05613	1.916	2.776	0.4298	0.45024
2147	494961.06	3859701.99	1.21839	0.44387	0.96249	1.04252	1.904	2.831	0.4246	0.44387
2148	495011.06	3859701.99	1.20888	0.44037	0.95693	1.03776	1.832	2.829	0.4238	0.44037
2149	495061.06	3859701.99	1.20014	0.43569	0.94794	1.02113	1.842	2.815	0.4202	0.43569
2150	495111.06	3859701.99	1.19071	0.42878	0.93623	1.00421	1.759	2.846	0.4158	0.42878
2151	495161.06	3859701.99	1.18045	0.41929	0.91958	0.98407	1.691	2.807	0.4065	0.41929
2152	495211.06	3859701.99	1.17498	0.41058	0.90255	0.96983	1.658	2.766	0.4	0.41058
2153	495261.06	3859701.99	1.17308	0.41116	0.89738	0.97629	1.631	2.671	0.4002	0.41116
2154	495311.06	3859701.99	1.17382	0.40467	0.88167	0.9677	1.581	2.64	0.393	0.40467
2155	495361.06	3859701.99	1.16747	0.39897	0.86915	0.96072	1.494	2.563	0.3862	0.39897
2156	495411.06	3859701.99	1.16148	0.3901	0.8528	0.94833	1.428	2.437	0.3761	0.3901
2157	495461.06	3859701.99	1.1548	0.38424	0.83714	0.93818	1.419	2.358	0.3686	0.38424
2158	495511.06	3859701.99	1.15426	0.37247	0.81339	0.91139	1.41	2.222	0.3593	0.37247
2159	495561.06	3859701.99	1.15092	0.37518	0.80528	0.91832	1.407	2.115	0.357	0.37518
2160	495611.06	3859701.99	1.14978	0.37141	0.79439	0.90679	1.39	2.061	0.3519	0.37141
2161	495661.06	3859701.99	1.14854	0.3659	0.77855	0.89466	1.363	1.993	0.3464	0.3659
2162	494311.06	3859751.99	1.29868	0.55885	1.07963	1.25076	1.678	3.039	0.5111	0.55885
2163	494361.06	3859751.99	1.2896	0.54394	1.07457	1.24021	1.694	3.904	0.5043	0.54394
2164	494411.06	3859751.99	1.28195	0.5301	1.06994	1.22323	1.708	5.538	0.4951	0.5301
2165	494461.06	3859751.99	1.26503	0.54049	1.07654	1.23136	1.695	5.079	0.499	0.54049
2166	494511.06	3859751.99	1.25217	0.54371	1.07115	1.22572	1.631	5.012	0.4992	0.54371
2167	494561.06	3859751.99	1.24441	0.53477	1.04805	1.20974	1.564	4.436	0.4934	0.53477
2168	494611.06	3859751.99	1.23841	0.52005	1.02431	1.18707	1.571	4.145	0.4845	0.52005
2169	494661.06	3859751.99	1.23844	0.49164	0.99626	1.14245	1.627	3.75	0.4679	0.49164
2170	494711.06	3859751.99	1.23207	0.49659	1.00106	1.13745	1.699	3.556	0.4694	0.49659
2171	494761.06	3859751.99	1.22692	0.49382	0.99708	1.13177	1.755	3.295	0.4661	0.49382
2172	494811.06	3859751.99	1.2238	0.48291	0.9846	1.11989	1.786	2.964	0.4588	0.48291
2173	494861.06	3859751.99	1.21928	0.47872	0.97138	1.12024	1.763	2.888	0.4553	0.47872
2174	494911.06	3859751.99	1.21496	0.47503	0.96245	1.11449	1.823	2.678	0.4515	0.47503
2175	494961.06	3859751.99	1.21067	0.47153	0.96219	1.10664	1.872	2.675	0.4477	0.47153
2176	495011.06	3859751.99	1.20655	0.46618	0.96122	1.09641	1.875	2.59	0.4423	0.46618
2177	495061.06	3859751.99	1.19711	0.46197	0.9653	1.09521	1.867	2.525	0.4405	0.46197
2178	495111.06	3859751.99	1.18863	0.45537	0.9601	1.08709	1.86	2.488	0.4383	0.45537
2179	495161.06	3859751.99	1.18045	0.44743	0.95202	1.07082	1.782	2.44	0.4336	0.44743

12.5335653	0.748392752	9.883E-05	0.051507	0.797749	0.530591	2.811046	2.75536747	14.71758
12.5086286	0.73202899	9.682E-05	0.051151	0.784052	0.518188	2.759819	2.69512079	14.65884
12.4925606	0.721686206	9.497E-05	0.050785	0.756625	0.487947	2.746286	2.65704163	14.59894
12.4159768	0.716736446	9.32E-05	0.050592	0.717353	0.447696	2.707246	2.63881803	14.41688
12.3459662	0.708609973	9.126E-05	0.050453	0.688073	0.423807	2.677487	2.60889868	14.28559
12.2717821	0.703383173	8.936E-05	0.050015	0.684345	0.41494	2.643336	2.58965511	14.17824
12.1932158	0.699781668	8.743E-05	0.049496	0.681687	0.388745	2.617049	2.5763954	14.05367
12.1803822	0.69376069	8.565E-05	0.04881	0.678582	0.36399	2.586157	2.55422789	13.99754
12.1816343	0.673684608	8.388E-05	0.047562	0.667886	0.346386	2.532662	2.48031351	13.96959
12.1444901	0.661107044	8.239E-05	0.046944	0.65795	0.331529	2.48767	2.43400653	13.89577
12.1054678	0.657819517	8.177E-05	0.046769	0.675412	0.316674	2.458904	2.42190279	13.83923
12.0225193	0.649637636	8.013E-05	0.046499	0.683464	0.301177	2.422201	2.39177945	13.7338
11.9033657	0.639128629	7.838E-05	0.045992	0.674906	0.290301	2.382523	2.3530883	13.58321
13.7790444	0.93803508	0.0001149	0.062868	0.821781	0.457333	3.430519	3.45357613	16.03612
13.7208239	0.922761004	0.0001144	0.061907	0.796858	0.534258	3.383543	3.39734136	16.02292
13.6222248	0.920507755	0.000114	0.061698	0.758552	0.840888	3.362854	3.38904555	16.17779
13.4878379	0.94920898	0.0001149	0.0627	0.751405	0.762325	3.409263	3.49471522	15.92814
13.4149058	0.932900626	0.000113	0.061653	0.783531	0.710857	3.372277	3.43467254	15.84157
13.3205845	0.928043212	0.0001118	0.06093	0.815272	0.641027	3.354068	3.41678894	15.70325
13.2426443	0.919177969	0.0001108	0.060465	0.841982	0.59367	3.331253	3.38414965	15.60515
13.2397228	0.865487839	0.0001054	0.057651	0.862	0.532762	3.168573	3.186478	15.53982
13.1537486	0.866263548	0.0001054	0.058198	0.852594	0.523926	3.173746	3.18933393	15.43925
13.098867	0.853279661	0.0001043	0.056996	0.865606	0.479669	3.135414	3.14153098	15.34841
13.029378	0.842567492	0.0001033	0.055761	0.898233	0.423845	3.071433	3.10209185	15.21923
12.9219102	0.843066162	0.0001038	0.056399	0.901122	0.430075	3.103742	3.10392781	15.15249
12.8163205	0.831559815	0.0001018	0.055631	0.89844	0.390558	3.045501	3.06156474	14.97655
12.7124001	0.819794898	0.0001002	0.054914	0.892864	0.398254	3.008444	3.01824969	14.86852
12.613175	0.813330658	9.962E-05	0.054663	0.859187	0.398013	3.002422	2.99445021	14.74644
12.5219838	0.804687046	9.869E-05	0.053787	0.863773	0.395957	2.97741	2.96262691	14.65507
12.4235934	0.79192479	9.747E-05	0.052896	0.824773	0.400344	2.946022	2.91563995	14.52401
12.3165429	0.774397465	9.573E-05	0.051835	0.793046	0.39484	2.880412	2.85110936	14.36006
12.2594702	0.758310743	9.396E-05	0.051085	0.777604	0.389177	2.833932	2.79188266	14.27779
12.2396461	0.759381959	9.342E-05	0.051425	0.764788	0.375689	2.835703	2.79582658	14.2309
12.247367	0.747395412	9.179E-05	0.050973	0.7413	0.371426	2.784547	2.75169555	14.1914
12.1811126	0.736867935	9.048E-05	0.050605	0.700795	0.360513	2.736366	2.7129364	14.05341
12.1186143	0.720485705	8.878E-05	0.049952	0.669603	0.342883	2.664662	2.65262172	13.91367
12.0489168	0.70966272	8.715E-05	0.049418	0.665387	0.331744	2.611877	2.6127746	13.80432
12.0432825	0.687924405	8.468E-05	0.048007	0.661153	0.312573	2.545983	2.53274036	13.76627
12.0084337	0.692929574	8.383E-05	0.048372	0.659572	0.297542	2.529474	2.55116795	13.68524
11.9965392	0.685966664	8.27E-05	0.047764	0.651943	0.289892	2.493055	2.52553252	13.63971
11.9836014	0.675790103	8.105E-05	0.047125	0.639221	0.280356	2.454015	2.48806534	13.59212
13.5501275	1.032154412	0.0001124	0.065883	0.787039	0.427525	3.621257	3.80009651	15.684
13.4553888	1.00461675	0.0001119	0.065327	0.794133	0.549193	3.573431	3.69871074	15.74349
13.3755705	0.979055299	0.0001114	0.064433	0.800844	0.779065	3.508246	3.60460081	15.90272
13.1990311	0.998244857	0.0001121	0.064861	0.794921	0.714534	3.535666	3.67525126	15.63212
13.0648529	1.004191957	0.0001115	0.064564	0.764943	0.705002	3.53687	3.69714678	15.44339
12.9838868	0.987680442	0.0001091	0.063722	0.73361	0.624004	3.4962	3.63635611	15.25286
12.9212842	0.960493696	0.0001066	0.062528	0.736747	0.58306	3.432716	3.53626231	15.16067
12.9215972	0.908022538	0.0001037	0.060177	0.762763	0.527521	3.315453	3.34307855	15.15256
12.8551341	0.91716482	0.0001042	0.059914	0.796872	0.500312	3.325656	3.37673782	15.07842
12.8014002	0.912048835	0.0001038	0.059615	0.822883	0.463567	3.30277	3.35790223	15.00449
12.7688468	0.891898876	0.0001025	0.058989	0.837396	0.416907	3.251047	3.28371586	14.94147
12.7216862	0.884160258	0.0001011	0.059008	0.826916	0.406259	3.225681	3.25522449	14.86859
12.6766123	0.877345102	0.0001002	0.058705	0.854821	0.376672	3.199324	3.23013304	14.81345
12.6318514	0.870880862	0.0001002	0.058291	0.877845	0.376375	3.171974	3.20633356	14.78098
12.5888643	0.86099981	0.0001001	0.057752	0.87913	0.364287	3.134138	3.16995436	14.71532
12.4903695	0.853224253	0.0001005	0.057689	0.875463	0.355202	3.121031	3.14132699	14.61175
12.4018912	0.841034543	9.995E-05	0.057261	0.87233	0.350042	3.105443	3.09644797	14.53165
12.3165429	0.826369954	9.911E-05	0.056404	0.835647	0.343224	3.072496	3.04245716	14.40833

2180	495211.06	3859751.99	1.17243	0.43921	0.94228	1.05094	1.79	2.446	0.4264	0.43921	12.2328641	0.811188225	9.81E-05	0.055357	0.839253	0.344048	3.021269	2.98656239	14.31751
2181	495261.06	3859751.99	1.16376	0.4361	0.93419	1.04169	1.716	2.377	0.4222	0.4361	12.1424033	0.805444286	9.725E-05	0.05487	0.804501	0.334452	2.991723	2.96541485	14.16808
2182	495311.06	3859751.99	1.15543	0.43087	0.92116	1.0222	1.649	2.364	0.4171	0.43087	12.05549	0.795784864	9.59E-05	0.053843	0.773342	0.332563	2.955446	2.92985163	14.03671
2183	495361.06	3859751.99	1.15143	0.42573	0.90491	1.00546	1.616	2.341	0.4116	0.42573	12.0137549	0.786291666	9.421E-05	0.052962	0.757628	0.32936	2.916476	2.8949004	13.96167
2184	495411.06	3859751.99	1.15224	0.41855	0.88846	0.99206	1.586	2.272	0.4064	0.41855	12.0222063	0.77303074	9.249E-05	0.052256	0.743762	0.319669	2.879491	2.84607747	13.94443
2185	495461.06	3859751.99	1.15088	0.40754	0.86781	0.97002	1.532	2.224	0.3922	0.40754	12.0080164	0.752696088	9.034E-05	0.051095	0.71852	0.312854	2.778879	2.77121112	13.85094
2186	495511.06	3859751.99	1.14505	0.39872	0.84872	0.9635	1.442	2.164	0.3805	0.39872	11.9471875	0.736406204	8.836E-05	0.050751	0.676116	0.304432	2.695909	2.71123644	13.69965
2187	495561.06	3859751.99	1.13815	0.39398	0.8353	0.95812	1.388	2.105	0.3755	0.39398	11.8751945	0.727651776	8.696E-05	0.050468	0.650869	0.296055	2.660411	2.67900514	13.58173
2188	495611.06	3859751.99	1.13335	0.38939	0.82164	0.95098	1.381	2.044	0.37	0.38939	11.8251124	0.719174388	8.554E-05	0.050092	0.647451	0.287522	2.621442	2.64779383	13.50308
2189	495661.06	3859751.99	1.1315	0.387	0.81442	0.94195	1.376	1.984	0.3677	0.387	11.8058099	0.714760235	8.479E-05	0.049616	0.645303	0.279053	2.605145	2.63154219	13.46823
2190	494311.06	3859801.99	1.25479	0.60134	1.0828	1.31308	1.528	2.927	0.5516	0.60134	13.0921893	1.110630284	0.0001127	0.069165	0.716499	0.411741	3.908427	4.08902217	15.21974
2191	494361.06	3859801.99	1.25114	0.58166	1.05907	1.2756	1.541	3.926	0.5369	0.58166	13.0541061	1.074282787	0.0001103	0.067191	0.722745	0.552265	3.803989	3.95520111	15.31949
2192	494411.06	3859801.99	1.24993	0.5593	1.03362	1.24408	1.594	5.439	0.5225	0.5593	13.0414812	1.032985528	0.0001076	0.065531	0.747626	0.76518	3.701818	3.80315645	15.55157
2193	494461.06	3859801.99	1.24001	0.56319	1.03781	1.26595	1.634	4.864	0.5267	0.56319	12.9379782	1.040170069	0.000108	0.066683	0.766275	0.684177	3.732143	3.82960787	15.39793
2194	494511.06	3859801.99	1.22938	0.5704	1.0541	1.29206	1.644	4.858	0.5324	0.5704	12.8270673	1.053486403	0.0001097	0.068058	0.770917	0.683427	3.771963	3.87863479	15.29639
2195	494561.06	3859801.99	1.22499	0.56202	1.0568	1.27193	1.647	4.42	0.5252	0.56202	12.781263	1.038009166	0.00011	0.066998	0.772188	0.621822	3.720948	3.82165204	15.17969
2196	494611.06	3859801.99	1.2261	0.53871	1.03883	1.21816	1.637	4.089	0.5066	0.53871	12.7928445	0.994957329	0.0001081	0.064165	0.767743	0.575175	3.58916	3.66314752	15.12101
2197	494661.06	3859801.99	1.22248	0.52845	1.03155	1.19079	1.552	3.793	0.4983	0.52845	12.7550743	0.976007871	0.0001074	0.062724	0.727758	0.533621	3.530706	3.59338106	14.99262
2198	494711.06	3859801.99	1.22014	0.51461	1.01311	1.15784	1.503	3.316	0.4879	0.51461	12.7306592	0.95044642	0.0001055	0.060988	0.704743	0.466455	3.457018	3.49927112	14.87115
2199	494761.06	3859801.99	1.21105	0.52112	1.00835	1.16844	1.542	3.367	0.4921	0.52112	12.6358163	0.962469906	0.000105	0.061546	0.722998	0.473648	3.486919	3.54353815	14.79996
2200	494811.06	3859801.99	1.20754	0.51154	0.99662	1.1498	1.604	3.031	0.4848	0.51154	12.5991937	0.944776358	0.0001038	0.060565	0.752339	0.426408	3.435054	3.47839558	14.74004
2201	494861.06	3859801.99	1.20246	0.50715	0.98752	1.14298	1.666	2.975	0.4807	0.50715	12.5461902	0.936668355	0.0001028	0.060205	0.781097	0.418551	3.405862	3.44854424	14.70013
2202	494911.06	3859801.99	1.19954	0.4959	0.98194	1.12427	1.717	2.841	0.4734	0.4959	12.5157236	0.915890441	0.0001022	0.05922	0.805317	0.39967	3.354352	3.37204592	14.67823
2203	494961.06	3859801.99	1.19516	0.48977	0.97769	1.12196	1.735	2.765	0.4686	0.48977	12.4700237	0.904568786	0.0001018	0.059098	0.813575	0.388926	3.320271	3.33036283	14.6262
2204	495011.06	3859801.99	1.19111	0.48466	0.97077	1.11801	1.726	2.707	0.4631	0.48466	12.4277669	0.895130996	0.0001011	0.05889	0.809298	0.380764	3.281301	3.2956156	14.55764
2205	495061.06	3859801.99	1.18635	0.48151	0.95902	1.11668	1.796	2.615	0.4588	0.48151	12.3781022	0.88931318	9.984E-05	0.05882	0.842094	0.367838	3.250551	3.27419607	14.51262
2206	495111.06	3859801.99	1.18305	0.47572	0.93715	1.10272	1.826	2.549	0.4523	0.47572	12.3436707	0.878619481	9.756E-05	0.058085	0.856176	0.358516	3.204354	3.23482493	14.46469
2207	495161.06	3859801.99	1.17709	0.46855	0.92463	1.09026	1.825	2.419	0.4466	0.46855	12.2814855	0.865377024	9.626E-05	0.057428	0.855735	0.340333	3.163968	3.18607	14.37835
2208	495211.06	3859801.99	1.16842	0.46369	0.92244	1.08328	1.817	2.327	0.4441	0.46369	12.1910247	0.856400965	9.603E-05	0.057061	0.852054	0.327386	3.146467	3.15302273	14.27747
2209	495261.06	3859801.99	1.16095	0.45604	0.9143	1.07113	1.793	2.279	0.4382	0.45604	12.1130844	0.842271984	9.518E-05	0.056421	0.8408	0.320534	3.104876	3.10100387	14.17708
2210	495311.06	3859801.99	1.15241	0.45278	0.90741	1.06633	1.726	2.309	0.4361	0.45278	12.02398	0.836251006	9.447E-05	0.056168	0.809528	0.324753	3.089642	3.07883636	14.06158
2211	495361.06	3859801.99	1.14476	0.44714	0.90074	1.05786	1.737	2.283	0.4324	0.44714	11.9441617	0.825834345	9.377E-05	0.055722	0.814386	0.321101	3.063568	3.0404852	13.98438
2212	495411.06	3859801.99	1.1378	0.43891	0.89205	1.04596	1.659	2.245	0.427	0.43891	11.8715427	0.810634147	9.287E-05	0.055095	0.777834	0.315772	3.025237	2.98452243	13.87168
2213	495461.06	3859801.99	1.13194	0.43312	0.88543	1.03359	1.603	2.277	0.4215	0.43312	11.8104008	0.799940447	9.218E-05	0.054443	0.751752	0.320372	2.98655	2.9451513	13.7784
2214	495511.06	3859801.99	1.13228	0.42293	0.87477	1.00964	1.573	2.203	0.4095	0.42293	11.8139483	0.781120275	9.107E-05	0.053182	0.737446	0.309855	2.901384	2.87586082	13.72117
2215	495561.06	3859801.99	1.13005	0.41806	0.86503	1.00074	1.541	2.154	0.4056	0.41806	11.790681	0.772125747	9.005E-05	0.052713	0.722689	0.302969	2.873751	2.84274555	13.67227
2216	495611.06	3859801.99	1.12518	0.41747	0.85535	0.9978	1.496	2.146	0.4062	0.41747	11.7398685	0.77103606	8.905E-05	0.052558	0.701555	0.301901	2.878215	2.83873364	13.60649
2217	495661.06	3859801.99	1.11798	0.41076	0.84007	0.97484	1.411	2.066	0.3939	0.41076	11.6647454	0.758643189	8.746E-05	0.051349	0.661565	0.290604	2.790853	2.79310664	13.42474
2218	494311.06	3859851.99	1.25164	0.62983	1.1428	1.35617	1.455	3.054	0.5731	0.62983	13.059323	1.163249196	0.000119	0.071435	0.682216	0.429563	4.060833	4.28274991	15.18399
2219	494361.06	3859851.99	1.24687	0.61266	1.11619	1.33443	1.459	3.766	0.5652	0.61266	13.0095539	1.131537482	0.0001162	0.07029	0.684177	0.529791	4.004433	4.16599648	15.2639
2220	494411.06	3859851.99	1.24282	0.59262	1.09168	1.29993	1.472	4.921	0.5571	0.59262	12.9672971	1.094525092	0.0001137	0.068473	0.690455	0.692288	3.947042	4.02972747	15.43047
2221	494461.06	3859851.99	1.23673	0.57912	1.07692	1.27248	1.481	4.959	0.5524	0.57912	12.9037555	1.069591595	0.0001121	0.067027	0.694676	0.697542	3.914237	3.93792949	15.40901
2222	494511.06	3859851.99	1.22658	0.58338	1.07753	1.26821	1.527	5.028	0.5531	0.58338	12.7978527	1.077459499	0.0001122	0.066802	0.716208	0.707374	3.91863	3.96689685	15.31754
2223	494561.06	3859851.99	1.21564	0.58782	1.07577	1.26338	1.573	4.437	0.5537	0.58782	12.6837073	1.085659849	0.000112	0.066547	0.737544	0.624112	3.923164	3.99708819	15.12376
2224	494611.06	3859851.99	1.21647	0.56088	1.0445	1.23595	1.592	4.207	0.5358	0.56088	12.6923673	1.035903671	0.0001087	0.065103	0.746726	0.591791	3.796265	3.81390021	15.11436
2225	494661.06	3859851.99	1.20853	0.55961	1.03931	1.2268	1.607	3.781	0.5358	0.55961	12.6095232	1.033558075	0.0001082	0.064621	0.753783	0.53195	3.796549	3.8052644	14.98483
2226	494711.06	3859851.99	1.20635	0.54221	1.02768	1.19162	1.606	3.555	0.5185	0.54221	12.5867776	1.001421569	0.000107	0.062767	0.752986	0.500119	3.673547	3.686947	14.89078
2227	494761.06	3859851.99	1.19694	0.54576	1.03214	1.18276	1.568	3.388	0.5241	0.54576	12.4885958	1.007978155	0.0001075	0.062301	0.735237	0.476642	3.713508	3.71108647	14.77328
2228	494811.06	3859851.99	1.1922	0.5364	1.02786	1.16455	1.492	3.174	0.5155	0.5364	12.4391397	0.990690931	0.000107	0.061342	0.699407	0.446537	3.652716	3.64743987	14.6425
2229	494861.06	3859851.99	1.18565	0.53266	1.01479	1.15293	1.47	3.067	0.5137	0.53266	12.3707985	0.983783429	0.0001056	0.06073	0.68948	0.431516	3.639537	3.62200843	14.55394
2230	494911.06	3859851.99	1.18196	0.52121	1.00036	1.13347	1.516	2.948	0.5043	0.52121	12.3322979	0.96263613	0.0001041	0.059704	0.710764	0.414691	3.573147	3.54415014	14.5092
2231	494961.06	3859851.99	1.17711	0.51383	0.99121	1.11837	1.578	2.89	0.4986	0.51383	12.2816941	0.949005818	0.0001032	0.058909	0.739851	0.40649	3.53269	3.49396724	14.47478
2232	495011.06	3859851.99	1.17245	0.50669	0.97663	1.10836	1.632	2.875	0.4911	0.50669	12.2330728	0.935818769	0.0001017	0.058382	0.765112	0.404464	3.479621	3.44541631	14.43116
2233	495061.06	3859851.99	1.16744	0.50218	0.96314	1.10485	1.682	2.843	0.4861	0.50218	12.1807996	0.927489134	0.0001003	0.058197	0.788844	0.399875	3.44391	3.41474898	14.38447
2234	495111.06	3859851.99	1.16492	0.49454	0.95031	1.09456	1.686	2.704	0.4742	0.49454	12.1545065	0.913378622	9.893E-05	0.057655	0.790696	0.380413	3.360162	3.36279812	14.29411
2235	495161.06	3859851.99	1.16155	0.48941	0.94512	1.08833	1.695	2.536	0.4658	0.48941	12.1193447	0.903903893	9.839E-05	0.057327	0.794621	0.356709	3.30029	3.32791489	14.20438
2236	495211.06	3859851.99	1.15792	0.48465	0.9401	1.0829	1.762	2.559	0.4605	0.48465	12.0814701	0.895112527	9.787E-05	0.057041	0.826381	0.360029	3.262738	3.2955476	14.18732
2237	495261.06	3859851.99	1.15455	0.47885	0.92905	1.06895	1.781	2.534	0.4561	0.47885	12.0463083	0.884400358	9.672E-05	0.056306	0.8353	0.356441	3.231279	3.25610847	14.15402
2238	495311.06	3859851.99	1.1461	0.47421	0.91667	1.05887	1.777	2.477	0.4537	0.47421	11.958143	0.875830623	9.543E-05	0.055775	0.833321	0.348441	3.214912	3.22455716	14.06196

2239	495361.06	3859851.99	1.13812	0.46974	0.91085	1.04924	1.77	2.433	0.4508	0.46974
2240	495411.06	3859851.99	1.13274	0.46204	0.90127	1.0364	1.74	2.364	0.4455	0.46204
2241	495461.06	3859851.99	1.12747	0.45456	0.8935	1.02459	1.671	2.233	0.4405	0.45456
2242	495511.06	3859851.99	1.12262	0.44552	0.88583	1.01118	1.668	2.15	0.4331	0.44552
2243	495561.06	3859851.99	1.11609	0.44314	0.87929	1.00748	1.607	2.161	0.4309	0.44314
2244	495611.06	3859851.99	1.11074	0.43968	0.86932	1.00336	1.559	2.159	0.4283	0.43968
2245	495661.06	3859851.99	1.11115	0.43052	0.85483	0.98564	1.53	2.129	0.4196	0.43052
2246	494311.06	3859901.99	1.24917	0.64596	1.08669	1.35818	1.292	3.332	0.5952	0.64596
2247	494361.06	3859901.99	1.24721	0.62602	1.07564	1.3196	1.333	3.767	0.5763	0.62602
2248	494411.06	3859901.99	1.23943	0.62095	1.08721	1.3152	1.393	4.618	0.5745	0.62095
2249	494461.06	3859901.99	1.23376	0.60858	1.09196	1.28961	1.418	4.603	0.5667	0.60858
2250	494511.06	3859901.99	1.22654	0.60297	1.08192	1.27257	1.419	5.438	0.5637	0.60297
2251	494561.06	3859901.99	1.21578	0.61509	1.0908	1.27429	1.45	4.639	0.5712	0.61509
2252	494611.06	3859901.99	1.21525	0.58667	1.06171	1.23497	1.453	4.316	0.5474	0.58667
2253	494661.06	3859901.99	1.20453	0.59215	1.07548	1.23048	1.509	4.046	0.5528	0.59215
2254	494711.06	3859901.99	1.20311	0.56724	1.05544	1.19898	1.538	3.728	0.5342	0.56724
2255	494761.06	3859901.99	1.19303	0.56761	1.0523	1.19409	1.549	3.567	0.5345	0.56761
2256	494811.06	3859901.99	1.18298	0.56813	1.04812	1.19221	1.554	3.517	0.5348	0.56813
2257	494861.06	3859901.99	1.17541	0.56371	1.03806	1.18089	1.547	3.375	0.5318	0.56371
2258	494911.06	3859901.99	1.17171	0.55251	1.02566	1.16008	1.5	3.259	0.5238	0.55251
2259	494961.06	3859901.99	1.16569	0.54738	1.01764	1.14826	1.442	3.193	0.5204	0.54738
2260	495011.06	3859901.99	1.16145	0.53801	0.99948	1.13073	1.435	3.023	0.5137	0.53801
2261	495061.06	3859901.99	1.15658	0.53033	1.00018	1.1157	1.493	2.792	0.5084	0.53033
2262	495111.06	3859901.99	1.15306	0.51962	0.98825	1.09577	1.548	2.719	0.5008	0.51962
2263	495161.06	3859901.99	1.1491	0.51016	0.97493	1.08058	1.598	2.664	0.4945	0.51016
2264	495211.06	3859901.99	1.14311	0.50689	0.96896	1.07736	1.647	2.66	0.4926	0.50689
2265	495261.06	3859901.99	1.1405	0.49713	0.95115	1.06109	1.638	2.608	0.4833	0.49713
2266	495311.06	3859901.99	1.13701	0.49367	0.94012	1.06578	1.66	2.569	0.4809	0.49367
2267	495361.06	3859901.99	1.13531	0.4862	0.92196	1.06112	1.728	2.488	0.4734	0.4862
2268	495411.06	3859901.99	1.13181	0.47759	0.91118	1.0441	1.736	2.384	0.465	0.47759
2269	495461.06	3859901.99	1.12589	0.47186	0.89622	1.03008	1.73	2.291	0.4595	0.47186
2270	495511.06	3859901.99	1.11904	0.46881	0.88335	1.02172	1.723	2.247	0.4563	0.46881
2271	495561.06	3859901.99	1.11231	0.46572	0.87773	1.01372	1.686	2.223	0.453	0.46572
2272	495611.06	3859901.99	1.10687	0.46075	0.8692	1.00188	1.623	2.18	0.4452	0.46075
2273	495661.06	3859901.99	1.10165	0.4543	0.85873	0.99044	1.616	2.133	0.4364	0.4543
2274	494311.06	3859951.99	1.2451	0.6725	1.09847	1.40865	1.21	3.276	0.6258	0.6725
2275	494361.06	3859951.99	1.24093	0.65829	1.08901	1.38584	1.243	3.698	0.6132	0.65829
2276	494411.06	3859951.99	1.23611	0.64465	1.08571	1.36208	1.282	4.818	0.603	0.64465
2277	494461.06	3859951.99	1.23037	0.63292	1.07391	1.34245	1.276	4.851	0.5956	0.63292
2278	494511.06	3859951.99	1.22293	0.62866	1.06959	1.33382	1.341	5.799	0.5952	0.62866
2279	494561.06	3859951.99	1.21042	0.63679	1.08745	1.33726	1.376	5.377	0.607	0.63679
2280	494611.06	3859951.99	1.20994	0.62397	1.073	1.29837	1.38	4.78	0.5826	0.62397
2281	494661.06	3859951.99	1.20056	0.62665	1.08313	1.28635	1.391	4.597	0.5878	0.62665
2282	494711.06	3859951.99	1.19924	0.60866	1.06266	1.25364	1.411	4.353	0.5663	0.60866
2283	494761.06	3859951.99	1.19181	0.60478	1.07024	1.24465	1.445	4.127	0.5638	0.60478
2284	494811.06	3859951.99	1.18453	0.5983	1.07681	1.23343	1.474	3.967	0.5588	0.5983
2285	494861.06	3859951.99	1.1762	0.59586	1.09057	1.2283	1.488	3.723	0.5591	0.59586
2286	494911.06	3859951.99	1.17129	0.58427	1.06922	1.21005	1.503	3.385	0.5469	0.58427
2287	494961.06	3859951.99	1.16532	0.57408	1.04468	1.19337	1.506	3.167	0.5398	0.57408
2288	495011.06	3859951.99	1.15888	0.56529	1.02816	1.18182	1.501	3.047	0.5333	0.56529
2289	495061.06	3859951.99	1.15167	0.55871	1.01371	1.16804	1.436	2.911	0.5273	0.55871
2290	495111.06	3859951.99	1.14622	0.54809	0.99869	1.14709	1.394	2.825	0.5183	0.54809
2291	495161.06	3859951.99	1.14055	0.53813	0.99165	1.12806	1.405	2.761	0.5109	0.53813
2292	495211.06	3859951.99	1.13648	0.5286	0.98199	1.11031	1.459	2.701	0.5049	0.5286
2293	495261.06	3859951.99	1.13372	0.52151	0.96892	1.10061	1.516	2.647	0.5	0.52151
2294	495311.06	3859951.99	1.12931	0.5187	0.95715	1.10142	1.566	2.608	0.498	0.5187
2295	495361.06	3859951.99	1.12627	0.51253	0.93568	1.09489	1.606	2.558	0.4948	0.51253
2296	495411.06	3859951.99	1.12463	0.50333	0.92875	1.07843	1.591	2.444	0.488	0.50333
2297	495461.06	3859951.99	1.12291	0.49683	0.92451	1.06552	1.622	2.371	0.4812	0.49683

11.8748815	0.867574865	9.483E-05	0.055268	0.829935	0.342289	3.194081	3.19416183	13.96996		
11.8187478	0.853353538	9.383E-05	0.054591	0.815788	0.332624	3.156174	3.14180298	13.88957		
11.7637618	0.839538534	9.302E-05	0.053969	0.783611	0.314118	3.120818	3.09094009	13.78497		
11.7131581	0.822842325	9.222E-05	0.053263	0.782289	0.302519	3.068315	3.02946944	13.71301		
11.6450255	0.818446642	9.154E-05	0.053068	0.753366	0.303943	3.052728	3.0132858	13.61338		
11.5892049	0.81205628	9.05E-05	0.052851	0.731017	0.30373	3.034731	2.98975832	13.53392		
11.5934827	0.79513844	8.899E-05	0.051918	0.717512	0.299525	2.973301	2.92747169	13.50349		
13.0335516	1.193040107	0.0001131	0.071541	0.605994	0.468698	4.21749	4.3924315	15.198		
13.0131014	1.156212409	0.000112	0.069509	0.625097	0.529983	4.083435	4.25684248	15.22061		
12.9319266	1.146848496	0.0001132	0.069277	0.653143	0.649621	4.070186	4.22236724	15.29875		
12.8727672	1.124002026	0.0001137	0.067929	0.66482	0.647483	4.01492	4.13825309	15.25378		
12.7974354	1.113640773	0.0001126	0.067031	0.665593	0.764937	3.993876	4.10010592	15.30252		
12.685168	1.136025512	0.0001136	0.067122	0.680088	0.65257	4.047016	4.18252011	15.08558		
12.6796381	1.083535884	0.0001105	0.065051	0.681255	0.60722	3.878668	3.98926836	15.00621		
12.5677881	1.093657037	0.000112	0.064814	0.707501	0.569147	3.916646	4.02653154	14.89313		
12.5529721	1.047650118	0.0001099	0.063155	0.721413	0.524473	3.785071	3.85714726	14.8377		
12.4477997	1.048333481	0.0001096	0.062898	0.726511	0.501826	3.787125	3.85966321	14.71494		
12.3429404	1.049293882	0.0001091	0.062799	0.728897	0.494709	3.788968	3.86319913	14.60452		
12.2639567	1.041130471	0.0001081	0.062202	0.725254	0.474781	3.767782	3.83314379	14.50207		
12.2253518	1.020444903	0.0001068	0.061106	0.703398	0.458495	3.711595	3.75698546	14.42351		
12.1625405	1.010970174	0.0001059	0.060484	0.676233	0.449238	3.686938	3.72210223	14.32441		
12.1183013	0.993664481	0.0001041	0.05956	0.672791	0.425332	3.63975	3.65838763	14.25112		
12.0674889	0.979480092	0.0001041	0.058768	0.700124	0.392698	3.60241	3.60616478	14.19491		
12.030762	0.959699518	0.0001029	0.057719	0.726042	0.382504	3.548136	3.53333838	14.17163		
11.9894443	0.942227601	0.0001015	0.056919	0.749159	0.374774	3.50364	3.46901179	14.14725		
11.926946	0.936188154	0.0001009	0.056749	0.77216	0.374226	3.490036	3.44677628	14.10963		
11.8997138	0.918162159	9.902E-05	0.055892	0.767911	0.366826	3.424638	3.38040973	14.05283		
11.8633	0.911771797	9.787E-05	0.056139	0.778462	0.36142	3.407563	3.35688225	14.02187		
11.8455626	0.897975262	9.598E-05	0.055894	0.810283	0.350048	3.353926	3.30608737	14.0077		
11.8090444	0.882073232	9.486E-05	0.054997	0.81425	0.335311	3.294622	3.24754065	13.94285		
11.7472765	0.871490348	9.33E-05	0.054259	0.811122	0.32223	3.255582	3.20857751	13.85348		
11.6758052	0.865857224	9.196E-05	0.053818	0.808121	0.316124	3.232908	3.18783797	13.76489		
11.6055859	0.860150224	9.138E-05	0.053397	0.790607	0.312778	3.209598	3.16682643	13.66538		
11.5488262	0.850971003	9.049E-05	0.052773	0.760854	0.306677	3.154544	3.13303117	13.54171		
11.4943619	0.839058333	8.94E-05	0.052171	0.757764	0.300108	3.091839	3.08917213	13.44622		
12.9910861	1.242057515	0.0001144	0.074199	0.567266	0.460795	4.434161	4.57289954	15.19678		
12.9475773	1.215812701	0.0001134	0.072998	0.582928	0.520216	4.345027	4.47627366	15.2084		
12.8972865	1.190620635	0.000113	0.071746	0.601014	0.677814	4.272402	4.3835237	15.32747		
12.8373967	1.168956196	0.0001118	0.070712	0.59851	0.682396	4.219899	4.30376145	15.27422		
12.7597695	1.161088293	0.0001114	0.070258	0.628666	0.815794	4.216852	4.27479409	15.37775		
12.629243	1.176103799	0.0001132	0.070439	0.645359	0.756447	4.300672	4.33007687	15.2483		
12.6242348	1.152426212	0.0001117	0.06839	0.64723	0.67236	4.128144	4.24290279	15.04999		
12.526366	1.157375973	0.0001128	0.067757	0.652257	0.646729	4.164917	4.26112639	14.95439		
12.5125935	1.12414978	0.0001106	0.066034	0.661575	0.612338	4.012723	4.13879707	14.85073		
12.4350706	1.116983708	0.0001114	0.065561	0.677555	0.580515	3.994585	4.11241365	14.75797		
12.3591127	1.10501563	0.0001121	0.06497	0.691267	0.558089	3.959512	4.06835062	14.66973		
12.2721994	1.100509131	0.0001135	0.0647	0.697972	0.523732	3.961425	4.05175899	14.56889		
12.2209696	1.079103263	0.0001113	0.063738	0.704659	0.476193	3.875126	3.97294872	14.44695		
12.15868	1.06028309	0.0001088	0.06286	0.706352	0.44555	3.824749	3.90365824	14.35492		
12.0914865	1.044048613	0.000107	0.062251	0.703712	0.428687	3.77834	3.84388755	14.26474		
12.0162591	1.031895842	0.0001055	0.061525	0.673345	0.409558	3.73604	3.79914454	14.12958		
11.959395	1.012281492	0.000104	0.060422	0.653837	0.397465	3.672626	3.72693012	14.0292		
11.9002355	0.993886112	0.0001032	0.05942	0.658958	0.388383	3.619557	3.65920361	13.96134		
11.8577701	0.97628491	0.0001022	0.058485	0.684242	0.379944	3.577257	3.59440103	13.93968		
11.8289729	0.963190207	0.0001009	0.057974	0.710774	0.37238	3.54261	3.54619009	13.92981		
11.78296	0.958000346	9.965E-05	0.058016	0.734112	0.366829	3.528793	3.52708251	13.90173		
11.7512413	0.946604815	9.741E-05	0.057672	0.753084	0.359874	3.505624	3.48512743	13.88907		
11.7341299	0.929613099	9.669E-05	0.056805	0.746064	0.343795	3.457939	3.42256881	13.84587		
11.7161838	0.917608082	9.625E-05	0.056125	0.760737	0.333496	3.409192	3.37836978	13.81507		

2298	495511.06	3859951.99	1.12096	0.48942	0.91078	1.05548	1.688	2.272	0.4742	0.48942	11.695838	0.903922363	9.482E-05	0.055596	0.791578	0.319625	3.359878	3.32798289	13.79855
2299	495561.06	3859951.99	1.11317	0.48826	0.90876	1.05588	1.691	2.235	0.4745	0.48826	11.6145589	0.901779929	9.461E-05	0.055618	0.793158	0.314431	3.361649	3.32009506	13.72119
2300	495611.06	3859951.99	1.10778	0.48037	0.90447	1.0447	1.686	2.164	0.4662	0.48037	11.5583209	0.887207685	9.416E-05	0.055029	0.790518	0.304467	3.303408	3.26644424	13.6326
2301	495661.06	3859951.99	1.10298	0.47069	0.88465	1.02756	1.679	2.087	0.455	0.47069	11.5082388	0.869329445	9.21E-05	0.054126	0.787273	0.29354	3.22391	3.20062168	13.53589
2302	494311.06	3860001.99	1.24123	0.69548	1.04903	1.4747	1.244	3.512	0.6436	0.69548	12.9507074	1.284499867	0.0001092	0.077678	0.583453	0.493989	4.56028	4.7291601	15.22156
2303	494361.06	3860001.99	1.23561	0.68729	1.03554	1.45612	1.215	4.1	0.6378	0.68729	12.8920696	1.269373545	0.0001078	0.0767	0.569577	0.576783	4.518972	4.67346933	15.23011
2304	494411.06	3860001.99	1.233	0.67494	1.02319	1.42832	1.176	5.053	0.6266	0.67494	12.8648375	1.246564013	0.0001065	0.075235	0.551533	0.710833	4.43997	4.58949117	15.29959
2305	494461.06	3860001.99	1.2258	0.66498	1.0266	1.41603	1.198	7.024	0.6229	0.66498	12.7897144	1.228168634	0.0001069	0.074588	0.561653	0.988112	4.413542	4.52176466	15.53412
2306	494511.06	3860001.99	1.22129	0.65303	1.02233	1.39429	1.23	7.09	0.6131	0.65303	12.7426581	1.206097872	0.0001064	0.073443	0.57686	0.997435	4.344106	4.44050645	15.5002
2307	494561.06	3860001.99	1.20556	0.66654	1.05845	1.41005	1.275	6.883	0.6229	0.66654	12.5785349	1.231049838	0.0001102	0.074273	0.59797	0.968253	4.413542	4.53237243	15.33136
2308	494611.06	3860001.99	1.20216	0.65405	1.05818	1.37793	1.314	6.144	0.6127	0.65405	12.5430601	1.207981736	0.0001102	0.072581	0.616291	0.86432	4.341413	4.44744229	15.19832
2309	494661.06	3860001.99	1.19561	0.64863	1.07338	1.36206	1.33	5.427	0.608	0.64863	12.4747189	1.197971399	0.0001117	0.071745	0.623813	0.763502	4.307758	4.4105871	15.02903
2310	494711.06	3860001.99	1.19818	0.62915	1.04611	1.31875	1.342	4.671	0.5834	0.62915	12.5015337	1.161993287	0.0001089	0.069464	0.629233	0.657036	4.133529	4.27812601	14.87477
2311	494761.06	3860001.99	1.18755	0.63376	1.06959	1.31883	1.352	4.478	0.588	0.63376	12.3906227	1.170507614	0.0001114	0.069468	0.633805	0.629924	4.166263	4.30947332	14.75123
2312	494811.06	3860001.99	1.18062	0.6316	1.07308	1.30526	1.354	4.256	0.5841	0.6316	12.3183167	1.166518255	0.0001117	0.068753	0.635104	0.598748	4.138418	4.29478565	14.63118
2313	494861.06	3860001.99	1.17291	0.62885	1.08081	1.29652	1.358	4.072	0.5834	0.62885	12.2378723	1.161439209	0.0001125	0.068293	0.636731	0.572896	4.133741	4.27608606	14.535
2314	494911.06	3860001.99	1.17388	0.60561	1.05981	1.25002	1.418	3.58	0.5618	0.60561	12.2479931	1.118516656	0.0001103	0.065844	0.664712	0.503653	3.980201	4.11805753	14.46297
2315	494961.06	3860001.99	1.16583	0.60165	1.0623	1.23808	1.38	3.443	0.5591	0.60165	12.1640012	1.111202831	0.0001106	0.065215	0.646902	0.484286	3.961425	4.09113012	14.34201
2316	495011.06	3860001.99	1.16074	0.59106	1.06367	1.22077	1.455	3.289	0.552	0.59106	12.1108933	1.091643888	0.0001107	0.064303	0.682296	0.462719	3.910907	4.0191197	14.30375
2317	495061.06	3860001.99	1.15328	0.58779	1.06678	1.21751	1.463	3.197	0.5495	0.58779	12.0330574	1.085604441	0.0001111	0.064131	0.686066	0.449801	3.893406	3.99688419	14.21529
2318	495111.06	3860001.99	1.14871	0.57696	1.06239	1.2	1.462	3.039	0.5427	0.57696	11.9853751	1.065602236	0.0001106	0.063209	0.685569	0.427539	3.845084	3.92324181	14.14925
2319	495161.06	3860001.99	1.14329	0.56642	1.06102	1.18119	1.442	2.852	0.5356	0.56642	11.9288241	1.046135639	0.0001105	0.062218	0.676013	0.401237	3.79499	3.85157138	14.05796
2320	495211.06	3860001.99	1.135	0.56293	1.04631	1.17828	1.378	2.788	0.5328	0.56293	11.8423281	1.039689869	0.0001089	0.062065	0.646382	0.392174	3.775151	3.82783991	13.93006
2321	495261.06	3860001.99	1.12931	0.55366	1.01762	1.16424	1.357	2.661	0.5267	0.55366	11.78296	1.022568868	0.0001059	0.061325	0.63638	0.374273	3.731789	3.76480529	13.8446
2322	495311.06	3860001.99	1.12248	0.54741	0.99928	1.15244	1.39	2.598	0.5204	0.54741	11.7116973	1.011025582	0.000104	0.060704	0.651587	0.365408	3.686867	3.72230622	13.76509
2323	495361.06	3860001.99	1.12163	0.53324	0.96635	1.12348	1.434	2.494	0.5093	0.53324	11.7028286	0.984854645	0.0001006	0.059178	0.672604	0.350888	3.60822	3.62595234	13.75272
2324	495411.06	3860001.99	1.11646	0.53205	0.95957	1.12301	1.489	2.438	0.5075	0.53205	11.648886	0.982656804	9.99E-05	0.059154	0.698033	0.343021	3.595608	3.61786052	13.7096
2325	495461.06	3860001.99	1.11414	0.52419	0.94119	1.11221	1.534	2.402	0.5025	0.52419	11.6246797	0.968139968	9.798E-05	0.058585	0.719336	0.337959	3.56004	3.56441369	13.70442
2326	495511.06	3860001.99	1.11168	0.51742	0.92763	1.09886	1.561	2.397	0.4969	0.51742	11.5990126	0.955636281	9.657E-05	0.057881	0.731898	0.337145	3.520999	3.5183787	13.68429
2327	495561.06	3860001.99	1.10782	0.51416	0.92066	1.09471	1.563	2.383	0.4936	0.51416	11.5587383	0.949615304	9.585E-05	0.057663	0.732935	0.335226	3.497547	3.49621119	13.63561
2328	495611.06	3860001.99	1.10675	0.50561	0.91527	1.07145	1.607	2.299	0.4868	0.50561	11.5475741	0.933824089	9.529E-05	0.056438	0.753548	0.323343	3.44887	3.43807247	13.62562
2329	495661.06	3860001.99	1.10317	0.49631	0.90898	1.04982	1.652	2.22	0.4798	0.49631	11.5102212	0.91664768	9.463E-05	0.055298	0.774847	0.312361	3.399202	3.37483386	13.59384
2330	494411.06	3860051.99	1.22675	0.69956	1.06994	1.48523	1.192	10.47	0.6528	0.69956	12.7996264	1.292035323	0.0001114	0.078233	0.558989	1.472888	4.625324	4.75690349	16.0703
2331	494461.06	3860051.99	1.22176	0.69245	1.06026	1.46873	1.181	13.17	0.6464	0.69245	12.7475619	1.278903682	0.0001104	0.077364	0.553845	1.85229	4.580119	4.70855656	16.38164
2332	494511.06	3860051.99	1.21594	0.68747	1.04692	1.45435	1.152	9.591	0.6392	0.68747	12.6868374	1.269705992	0.000109	0.076607	0.540101	1.349164	4.529175	4.6746933	15.77701
2333	494561.06	3860051.99	1.20426	0.69061	1.06161	1.45464	1.158	7.035	0.6404	0.69061	12.564971	1.275505339	0.0001105	0.076622	0.543041	0.989681	4.537748	4.69604483	15.29163
2334	494611.06	3860051.99	1.19635	0.68849	1.06807	1.44238	1.191	6.016	0.6377	0.68849	12.4824399	1.271589856	0.0001112	0.075976	0.558272	0.84626	4.51798	4.68162915	15.071
2335	494661.06	3860051.99	1.18967	0.68488	1.07164	1.41822	1.225	5.393	0.6333	0.68488	12.4127423	1.264922454	0.0001116	0.074703	0.574304	0.758622	4.487372	4.65708169	14.9157
2336	494711.06	3860051.99	1.18888	0.66934	1.05577	1.38549	1.264	4.882	0.6191	0.66934	12.4044996	1.236221229	0.0001099	0.072979	0.592887	0.686802	4.386689	4.55141201	14.82878
2337	494761.06	3860051.99	1.18193	0.66453	1.06326	1.36251	1.29	4.559	0.6151	0.66453	12.3319849	1.227337517	0.0001107	0.071769	0.604868	0.641287	4.358347	4.51870473	14.717
2338	494811.06	3860051.99	1.17279	0.66365	1.07863	1.34464	1.302	4.232	0.6149	0.66365	12.2366203	1.225712222	0.0001123	0.070828	0.610598	0.595381	4.357001	4.51272086	14.58353
2339	494861.06	3860051.99	1.16446	0.66088	1.09518	1.33715	1.311	4.019	0.6125	0.66088	12.149707	1.220596238	0.000114	0.070433	0.614856	0.565398	4.340067	4.49388527	14.46729
2340	494911.06	3860051.99	1.16214	0.64901	1.08974	1.30876	1.318	3.842	0.6003	0.64901	12.1255006	1.198673231	0.0001134	0.068938	0.618031	0.540419	4.253484	4.41317105	14.39199
2341	494961.06	3860051.99	1.16013	0.63863	1.08548	1.27835	1.319	3.649	0.5874	0.63863	12.1045287	1.179502142	0.000113	0.067336	0.618701	0.513319	4.162083	4.3425886	14.30299
2342	495011.06	3860051.99	1.15653	0.6275	1.08027	1.2529	1.325	3.457	0.5765	0.6275	12.0669672	1.158945859	0.0001125	0.065995	0.621102	0.486319	4.08464	4.26690626	14.21718
2343	495061.06	3860051.99	1.15102	0.61785	1.06303	1.23389	1.335	3.338	0.5684	0.61785	12.0094771	1.141123027	0.0001107	0.064994	0.625918	0.469548	4.027177	4.2012877	14.13706
2344	495111.06	3860051.99	1.14748	0.60425	1.03492	1.21679	1.353	3.176	0.5573	0.60425	11.9725416	1.116004837	0.0001077	0.064093	0.634448	0.44672	3.948601	4.10880973	14.07371
2345	495161.06	3860051.99	1.14182	0.59536	1.03089	1.20376	1.37	2.988	0.5505	0.59536	11.9134864	1.099585668	0.0001073	0.063407	0.642293	0.420394	3.900349	4.04835906	13.99126
2346	495211.06	3860051.99	1.13723	0.58485	1.0339	1.1888	1.425	2.819	0.5439	0.58485	11.8655954	1.080174479	0.0001076	0.062619	0.668426	0.396569	3.853586	3.97689263	13.95018
2347	495261.06	3860051.99	1.13128	0.57849	1.03576	1.18389	1.42	2.768	0.5403	0.57849	11.8035145	1.068428032	0.0001078	0.06236	0.665729	0.389441	3.828362	3.93364558	13.8843
2348	495311.06	3860051.99	1.12455	0.57356	1.03297	1.18033	1.384	2.743	0.5376	0.57356	11.7332952	1.059322689	0.0001075	0.062173	0.648764	0.385885	3.809019	3.90012232	13.79844
2349	495361.06	3860051.99	1.11782	0.56679	1.0278	1.17205	1.335	2.674	0.534	0.56679	11.663076	1.046819002	0.000107	0.061737	0.626007	0.376116	3.783299	3.85408733	13.70307
2350	495411.06	3860051.99	1.11156	0.55919	1.02199	1.1628	1.325	2.632	0.5302	0.55919	11.5977606	1.032782367	0.0001064	0.061249	0.621299	0.370214	3.756375	3.80240846	13.63738
2351	495461.06	3860051.99	1.10594	0.55037	1.01408	1.1471	1.37	2.571	0.5245	0.55037	11.5391228	1.016492482	0.0001056	0.060422	0.642386	0.361615	3.716201	3.74243378	13.59391
2352	495511.06	3860051.99	1.10209	0.54376	1.00085	1.14097	1.417	2.518	0.5209	0.54376	11.4989528	1.004284304	0.0001042	0.0601	0.664308	0.354288	3.690764	3.69748677	13.57531
2353	495561.06	3860051.99	1.09964	0.53571	0.98824	1.13215	1.46	2.438	0.5159	0.53571	11.47339	0.989416552	0.0001029	0.059635	0.684599	0.343014	3.655408	3.64274797	13.56282
2354	495611.06	3860051.99	1.09797	0.52897	0.9733	1.12082	1.503	2.32	0.5085	0.52897	11.4559656	0.976968273	0.0001013	0.059038	0.704757	0.326434	3.602835	3.59691698	13.52918
2355	495661.06	3860051.99	1.09756	0.52097	0.94627	1.10301	1.518	2.254	0.502	0.52097	11.4516878	0.962192867	9.851E-05	0.0581	0.711693	0.317031	3.556993	3.54251817	13.51528
2356	494411.06	3860101.99	1.21916	0.71381	1.09383	1.49872	1.237	7.449	0.6655	0.71381	12.7204341	1.318354014	0.0001139	0.078944	0.579917	1.047916	4.715095	4.85380137	15.60697

2357	494461.06	3860101.99	1.21004	0.71305	1.0956	1.50393	1.206	6.527	0.6699	0.71305
2358	494511.06	3860101.99	1.21004	0.70219	1.06852	1.48974	1.155	6.458	0.6569	0.70219
2359	494561.06	3860101.99	1.20146	0.70326	1.06527	1.48724	1.13	6.142	0.6534	0.70326
2360	494611.06	3860101.99	1.18952	0.70772	1.06865	1.49383	1.118	5.648	0.6586	0.70772
2361	494661.06	3860101.99	1.18191	0.7055	1.06184	1.4777	1.112	5.427	0.6562	0.7055
2362	494711.06	3860101.99	1.18087	0.69636	1.04045	1.44379	1.146	5.085	0.6436	0.69636
2363	494761.06	3860101.99	1.17432	0.69296	1.03536	1.42513	1.177	4.784	0.6388	0.69296
2364	494811.06	3860101.99	1.16743	0.68993	1.04125	1.40843	1.211	4.515	0.6346	0.68993
2365	494861.06	3860101.99	1.15121	0.69441	1.07138	1.39767	1.245	4.229	0.6376	0.69441
2366	494911.06	3860101.99	1.16041	0.67139	1.02617	1.34064	1.259	4.042	0.6169	0.67139
2367	494961.06	3860101.99	1.15505	0.66504	1.0272	1.31908	1.272	3.875	0.6111	0.66504
2368	495011.06	3860101.99	1.15202	0.65541	1.02467	1.2902	1.28	3.608	0.6013	0.65541
2369	495061.06	3860101.99	1.14836	0.64627	1.02546	1.26792	1.284	3.49	0.5926	0.64627
2370	495111.06	3860101.99	1.14616	0.63183	1.02222	1.24264	1.286	3.292	0.5813	0.63183
2371	495161.06	3860101.99	1.1392	0.62557	1.03342	1.23111	1.293	3.186	0.577	0.62557
2372	495211.06	3860101.99	1.13368	0.61666	1.04059	1.21601	1.31	3.081	0.57	0.61666
2373	495261.06	3860101.99	1.12831	0.60769	1.04244	1.20662	1.327	2.994	0.5625	0.60769
2374	495311.06	3860101.99	1.12226	0.60033	1.02512	1.19955	1.341	2.85	0.5563	0.60033
2375	495361.06	3860101.99	1.11546	0.59549	1.01301	1.19621	1.34	2.745	0.5524	0.59549
2376	495411.06	3860101.99	1.11078	0.58689	0.99995	1.18686	1.342	2.68	0.545	0.58689
2377	495461.06	3860101.99	1.1079	0.57448	0.98192	1.17214	1.344	2.592	0.5342	0.57448
2378	495511.06	3860101.99	1.10125	0.56951	0.98747	1.1692	1.356	2.505	0.5307	0.56951
2379	495561.06	3860101.99	1.09377	0.56378	0.99542	1.16622	1.365	2.452	0.5277	0.56378
2380	495611.06	3860101.99	1.09042	0.55169	0.99568	1.15193	1.349	2.332	0.5209	0.55169
2381	495661.06	3860101.99	1.08796	0.54388	0.99909	1.14037	1.39	2.274	0.5171	0.54388
2382	494861.06	3860151.99	1.14013	0.71165	1.0929	1.44122	1.125	4.519	0.6528	0.71165
2383	494911.06	3860151.99	1.15092	0.69102	1.04566	1.42065	1.163	4.303	0.6326	0.69102
2384	494961.06	3860151.99	1.1473	0.68337	1.03238	1.39244	1.187	4.066	0.6255	0.68337
2385	495011.06	3860151.99	1.14436	0.67224	1.01892	1.36144	1.222	3.854	0.6158	0.67224
2386	495061.06	3860151.99	1.14131	0.66175	1.00747	1.33567	1.232	3.509	0.6068	0.66175
2387	495111.06	3860151.99	1.13702	0.65605	1.00086	1.31649	1.242	3.348	0.6001	0.65605
2388	495161.06	3860151.99	1.13231	0.65096	0.99695	1.29919	1.253	3.18	0.5943	0.65096
2389	495211.06	3860151.99	1.12801	0.64226	0.99296	1.27997	1.252	3.039	0.5874	0.64226
2390	495261.06	3860151.99	1.12225	0.63467	0.99263	1.26431	1.256	2.902	0.5827	0.63467
2391	495311.06	3860151.99	1.11674	0.6269	0.99189	1.2485	1.268	2.812	0.5777	0.6269
2392	495361.06	3860151.99	1.11103	0.61992	0.99226	1.23404	1.286	2.689	0.5732	0.61992
2393	495411.06	3860151.99	1.10632	0.61136	0.99714	1.21755	1.302	2.532	0.5667	0.61136
2394	495461.06	3860151.99	1.10119	0.6029	1.00334	1.20203	1.311	2.42	0.5606	0.6029
2395	495511.06	3860151.99	1.09723	0.59298	0.99957	1.19104	1.306	2.34	0.5531	0.59298
2396	495561.06	3860151.99	1.09177	0.58583	0.99531	1.18695	1.314	2.285	0.5481	0.58583
2397	495611.06	3860151.99	1.08773	0.57646	0.98157	1.17882	1.307	2.225	0.5411	0.57646
2398	495661.06	3860151.99	1.08412	0.56644	0.9654	1.17056	1.321	2.147	0.5337	0.56644
2399	495718.25	3859442.96	1.10582	0.27166	0.67558	0.82864	1.728	2.136	0.2841	0.27166
2400	495818.25	3859442.96	1.09008	0.25938	0.64837	0.81907	1.587	1.936	0.2796	0.25938
2401	495918.25	3859442.96	1.07825	0.25296	0.64435	0.81598	1.485	1.795	0.277	0.25296
2402	496018.25	3859442.96	1.06804	0.24583	0.64623	0.80849	1.492	1.687	0.2753	0.24583
2403	496118.25	3859442.96	1.06559	0.24835	0.647	0.81828	1.516	1.727	0.2753	0.24835
2404	496218.25	3859442.96	1.06141	0.25244	0.64497	0.82395	1.524	1.697	0.2766	0.25244
2405	496318.25	3859442.96	1.05129	0.24766	0.62939	0.81163	1.546	1.648	0.2733	0.24766
2406	496418.25	3859442.96	1.03391	0.24435	0.609	0.7974	1.513	1.653	0.269	0.24435
2407	495718.25	3859542.96	1.10802	0.30023	0.7344	0.80443	1.728	1.863	0.304	0.30023
2408	495818.25	3859542.96	1.09983	0.293	0.72327	0.80598	1.695	1.774	0.2998	0.293
2409	495918.25	3859542.96	1.08425	0.27895	0.70593	0.81018	1.645	1.696	0.2901	0.27895
2410	496018.25	3859542.96	1.07038	0.26814	0.68773	0.81673	1.65	1.596	0.2859	0.26814
2411	496118.25	3859542.96	1.06228	0.27756	0.68611	0.84605	1.623	1.593	0.2899	0.27756
2412	496218.25	3859542.96	1.0527	0.28118	0.68039	0.86803	1.54	1.541	0.2926	0.28118
2413	496318.25	3859542.96	1.04256	0.28327	0.67343	0.86279	1.424	1.502	0.2948	0.28327
2414	496418.25	3859542.96	1.03151	0.27779	0.66559	0.84901	1.446	1.467	0.2908	0.27779
2415	495718.25	3859642.96	1.12531	0.3342	0.73938	0.84772	1.447	2.001	0.3292	0.3342

12.6252782	1.316950351	0.0001141	0.079218	0.565685	0.918144	4.746483	4.84863348	15.40324
12.6252782	1.296892738	0.0001112	0.078471	0.541639	0.908501	4.65409	4.7747871	15.3302
12.5357564	1.298868948	0.0001109	0.078339	0.529954	0.863998	4.629504	4.78206294	15.15447
12.4111772	1.307106237	0.0001113	0.078686	0.524059	0.794516	4.666631	4.81239028	14.9699
12.3317762	1.303006062	0.0001105	0.077836	0.521466	0.763515	4.649485	4.79729461	14.8499
12.3209251	1.286125161	0.0001083	0.07605	0.537166	0.715355	4.559997	4.73514397	14.76058
12.2525839	1.279845614	0.0001078	0.075067	0.55181	0.673007	4.52627	4.71202448	14.64667
12.1806953	1.274249429	0.0001084	0.074188	0.568011	0.635147	4.496157	4.69142093	14.53714
12.0114595	1.282523656	0.0001115	0.073621	0.583786	0.594922	4.517839	4.72188426	14.34238
12.1074502	1.240007427	0.0001068	0.070617	0.5902	0.568656	4.371242	4.5653517	14.38293
12.0515252	1.228279449	0.0001069	0.069481	0.596353	0.545135	4.329864	4.52217265	14.29857
12.0199109	1.210493555	0.0001067	0.06796	0.600399	0.507527	4.260215	4.45669009	14.20992
11.9817233	1.193612654	0.0001068	0.066787	0.602186	0.490919	4.198927	4.39453946	14.13972
11.958769	1.166943047	0.0001064	0.065455	0.603236	0.463157	4.118508	4.29634961	14.07982
11.8861499	1.155381293	0.0001076	0.064848	0.606116	0.448177	4.088182	4.25378255	13.99518
11.8285555	1.138925185	0.0001083	0.064052	0.61427	0.433459	4.038797	4.19319588	13.92497
11.7725262	1.122358262	0.0001085	0.063558	0.622392	0.421228	3.985303	4.13220122	13.85527
11.7094019	1.108764889	0.0001067	0.063185	0.629041	0.400993	3.941657	4.08215432	13.771
11.6384523	1.099825769	0.0001055	0.063009	0.628145	0.386213	3.913599	4.04924304	13.68011
11.5896222	1.083942208	0.0001041	0.062517	0.629097	0.376958	3.861167	3.99076433	13.61264
11.559573	1.06102186	0.0001022	0.061741	0.630143	0.364661	3.784645	3.90637818	13.55551
11.4901884	1.05184264	0.0001028	0.061587	0.635854	0.352372	3.759847	3.87258292	13.47921
11.4121438	1.041259755	0.0001036	0.06143	0.640075	0.344909	3.738591	3.83361978	13.40489
11.3771907	1.018930424	0.0001037	0.060677	0.63237	0.328049	3.690835	3.75140958	13.35675
11.3515236	1.004505935	0.000104	0.060068	0.651605	0.319831	3.663628	3.69830275	13.35296
11.8958534	1.314364655	0.0001138	0.075915	0.527445	0.635698	4.625253	4.83911369	14.23553
12.0084337	1.276262578	0.0001089	0.074831	0.545198	0.605267	4.482058	4.69883277	14.29333
11.9706635	1.262133597	0.0001075	0.073345	0.556729	0.571948	4.431681	4.64681391	14.21979
11.9399882	1.241577314	0.0001061	0.071713	0.57316	0.542155	4.363307	4.57113158	14.16087
11.9081652	1.222203064	0.0001049	0.070355	0.577765	0.4936	4.299184	4.49980114	14.07158
11.8634043	1.211675587	0.0001042	0.069345	0.582571	0.471011	4.251783	4.46104199	13.98885
11.8142613	1.202274736	0.0001038	0.068434	0.587565	0.447279	4.211042	4.42643075	13.90453
11.7693961	1.186206482	0.0001034	0.067421	0.587124	0.427577	4.161658	4.36727205	13.83221
11.7092976	1.172188316	0.0001033	0.066596	0.589159	0.408197	4.128569	4.31566119	13.75845
11.6518075	1.157837704	0.0001033	0.065764	0.594608	0.395613	4.093284	4.26282635	13.69619
11.5922307	1.144946163	0.0001033	0.065002	0.603039	0.378239	4.061258	4.21536339	13.62946
11.5430876	1.129136479	0.0001038	0.064133	0.610734	0.356166	4.015203	4.15715667	13.56141
11.4895624	1.113511488	0.0001045	0.063316	0.614852	0.34038	3.971982	4.09962993	13.49408
11.4482447	1.095189985	0.0001041	0.062737	0.612207	0.329229	3.918842	4.03217542	13.43438
11.3912763	1.081984467	0.0001036	0.062521	0.615991	0.321385	3.883415	3.98355648	13.37312
11.3491238	1.064678773	0.0001022	0.062093	0.612948	0.31307	3.833747	3.91984188	13.31592
11.3114579	1.046172578	0.0001005	0.061658	0.619602	0.302048	3.781599	3.85170738	13.27093
11.5378707	0.501735828	7.033E-05	0.043648	0.810358	0.300496	2.012597	1.84724742	13.35953
11.3736432	0.479055581	6.75E-05	0.043144	0.744315	0.272405	1.980783	1.76374525	13.12967
11.2502117	0.467198318	6.708E-05	0.042981	0.696204	0.252516	1.962645	1.72009021	12.95173
11.1436829	0.454029738	6.728E-05	0.042586	0.699609	0.237257	1.9506	1.67160728	12.85622
11.1181202	0.458683991	6.736E-05	0.043102	0.710839	0.242905	1.950671	1.6887429	12.83565
11.074507	0.466237917	6.715E-05	0.043401	0.714398	0.238782	1.95974	1.71655429	12.78058
10.9689173	0.457409612	6.552E-05	0.042752	0.724813	0.231835	1.936146	1.684051	12.67789
10.7875784	0.451296288	6.34E-05	0.042002	0.709273	0.232479	1.906175	1.6615435	12.46732
11.560825	0.554502495	7.646E-05	0.042373	0.810264	0.262035	2.153879	2.04151915	13.34244
11.4753725	0.541149222	7.53E-05	0.042454	0.794893	0.249515	2.123908	1.99235623	13.23501
11.3128143	0.515199916	7.349E-05	0.042675	0.771189	0.238528	2.055463	1.89681833	13.03913
11.1680979	0.49523465	7.16E-05	0.04302	0.77389	0.224471	2.025705	1.82331194	12.90718
11.0835844	0.51263269	7.143E-05	0.044565	0.760929	0.224129	2.053975	1.88736654	12.79252
10.9836289	0.519318561	7.083E-05	0.045723	0.722318	0.216843	2.073035	1.911982	12.64896
10.8778305	0.523178635	7.011E-05	0.045447	0.667952	0.211239	2.088977	1.92619368	12.4885
10.7625373	0.513057482	6.929E-05	0.044721	0.678254	0.206367	2.060706	1.8889305	12.37678
11.7412249	0.61724256	7.697E-05	0.044653	0.678315	0.28151	2.332217	2.27251007	13.42273

2416	495818.25	3859642.96	1.10767	0.32551	0.70901	0.82338	1.475	1.838	0.3236	0.32551
2417	495918.25	3859642.96	1.08435	0.32245	0.69227	0.81281	1.49	1.715	0.3218	0.32245
2418	496018.25	3859642.96	1.06698	0.31476	0.67545	0.79509	1.566	1.612	0.3142	0.31476
2419	496118.25	3859642.96	1.06786	0.31851	0.66536	0.83856	1.658	1.543	0.3107	0.31851
2420	496218.25	3859642.96	1.06021	0.324	0.64685	0.86893	1.615	1.518	0.313	0.324
2421	496318.25	3859642.96	1.05081	0.31933	0.62094	0.86669	1.578	1.472	0.3124	0.31933
2422	496418.25	3859642.96	1.03185	0.28763	0.58983	0.808	1.568	1.341	0.2929	0.28763
2423	495718.25	3859742.96	1.13329	0.3782	0.78775	0.91809	1.37	1.905	0.3569	0.3782
2424	495818.25	3859742.96	1.12928	0.3676	0.76177	0.89138	1.327	1.784	0.3458	0.3676
2425	495918.25	3859742.96	1.11046	0.35953	0.74299	0.87229	1.362	1.723	0.3399	0.35953
2426	496018.25	3859742.96	1.09039	0.34922	0.71677	0.85433	1.349	1.63	0.3333	0.34922
2427	496118.25	3859742.96	1.07229	0.35415	0.70475	0.86187	1.407	1.612	0.3384	0.35415
2428	496218.25	3859742.96	1.05289	0.36334	0.70782	0.8871	1.429	1.652	0.3502	0.36334
2429	496318.25	3859742.96	1.03613	0.33473	0.675	0.83797	1.445	1.498	0.3224	0.33473
2430	496418.25	3859742.96	1.02672	0.31449	0.63468	0.79789	1.494	1.425	0.3007	0.31449
2431	495718.25	3859842.96	1.11076	0.41936	0.84578	0.97971	1.484	2.085	0.4106	0.41936
2432	495818.25	3859842.96	1.09476	0.41106	0.82007	0.96036	1.339	1.939	0.3968	0.41106
2433	495918.25	3859842.96	1.09015	0.40343	0.79625	0.93915	1.314	1.804	0.3838	0.40343
2434	496018.25	3859842.96	1.0882	0.3985	0.77673	0.93535	1.305	1.791	0.3801	0.3985
2435	496118.25	3859842.96	1.08104	0.405	0.76061	0.9608	1.289	1.843	0.3949	0.405
2436	496218.25	3859842.96	1.06843	0.3858	0.72676	0.92129	1.303	1.711	0.3649	0.3858
2437	496318.25	3859842.96	1.05371	0.33477	0.67528	0.80476	1.235	1.428	0.3268	0.33477
2438	496418.25	3859842.96	1.02301	0.304	0.62562	0.73311	1.233	1.33	0.3039	0.304
2439	495718.25	3859942.96	1.09532	0.46298	0.86669	1.00881	1.595	2.078	0.4491	0.46298
2440	495818.25	3859942.96	1.08407	0.45391	0.84933	0.98008	1.533	1.974	0.4357	0.45391
2441	495918.25	3859942.96	1.07893	0.4476	0.83642	0.95984	1.463	1.955	0.4281	0.4476
2442	496018.25	3859942.96	1.0696	0.4479	0.83004	0.97848	1.404	1.935	0.43	0.4479
2443	496118.25	3859942.96	1.06243	0.42646	0.80396	0.93177	1.287	1.815	0.4064	0.42646
2444	496218.25	3859942.96	1.06508	0.39667	0.76603	0.90367	1.245	1.672	0.3785	0.39667
2445	496318.25	3859942.96	1.06703	0.36041	0.72525	0.8514	1.228	1.507	0.3447	0.36041
2446	496418.25	3859942.96	1.03855	0.31353	0.66948	0.74125	1.196	1.324	0.3203	0.31353
2447	496856.82	3858864.83	0.83869	0.1653	0.4986	0.52478	1.421	1.78	0.2106	0.1653
2448	496956.82	3858864.83	0.82253	0.16279	0.49221	0.51556	1.413	1.655	0.206	0.16279
2449	497056.82	3858864.83	0.80707	0.16317	0.48726	0.50658	1.414	1.55	0.202	0.16317
2450	497156.82	3858864.83	0.78362	0.16301	0.4718	0.49841	1.406	1.456	0.1973	0.16301
2451	497256.82	3858864.83	0.78286	0.16389	0.47048	0.49954	1.405	1.389	0.1933	0.16389
2452	496856.82	3858964.83	0.89517	0.17754	0.52427	0.54965	1.426	1.735	0.2203	0.17754
2453	496956.82	3858964.83	0.87752	0.17218	0.51088	0.5363	1.379	1.645	0.2168	0.17218
2454	497056.82	3858964.83	0.8643	0.16993	0.50077	0.52812	1.351	1.497	0.2161	0.16993
2455	497156.82	3858964.83	0.84944	0.16615	0.49031	0.52059	1.338	1.371	0.2129	0.16615
2456	497256.82	3858964.83	0.85707	0.16591	0.49324	0.52883	1.361	1.322	0.2142	0.16591
2457	496856.82	3859064.83	0.90534	0.17565	0.52435	0.59552	1.377	1.586	0.2237	0.17565
2458	496956.82	3859064.83	0.89701	0.17497	0.5176	0.58369	1.382	1.464	0.2211	0.17497
2459	497056.82	3859064.83	0.89059	0.17621	0.51446	0.57343	1.384	1.35	0.2192	0.17621
2460	497156.82	3859064.83	0.88536	0.17386	0.50768	0.56571	1.375	1.282	0.2188	0.17386
2461	497256.82	3859064.83	0.89816	0.17595	0.51015	0.58756	1.38	1.235	0.2209	0.17595
2462	496856.82	3859164.83	0.90393	0.18058	0.53116	0.60068	1.314	1.505	0.2239	0.18058
2463	496956.82	3859164.83	0.88998	0.17697	0.51976	0.58602	1.274	1.442	0.22	0.17697
2464	497056.82	3859164.83	0.88677	0.1769	0.51383	0.57356	1.312	1.381	0.22	0.1769
2465	497156.82	3859164.83	0.89196	0.17992	0.51311	0.57292	1.339	1.32	0.2237	0.17992
2466	497256.82	3859164.83	0.90667	0.19086	0.5184	0.61563	1.336	1.261	0.2227	0.19086
2467	496856.82	3859264.83	0.92097	0.1861	0.53243	0.59627	1.347	1.611	0.22	0.1861
2468	496956.82	3859264.83	0.91385	0.18699	0.52855	0.59874	1.301	1.514	0.2206	0.18699
2469	497056.82	3859264.83	0.91214	0.19174	0.53285	0.60892	1.287	1.437	0.2209	0.19174
2470	497156.82	3859264.83	0.91338	0.19522	0.53703	0.61717	1.304	1.373	0.2223	0.19522
2471	497256.82	3859264.83	0.92367	0.20639	0.54089	0.63777	1.332	1.309	0.2278	0.20639
2472	497088.92	3858620.93	0.65063	0.16469	0.43079	0.42282	1.243	1.581	0.1901	0.16469
2473	497138.92	3858620.93	0.65043	0.16562	0.43053	0.4208	1.251	1.54	0.1902	0.16562
2474	497188.92	3858620.93	0.64153	0.16557	0.4339	0.41657	1.251	1.458	0.189	0.16557

11.5571732	0.601192776	7.381E-05	0.043371	0.691834	0.258545	2.292964	2.21341937	13.23173
11.3138577	0.595541183	7.207E-05	0.042814	0.698661	0.241265	2.279927	2.19261183	12.97953
11.1326231	0.581338325	7.032E-05	0.041881	0.734234	0.226765	2.22615	2.14032098	12.80274
11.1418048	0.588264296	6.927E-05	0.04417	0.777276	0.217096	2.201705	2.16582042	12.80457
11.0619865	0.598403918	6.734E-05	0.04577	0.757375	0.213561	2.218001	2.2031516	12.69201
10.9639091	0.589778775	6.464E-05	0.045652	0.739898	0.207054	2.213112	2.1713963	12.58807
10.7660848	0.531231231	6.14E-05	0.042561	0.735251	0.188687	2.07516	1.95584103	12.3832
11.8244864	0.698507289	8.201E-05	0.04836	0.642326	0.267997	2.528624	2.5717035	13.43868
11.782647	0.678929877	7.93E-05	0.046953	0.622199	0.250967	2.449905	2.49962509	13.33206
11.5862834	0.664025187	7.735E-05	0.045947	0.638602	0.242334	2.408314	2.44475029	13.14083
11.3768777	0.644983383	7.462E-05	0.045001	0.632534	0.229272	2.361338	2.37464383	12.91544
11.1880264	0.654088727	7.337E-05	0.045398	0.659896	0.226743	2.397474	2.40816709	12.76353
10.9856113	0.671061974	7.369E-05	0.046727	0.670278	0.232461	2.481435	2.47065772	12.61699
10.8107414	0.61822143	7.027E-05	0.044139	0.67763	0.210699	2.284533	2.276114	12.36992
10.7125596	0.580839655	6.607E-05	0.042028	0.70057	0.200443	2.130214	2.13848502	12.22824
11.5894136	0.77452675	8.805E-05	0.051605	0.695876	0.293337	2.909462	2.85158535	13.46272
11.4224732	0.759197267	8.537E-05	0.050586	0.627841	0.272794	2.811471	2.79514659	13.1493
11.3743736	0.745105224	8.289E-05	0.049469	0.616094	0.253731	2.719645	2.74326373	13.01524
11.3540277	0.73599988	8.086E-05	0.049269	0.61201	0.251936	2.692791	2.70974047	12.98637
11.2793219	0.748004897	7.918E-05	0.050609	0.604273	0.259258	2.797726	2.7539395	12.98533
11.1477521	0.712543924	7.566E-05	0.048528	0.610894	0.240665	2.585094	2.62338237	12.72217
10.994167	0.618295307	7.03E-05	0.04239	0.579265	0.200893	2.315496	2.27638599	12.47419
10.6738503	0.561465404	6.513E-05	0.038616	0.578295	0.187156	2.153312	2.06715459	12.12561
11.4283162	0.855089648	9.023E-05	0.053138	0.747781	0.292285	3.181965	3.14819484	13.41047
11.3109362	0.838338032	8.842E-05	0.051625	0.718891	0.277667	3.086737	3.08652019	13.19776
11.2573067	0.826683931	8.708E-05	0.050559	0.686207	0.275046	3.033526	3.04361313	13.0858
11.1599596	0.827238009	8.641E-05	0.051541	0.658161	0.272137	3.046493	3.04565309	12.96996
11.0851495	0.787639922	8.37E-05	0.04908	0.603654	0.255265	2.879703	2.89986429	12.76071
11.112799	0.732620006	7.975E-05	0.0476	0.583973	0.235206	2.682022	2.69729674	12.697
11.1331448	0.665650482	7.55E-05	0.044847	0.576016	0.211932	2.442253	2.45073416	12.62318
10.8359911	0.579066606	6.97E-05	0.039045	0.560931	0.186211	2.269654	2.13195716	12.33901
8.75069795	0.305296814	5.191E-05	0.027642	0.666433	0.250399	1.49246	1.12401531	10.36897
8.58208824	0.30066103	5.124E-05	0.027157	0.662602	0.232749	1.459797	1.10694768	10.15816
8.42078216	0.301362862	5.073E-05	0.026684	0.663085	0.218024	1.431455	1.10953162	9.951911
8.17611027	0.301067354	4.912E-05	0.026253	0.659305	0.204834	1.397871	1.10844365	9.657046
8.16818061	0.302692648	4.898E-05	0.026313	0.658822	0.195379	1.369246	1.11442752	9.606255
9.33999724	0.327903184	5.458E-05	0.028952	0.668529	0.244112	1.560763	1.20724548	10.96307
9.15584121	0.318003662	5.319E-05	0.028249	0.646611	0.231383	1.536035	1.17079828	10.74538
9.01790678	0.313848079	5.213E-05	0.027818	0.633702	0.210607	1.530934	1.15549861	10.57937
8.86286097	0.3068667	5.104E-05	0.027422	0.627475	0.192823	1.508261	1.12979518	10.39596
8.94247063	0.306423438	5.135E-05	0.027856	0.638101	0.185959	1.517401	1.12816322	10.4901
9.44610867	0.324412494	5.459E-05	0.031368	0.6458	0.22314	1.584924	1.19439376	11.06141
9.35919537	0.323156585	5.389E-05	0.030745	0.648107	0.206006	1.566502	1.18976986	10.944
9.29221057	0.325446773	5.356E-05	0.030205	0.649205	0.189873	1.553111	1.19820168	10.8419
9.23764196	0.321106497	5.285E-05	0.029798	0.644928	0.180303	1.55056	1.18222203	10.78217
9.37119421	0.324966572	5.311E-05	0.030949	0.647305	0.173687	1.564802	1.19643372	10.91652
9.43139705	0.333517838	5.53E-05	0.03164	0.616211	0.211706	1.586058	1.22791702	10.98267
9.28584597	0.326850436	5.411E-05	0.030868	0.597445	0.202829	1.558425	1.20336956	10.79895
9.25235357	0.326721151	5.349E-05	0.030212	0.614988	0.194311	1.559063	1.20289357	10.77481
9.30650484	0.332298867	5.342E-05	0.030178	0.627981	0.185641	1.584783	1.22342912	10.84401
9.45998558	0.352504234	5.397E-05	0.032428	0.626509	0.177323	1.57791	1.29781949	10.92889
9.60918848	0.343712868	5.543E-05	0.031408	0.631564	0.226588	1.558709	1.2654522	11.13577
9.53490005	0.345356631	5.503E-05	0.031538	0.610284	0.212916	1.562818	1.27150407	11.02636
9.5170583	0.354129528	5.547E-05	0.032074	0.603325	0.202157	1.56544	1.30380336	10.97044
9.52999617	0.36055683	5.591E-05	0.032509	0.611489	0.19313	1.575076	1.32746684	10.97535
9.63735966	0.381186989	5.631E-05	0.033594	0.624699	0.184121	1.614258	1.40342117	11.07185
6.7885233	0.304170189	4.485E-05	0.022272	0.582665	0.222354	1.346715	1.1198674	8.146876
6.78643654	0.30588783	4.482E-05	0.022165	0.586824	0.216587	1.347848	1.12619126	8.139603
6.693576	0.305795484	4.517E-05	0.021942	0.586735	0.205076	1.338991	1.12585127	8.02631

2475	497238.92	3858620.93	0.63817	0.1656	0.43312	0.41349	1.253	1.413	0.1877	0.1656
2476	497088.92	3858670.93	0.66654	0.16341	0.44283	0.42834	1.219	1.526	0.1904	0.16341
2477	497138.92	3858670.93	0.6703	0.16364	0.44389	0.43157	1.225	1.494	0.1909	0.16364
2478	497188.92	3858670.93	0.66464	0.16416	0.44092	0.4288	1.218	1.448	0.1904	0.16416
2479	497238.92	3858670.93	0.66344	0.16517	0.44126	0.42851	1.217	1.417	0.1901	0.16517
2480	497088.92	3858720.93	0.69063	0.16231	0.45476	0.44807	1.228	1.557	0.192	0.16231
2481	497138.92	3858720.93	0.67233	0.16196	0.44684	0.43666	1.208	1.496	0.1909	0.16196
2482	497188.92	3858720.93	0.66802	0.16265	0.44617	0.4366	1.197	1.455	0.1905	0.16265
2483	497238.92	3858720.93	0.67776	0.16419	0.44953	0.44009	1.211	1.425	0.1909	0.16419
2484	497088.92	3858770.93	0.71698	0.16052	0.47596	0.44094	1.289	1.526	0.1928	0.16052
2485	497138.92	3858770.93	0.70559	0.16079	0.47052	0.43499	1.248	1.466	0.1913	0.16079
2486	497188.92	3858770.93	0.70062	0.16217	0.46194	0.43469	1.223	1.44	0.1913	0.16217
2487	497238.92	3858770.93	0.71177	0.16321	0.46577	0.43904	1.219	1.396	0.1925	0.16321
2488	497396.65	3858622.63	0.68669	0.16944	0.44614	0.44704	1.344	1.338	0.1993	0.16944
2489	497496.65	3858622.63	0.71371	0.1687	0.45209	0.47175	1.429	1.299	0.2	0.1687
2490	497596.65	3858622.63	0.75474	0.17043	0.46334	0.50475	1.536	1.281	0.2064	0.17043
2491	497696.65	3858622.63	0.76446	0.17242	0.46377	0.51719	1.533	1.28	0.2063	0.17242
2492	497796.65	3858622.63	0.79168	0.17364	0.47254	0.54068	1.53	1.238	0.2075	0.17364
2493	497896.65	3858622.63	0.80498	0.17207	0.48528	0.56023	1.525	1.212	0.2098	0.17207
2494	497396.65	3858722.63	0.74806	0.17074	0.47292	0.47372	1.264	1.358	0.2018	0.17074
2495	497496.65	3858722.63	0.76674	0.17344	0.48073	0.50398	1.308	1.308	0.2094	0.17344
2496	497596.65	3858722.63	0.79985	0.17278	0.49256	0.53387	1.416	1.266	0.2148	0.17278
2497	497696.65	3858722.63	0.821	0.17366	0.49897	0.56054	1.492	1.237	0.2167	0.17366
2498	497796.65	3858722.63	0.83047	0.17408	0.50192	0.58331	1.562	1.207	0.2163	0.17408
2499	497896.65	3858722.63	0.83985	0.1782	0.50992	0.60085	1.622	1.206	0.2195	0.1782
2500	497396.65	3858822.63	0.78652	0.16935	0.47254	0.50852	1.314	1.329	0.1972	0.16935
2501	497496.65	3858822.63	0.79564	0.17118	0.4846	0.52264	1.328	1.295	0.205	0.17118
2502	497596.65	3858822.63	0.83984	0.17666	0.50114	0.5608	1.359	1.278	0.2128	0.17666
2503	497696.65	3858822.63	0.84944	0.17796	0.511	0.57392	1.365	1.231	0.2188	0.17796
2504	497796.65	3858822.63	0.86086	0.17828	0.5115	0.59302	1.406	1.177	0.2242	0.17828
2505	497896.65	3858822.63	0.87784	0.18558	0.53171	0.6341	1.48	1.173	0.2321	0.18558
2506	497396.65	3858922.63	0.84614	0.17275	0.49545	0.53673	1.434	1.292	0.2076	0.17275
2507	497496.65	3858922.63	0.87028	0.1785	0.50747	0.57878	1.498	1.293	0.214	0.1785
2508	497596.65	3858922.63	0.8647	0.17792	0.50531	0.58825	1.47	1.239	0.2139	0.17792
2509	497696.65	3858922.63	0.89003	0.18411	0.52573	0.6376	1.476	1.252	0.2252	0.18411
2510	497796.65	3858922.63	0.89815	0.19395	0.53423	0.65022	1.454	1.258	0.2315	0.19395
2511	497896.65	3858922.63	0.9146	0.20596	0.54762	0.67593	1.467	1.235	0.2451	0.20596
2512	497364.44	3858201.52	0.52868	0.15536	0.36463	0.40068	1.149	1.716	0.1624	0.15536
2513	497414.44	3858201.52	0.53733	0.15543	0.35571	0.40549	1.168	1.734	0.166	0.15543
2514	497464.44	3858201.52	0.5458	0.15583	0.35844	0.41317	1.179	1.67	0.1707	0.15583
2515	497514.44	3858201.52	0.55002	0.15742	0.37642	0.41599	1.181	1.571	0.1724	0.15742
2516	497564.44	3858201.52	0.54963	0.15794	0.37321	0.41747	1.175	1.491	0.1712	0.15794
2517	497614.44	3858201.52	0.55581	0.15766	0.37395	0.41759	1.186	1.477	0.1727	0.15766
2518	497364.44	3858251.52	0.54354	0.15448	0.37232	0.39783	1.151	1.594	0.1749	0.15448
2519	497414.44	3858251.52	0.56253	0.15512	0.3766	0.40859	1.191	1.564	0.1812	0.15512
2520	497464.44	3858251.52	0.55612	0.15493	0.37581	0.40532	1.176	1.516	0.1797	0.15493
2521	497514.44	3858251.52	0.54851	0.15482	0.37179	0.39964	1.151	1.522	0.175	0.15482
2522	497564.44	3858251.52	0.54801	0.15474	0.36958	0.39809	1.147	1.46	0.1729	0.15474
2523	497614.44	3858251.52	0.54857	0.15564	0.36916	0.40007	1.144	1.419	0.1723	0.15564
2524	497364.44	3858301.52	0.56286	0.15519	0.37955	0.41368	1.184	1.582	0.1805	0.15519
2525	497414.44	3858301.52	0.57581	0.15527	0.38234	0.42441	1.191	1.534	0.1823	0.15527
2526	497464.44	3858301.52	0.56516	0.15486	0.38055	0.40948	1.184	1.454	0.1803	0.15486
2527	497514.44	3858301.52	0.55934	0.15391	0.3802	0.39936	1.176	1.407	0.1801	0.15391
2528	497564.44	3858301.52	0.54936	0.15415	0.37565	0.3863	1.16	1.403	0.1776	0.15415
2529	497614.44	3858301.52	0.54883	0.15424	0.37354	0.38536	1.149	1.344	0.1777	0.15424
2530	497364.44	3858351.52	0.5819	0.15613	0.39773	0.42032	1.203	1.531	0.1865	0.15613
2531	497414.44	3858351.52	0.578	0.15589	0.39344	0.41936	1.177	1.497	0.1848	0.15589
2532	497464.44	3858351.52	0.57867	0.15565	0.39216	0.42206	1.165	1.423	0.1854	0.15565
2533	497514.44	3858351.52	0.57593	0.15558	0.38943	0.42019	1.16	1.379	0.1841	0.15558

6.65851853	0.305850891	4.509E-05	0.02178	0.587621	0.198724	1.330206	1.12605526	7.976691
6.95452457	0.301806124	4.61E-05	0.022562	0.571453	0.214646	1.348698	1.11116359	8.302573
6.99375554	0.302230917	4.621E-05	0.022733	0.574449	0.210143	1.352808	1.11272755	8.343438
6.93470041	0.303191318	4.59E-05	0.022587	0.571003	0.203651	1.349194	1.11626348	8.268109
6.92217988	0.305056713	4.594E-05	0.022571	0.570501	0.199404	1.346927	1.12313133	8.243554
7.20587407	0.299774506	4.734E-05	0.023602	0.575795	0.218965	1.360318	1.10368375	8.580692
7.01493609	0.299128082	4.652E-05	0.023001	0.566623	0.210511	1.352808	1.10130381	8.36575
6.96996655	0.300402461	4.645E-05	0.022998	0.561381	0.204749	1.349761	1.1059957	8.303309
7.07159146	0.303246726	4.68E-05	0.023181	0.568091	0.200422	1.352241	1.11646747	8.402353
7.48080389	0.296468509	4.955E-05	0.023226	0.604643	0.214632	1.366058	1.09151202	8.894369
7.36196326	0.296967179	4.898E-05	0.022913	0.585131	0.206297	1.355571	1.09334798	8.735544
7.31010742	0.299515936	4.809E-05	0.022897	0.57354	0.202555	1.35543	1.10273177	8.661361
7.42644395	0.301436739	4.849E-05	0.023126	0.571462	0.196434	1.363578	1.10980362	8.772726
7.16476502	0.312943086	4.645E-05	0.023547	0.630373	0.188271	1.412254	1.15216669	8.580033
7.44668546	0.311576361	4.707E-05	0.024849	0.670029	0.182712	1.417001	1.1471348	8.905766
7.87478302	0.314771542	4.824E-05	0.026587	0.720344	0.180147	1.462277	1.15889854	9.420059
7.97619925	0.318446924	4.828E-05	0.027243	0.718834	0.180087	1.461356	1.17243024	9.509784
8.26020645	0.320700174	4.919E-05	0.02848	0.717662	0.174114	1.470354	1.18072606	9.79084
8.39897558	0.3178005	5.052E-05	0.02951	0.715271	0.17045	1.486296	1.17005029	9.948302
7.80508544	0.315344089	4.923E-05	0.024953	0.592751	0.191087	1.430038	1.16100649	9.198302
7.99998825	0.320330789	5.005E-05	0.026547	0.613177	0.184014	1.483816	1.17936609	9.448557
8.34545035	0.319111818	5.128E-05	0.028121	0.663835	0.178043	1.521794	1.17487819	9.881528
8.56612457	0.320737112	5.195E-05	0.029526	0.699853	0.174052	1.535327	1.18086206	10.14481
8.66493236	0.321512821	5.225E-05	0.030725	0.732531	0.169848	1.532209	1.18371799	10.26809
8.76280112	0.329122155	5.309E-05	0.031649	0.760803	0.169604	1.554953	1.21173338	10.39725
8.2063682	0.312776863	4.919E-05	0.026786	0.616376	0.186926	1.39695	1.1515547	9.594676
8.30152418	0.316156737	5.045E-05	0.02753	0.622922	0.182231	1.45257	1.16399843	9.738985
8.76269678	0.326277889	5.217E-05	0.02954	0.637266	0.179772	1.507552	1.20126161	10.2419
8.86286097	0.328678893	5.32E-05	0.030231	0.640281	0.173142	1.550277	1.21010141	10.37542
8.98201461	0.329269909	5.325E-05	0.031237	0.659108	0.165644	1.588184	1.21227737	10.54323
9.15918001	0.342752466	5.535E-05	0.033401	0.693888	0.164965	1.644441	1.26191628	10.77677
8.82842953	0.31905641	5.158E-05	0.028272	0.672477	0.181698	1.470637	1.17467419	10.32595
9.08030072	0.329676232	5.283E-05	0.030487	0.702206	0.18186	1.516409	1.21377333	10.62722
9.02208029	0.328605016	5.261E-05	0.030986	0.689119	0.174362	1.515771	1.20982942	10.55115
9.28636766	0.340037486	5.473E-05	0.033585	0.692017	0.176104	1.595552	1.2519205	10.8718
9.37108987	0.358211234	5.562E-05	0.03425	0.681691	0.17698	1.640119	1.31883103	10.94357
9.54272537	0.380392811	5.701E-05	0.035604	0.687989	0.173796	1.736339	1.40049723	11.15641
5.51612514	0.286938372	3.796E-05	0.021105	0.538779	0.241402	1.150946	1.05642479	6.698909
5.60637724	0.287067657	3.703E-05	0.021359	0.547529	0.243895	1.176028	1.05690078	6.825392
5.69475127	0.287806428	3.732E-05	0.021763	0.553053	0.234898	1.209259	1.05962072	6.941946
5.73878177	0.290743039	3.919E-05	0.021912	0.553559	0.22094	1.221162	1.07043248	6.976704
5.7347126	0.291703441	3.885E-05	0.02199	0.551107	0.209784	1.212872	1.07396841	6.948239
5.7991933	0.291186301	3.893E-05	0.021996	0.556007	0.207777	1.223358	1.07206445	7.027492
5.67117095	0.285313078	3.876E-05	0.020955	0.539515	0.22417	1.239017	1.05044092	6.929739
5.86930823	0.28649511	3.921E-05	0.021522	0.55838	0.219969	1.283797	1.05479283	7.184717
5.80242777	0.286144194	3.912E-05	0.02135	0.551402	0.213241	1.273381	1.05350086	7.094484
5.72302678	0.285941033	3.871E-05	0.021051	0.539651	0.214062	1.239938	1.05275287	6.970955
5.7178099	0.285793279	3.848E-05	0.020969	0.537921	0.205368	1.225271	1.05220888	6.940962
5.72365281	0.287455512	3.843E-05	0.021073	0.536669	0.199608	1.220949	1.05832875	6.931117
5.87275137	0.286624395	3.951E-05	0.02179	0.55536	0.222574	1.278837	1.05526882	7.182708
6.00786868	0.286772149	3.98E-05	0.022355	0.558342	0.215832	1.291449	1.0558128	7.326846
5.89674904	0.28601491	3.962E-05	0.021569	0.555172	0.204599	1.277349	1.05302487	7.188468
5.8360245	0.28426033	3.958E-05	0.021036	0.551557	0.197994	1.275719	1.04656501	7.120065
5.73189548	0.284703592	3.911E-05	0.020348	0.544148	0.19734	1.258006	1.04819697	6.988283
5.72636559	0.284869816	3.889E-05	0.020298	0.538783	0.189053	1.258927	1.04880896	6.969527
6.07141034	0.288360505	4.141E-05	0.02214	0.564035	0.215393	1.321561	1.06166068	7.421281
6.03071864	0.287917243	4.096E-05	0.022089	0.552105	0.210652	1.309587	1.06002871	7.353082
6.03770926	0.287473981	4.083E-05	0.022232	0.546164	0.200146	1.313272	1.05839675	7.348641
6.00912073	0.287344696	4.054E-05	0.022133	0.543726	0.194061	1.304132	1.05792076	7.302637

2534	497564.44	3858351.52	0.56132	0.15343	0.38778	0.4091	1.15	1.32	0.1815	0.15343	5.85668337	0.283373806	4.037E-05	0.021549	0.539182	0.185679	1.28571	1.04330108	7.128916
2535	497614.44	3858351.52	0.56061	0.15363	0.38593	0.40558	1.148	1.292	0.181	0.15363	5.84927539	0.283743191	4.018E-05	0.021364	0.538436	0.181729	1.282167	1.04466105	7.112094
2536	497364.44	3858401.52	0.58106	0.15757	0.39581	0.41618	1.198	1.481	0.1887	0.15757	6.06264597	0.291020078	4.121E-05	0.021922	0.561948	0.20841	1.337008	1.07145246	7.411542
2537	497414.44	3858401.52	0.58252	0.15711	0.40083	0.4185	1.216	1.434	0.1871	0.15711	6.07787927	0.290170492	4.173E-05	0.022044	0.570229	0.201749	1.325458	1.06832453	7.419247
2538	497464.44	3858401.52	0.57762	0.15644	0.39772	0.41624	1.213	1.36	0.1855	0.15644	6.0267538	0.288933052	4.141E-05	0.021925	0.568757	0.191377	1.314618	1.06376863	7.348636
2539	497514.44	3858401.52	0.57652	0.1562	0.39762	0.4166	1.209	1.303	0.1852	0.1562	6.01527666	0.28848979	4.139E-05	0.021944	0.566839	0.183292	1.311996	1.06213667	7.325742
2540	497564.44	3858401.52	0.59325	0.15604	0.40152	0.42913	1.217	1.277	0.1852	0.15604	6.18983362	0.288194282	4.18E-05	0.022604	0.570454	0.179629	1.312492	1.06104869	7.5022
2541	497614.44	3858401.52	0.61425	0.16343	0.39943	0.44437	1.227	1.25	0.1856	0.16343	6.40894277	0.301843063	4.158E-05	0.023407	0.575533	0.175817	1.314901	1.11129959	7.689185
2542	493478.11	3860497.94	1.22639	1.2243	1.24121	1.77176	0.772	4.45	1.1564	1.2243	12.7958703	2.261191101	0.0001292	0.093326	0.361949	0.625942	8.193795	8.3250571	16.00715
2543	493528.11	3860497.94	1.21569	1.1969	1.22969	1.72534	0.788	4.42	1.142	1.1969	12.684229	2.210585337	0.000128	0.090881	0.369621	0.621828	8.091128	8.1387412	15.92966
2544	493478.11	3860547.94	1.22348	1.22404	1.18151	1.85545	0.689	3.983	1.2105	1.22404	12.765508	2.2607109	0.000123	0.097734	0.322982	0.560254	8.577113	8.32328914	16.26114
2545	493528.11	3860547.94	1.20869	1.21616	1.18806	1.7959	0.719	3.867	1.1984	1.21616	12.6111926	2.246157126	0.0001237	0.094597	0.336937	0.543937	8.491026	8.26970632	16.05426
2546	493478.11	3860597.94	1.2119	1.26104	1.14184	1.65142	0.627	3.673	1.2435	1.26104	12.644685	2.32904715	0.0001189	0.086987	0.294195	0.516739	8.810292	8.57488362	16.10718
2547	493528.11	3860597.94	1.19831	1.2563	1.13491	1.65829	0.645	3.611	1.2404	1.2563	12.5028901	2.320292722	0.0001182	0.087349	0.302683	0.507972	8.788611	8.54265232	15.96726
2548	493561.88	3860524.64	1.20237	1.21604	1.20039	1.71841	0.773	4.065	1.1598	1.21604	12.5452512	2.245935494	0.000125	0.090516	0.362517	0.571806	8.217601	8.26889034	15.76486
2549	493591.88	3860524.64	1.19935	1.19685	1.20274	1.67927	0.78	4.043	1.1416	1.19685	12.5137412	2.210492991	0.0001252	0.088454	0.365832	0.56877	8.088931	8.13840121	15.69795
2550	493561.88	3860554.64	1.19657	1.20481	1.18059	1.76562	0.729	3.798	1.193	1.20481	12.4847353	2.225194519	0.0001229	0.093002	0.341992	0.534322	8.452552	8.19252802	15.93939
2551	493591.88	3860554.64	1.19099	1.19742	1.18467	1.72628	0.752	3.784	1.1673	1.19742	12.4265149	2.211545738	0.0001233	0.09093	0.35273	0.53238	8.271025	8.14227712	15.74297
2552	492880.5	3860293.11	1.4134	1.43239	1.57637	2.8028	0.71	10.28	1.4061	1.43239	14.7470895	2.645517864	0.0001641	0.147635	0.333153	1.446067	9.962442	9.74003802	19.54203
2553	492930.5	3860293.11	1.38829	1.38655	1.58959	2.81675	0.745	11.12	1.3752	1.38655	14.4850975	2.560854791	0.0001655	0.14837	0.349246	1.563791	9.743859	9.42833287	19.42305
2554	492980.5	3860293.11	1.36629	1.35974	1.57917	2.82803	0.763	11.81	1.3346	1.35974	14.2555546	2.511338714	0.0001644	0.148964	0.357626	1.661931	9.455768	9.24602887	19.14532
2555	493030.5	3860293.11	1.36974	1.32489	1.5466	2.78299	0.821	12.09	1.3096	1.32489	14.2915511	2.446973354	0.000161	0.146591	0.384955	1.701209	9.279272	9.00905408	19.24166
2556	493080.5	3860293.11	1.38096	1.23789	1.5417	2.75492	0.866	11.55	1.2342	1.23789	14.408618	2.28629082	0.0001605	0.145113	0.406098	1.62446	8.744469	8.41746707	19.19774
2557	493130.5	3860293.11	1.349	1.26843	1.52384	2.70753	0.863	12.31	1.2577	1.26843	14.0751547	2.34269593	0.0001586	0.142617	0.404476	1.731149	8.911542	8.62513451	18.98266
2558	493180.5	3860293.11	1.32315	1.26369	1.47801	2.57249	0.849	12.19	1.2208	1.26369	13.8054418	2.333941503	0.0001539	0.135504	0.39815	1.714577	8.649879	8.59290322	18.44474
2559	493230.5	3860293.11	1.30909	1.23856	1.43255	2.48279	0.839	11.91	1.1955	1.23856	13.658743	2.287528261	0.0001491	0.130779	0.393395	1.675431	8.470761	8.42202297	18.19476
2560	493280.5	3860293.11	1.30867	1.20726	1.39672	2.44653	0.845	12.69	1.1484	1.20726	13.6543608	2.229719487	0.0001454	0.128869	0.396345	1.784713	8.136474	8.20918765	18.12144
2561	493330.5	3860293.11	1.3028	1.18251	1.3654	2.38949	0.847	12.92	1.112	1.18251	13.5931146	2.184008077	0.0001421	0.125864	0.397381	1.817306	7.878709	8.04089135	17.95563
2562	493380.5	3860293.11	1.29469	1.1575	1.33779	2.34074	0.822	12.89	1.0819	1.1575	13.5084967	2.137816466	0.0001393	0.123296	0.385667	1.812852	7.665864	7.87082708	17.76331
2563	492880.5	3860343.11	1.42971	1.51645	1.5208	2.50226	0.663	9.622	1.45	1.51645	14.9172643	2.800770436	0.0001583	0.131804	0.310926	1.353534	10.27363	10.3116335	19.47646
2564	492930.5	3860343.11	1.40728	1.46946	1.50179	2.4765	0.671	8.58	1.3908	1.46946	14.6832348	2.713983398	0.0001563	0.130447	0.314532	1.206997	9.854603	9.99210848	18.91185
2565	492980.5	3860343.11	1.39908	1.39209	1.50636	2.48608	0.709	7.583	1.3331	1.39209	14.5976779	2.571086759	0.0001568	0.130952	0.33244	1.066722	9.445424	9.46600404	18.67846
2566	493030.5	3860343.11	1.37383	1.35835	1.49009	2.47857	0.728	7.504	1.303	1.35835	14.3342252	2.508771487	0.0001551	0.130556	0.34119	1.055593	9.232154	9.23657708	18.36607
2567	493080.5	3860343.11	1.37123	1.30232	1.51376	2.49687	0.758	7.288	1.2725	1.30232	14.3070974	2.405288241	0.0001576	0.13152	0.355614	1.025179	9.015767	8.85558145	18.38504
2568	493130.5	3860343.11	1.35175	1.28149	1.48262	2.49637	0.807	7.588	1.2736	1.28149	14.1038476	2.36681678	0.0001543	0.131494	0.378413	1.067403	9.023986	8.71394056	18.35817
2569	493180.5	3860343.11	1.32447	1.2653	1.47386	2.51012	0.837	7.691	1.2424	1.2653	13.8192144	2.336915053	0.0001534	0.132218	0.392453	1.081911	8.802994	8.60385098	17.96201
2570	493230.5	3860343.11	1.30995	1.23573	1.47428	2.49084	0.842	7.624	1.2263	1.23573	13.6677161	2.282301461	0.0001535	0.131203	0.394835	1.07254	8.688849	8.4027794	17.83482
2571	493280.5	3860343.11	1.30684	1.20942	1.47134	2.4785	0.835	7.931	1.2087	1.20942	13.635267	2.233708847	0.0001532	0.130553	0.391777	1.115728	8.563792	8.22387533	17.8471
2572	493330.5	3860343.11	1.30098	1.17939	1.43426	2.47285	0.827	8.115	1.1859	1.17939	13.5741251	2.178245669	0.0001493	0.130255	0.388012	1.141634	8.402529	8.01967581	17.79528
2573	493380.5	3860343.11	1.29152	1.16538	1.39008	2.4258	0.826	8.109	1.1561	1.16538	13.4754217	2.15237024	0.0001447	0.127777	0.387149	1.140752	8.191173	7.92440991	17.55038
2574	492880.5	3860393.11	1.40954	1.53383	1.44995	2.49896	0.599	10.19	1.5059	1.53383	14.7068151	2.832870004	0.0001509	0.13163	0.28069	1.434071	10.66949	10.4298149	19.6259
2575	492930.5	3860393.11	1.40233	1.5006	1.44621	2.43194	0.626	8.621	1.4377	1.5006	14.6315877	2.771496664	0.0001506	0.1281	0.293515	1.212798	10.18684	10.2038558	19.02063
2576	492980.5	3860393.11	1.39631	1.42708	1.45407	2.30814	0.656	7.446	1.3407	1.42708	14.5687764	2.635710688	0.0001514	0.121579	0.307447	1.047429	9.499627	9.70393081	18.47679
2577	493030.5	3860393.11	1.38158	1.37552	1.4406	2.22644	0.667	6.879	1.3005	1.37552	14.4150869	2.540483201	0.00015	0.117276	0.312605	0.967749	9.21437	9.35333051	18.21439
2578	493080.5	3860393.11	1.37382	1.32813	1.44965	2.22797	0.701	6.459	1.2625	1.32813	14.3341209	2.452957393	0.0001509	0.117356	0.328619	0.908626	8.945126	9.03108559	18.05587
2579	493130.5	3860393.11	1.34135	1.32425	1.43608	2.11334	0.708	6.464	1.2655	1.32425	13.9953364	2.445791321	0.0001495	0.111318	0.33221	0.909384	8.966524	9.00470217	17.75601
2580	493180.5	3860393.11	1.31163	1.28987	1.37787	2.09571	0.738	6.366	1.2464	1.28987	13.6852448	2.382294017	0.0001434	0.11039	0.345908	0.895583	8.830981	8.77092331	17.47962
2581	493230.5	3860393.11	1.29636	1.25864	1.37159	2.12168	0.782	6.214	1.2338	1.25864	13.5259211	2.324614528	0.0001428	0.111758	0.366723	0.874135	8.741989	8.55856397	17.38672
2582	493280.5	3860393.11	1.29223	1.22595	1.39443	2.14802	0.82	6.272	1.2083	1.22595	13.4828297	2.264238528	0.0001452	0.113145	0.384387	0.882265	8.560887	8.33627686	17.35162
2583	493330.5	3860393.11	1.28856	1.19904	1.39809	2.18034	0.831	6.31	1.2041	1.19904	13.4445377	2.214537758	0.0001455	0.114847	0.389672	0.887622	8.531766	8.15329288	17.42984
2584	493380.5	3860393.11	1.28124	1.16971	1.38977	2.18779	0.822	6.256	1.1837	1.16971	13.3681625	2.160367428	0.0001447	0.11524	0.385616	0.880035	8.386942	7.95385326	17.34265
2585	492880.5	3860443.11	1.38388	1.59071	1.40381	2.37072	0.569	8.452	1.5701	1.59071	14.4390846	2.937923136	0.0001461	0.124875	0.267021	1.188927	11.12473	10.8165904	19.26611
2586	492930.5	3860443.11	1.37417	1.55578	1.38944	2.29337	0.579	8.172	1.5201	1.55578	14.3377727	2.873410022	0.0001446	0.120801	0.271467	1.149594	10.77053	10.5790716	18.94465
2587	492980.5	3860443.11	1.37073	1.46217	1.39385	2.32316	0.593	7.741	1.4422	1.46217	14.3018805	2.70051931	0.0001451	0.12237	0.277905	1.089036	10.21872	9.94253757	18.76804
2588	493030.5	3860443.11	1.36829	1.4192	1.36933	2.33967	0.622	6.868	1.3571	1.4192	14.2764222	2.621156914	0.0001426	0.12324	0.291443	0.966108	9.615189	9.65034799	18.24335
2589	493080.5	3860443.11	1.3603	1.38144	1.34314	2.27636	0.638	6.348	1.3094	1.38144	14.1930563	2.551417001	0.0001398	0.119905	0.298964	0.892955	9.277571	9.39358563	17.94042
2590	493130.5	3860443.11	1.34683	1.3467	1.35734	2.18366	0.66	6.023	1.2798	1.3467	14.0525135	2.487254803	0.0001413	0.115022	0.309538	0.847303	9.06749	9.15735882	17.7219
2591	493180.5	3860443.11	1.31587	1.35661	1.35852	2.06748	0.672	5.778	1.3042	1.35661	13.729484	2.505557836	0.0001414	0.108903	0.314945	0.812799	9.240515	9.22474534	17.4876
2592	493230.5	3860443.11	1.30042	1.30051	1.33899	1.98214	0.691	5.713	1.2257	1.30051	13.5682822	2.401945306	0.0001394	0.104407	0.324056	0.803652	8.684739	8.84327372	17.04395

2593	493280.5	3860443.11	1.28842	1.26136	1.32445	1.97656	0.727	5.509	1.1911	1.26136
2594	493330.5	3860443.11	1.28163	1.23234	1.34514	1.90258	0.773	5.363	1.1826	1.23234
2595	493380.5	3860443.11	1.26673	1.20444	1.32417	1.82316	0.801	5.2	1.1667	1.20444
2596	493180.5	3860493.11	1.3189	1.35851	1.28211	2.09382	0.621	4.899	1.3153	1.35851
2597	493230.5	3860493.11	1.31183	1.31327	1.2697	2.10739	0.646	4.915	1.2622	1.31327
2598	493280.5	3860493.11	1.29729	1.27167	1.26321	2.04366	0.657	4.8	1.2291	1.27167
2599	493330.5	3860493.11	1.27762	1.24064	1.27539	1.96968	0.681	4.697	1.2007	1.24064
2600	493380.5	3860493.11	1.26071	1.22972	1.27845	1.87898	0.714	4.628	1.1733	1.22972
2601	493330.5	3860543.11	1.27269	1.26144	1.21572	1.86573	0.629	4.255	1.2346	1.26144
2602	493380.5	3860543.11	1.25741	1.24798	1.20259	1.9023	0.645	4.156	1.2221	1.24798
2603	494135.94	3860876.85	1.01812	1.32806	0.91158	1.3161	0.602	2.156	1.3607	1.32806
2604	494185.94	3860876.85	1.01097	1.31544	0.9015	1.27585	0.617	2.074	1.3529	1.31544
2605	494135.94	3860926.85	1.00665	1.4042	0.83578	1.31368	0.56	2.012	1.4359	1.4042
2606	494185.94	3860926.85	1.00202	1.38667	0.84843	1.30898	0.572	1.992	1.4169	1.38667
2607	494135.94	3860976.85	0.98824	1.493	0.78778	1.27951	0.527	1.842	1.5127	1.493
2608	494185.94	3860976.85	0.98996	1.48067	0.80206	1.2687	0.539	1.803	1.4991	1.48067
2609	494135.94	3861026.85	0.94776	1.63834	0.70641	1.2346	0.483	1.627	1.5914	1.63834
2610	494185.94	3861026.85	0.9511	1.62345	0.72325	1.2309	0.502	1.633	1.564	1.62345
2611	494135.94	3861076.85	0.9071	1.81288	0.68905	1.15677	0.444	1.488	1.7701	1.81288
2612	494185.94	3861076.85	0.91094	1.79579	0.67807	1.14967	0.46	1.455	1.7315	1.79579
2613	490360.04	3858710.04	2.34636	1.34325	2.17014	4.37799	3.199	2.901	1.3225	1.34325
2614	490410.04	3858710.04	2.31447	1.29925	2.35352	4.08165	3.123	2.762	1.2779	1.29925
2615	490460.04	3858710.04	2.29468	1.23181	2.1393	4.13534	3.325	2.606	1.2067	1.23181
2616	490510.04	3858710.04	2.27082	1.18672	2.20455	3.98314	3.584	2.534	1.1551	1.18672
2617	490560.04	3858710.04	2.23894	1.15202	2.08613	4.09375	3.791	2.461	1.112	1.15202
2618	490610.04	3858710.04	2.2099	1.11915	2.02195	4.22838	3.774	2.382	1.0802	1.11915
2619	490660.04	3858710.04	2.18706	1.10293	1.69322	4.13743	3.742	2.341	1.0688	1.10293
2620	490710.04	3858710.04	2.17477	1.05584	1.75125	4.05614	3.612	2.238	1.0208	1.05584
2621	490760.04	3858710.04	2.16426	1.01144	1.72805	4.08828	3.634	2.155	0.9682	1.01144
2622	490810.04	3858710.04	2.15688	0.96999	1.72068	3.99766	3.543	2.092	0.9175	0.96999
2623	490860.04	3858710.04	2.15524	0.9165	1.71533	3.85377	3.572	1.993	0.8589	0.9165
2624	490360.04	3858760.04	2.34033	1.384	2.24874	4.08608	3.107	2.836	1.3677	1.384
2625	490410.04	3858760.04	2.31332	1.33191	2.2936	4.06268	3.173	2.745	1.3153	1.33191
2626	490460.04	3858760.04	2.2923	1.27484	2.21999	3.93432	2.998	2.639	1.2496	1.27484
2627	490510.04	3858760.04	2.273	1.21398	2.17298	3.90674	2.918	2.53	1.1755	1.21398
2628	490560.04	3858760.04	2.25174	1.17069	2.04508	4.04841	3.113	2.453	1.1251	1.17069
2629	490610.04	3858760.04	2.2337	1.12537	2.00779	3.81412	3.374	2.361	1.0772	1.12537
2630	490660.04	3858760.04	2.21573	1.08643	1.94066	3.7412	3.613	2.29	1.033	1.08643
2631	490710.04	3858760.04	2.19	1.03855	1.88216	3.72918	3.669	2.2	0.9918	1.03855
2632	490760.04	3858760.04	2.17903	0.97561	1.84848	3.755	3.586	2.09	0.926	0.97561
2633	490810.04	3858760.04	2.17124	0.92473	1.8449	3.6678	3.478	2.006	0.8712	0.92473
2634	490860.04	3858760.04	2.16084	0.88609	1.8137	3.53478	3.401	1.945	0.8377	0.88609
2635	490360.04	3858810.04	2.3282	1.41242	2.34797	4.05833	2.615	2.886	1.3967	1.41242
2636	490410.04	3858810.04	2.30635	1.35498	2.29564	3.96974	2.747	2.766	1.3305	1.35498
2637	490460.04	3858810.04	2.28772	1.2947	2.30436	3.88483	2.979	2.625	1.2615	1.2947
2638	490510.04	3858810.04	2.26723	1.24651	2.21886	3.87337	3.009	2.542	1.2102	1.24651
2639	490560.04	3858810.04	2.24851	1.20177	2.13293	3.7381	2.81	2.463	1.1507	1.20177
2640	490610.04	3858810.04	2.23472	1.13419	2.23881	3.66371	2.73	2.341	1.0816	1.13419
2641	490660.04	3858810.04	2.21862	1.0734	2.15615	3.53346	2.917	2.241	1.0388	1.0734
2642	490710.04	3858810.04	2.20648	1.00655	1.98656	3.48946	3.121	2.122	0.9722	1.00655
2643	490760.04	3858810.04	2.20072	0.93806	1.99259	3.40576	3.426	1.988	0.8874	0.93806
2644	490810.04	3858810.04	2.17945	0.91647	2.03224	3.42095	3.564	1.946	0.8653	0.91647
2645	490860.04	3858810.04	2.17071	0.8695	2.09634	3.25937	3.44	1.863	0.8147	0.8695
2646	490360.04	3858860.04	2.32825	1.42953	2.22759	4.01838	2.404	2.844	1.398	1.42953
2647	490410.04	3858860.04	2.30037	1.39106	2.2845	3.98013	2.38	2.769	1.3617	1.39106
2648	490460.04	3858860.04	2.28317	1.31781	2.39462	3.89413	2.496	2.676	1.275	1.31781
2649	490510.04	3858860.04	2.25944	1.28626	1.98034	3.76949	2.663	2.603	1.2433	1.28626
2650	490560.04	3858860.04	2.24711	1.21915	2.02558	3.68042	2.826	2.492	1.1638	1.21915
2651	490610.04	3858860.04	2.2439	1.11237	1.95238	3.53639	2.829	2.351	1.08	1.11237

13.443077	2.329638166	0.0001379	0.104113	0.340721	0.775033	8.439444	8.57705957	16.85511
13.3722317	2.276040383	0.00014	0.100217	0.362367	0.754447	8.379431	8.3797279	16.86515
13.2167685	2.224511157	0.0001379	0.096033	0.375609	0.731511	8.266774	8.19001207	16.72133
13.7610983	2.509066995	0.0001335	0.11029	0.29111	0.689113	9.319092	9.23766506	17.44224
13.6873315	2.425512078	0.0001322	0.111005	0.302767	0.691354	8.943072	8.93003981	17.23113
13.5356245	2.34867997	0.0001315	0.107648	0.307845	0.675203	8.708759	8.64716603	17.03672
13.3303923	2.291369866	0.0001328	0.103751	0.319531	0.660796	8.507534	8.43616666	16.77734
13.1539573	2.271201438	0.0001331	0.098974	0.334593	0.651069	8.313183	8.36191229	16.4612
13.2789538	2.32978592	0.0001266	0.098276	0.294908	0.598639	8.747586	8.57760356	16.77067
13.1195258	2.3049263	0.0001252	0.100202	0.302237	0.58462	8.658807	8.48607757	16.58437
10.6228292	2.452828108	9.49E-05	0.069324	0.282407	0.303357	9.641121	9.0306096	14.34135
10.5482277	2.429519906	9.385E-05	0.067204	0.289257	0.291828	9.585501	8.94479549	14.26684
10.5031538	2.593453029	8.701E-05	0.069197	0.262717	0.282992	10.17366	9.54835023	14.33691
10.4548455	2.561076422	8.833E-05	0.068949	0.268264	0.280187	10.03953	9.42914885	14.24379
10.3110681	2.757460029	8.201E-05	0.067397	0.247163	0.25909	10.71774	10.152177	14.20782
10.3290142	2.734687435	8.35E-05	0.066828	0.252902	0.253668	10.62166	10.0683348	14.19051
9.88870916	3.025892206	7.354E-05	0.065031	0.226497	0.22894	11.27586	11.1404673	13.57053
9.92355795	2.998391483	7.529E-05	0.064837	0.235623	0.229678	11.08136	11.0392175	13.49431
9.4644721	3.348254613	7.173E-05	0.060932	0.208247	0.209262	12.54201	12.3273132	13.50594
9.50453778	3.316690653	7.059E-05	0.060558	0.21567	0.204635	12.26816	12.2111037	13.35922
24.4813789	2.480882909	0.0002259	0.230607	1.499918	0.408043	9.370106	9.13389933	29.33726
24.148646	2.39961818	0.000245	0.214997	1.464538	0.388552	9.054312	8.83470591	28.8362
23.9421617	2.275061512	0.0002227	0.217825	1.559002	0.366571	8.549692	8.37612398	28.53441
23.6932119	2.191783634	0.0002295	0.209808	1.680785	0.356451	8.184229	8.06951872	28.24698
23.3605834	2.127695313	0.0002172	0.215634	1.777523	0.346178	7.878638	7.8335639	27.8729
23.0575867	2.066986866	0.0002105	0.222726	1.76964	0.335019	7.653394	7.61005281	27.49551
22.8192794	2.037029732	0.0001763	0.217935	1.754555	0.329315	7.573046	7.49975924	27.23158
22.6910484	1.950058002	0.0001823	0.213653	1.693825	0.314886	7.232595	7.17955427	26.91669
22.5813895	1.868054502	0.0001799	0.215346	1.704015	0.303184	6.859975	6.8776409	26.6545
22.5043883	1.791499433	0.0001791	0.210573	1.661606	0.294239	6.501102	6.5957871	26.3678
22.4872769	1.692707379	0.0001786	0.202994	1.674876	0.280423	6.085333	6.23206309	26.19173
24.4184632	2.55614513	0.0002341	0.21523	1.456941	0.398978	9.690577	9.41099325	29.32558
24.1366471	2.459938772	0.0002388	0.213998	1.487806	0.386111	9.319375	9.05678903	28.94733
23.9173293	2.354534724	0.0002311	0.207237	1.405679	0.371195	8.853725	8.66872155	28.44121
23.7159575	2.242130828	0.0002262	0.205784	1.368128	0.355957	8.3287	8.25488265	27.962
23.4941356	2.162177415	0.0002129	0.213246	1.459886	0.34504	7.971527	7.96051711	27.68571
23.3059104	2.078474744	0.000209	0.200905	1.58226	0.332123	7.632422	7.65234788	27.47996
23.1184156	2.006555458	0.000202	0.197064	1.69435	0.322176	7.319249	7.3875617	27.27045
22.8499547	1.918124657	0.0001959	0.196431	1.720535	0.309443	7.027332	7.06198485	26.96003
22.7354962	1.801879155	0.0001924	0.197791	1.68138	0.293966	6.560973	6.63400226	26.63768
22.6542172	1.707907577	0.0001921	0.193198	1.631098	0.282221	6.172554	6.28802586	26.35336
22.545706	1.636542369	0.0001888	0.186191	1.594832	0.273607	5.935619	6.02527963	26.14741
24.2919016	2.608634758	0.0002444	0.213769	1.2262	0.406028	9.896053	9.604245	29.03859
24.0639238	2.502547347	0.000239	0.209102	1.288318	0.389164	9.426931	9.21366158	28.66656
23.8695426	2.391214668	0.0002399	0.20463	1.397018	0.369268	8.938183	8.80376659	28.36633
23.6557547	2.30221132	0.000231	0.204026	1.411001	0.35761	8.574349	8.47608179	28.0291
23.4604345	2.219579865	0.0002221	0.196901	1.317583	0.3465	8.152983	8.17185647	27.52235
23.3165529	2.094764628	0.0002331	0.192983	1.280149	0.329389	7.663668	7.71232257	27.16542
23.1485692	1.982490017	0.0002245	0.186122	1.368044	0.315275	7.360415	7.29895965	27.06218
23.0219032	1.859023035	0.0002068	0.183804	1.463609	0.298517	6.888317	6.84438963	26.87099
22.9618047	1.732527096	0.0002074	0.179395	1.606311	0.279687	6.287762	6.37866787	26.66903
22.7398784	1.692651971	0.0002116	0.180195	1.671008	0.273686	6.130892	6.23185909	26.45666
22.6486873	1.605901872	0.0002182	0.171684	1.613096	0.262021	5.772585	5.91247011	26.16172
24.2924233	2.640235656	0.0002319	0.211664	1.127089	0.400116	9.905618	9.72059045	28.85679
24.0015298	2.569184426	0.0002378	0.20965	1.115831	0.389596	9.648065	9.45900019	28.47509
23.822069	2.43389712	0.0002493	0.20512	1.17061	0.376433	9.034118	8.96091114	28.08159
23.5744756	2.375626615	0.0002062	0.198554	1.248891	0.366151	8.809087	8.74637585	27.82662
23.4458273	2.251679433	0.0002109	0.193863	1.325072	0.350592	8.24573	8.29003787	27.52294
23.4123349	2.05446471	0.0002033	0.186276	1.326483	0.330703	7.65219	7.56394983	27.39871

2652	490660.04	3858860.04	2.22875	1.05295	2.12029	3.3892	2.64	2.226	1.0343	1.05295
2653	490710.04	3858860.04	2.20909	1.02004	2.15742	3.29523	2.561	2.132	0.9862	1.02004
2654	490760.04	3858860.04	2.20277	0.95479	2.30693	3.26659	2.735	2.009	0.8964	0.95479
2655	490810.04	3858860.04	2.19605	0.89514	2.22994	3.08244	2.92	1.902	0.8349	0.89514
2656	490860.04	3858860.04	2.19085	0.83409	2.3115	2.82183	3.155	1.813	0.7644	0.83409
2657	490360.04	3858910.04	2.32286	1.50407	2.21098	4.13239	2.262	3.004	1.4756	1.50407
2658	490410.04	3858910.04	2.29834	1.44301	2.25874	3.91849	2.243	2.896	1.4064	1.44301
2659	490460.04	3858910.04	2.279	1.37485	1.92496	3.72767	2.279	2.793	1.3283	1.37485
2660	490510.04	3858910.04	2.26486	1.29903	1.967	3.69877	2.281	2.671	1.2469	1.29903
2661	490560.04	3858910.04	2.25478	1.2062	2.0558	3.60148	2.385	2.52	1.1531	1.2062
2662	490610.04	3858910.04	2.24718	1.11096	2.22778	3.44373	2.581	2.34	1.0844	1.11096
2663	490660.04	3858910.04	2.23484	1.05362	2.48206	3.29328	2.682	2.224	1.0277	1.05362
2664	490710.04	3858910.04	2.22387	0.99347	2.57595	3.12293	2.651	2.119	0.9308	0.99347
2665	490760.04	3858910.04	2.22031	0.91833	2.77676	2.98358	2.478	1.984	0.8488	0.91833
2666	490810.04	3858910.04	2.20993	0.87266	2.7636	2.81066	2.414	1.898	0.796	0.87266
2667	490860.04	3858910.04	2.21186	0.80466	2.78397	2.56923	2.556	1.767	0.7264	0.80466
2668	490360.04	3858960.04	2.33741	1.53876	2.18523	4.09742	2.194	3.041	1.5015	1.53876
2669	490410.04	3858960.04	2.31344	1.4576	2.07211	3.86955	2.205	2.927	1.4128	1.4576
2670	490460.04	3858960.04	2.29532	1.37021	2.22219	3.67479	2.101	2.758	1.3161	1.37021
2671	490510.04	3858960.04	2.27828	1.28088	2.24487	3.59288	2.137	2.589	1.2333	1.28088
2672	490560.04	3858960.04	2.26316	1.19024	2.51838	3.52935	2.18	2.466	1.1528	1.19024
2673	490610.04	3858960.04	2.25805	1.09399	2.73977	3.27379	2.218	2.323	1.0575	1.09399
2674	490660.04	3858960.04	2.23981	1.0516	3.1562	3.13802	2.29	2.262	1.0122	1.0516
2675	490710.04	3858960.04	2.23538	0.97513	3.29395	3.0033	2.459	2.136	0.8986	0.97513
2676	490760.04	3858960.04	2.23025	0.91204	3.17708	2.76328	2.543	2.017	0.8255	0.91204
2677	490810.04	3858960.04	2.22838	0.8484	3.19998	2.53548	2.474	1.906	0.7642	0.8484
2678	490860.04	3858960.04	2.23471	0.78356	3.20777	2.34931	2.314	1.773	0.697	0.78356
2679	490360.04	3859010.04	2.38743	1.5731	2.23135	4.0936	2.194	2.983	1.5339	1.5731
2680	490410.04	3859010.04	2.34302	1.47798	2.50453	3.92522	2.124	2.843	1.4334	1.47798
2681	490460.04	3859010.04	2.31291	1.33409	2.79406	3.65009	2.116	2.668	1.2975	1.33409
2682	490510.04	3859010.04	2.30232	1.21852	3.0318	3.42254	2.011	2.519	1.1678	1.21852
2683	490560.04	3859010.04	2.28134	1.16884	3.31681	3.33052	1.962	2.435	1.1125	1.16884
2684	490610.04	3859010.04	2.27477	1.07031	3.52585	3.07977	2.05	2.285	1.0144	1.07031
2685	490660.04	3859010.04	2.25491	1.02509	3.70785	2.97269	2.075	2.214	0.9756	1.02509
2686	490710.04	3859010.04	2.25802	0.96397	3.7024	2.77624	2.115	2.1	0.8685	0.96397
2687	490760.04	3859010.04	2.2615	0.89589	3.83219	2.58166	2.191	1.977	0.7955	0.89589
2688	490810.04	3859010.04	2.26778	0.8357	3.8536	2.31547	2.336	1.859	0.7334	0.8357
2689	490860.04	3859010.04	2.27182	0.78706	3.75695	2.17752	2.382	1.75	0.6837	0.78706
2690	490360.04	3859060.04	2.40025	1.60623	3.16691	4.20065	2.28	2.992	1.5455	1.60623
2691	490410.04	3859060.04	2.37757	1.43964	3.59214	3.81132	2.2	2.753	1.3903	1.43964
2692	490460.04	3859060.04	2.35822	1.32952	4.04056	3.53188	2.097	2.561	1.2532	1.32952
2693	490510.04	3859060.04	2.33452	1.2371	3.94164	3.33572	1.945	2.413	1.1489	1.2371
2694	490560.04	3859060.04	2.32519	1.12978	4.07204	3.09452	1.943	2.283	1.0281	1.12978
2695	490610.04	3859060.04	2.31365	1.0779	4.34568	2.91098	1.845	2.21	0.9655	1.0779
2696	490660.04	3859060.04	2.30212	1.01905	4.6904	2.75364	1.865	2.143	0.9159	1.01905
2697	490710.04	3859060.04	2.30707	0.94073	4.67507	2.55254	1.92	2.001	0.8424	0.94073
2698	490760.04	3859060.04	2.30985	0.87092	4.59633	2.36517	1.972	1.888	0.7722	0.87092
2699	490810.04	3859060.04	2.31431	0.8163	4.22494	2.14634	2.025	1.791	0.7041	0.8163
2700	490860.04	3859060.04	2.30282	0.76865	4.34447	1.97118	1.996	1.705	0.658	0.76865
2701	490360.04	3859110.04	2.43378	1.66472	4.81527	4.31647	2.184	3.011	1.5753	1.66472
2702	490410.04	3859110.04	2.41565	1.48218	4.77437	3.91998	2.233	2.786	1.4129	1.48218
2703	490460.04	3859110.04	2.39353	1.38258	5.05478	3.64327	2.208	2.607	1.3029	1.38258
2704	490510.04	3859110.04	2.3881	1.20464	5.16309	3.21878	2.105	2.369	1.1091	1.20464
2705	490560.04	3859110.04	2.3741	1.1296	5.31165	2.96691	1.913	2.255	1.0235	1.1296
2706	490610.04	3859110.04	2.35251	1.03206	5.25249	2.72394	1.852	2.116	0.9407	1.03206
2707	490660.04	3859110.04	2.35497	0.94861	5.34724	2.48941	1.77	2.007	0.8401	0.94861
2708	490710.04	3859110.04	2.34488	0.90962	5.39811	2.37144	1.735	1.929	0.7997	0.90962
2709	490760.04	3859110.04	2.34133	0.85465	5.73522	2.17378	1.745	1.829	0.7337	0.85465
2710	490810.04	3859110.04	2.33162	0.80093	5.34534	1.98551	1.633	1.719	0.6716	0.80093

23.2542633	1.944720387	0.0002207	0.178523	1.238111	0.313123	7.328318	7.1599027	27.09738
23.0491354	1.883938063	0.0002246	0.173573	1.200911	0.299949	6.987583	6.93611962	26.65919
22.9831939	1.763426163	0.0002402	0.172065	1.28233	0.282646	6.351034	6.49242937	26.34251
22.913079	1.653257046	0.0002322	0.162365	1.369253	0.267624	5.915568	6.08681828	26.19456
22.8588234	1.540502234	0.0002406	0.148637	1.479496	0.255044	5.415979	5.6716874	26.02704
24.2361853	2.777905496	0.0002302	0.21767	1.060498	0.422598	10.45495	10.2274513	28.94258
23.9803493	2.665132214	0.0002351	0.206403	1.051833	0.40746	9.964497	9.81225243	28.46366
23.7785602	2.53924576	0.0002004	0.196352	1.068826	0.392888	9.411697	9.34877461	28.03899
23.6310267	2.399211856	0.0002048	0.194829	1.069802	0.375739	8.83502	8.83320994	27.67262
23.5258543	2.227761746	0.000214	0.189705	1.118588	0.354469	8.169846	8.20197981	27.38446
23.4465576	2.051860545	0.0002319	0.181395	1.210332	0.329152	7.683294	7.55436204	27.34846
23.3178049	1.945957827	0.0002584	0.17347	1.257726	0.312802	7.281554	7.1644586	27.12512
23.2033465	1.834865248	0.0002682	0.164497	1.243086	0.298155	6.5947	6.75544759	26.58347
23.1662022	1.696087253	0.0002891	0.157157	1.161972	0.27917	6.014125	6.24450681	26.2305
23.0578997	1.611738157	0.0002877	0.148049	1.131887	0.267008	5.639664	5.93395764	25.92258
23.0780369	1.486147211	0.0002898	0.135332	1.19874	0.24854	5.146948	5.47156779	25.82247
24.3879966	2.841975347	0.0002275	0.215828	1.028776	0.42774	10.6386	10.4633381	29.0778
24.1378992	2.69207886	0.0002157	0.203825	1.033995	0.41169	10.00991	9.91146225	28.57816
23.9488393	2.530676025	0.0002313	0.193566	0.985401	0.387988	9.325043	9.31722331	28.05452
23.7710478	2.365690155	0.0002337	0.189252	1.00216	0.364215	8.738021	8.70979265	27.72083
23.6132893	2.198284812	0.0002622	0.185905	1.022234	0.346919	8.168287	8.09345419	27.44173
23.5599727	2.020518216	0.0002852	0.172444	1.039828	0.326811	7.493052	7.43896857	27.17394
23.3696607	1.942227037	0.0003286	0.165292	1.073792	0.318155	7.171873	7.1507229	26.89061
23.3234391	1.800992631	0.0003429	0.158196	1.153096	0.300431	6.366693	6.63073833	26.47245
23.2699139	1.68447009	0.0003308	0.145553	1.19233	0.28376	5.848611	6.20173575	26.22323
23.2504028	1.56693174	0.0003331	0.133554	1.159937	0.268165	5.41442	5.76899326	26.02475
23.3164485	1.44717708	0.0003339	0.123748	1.084976	0.249483	4.938284	5.32809095	25.83236
24.9098938	2.905398775	0.0002323	0.215627	1.028635	0.419678	10.86795	10.696845	29.65057
24.4465301	2.729719205	0.0002607	0.206757	0.996191	0.399882	10.1558	10.0500432	28.8851
24.1323693	2.46396507	0.0002909	0.192265	0.992341	0.375262	9.193114	9.0716127	28.27799
24.0218757	2.25051587	0.0003156	0.180279	0.943006	0.354414	8.274426	8.28575397	27.73908
23.8029752	2.158760603	0.0003453	0.175432	0.91994	0.342592	7.882676	7.94793739	27.33478
23.7344253	1.976783016	0.0003671	0.162224	0.961402	0.321402	7.187248	7.27794811	27.0659
23.5272107	1.893265037	0.000386	0.156584	0.972965	0.311521	6.912195	6.97045886	26.80367
23.5596597	1.78038094	0.0003854	0.146236	0.99182	0.295367	6.153707	6.55485199	26.3727
23.5959692	1.654642241	0.000399	0.135987	1.027449	0.278179	5.636617	6.09191816	26.23732
23.6614933	1.543475784	0.0004012	0.121965	1.095358	0.261498	5.196191	5.68263516	26.19775
23.7036457	1.45364132	0.0003911	0.114699	1.116787	0.24623	4.844474	5.35189042	26.12798
25.0436547	2.966587423	0.0003297	0.221265	1.069258	0.420912	10.95071	10.922124	29.75059
24.8070168	2.658908075	0.000374	0.200758	1.031824	0.387234	9.851061	9.78933694	29.14784
24.6051234	2.45552462	0.0004206	0.186039	0.983197	0.360209	8.879091	9.04053739	28.42907
24.357843	2.284831749	0.0004103	0.175706	0.911935	0.339507	8.140088	8.41209519	27.79823
24.260496	2.086619686	0.0004239	0.163001	0.91103	0.321227	7.28453	7.68233522	27.34499
24.1400903	1.990801182	0.0004524	0.153333	0.864964	0.31084	6.841199	7.32955897	26.97212
24.0197889	1.882109606	0.0004883	0.145045	0.874708	0.301517	6.489765	6.92938777	26.78404
24.0714361	1.737458388	0.0004867	0.134453	0.900325	0.281451	5.96885	6.39682347	26.69764
24.1004419	1.608524506	0.0004785	0.124583	0.924831	0.265625	5.471528	5.9221259	26.57389
24.1469766	1.507645426	0.0004398	0.113056	0.949496	0.251914	4.98859	5.55071805	26.4074
24.0270925	1.419639418	0.0004523	0.10383	0.935822	0.239868	4.661955	5.22670517	26.16195
25.393499	3.074614105	0.0005013	0.227366	1.024091	0.423578	11.16121	11.3198473	29.98502
25.2043347	2.737476293	0.000497	0.206481	1.047111	0.391962	10.01091	10.0786026	29.52017
24.9735398	2.553522496	0.0005262	0.191906	1.035542	0.366773	9.231517	9.40133746	28.95199
24.9168844	2.224880542	0.0005375	0.169546	0.987169	0.333282	7.858161	8.19137204	28.29909
24.7708116	2.086287239	0.000553	0.156279	0.897028	0.317269	7.251513	7.68111125	27.79863
24.5455465	1.906138109	0.0005468	0.143481	0.868373	0.297663	6.665482	7.01785382	27.40938
24.5712136	1.752012162	0.0005567	0.131127	0.829907	0.282295	5.952128	6.45040629	27.06883
24.4659369	1.68000053	0.000562	0.124913	0.81372	0.271303	5.66595	6.18528011	26.83711
24.428897	1.578475026	0.0005971	0.114502	0.818278	0.257275	5.198529	5.81149233	26.58506
24.3275851	1.479258179	0.0005565	0.104585	0.765876	0.241805	4.758599	5.44620435	26.23206

2711	490860.04	3859110.04	2.32316	0.74425	4.6673	1.77549	1.627	1.598	0.622	0.74425
2712	490360.04	3859160.04	2.47432	1.74249	6.65474	4.50766	1.946	3.098	1.6551	1.74249
2713	490410.04	3859160.04	2.4508	1.56139	7.15703	4.09372	2.133	2.868	1.4803	1.56139
2714	490460.04	3859160.04	2.42894	1.41418	7.30048	3.65548	2.162	2.632	1.325	1.41418
2715	490510.04	3859160.04	2.40245	1.29549	7.488	3.25701	2.168	2.438	1.1988	1.29549
2716	490560.04	3859160.04	2.3987	1.16368	7.34421	2.95129	2.107	2.228	1.0398	1.16368
2717	490610.04	3859160.04	2.39187	1.08869	7.64628	2.69772	1.938	2.132	0.952	1.08869
2718	490660.04	3859160.04	2.39802	0.94996	6.93418	2.36215	1.802	1.897	0.8122	0.94996
2719	490710.04	3859160.04	2.38419	0.90539	6.00487	2.20281	1.683	1.814	0.7649	0.90539
2720	490760.04	3859160.04	2.38441	0.83019	5.57234	1.93422	1.43	1.659	0.681	0.83019
2721	490810.04	3859160.04	2.36743	0.77957	5.45054	1.77233	1.321	1.562	0.6411	0.77957
2722	490860.04	3859160.04	2.36891	0.72943	4.91312	1.67843	1.333	1.486	0.5993	0.72943
2723	490360.04	3859210.04	2.49981	1.84008	10.82024	4.74017	1.639	3.209	1.7618	1.84008
2724	490410.04	3859210.04	2.47777	1.71871	11.50328	4.36004	1.791	3.019	1.6298	1.71871
2725	490460.04	3859210.04	2.46515	1.50129	10.90804	3.70958	2.006	2.609	1.3787	1.50129
2726	490510.04	3859210.04	2.44797	1.34739	9.99217	3.27129	2.097	2.417	1.2184	1.34739
2727	490560.04	3859210.04	2.42558	1.25257	9.24767	3.04355	2.12	2.283	1.1146	1.25257
2728	490610.04	3859210.04	2.40449	1.14016	8.53738	2.69551	2.104	2.145	0.9968	1.14016
2729	490660.04	3859210.04	2.42262	1.01073	7.71557	2.42763	1.958	1.92	0.8521	1.01073
2730	490710.04	3859210.04	2.41963	0.93489	6.81354	2.1859	1.753	1.771	0.7808	0.93489
2731	490760.04	3859210.04	2.42267	0.8501	6.17185	1.89724	1.523	1.601	0.7155	0.8501
2732	490810.04	3859210.04	2.38206	0.83884	6.14944	1.88631	1.399	1.585	0.7006	0.83884
2733	490860.04	3859210.04	2.35803	0.81701	5.88214	1.81532	1.312	1.559	0.6822	0.81701
2734	490360.04	3859260.04	2.54866	1.94319	14.23578	4.71797	1.458	3.273	1.8857	1.94319
2735	490410.04	3859260.04	2.51227	1.77851	13.21088	4.40664	1.517	3.01	1.6907	1.77851
2736	490460.04	3859260.04	2.48046	1.66729	12.95622	4.10957	1.654	2.811	1.5585	1.66729
2737	490510.04	3859260.04	2.46224	1.55895	12.09855	3.76195	1.801	2.625	1.4343	1.55895
2738	490560.04	3859260.04	2.43906	1.40976	10.83143	3.4195	2.04	2.453	1.273	1.40976
2739	490610.04	3859260.04	2.43561	1.23887	10.13923	2.83365	2.061	2.222	1.0817	1.23887
2740	490660.04	3859260.04	2.40593	1.19332	9.31358	2.73444	2.05	2.172	1.0465	1.19332
2741	490710.04	3859260.04	2.39205	1.10503	8.67193	2.50372	1.977	2.049	0.9512	1.10503
2742	490760.04	3859260.04	2.41168	0.99582	7.71846	2.18264	1.745	1.851	0.8469	0.99582
2743	490810.04	3859260.04	2.38455	0.96074	7.19487	2.07374	1.639	1.798	0.8137	0.96074
2744	490860.04	3859260.04	2.35044	0.92597	6.93408	1.9974	1.495	1.741	0.7783	0.92597
2745	490360.04	3859310.04	2.59353	2.15939	16.37001	5.10366	1.404	3.549	2.11	2.15939
2746	490410.04	3859310.04	2.55661	1.9657	15.81689	4.79965	1.373	3.27	1.9156	1.9657
2747	490460.04	3859310.04	2.50884	1.8093	14.77471	4.31979	1.402	3.038	1.7479	1.8093
2748	490510.04	3859310.04	2.46931	1.71608	14.0169	4.04542	1.523	2.865	1.6173	1.71608
2749	490560.04	3859310.04	2.43633	1.61525	12.54469	3.7859	1.64	2.707	1.4986	1.61525
2750	490610.04	3859310.04	2.40783	1.52881	11.26361	3.5594	1.842	2.569	1.4074	1.52881
2751	490660.04	3859310.04	2.39591	1.40795	10.56302	3.25847	1.987	2.422	1.2644	1.40795
2752	490710.04	3859310.04	2.39989	1.23088	9.26798	2.79698	1.999	2.181	1.0858	1.23088
2753	490760.04	3859310.04	2.39061	1.13563	8.39995	2.56086	1.995	2.046	1.0116	1.13563
2754	490810.04	3859310.04	2.37017	1.09517	7.89137	2.43296	1.765	1.974	0.9609	1.09517
2755	490860.04	3859310.04	2.34407	1.03198	7.37311	2.21619	1.64	1.869	0.8762	1.03198
2756	490360.04	3859360.04	2.64541	2.42424	18.09599	5.87578	1.39	3.898	2.3862	2.42424
2757	490410.04	3859360.04	2.55078	2.2511	16.42773	5.40765	1.356	3.658	2.2134	2.2511
2758	490460.04	3859360.04	2.48013	2.11403	14.88844	5.07463	1.317	3.439	2.0607	2.11403
2759	490510.04	3859360.04	2.43949	1.98154	13.63953	4.71207	1.285	3.204	1.9169	1.98154
2760	490560.04	3859360.04	2.41417	1.8143	12.56409	4.21958	1.391	2.967	1.7175	1.8143
2761	490610.04	3859360.04	2.39734	1.67317	11.83508	3.80629	1.505	2.733	1.5497	1.67317
2762	490660.04	3859360.04	2.38451	1.56014	10.80014	3.53805	1.665	2.572	1.4271	1.56014
2763	490710.04	3859360.04	2.37559	1.41864	9.85035	3.12096	1.889	2.402	1.2635	1.41864
2764	490760.04	3859360.04	2.37086	1.27599	9.04698	2.84319	1.945	2.206	1.1294	1.27599
2765	490810.04	3859360.04	2.33821	1.24053	8.67589	2.75942	1.94	2.169	1.0974	1.24053
2766	490860.04	3859360.04	2.30457	1.16047	8.093	2.58868	1.783	2.052	1.0339	1.16047
2767	490360.04	3859410.04	2.6263	2.76591	17.5035	6.99019	1.166	4.534	2.7415	2.76591
2768	490410.04	3859410.04	2.54734	2.58217	15.78988	6.40204	1.291	4.136	2.5604	2.58217
2769	490460.04	3859410.04	2.48723	2.41403	14.39517	5.88136	1.32	3.822	2.3856	2.41403

24.2393154	1.374574432	0.0004859	0.093522	0.762739	0.224841	4.407024	5.06078882	26.04171
25.816484	3.218249515	0.0006928	0.237437	0.912362	0.435815	11.72698	11.8486717	30.49935
25.5710817	2.883771275	0.0007451	0.215633	0.99997	0.403492	10.48846	10.6172187	29.94593
25.3429995	2.611885347	0.00076	0.192549	1.013953	0.3702	9.387891	9.61621274	29.30402
25.066609	2.392673739	0.0007795	0.17156	1.016396	0.342997	8.493931	8.80913847	28.67581
25.0274823	2.149230466	0.0007646	0.155456	0.98813	0.313421	7.367216	7.91285016	28.08885
24.9562197	2.01072951	0.000796	0.1421	0.908634	0.299973	6.74498	7.40292936	27.6605
25.0203874	1.754505512	0.0007219	0.124424	0.845166	0.266915	5.754801	6.45958609	27.30733
24.8760883	1.672188034	0.0006251	0.116031	0.789121	0.255214	5.419805	6.15651675	26.97256
24.8783838	1.533299224	0.0005801	0.101883	0.670653	0.233366	4.824989	5.64516798	26.59799
24.7012184	1.439807846	0.0005674	0.093356	0.619635	0.219723	4.542141	5.30095954	26.31549
24.7166604	1.347202993	0.0005115	0.08841	0.624985	0.209064	4.246115	4.96001503	26.27293
26.0824408	3.398490991	0.0011265	0.249684	0.768657	0.45143	12.48292	12.5122691	30.92248
25.8524805	3.174329622	0.0011976	0.229661	0.839975	0.424716	11.54765	11.6869712	30.38304
25.7208063	2.772771042	0.0011356	0.195399	0.940816	0.367019	9.76887	10.2085477	29.55827
25.5415542	2.488529182	0.0010402	0.172312	0.983089	0.340027	8.632449	9.16205072	28.99695
25.3079421	2.313403689	0.0009627	0.160316	0.994334	0.321163	7.89706	8.51728888	28.47789
25.0878939	2.105790774	0.0008888	0.141983	0.986723	0.301807	7.0629	7.75291767	27.93507
25.2770581	1.866743185	0.0008032	0.127873	0.917956	0.270045	6.037436	6.87281301	27.6251
25.2458611	1.726672342	0.0007093	0.11514	0.821973	0.249093	5.532391	6.35711234	27.33473
25.2775798	1.570071514	0.0006425	0.099935	0.713934	0.225218	5.069859	5.78055301	27.17669
24.8538644	1.549275131	0.0006402	0.09936	0.656107	0.222964	4.964216	5.70398669	26.64244
24.6031409	1.508956743	0.0006124	0.09562	0.615011	0.219359	4.833846	5.55554595	26.321
26.5921304	3.588927497	0.001482	0.248515	0.683722	0.460375	13.36086	13.2134017	31.72261
26.2124455	3.284775777	0.0013753	0.232116	0.711566	0.423427	11.97943	12.0936023	30.75154
25.8805473	3.079360704	0.0013488	0.216468	0.775808	0.395399	11.04282	11.3373229	30.05443
25.690444	2.879264777	0.0012595	0.198157	0.844716	0.369339	10.16246	10.6006271	29.54501
25.4485893	2.603721936	0.0011276	0.180119	0.956408	0.345038	9.019877	9.5861574	28.96872
25.4125928	2.288100808	0.0010556	0.14926	0.966349	0.312539	7.664306	8.42413093	28.37007
25.1029185	2.203973343	0.0009696	0.144034	0.961322	0.305513	7.414972	8.11439773	28.0193
24.9580978	2.040908276	0.0009028	0.131881	0.927175	0.288298	6.739879	7.51403892	27.5731
25.1629127	1.839205523	0.0008035	0.114969	0.818194	0.26038	6.000875	6.77142724	27.42591
24.8798445	1.77441537	0.000749	0.109232	0.768343	0.252866	5.765358	6.53288848	27.01792
24.5239486	1.710197765	0.0007219	0.105211	0.701147	0.244957	5.514536	6.29645767	26.50426
27.0602936	3.988232827	0.0017042	0.268831	0.658241	0.499313	14.94997	14.6835294	32.74306
26.6750788	3.630501794	0.0016466	0.252817	0.643714	0.459963	13.57293	13.3664663	31.87018
26.1766577	3.341642619	0.0015381	0.227541	0.657237	0.427342	12.38422	12.3029697	30.91321
25.7642108	3.169472208	0.0014592	0.213089	0.713929	0.40307	11.45908	11.6690876	30.05523
25.4201051	2.983246692	0.001306	0.199419	0.769042	0.380792	10.61819	10.9834587	29.38864
25.1227427	2.823598437	0.0011726	0.187488	0.863613	0.361397	9.971795	10.3956796	28.93613
24.9983721	2.600379	0.0010997	0.171637	0.931747	0.340748	8.958376	9.57384967	28.42851
25.0398985	2.273343871	0.0009649	0.147328	0.937163	0.306801	7.693356	8.36980012	28.02906
24.9430731	2.097424201	0.0008745	0.134891	0.935339	0.287889	7.167197	7.72211435	27.84457
24.7298069	2.022697588	0.0008215	0.128154	0.827778	0.277749	6.807969	7.44699239	27.34798
24.4574855	1.905990355	0.0007676	0.116736	0.769154	0.262888	6.208406	7.01730983	26.70412
27.6015976	4.477391092	0.0018839	0.309501	0.651971	0.548351	16.90695	16.4844698	34.01317
26.61425	4.157614381	0.0017102	0.284843	0.635704	0.514576	15.68267	15.3071437	32.58422
25.8771042	3.904456279	0.00155	0.267301	0.617618	0.483722	14.60059	14.3750882	31.37725
25.4530758	3.659757097	0.00142	0.248204	0.60235	0.450745	13.58186	13.474176	30.52323
25.1888928	3.350877247	0.001308	0.222262	0.652267	0.417317	12.16925	12.336969	29.6652
25.0132924	3.090220627	0.0012321	0.200493	0.705953	0.384513	10.98004	11.377306	28.99844
24.8794272	2.881462618	0.0011244	0.186364	0.780825	0.361834	10.11138	10.6087189	28.59369
24.7863579	2.620122636	0.0010255	0.164394	0.885854	0.33791	8.952353	9.64654007	28.10148
24.7370062	2.356658689	0.0009418	0.149762	0.912038	0.310338	8.002277	8.67654138	27.79248
24.3963436	2.291166704	0.0009032	0.14535	0.909736	0.305124	7.775333	8.43541868	27.38854
24.0453516	2.143301835	0.0008425	0.136356	0.8359	0.28873	7.325838	7.89102264	26.8853
27.4022082	5.108430186	0.0018222	0.368202	0.546727	0.637863	19.4248	18.8077748	34.68228
26.5783578	4.769076063	0.0016438	0.337222	0.605243	0.58186	18.14122	17.5583703	33.45625
25.9511839	4.458533981	0.0014986	0.309795	0.619011	0.537615	16.9027	16.4150434	32.36529

2770	490510.04	3859410.04	2.43172	2.22192	12.97379	5.3502	1.251	3.543	2.2097	2.22192
2771	490560.04	3859410.04	2.38486	2.09028	11.8382	4.97528	1.225	3.314	2.0328	2.09028
2772	490610.04	3859410.04	2.35733	1.93147	10.79736	4.60493	1.272	3.12	1.8606	1.93147
2773	490660.04	3859410.04	2.3449	1.7491	9.96288	3.98028	1.383	2.793	1.631	1.7491
2774	490710.04	3859410.04	2.33415	1.59766	9.10763	3.50734	1.531	2.555	1.4594	1.59766
2775	490760.04	3859410.04	2.32736	1.43156	8.27638	3.16074	1.706	2.38	1.2932	1.43156
2776	490810.04	3859410.04	2.29805	1.38518	7.69019	3.10843	1.894	2.318	1.2492	1.38518
2777	490860.04	3859410.04	2.26634	1.35898	7.21394	3.03805	1.875	2.289	1.2324	1.35898
2778	490360.04	3859460.04	2.64697	3.23545	14.91636	8.59068	1.115	5.16	3.1524	3.23545
2779	490410.04	3859460.04	2.56575	2.93534	13.55635	7.49702	1.084	4.639	2.9225	2.93534
2780	490460.04	3859460.04	2.50891	2.72562	12.74757	6.83168	1.206	4.303	2.714	2.72562
2781	490510.04	3859460.04	2.4624	2.53309	11.66295	6.1864	1.301	3.984	2.5181	2.53309
2782	490560.04	3859460.04	2.41722	2.36932	10.73821	5.71969	1.202	3.702	2.3423	2.36932
2783	490610.04	3859460.04	2.37937	2.20694	9.87371	5.19132	1.176	3.431	2.1353	2.20694
2784	490660.04	3859460.04	2.35208	1.98476	9.04756	4.59921	1.177	3.18	1.8966	1.98476
2785	490710.04	3859460.04	2.3269	1.86161	8.40433	4.20908	1.276	2.998	1.7537	1.86161
2786	490760.04	3859460.04	2.29909	1.75021	7.85757	3.84646	1.408	2.792	1.6217	1.75021
2787	490810.04	3859460.04	2.27838	1.62441	7.25921	3.52978	1.554	2.627	1.4887	1.62441
2788	490860.04	3859460.04	2.24564	1.56222	6.81023	3.39033	1.738	2.546	1.4349	1.56222
2789	490360.04	3859510.04	2.75716	3.79039	13.98561	11.06254	1.275	6.159	3.7197	3.79039
2790	490410.04	3859510.04	2.71797	3.49863	12.94812	9.73283	1.077	5.566	3.4699	3.49863
2791	490460.04	3859510.04	2.65233	3.22771	11.21994	8.582	1.01	4.956	3.1638	3.22771
2792	490510.04	3859510.04	2.58512	2.98003	10.50346	7.63725	1.124	4.549	2.9283	2.98003
2793	490560.04	3859510.04	2.52977	2.74371	9.88516	6.81336	1.226	4.197	2.7311	2.74371
2794	490610.04	3859510.04	2.482	2.52098	9.36108	6.16907	1.172	3.88	2.491	2.52098
2795	490660.04	3859510.04	2.42721	2.3369	9.18739	5.61665	1.118	3.572	2.2715	2.3369
2796	490710.04	3859510.04	2.38191	2.11441	8.64955	4.97975	1.113	3.309	2.0444	2.11441
2797	490760.04	3859510.04	2.33952	1.9466	7.96857	4.51326	1.182	3.115	1.8808	1.9466
2798	490810.04	3859510.04	2.29621	1.84355	7.44324	4.21428	1.297	2.976	1.7742	1.84355
2799	490860.04	3859510.04	2.27217	1.74845	6.90443	3.86448	1.431	2.827	1.6451	1.74845
2800	490360.04	3859560.04	2.92587	4.4425	11.84495	15.18992	1.237	7.418	4.401	4.4425
2801	490410.04	3859560.04	2.84861	4.15892	11.32232	12.65434	1.234	6.627	4.1313	4.15892
2802	490460.04	3859560.04	2.78224	3.8656	11.12661	11.0333	1.047	6.005	3.8452	3.8656
2803	490510.04	3859560.04	2.69913	3.4918	10.13205	9.63688	0.98	5.35	3.4691	3.4918
2804	490560.04	3859560.04	2.62083	3.21322	9.21312	8.53992	1.047	4.913	3.1754	3.21322
2805	490610.04	3859560.04	2.56098	2.93538	8.67382	7.50125	1.149	4.538	2.9233	2.93538
2806	490660.04	3859560.04	2.49428	2.68695	8.11466	6.62986	1.157	4.131	2.701	2.68695
2807	490710.04	3859560.04	2.43106	2.45406	7.58589	5.96195	1.067	3.804	2.4619	2.45406
2808	490760.04	3859560.04	2.37729	2.21222	7.10237	5.3215	1.065	3.468	2.2224	2.21222
2809	490810.04	3859560.04	2.34392	2.03507	6.60332	4.83887	1.123	3.266	2.0077	2.03507
2810	490860.04	3859560.04	2.31627	1.89801	6.14445	4.40078	1.2	3.045	1.833	1.89801
2811	490187.25	3859422.08	3.04347	3.63507	24.28545	10.67279	1.342	6.231	3.5808	3.63507
2812	490237.25	3859422.08	2.94029	3.41055	21.52233	9.54217	1.444	5.756	3.3639	3.41055
2813	490287.25	3859422.08	2.80868	3.21308	19.31431	8.54938	1.273	5.331	3.151	3.21308
2814	490337.25	3859422.08	2.6783	2.92659	17.23083	7.48696	1.12	4.76	2.8907	2.92659
2815	490187.25	3859472.08	3.13988	4.11105	20.3857	14.29152	1.19	7.847	4.0402	4.11105
2816	490237.25	3859472.08	2.96818	3.91798	18.05926	12.38933	1.281	6.938	3.8338	3.91798
2817	490287.25	3859472.08	2.817	3.71514	16.63815	10.87259	1.372	6.169	3.6255	3.71514
2818	490337.25	3859472.08	2.70233	3.45578	15.33052	9.55338	1.236	5.614	3.3725	3.45578
2819	490297.07	3859500.42	2.88863	3.99933	15.99874	12.32047	1.308	6.855	3.871	3.99933
2820	490327.07	3859500.42	2.80251	3.88046	15.30613	11.47276	1.345	6.401	3.7801	3.88046
2821	490297.07	3859530.42	2.93176	4.39061	14.4533	15.30713	1.217	7.993	4.2928	4.39061
2822	490327.07	3859530.42	2.84692	4.22294	13.9087	13.48162	1.271	7.302	4.1378	4.22294
2823	490319.73	3859055.34	2.43115	1.7128	3.00221	4.4041	2.292	3.164	1.6583	1.7128
2824	490319.73	3859105.34	2.45132	1.77082	3.84401	4.40711	2.175	3.217	1.6912	1.77082
2825	490069.73	3859155.34	2.70799	2.47313	4.91736	6.32839	1.7	4.36	2.3268	2.47313
2826	490119.73	3859155.34	2.64872	2.37465	4.38734	5.91731	1.668	4.167	2.2506	2.37465
2827	490269.73	3859155.34	2.5058	2.08797	5.71355	5.03707	1.719	3.636	1.9947	2.08797
2828	490319.73	3859155.34	2.48478	1.87052	5.83888	4.73553	1.853	3.345	1.7956	1.87052

25.3720054	4.10372109	0.0013507	0.281817	0.586641	0.49848	15.65673	15.1087241	31.39203
24.883079	3.860591794	0.0012324	0.262068	0.574374	0.466201	14.40298	14.2135917	30.23693
24.5958373	3.567281528	0.0011241	0.24256	0.596329	0.438879	13.18267	13.1337075	29.49097
24.4661456	3.230457693	0.0010372	0.209658	0.648717	0.392857	11.55587	11.8936187	28.61112
24.3539825	2.95075927	0.0009482	0.184746	0.717995	0.359443	10.34059	10.8638493	28.04461
24.2831372	2.643984915	0.0008616	0.166489	0.800056	0.334762	9.162859	9.73439414	27.65776
23.9773235	2.558324503	0.0008006	0.163734	0.88826	0.326155	8.851104	9.41901707	27.34668
23.6464686	2.50993505	0.000751	0.160026	0.87912	0.322057	8.731644	9.24086098	27.00914
27.6178742	5.975635666	0.0015529	0.452506	0.522859	0.725877	22.33554	22.0005767	35.63127
26.7704435	5.421354803	0.0014113	0.394899	0.508271	0.652648	20.7069	19.9598735	34.49605
26.1773881	5.034017551	0.0013271	0.359852	0.565573	0.605267	19.22939	18.5338088	33.439
25.6921134	4.678428951	0.0012142	0.325863	0.610251	0.560395	17.84136	17.2246336	32.485
25.2207157	4.375957934	0.0011179	0.301279	0.563753	0.520793	16.59597	16.1110221	31.46856
24.8257976	4.076054143	0.0010279	0.273448	0.551336	0.482642	15.12944	15.0068623	30.33289
24.54106	3.665704197	0.0009419	0.242259	0.551998	0.447384	13.43774	13.4960715	29.39102
24.2783377	3.438255301	0.0008749	0.221709	0.598467	0.421683	12.42567	12.6586699	28.72633
23.9881746	3.232507781	0.000818	0.202609	0.660351	0.392747	11.49012	11.9011665	28.06616
23.7720912	3.000164531	0.0007557	0.185928	0.728564	0.369583	10.54791	11.0457453	27.55925
23.4304896	2.885304224	0.000709	0.178582	0.814813	0.358104	10.16707	10.6228626	27.21221
28.7675713	7.000568599	0.001456	0.582709	0.597905	0.86648	26.35527	25.7740858	38.39788
28.3586719	6.461709565	0.001348	0.512668	0.505096	0.782932	24.58564	23.7901613	37.4179
27.6737992	5.961340462	0.0011681	0.452049	0.47374	0.697254	22.41695	21.9479458	35.72835
26.9725456	5.503893911	0.0010935	0.402285	0.527126	0.639941	20.74785	20.2637588	34.53098
26.3950365	5.067428436	0.0010291	0.358887	0.574928	0.590381	19.35062	18.6568181	33.68149
25.8966153	4.656062681	0.0009745	0.32495	0.549536	0.54583	17.6497	17.1422874	32.48139
25.3249491	4.316080603	0.0009565	0.295852	0.524022	0.502529	16.0944	15.8905709	31.16822
24.8522994	3.905158111	0.0009005	0.262304	0.522006	0.46554	14.48531	14.3776721	30.11585
24.4100119	3.595225514	0.0008296	0.237732	0.554047	0.438249	13.32622	13.2365892	29.32572
23.9581253	3.404899823	0.0007749	0.221983	0.60831	0.418616	12.57099	12.5358646	28.64783
23.7072975	3.229257192	0.0007188	0.203558	0.670826	0.397699	11.6562	11.8891988	27.97636
30.5278525	8.204967299	0.0012331	0.800115	0.580142	1.043555	31.18274	30.2083363	42.13227
29.7217395	7.681216117	0.0011787	0.666556	0.578843	0.932312	29.27161	28.2800347	40.57342
29.0292502	7.139475879	0.0011583	0.581169	0.491141	0.844703	27.24449	26.2855025	39.04588
28.1620996	6.449095062	0.0010548	0.507614	0.459621	0.752612	24.57983	23.7437184	37.1682
27.3451355	5.934578509	0.0009591	0.449832	0.490916	0.691094	22.49893	21.849416	35.56202
26.7206744	5.42142868	0.000903	0.395121	0.538788	0.638416	20.71249	19.9601455	34.46768
26.024742	4.962596935	0.0008448	0.349222	0.542502	0.581168	19.13749	18.2708586	33.32771
25.3651191	4.532466415	0.0007897	0.31404	0.500234	0.535074	17.4431	16.6872414	32.00358
24.8040953	4.085805911	0.0007394	0.280305	0.499413	0.487817	15.74615	15.0427655	30.86156
24.4559205	3.758623028	0.0006874	0.254883	0.526667	0.4595	14.22521	13.838172	29.84332
24.1674267	3.505483395	0.0006397	0.231807	0.562933	0.428303	12.9874	12.9061845	28.9778
31.7548638	6.713704103	0.0025283	0.562179	0.629238	0.876556	25.37091	24.717933	41.19204
30.6783074	6.299032351	0.0022406	0.502625	0.677072	0.809763	23.83437	23.1912305	39.61219
29.3051191	5.934319939	0.0020107	0.450331	0.596976	0.749987	22.32583	21.848464	37.51611
27.9447642	5.405194203	0.0017938	0.394369	0.524978	0.669584	20.48194	19.9003748	35.52224
32.7607834	7.592803785	0.0021223	0.752793	0.558183	1.103905	28.62606	27.9545259	43.44213
30.9693053	7.236217845	0.0018801	0.652596	0.600695	0.976044	27.16364	26.6416787	40.9587
29.391928	6.861587442	0.0017321	0.572704	0.643338	0.867792	25.68769	25.262397	38.76438
28.1954877	6.3825688	0.001596	0.503215	0.579678	0.789742	23.89524	23.4987877	36.84874
30.1392989	7.386465249	0.0016656	0.648969	0.613473	0.964384	27.42715	27.1948465	39.98656
29.2407427	7.166921194	0.0015935	0.604317	0.630818	0.900464	26.78358	26.3865483	38.94189
30.5893074	8.109130326	0.0015047	0.806289	0.570473	1.124386	30.41611	29.8554921	41.76171
29.7041064	7.799456298	0.001448	0.710132	0.595921	1.027195	29.31802	28.7153611	40.44092
25.3660582	3.163414291	0.0003125	0.231982	1.074908	0.445118	11.74958	11.6467841	30.38459
25.5765073	3.270572919	0.0004002	0.23214	1.019702	0.452558	11.98283	12.0413115	30.4934
28.2545428	4.567687288	0.0005119	0.333342	0.796989	0.613325	16.48636	16.8169145	34.23584
27.6361333	4.385802048	0.0004567	0.311689	0.781937	0.586227	15.94653	16.1472653	33.5015
26.144939	3.856325396	0.0005948	0.265323	0.806269	0.511525	14.1331	14.1978841	31.52019
25.9256212	3.454711408	0.0006079	0.24944	0.868795	0.470627	12.72276	12.7192566	30.9733

2829	490069.73	3859205.34	2.7734	2.67235	5.83836	6.91468	1.597	4.554	2.5396	2.67235
2830	490119.73	3859205.34	2.684	2.57216	6.46731	6.52678	1.558	4.38	2.4436	2.57216
2831	490169.73	3859205.34	2.6227	2.48617	7.70346	6.13036	1.609	4.182	2.3581	2.48617
2832	490219.73	3859205.34	2.58117	2.33482	8.02107	5.73027	1.55	3.958	2.2272	2.33482
2833	490269.73	3859205.34	2.54126	2.13557	9.01881	5.24093	1.542	3.653	2.0543	2.13557
2834	490319.73	3859205.34	2.51169	2.01081	9.99352	4.97095	1.597	3.438	1.9406	2.01081
2835	490069.73	3859255.34	2.80919	2.93193	10.44098	7.5887	1.676	4.871	2.7866	2.93193
2836	490119.73	3859255.34	2.75374	2.78628	12.00077	7.12596	1.489	4.604	2.6411	2.78628
2837	490169.73	3859255.34	2.69572	2.64385	13.44156	6.6459	1.44	4.36	2.526	2.64385
2838	490219.73	3859255.34	2.64248	2.50781	14.33317	6.16392	1.508	4.12	2.3849	2.50781
2839	490269.73	3859255.34	2.5997	2.30304	15.23531	5.70611	1.492	3.83	2.2244	2.30304
2840	490319.73	3859255.34	2.56348	2.15869	14.94161	5.23052	1.459	3.584	2.0808	2.15869
2841	490069.73	3859305.34	2.93758	3.19967	19.83181	8.52568	1.503	5.227	3.0991	3.19967
2842	490119.73	3859305.34	2.86503	3.08434	22.13654	7.93233	1.621	4.963	2.9632	3.08434
2843	490169.73	3859305.34	2.79758	2.91031	20.94943	7.36958	1.388	4.716	2.7853	2.91031
2844	490219.73	3859305.34	2.73781	2.70808	19.98743	6.78024	1.331	4.423	2.6315	2.70808
2845	490269.73	3859305.34	2.681	2.52532	18.30058	6.31051	1.402	4.14	2.4688	2.52532
2846	490319.73	3859305.34	2.62721	2.31755	16.14279	5.58593	1.449	3.793	2.2743	2.31755
2847	490069.73	3859355.34	3.05156	3.5748	29.2766	10.146	1.346	6.054	3.5279	3.5748
2848	490119.73	3859355.34	2.97922	3.39974	26.72338	9.23807	1.427	5.674	3.3379	3.39974
2849	490169.73	3859355.34	2.90155	3.22148	25.79302	8.43813	1.542	5.351	3.1425	3.22148
2850	490219.73	3859355.34	2.83318	3.02849	23.66153	7.78023	1.327	4.988	2.9261	3.02849
2851	490269.73	3859355.34	2.7637	2.79155	20.80322	7.06	1.231	4.59	2.7362	2.79155
2852	490319.73	3859355.34	2.69437	2.57562	19.21503	6.38438	1.307	4.184	2.5339	2.57562
2853	490069.73	3859405.34	3.1925	3.99968	34.57863	12.73373	1.292	7.221	3.9727	3.99968
2854	490119.73	3859405.34	3.10836	3.78529	30.75557	11.45252	1.274	6.702	3.7502	3.78529
2855	490169.73	3859405.34	3.0205	3.57433	27.18819	10.28915	1.361	6.152	3.5213	3.57433
2856	490219.73	3859405.34	2.93096	3.35095	24.10997	9.21057	1.467	5.684	3.308	3.35095
2857	490269.73	3859405.34	2.83574	3.1332	21.46033	8.29656	1.29	5.23	3.073	3.1332
2858	490319.73	3859405.34	2.72068	2.86296	19.47202	7.33585	1.145	4.684	2.8278	2.86296
2859	490161.89	3859541.83	3.01306	5.20144	16.4285	13.76375	1.19	8.002	5.1278	5.20144
2860	490171.89	3859541.83	3.01981	5.17819	16.17234	14.74766	1.222	8.633	5.1243	5.17819
2861	490161.89	3859551.83	2.9737	5.3841	15.38462	12.37812	1.148	7.215	5.2883	5.3841
2862	490171.89	3859551.83	2.9631	5.35746	15.09478	12.98951	1.177	7.481	5.273	5.35746
2863	489799.72	3859348.21	3.27209	5.22398	25.53664	15.72968	1.55	8.313	5.1284	5.22398
2864	489819.72	3859348.21	3.26883	5.00359	29.26353	17.47304	1.517	10.31	4.9032	5.00359
2865	489799.72	3859368.21	3.20987	5.65406	37.68275	12.84733	1.562	6.725	5.5982	5.65406
2866	489819.72	3859368.21	3.20004	5.44076	44.50822	14.65226	1.525	7.76	5.3361	5.44076
2867	489775.41	3859329.72	3.33555	5.11633	20.65559	15.98986	1.583	8.511	5.0132	5.11633
2868	489795.41	3859329.72	3.3548	4.89679	19.45844	17.84591	1.549	10.44	4.7944	4.89679
2869	489775.41	3859349.72	3.25817	5.54026	25.84655	13.17171	1.597	6.92	5.4635	5.54026
2870	489795.41	3859349.72	3.26414	5.30611	24.63878	15.21598	1.559	7.899	5.2043	5.30611
2871	489595.05	3859219.43	3.54292	4.91586	5.70058	14.72968	1.9	7.3	4.8051	4.91586
2872	489615.05	3859219.43	3.54817	4.74597	6.1096	16.44471	1.867	8.89	4.6417	4.74597
2873	489595.05	3859239.43	3.47124	5.3064	6.48369	12.50233	1.932	6.345	5.1464	5.3064
2874	489615.05	3859239.43	3.45949	5.08625	6.65087	13.6001	1.872	6.897	4.9449	5.08625
2875	489372.4	3859092.58	3.60045	4.84921	2.5298	13.17544	2.319	6.306	4.7256	4.84921
2876	489422.4	3859092.58	3.54847	4.4344	2.52965	16.36105	2.363	8.635	4.4131	4.4344
2877	489372.4	3859142.58	3.58415	5.81924	2.49718	10.42342	2.285	5.286	5.6529	5.81924
2878	489422.4	3859142.58	3.52727	5.26234	2.92307	11.75679	2.197	5.829	5.0721	5.26234
2879	488870.84	3858666.64	4.72088	3.43633	2.58596	15.00191	3.734	6.499	3.7646	3.43633
2880	488900.84	3858666.64	4.63358	3.33772	2.63863	18.5993	3.865	8.455	3.5658	3.33772
2881	488870.84	3858696.64	4.71362	3.6601	2.34961	12.46361	3.053	5.453	4.0443	3.6601
2882	488900.84	3858696.64	4.63066	3.52836	2.37323	14.9941	3.624	6.391	3.8327	3.52836
2883	488889.67	3858683.97	4.67378	3.48074	2.48365	15.07156	3.72	6.517	3.7998	3.48074
2884	488919.67	3858683.97	4.55827	3.37897	2.48142	19.02908	3.734	8.402	3.5805	3.37897
2885	488889.67	3858713.97	4.64132	3.70991	2.245	12.53098	3.048	5.413	4.0753	3.70991
2886	488919.67	3858713.97	4.54771	3.57944	2.267	15.02635	3.498	6.41	3.8444	3.57944
2887	488906.61	3858703.33	4.60528	3.55584	2.32286	14.79012	3.575	6.325	3.8454	3.55584

28.9370157	4.93563182	0.0006078	0.364224	0.748686	0.64065	17.99384	18.1715808	35.44908
28.0042367	4.750588337	0.0006733	0.343792	0.730398	0.616216	17.31379	17.4903038	34.26939
27.3646467	4.591771199	0.000802	0.322911	0.754646	0.588285	16.70785	16.9055846	33.42532
26.9313322	4.312238998	0.000835	0.301837	0.726754	0.556826	15.78059	15.8764272	32.73398
26.5149205	3.944239058	0.0009389	0.276061	0.723191	0.513867	14.55539	14.521557	32.00705
26.2063939	3.713816611	0.0010404	0.26184	0.748728	0.483594	13.74957	13.6732076	31.49177
29.3104403	5.415056786	0.001087	0.399728	0.785904	0.685174	19.74435	19.936686	36.40505
28.7318878	5.146052062	0.0012494	0.375353	0.698413	0.647697	18.71343	18.9462878	35.36779
28.1265205	4.882994439	0.0013993	0.350067	0.675075	0.613398	17.89755	17.977785	34.56922
27.5710266	4.63173867	0.0014922	0.324679	0.706975	0.579625	16.89752	17.0527334	33.66033
27.12467	4.2535437	0.0015861	0.300564	0.699745	0.538797	15.76039	15.660328	33.01897
26.7467588	3.986939979	0.0015555	0.275513	0.684022	0.504164	14.74286	14.6787695	32.26305
30.6500319	5.909552666	0.0020646	0.449082	0.70456	0.735352	21.95853	21.757278	38.65189
29.893062	5.696546728	0.0023045	0.417828	0.760174	0.698109	20.99513	20.9730512	37.4901
29.1893042	5.375126253	0.002181	0.388186	0.650921	0.663409	19.73493	19.7896732	36.21438
28.5656778	5.001622475	0.0020808	0.357143	0.624052	0.622244	18.64534	18.4145394	35.40362
27.9729354	4.664078339	0.0019052	0.3324	0.657397	0.582443	17.49213	17.1717987	34.53149
27.411703	4.280342592	0.0016806	0.294234	0.679609	0.53354	16.11395	15.7589938	33.55607
31.8392729	6.602389893	0.0030479	0.534431	0.63124	0.851596	24.99666	24.308106	41.15053
31.0844941	6.279067085	0.0027821	0.486607	0.66926	0.798194	23.65044	23.1177241	39.85312
30.2741032	5.949834115	0.0026852	0.444471	0.723059	0.752728	22.26546	21.9055827	38.50676
29.5607464	5.593395929	0.0024633	0.409816	0.622237	0.701646	20.73262	20.5932796	37.02964
28.8358081	5.15578536	0.0021657	0.371879	0.577099	0.645734	19.38689	18.982123	35.99324
28.1124349	4.7569787	0.0020004	0.336291	0.61292	0.588541	17.95388	17.5138312	34.84921
33.3098084	7.387111673	0.0035998	0.670737	0.605722	1.015884	28.14801	27.1972265	43.94365
32.431911	6.991149278	0.0032018	0.603251	0.597525	0.942755	26.57159	25.7394065	42.40198
31.5152001	6.601521838	0.0028305	0.541971	0.638373	0.86545	24.94947	24.30491	40.8099
30.5809604	6.188955581	0.00251	0.485158	0.68812	0.799633	23.43859	22.7859594	39.39796
29.5874569	5.786787516	0.0022342	0.437014	0.604943	0.735733	21.77338	21.3052919	37.62226
28.3869474	5.287674323	0.0020272	0.386409	0.537105	0.658941	20.0362	19.4677003	35.8276
31.4375728	9.606673069	0.0017103	0.724993	0.558206	1.125627	36.3326	35.369015	44.41836
31.5080008	9.563732047	0.0016836	0.776819	0.572785	1.214457	36.30737	35.2109184	44.73393
31.0268997	9.944032512	0.0016016	0.652006	0.538164	1.014957	37.46937	36.6110757	44.03596
30.9163017	9.894830412	0.0015715	0.68421	0.552068	1.052436	37.36082	36.4299277	44.03231
34.1402321	9.648302773	0.0026585	0.828546	0.72667	1.169464	36.33671	35.5222836	47.3303
34.106218	9.241258824	0.0030465	0.920376	0.711463	1.44974	34.74122	34.0236645	47.14966
33.491043	10.44262857	0.003923	0.676721	0.732513	0.946092	39.6652	38.4467634	47.51135
33.388479	10.04867932	0.0046336	0.771794	0.715097	1.091634	37.80805	36.9963552	46.83201
34.8023591	9.449481225	0.0021504	0.842251	0.742318	1.197342	35.52012	34.7902797	47.76574
35.0032091	9.044007163	0.0020257	0.940017	0.726492	1.468607	33.9697	33.2974405	47.85662
33.994994	10.23244842	0.0026908	0.693808	0.748751	0.973535	38.71108	37.6729404	47.68437
34.0572836	9.799990779	0.002565	0.801488	0.730839	1.111182	36.87434	36.0807553	47.29694
36.9660098	9.079228035	0.0005935	0.775872	0.891162	1.026902	34.0458	33.4271136	49.35845
37.0207871	8.765453833	0.000636	0.86621	0.875571	1.250674	32.88791	32.271887	49.39535
36.2181172	9.800526387	0.000675	0.658549	0.90576	0.892523	36.46389	36.0827273	48.85731
36.0955204	9.3939257	0.0006924	0.716373	0.877953	0.970229	35.03626	34.5857402	48.50521
37.5662646	8.956130439	0.0002634	0.694004	1.087513	0.887136	33.48251	32.9739036	49.69992
37.0239172	8.190007201	0.0002634	0.861803	1.108112	1.214759	31.26812	30.1532576	49.51373
37.3961941	10.74770375	0.00026	0.549044	1.071293	0.74357	40.05262	39.5699627	50.99073
36.8027213	9.719150842	0.0003043	0.619278	1.030431	0.820047	35.93738	35.7831259	49.14618
49.2565727	6.346646095	0.0002692	0.790212	1.751151	0.914312	26.67348	23.3665307	62.36611
48.3457046	6.164520755	0.0002747	0.979701	1.812466	1.189443	25.26491	22.6959974	61.06102
49.1808235	6.759932653	0.0002446	0.656509	1.431535	0.767098	28.65497	24.8881332	62.56298
48.315238	6.516618665	0.0002471	0.7898	1.699387	0.899073	27.1562	23.9923209	61.38425
48.7651421	6.428668064	0.0002586	0.79388	1.744351	0.916714	26.92267	23.668512	61.90317
47.5599374	6.240706439	0.0002583	1.002339	1.750822	1.182006	25.36935	22.9764912	60.12892
48.426462	6.851928021	0.0002337	0.660058	1.429078	0.761526	28.87469	25.2268338	61.77714
47.4497568	6.610959628	0.000236	0.791499	1.640218	0.901702	27.23868	24.3396573	60.29339
48.0504289	6.567372182	0.0002418	0.779056	1.676377	0.889742	27.24633	24.1791808	61.03037

2888	488936.61	3858703.33	4.48387	3.43444	2.34888	18.41947	3.59	7.954	3.6288	3.43444
2889	488906.61	3858733.33	4.56838	3.77311	2.12091	12.37953	2.971	5.356	4.1277	3.77311
2890	488936.61	3858733.33	4.46771	3.65485	2.14658	14.68889	3.368	6.235	3.9124	3.65485
2891	488637.63	3858467.85	4.8717	3.00121	4.67958	12.44982	4.197	5.95	3.8779	3.00121
2892	488662.63	3858467.85	4.81104	2.94432	4.52392	14.47803	4.362	7.035	3.6894	2.94432
2893	488637.63	3858492.85	4.84766	3.13855	4.5869	10.9997	3.83	5.378	4.0908	3.13855
2894	488662.63	3858492.85	4.75976	3.05371	4.53209	12.45987	4.05	5.829	3.8923	3.05371
2895	488687.63	3858492.85	4.66388	2.98497	4.45292	14.79623	4.182	6.878	3.7046	2.98497
2896	488637.63	3858517.85	4.8403	3.32168	4.28396	9.62165	3.6	5.08	4.2983	3.32168
2897	488662.63	3858517.85	4.73467	3.23645	4.30879	10.77869	3.722	5.289	4.1092	3.23645
2898	488687.63	3858517.85	4.65269	3.13967	4.24208	12.41945	3.912	5.697	3.906	3.13967
2899	488194.42	3857168.98	2.99924	0.94497	1.53881	3.16474	64.63	2.418	1.5102	0.94497
2900	488244.42	3857168.98	2.93657	0.95554	1.5398	3.04507	59.74	2.372	1.4637	0.95554
2901	488294.42	3857168.98	2.8649	0.96299	1.57571	2.93209	56.57	2.36	1.4317	0.96299
2902	488244.42	3857218.98	2.99256	0.97951	1.52983	3.17331	65.4	2.455	1.5082	0.97951
2903	488294.42	3857218.98	2.94229	0.98772	1.484	3.05777	60.22	2.478	1.4727	0.98772
2904	488294.42	3857268.98	2.99741	1.01323	1.58317	3.18664	62.92	2.557	1.5155	1.01323
2905	488139.13	3857111.68	2.98797	0.91559	1.6451	3.14674	63.09	2.366	1.5055	0.91559
2906	488189.13	3857111.68	2.91557	0.93018	1.59407	3.02441	58.71	2.334	1.4564	0.93018
2907	488189.13	3857161.68	2.99652	0.94223	1.55096	3.15757	64.36	2.413	1.5077	0.94223
2908	487951.04	3856961.26	3.01794	0.8702	1.42495	3.22297	60.46	2.278	1.5251	0.8702
2909	488001.04	3856961.26	2.96551	0.87147	1.4331	3.08536	57.57	2.246	1.4829	0.87147
2910	488051.04	3856961.26	2.91923	0.86303	1.40626	2.97817	54.89	2.208	1.4489	0.86303
2911	488101.04	3856961.26	2.86032	0.88156	1.4198	2.86165	50.8	2.208	1.4024	0.88156
2912	487951.04	3857011.26	3.08668	0.90064	1.48825	3.32831	63.88	2.361	1.5674	0.90064
2913	488001.04	3857011.26	3.02436	0.88349	1.46607	3.22504	63.55	2.299	1.5298	0.88349
2914	488051.04	3857011.26	2.97652	0.87264	1.4879	3.11576	59.36	2.263	1.4915	0.87264
2915	488101.04	3857011.26	2.91907	0.89555	1.70545	2.96702	54.27	2.262	1.444	0.89555
2916	488001.04	3857061.26	3.08434	0.9037	1.47631	3.34142	65.27	2.371	1.5762	0.9037
2917	488051.04	3857061.26	3.02806	0.9014	1.53341	3.22072	64.13	2.34	1.5316	0.9014
2918	488101.04	3857061.26	2.96807	0.90695	1.71083	3.10497	59.18	2.318	1.4868	0.90695
2919	487638.98	3856673.79	3.15287	0.7054	1.70065	3.16077	16.35	2.106	1.4976	0.7054
2920	487688.98	3856673.79	3.08408	0.70968	1.67257	3.05056	18.92	2.07	1.4608	0.70968
2921	487638.98	3856723.79	3.19591	0.72467	1.74524	3.3271	23.2	2.179	1.5464	0.72467
2922	487688.98	3856723.79	3.10745	0.72687	1.74289	3.1842	25.02	2.139	1.5057	0.72687
2923	486324.61	3855740.57	3.83135	0.50017	3.53541	3.25833	0.989	1.82	1.4552	0.50017
2924	486374.61	3855740.57	3.83846	0.48277	3.18078	2.97039	1.008	1.674	1.3299	0.48277
2925	486424.61	3855740.57	3.7984	0.47165	3.12755	2.79233	0.923	1.62	1.2829	0.47165
2926	486324.61	3855790.57	3.94213	0.50501	3.55892	3.45671	1.044	1.879	1.5022	0.50501
2927	486374.61	3855790.57	3.93379	0.48993	3.43445	3.09414	1.039	1.752	1.3582	0.48993
2928	486424.61	3855790.57	3.86028	0.48252	3.34256	3.01297	1.067	1.694	1.3405	0.48252
2929	486324.61	3855840.57	4.05536	0.54561	3.82051	3.6903	1.091	1.947	1.5265	0.54561
2930	486374.61	3855840.57	3.99338	0.5128	3.77433	3.51655	1.105	1.89	1.4853	0.5128
2931	486424.61	3855840.57	3.93988	0.49814	3.63406	3.24457	1.094	1.791	1.4251	0.49814
2932	486324.61	3855890.57	4.0973	0.59436	3.75412	4.19987	1.16	2.128	1.6605	0.59436
2933	486374.61	3855890.57	4.04796	0.57364	3.59691	3.93328	1.163	2.031	1.5805	0.57364
2934	486424.61	3855890.57	4.02146	0.53382	3.49892	3.66089	1.169	1.926	1.495	0.53382
2935	488735.69	3858285.64	4.72156	2.10317	4.67453	8.06243	8.916	6.527	2.4791	2.10317
2936	488765.69	3858285.64	4.63418	2.05247	4.59124	7.57036	8.604	6.271	2.4088	2.05247
2937	488735.69	3858315.64	4.8036	2.2184	4.47908	8.72538	8.659	6.876	2.5678	2.2184
2938	488765.69	3858315.64	4.70305	2.16882	4.39847	8.0719	8.322	6.598	2.4894	2.16882
2939	478676.63	3849871.93	0.40331	2.51566	0.05532	0.07881	0.131	0.086	2.5407	2.51566
2940	479326.63	3849871.93	0.39183	1.54183	0.05487	0.07955	0.112	0.082	1.5509	1.54183
2941	479376.63	3849871.93	0.39279	1.48867	0.05435	0.0771	0.113	0.082	1.4996	1.48867
2942	479426.63	3849871.93	0.38686	1.4632	0.05379	0.0751	0.114	0.082	1.4739	1.4632
2943	478726.63	3849921.93	0.41613	2.57936	0.05566	0.08006	0.132	0.087	2.5978	2.57936
2944	478776.63	3849921.93	0.40536	2.49719	0.05471	0.0782	0.13	0.092	2.5105	2.49719
2945	478826.63	3849921.93	0.39909	2.42478	0.05378	0.07752	0.128	0.094	2.4414	2.42478
2946	478976.63	3849921.93	0.39257	2.19102	0.05464	0.07385	0.126	0.09	2.1996	2.19102

46.783665	6.343155406	0.0002445	0.970229	1.683546	1.11897	25.71107	23.3536789	59.25721
47.6654228	6.968653723	0.0002208	0.65208	1.393032	0.753503	29.24603	25.6565843	61.02236
46.6150553	6.750236293	0.0002235	0.773724	1.57932	0.87712	27.72069	24.852434	59.46394
50.8301937	5.543011797	0.0004872	0.655783	1.968279	0.836963	27.47611	20.4077797	66.90305
50.1972813	5.437940195	0.000471	0.762617	2.045637	0.989683	26.14073	20.0209362	65.55342
50.5793659	5.796668569	0.0004775	0.579399	1.795998	0.756536	28.98508	21.3416711	67.15185
49.6622376	5.639975395	0.0004718	0.656312	1.899071	0.820005	27.57849	20.7647718	65.49179
48.6618478	5.513017724	0.0004636	0.779378	1.960936	0.967595	26.24843	20.2973501	63.83431
50.5025734	6.134896067	0.000446	0.506812	1.68794	0.714682	30.45494	22.5869278	67.41536
49.4004543	5.977482592	0.0004486	0.567758	1.745284	0.744026	29.11516	22.0073765	65.54324
48.5450939	5.798737125	0.0004416	0.654183	1.83437	0.801441	27.67549	21.349287	63.96047
31.2933781	1.745289353	0.0001602	0.1667	30.30673	0.340085	10.70017	6.42565483	68.12685
30.6394938	1.764811357	0.0001603	0.160396	28.01247	0.333724	10.37084	6.49752925	64.78437
29.8917056	1.778570953	0.000164	0.154445	26.52526	0.331926	10.14439	6.54818814	62.27828
31.2236806	1.809082165	0.0001593	0.167151	30.66661	0.345427	10.68593	6.66052167	68.23751
30.699175	1.824245425	0.0001545	0.161065	28.23985	0.348638	10.43426	6.71634845	64.99103
31.2742843	1.871360499	0.0001648	0.167853	29.5035	0.359645	10.73786	6.88981264	67.02486
31.1757896	1.691026676	0.0001713	0.165752	29.58362	0.33287	10.66708	6.22587522	67.39044
30.4203847	1.717973322	0.000166	0.159308	27.5304	0.328367	10.31919	6.32508504	64.1507
31.2649983	1.740228776	0.0001615	0.166322	30.18101	0.339392	10.68281	6.40702324	67.9679
31.4884896	1.60719472	0.0001483	0.169767	28.34975	0.320441	10.80581	5.91723	66.82437
30.9414471	1.609540316	0.0001492	0.162518	26.9969	0.315887	10.50709	5.92586581	64.60767
30.4585723	1.593952263	0.0001464	0.156872	25.74028	0.310637	10.26598	5.86847507	62.65797
29.8439189	1.628175796	0.0001478	0.150735	23.81883	0.31066	9.936652	5.99447631	59.69464
32.2057069	1.663415137	0.0001549	0.175316	29.95605	0.332119	11.10574	6.12421746	69.31428
31.5554744	1.631740362	0.0001526	0.169876	29.79908	0.323474	10.83883	6.00760002	68.31103
31.0563229	1.611701219	0.0001549	0.16412	27.83409	0.3184	10.56789	5.93382164	65.61885
30.4569029	1.654014286	0.0001775	0.156285	25.44687	0.318152	10.23133	6.08960622	62.17413
32.1812919	1.66906673	0.0001537	0.176006	30.60777	0.333587	11.16787	6.145025	69.99072
31.5940794	1.664818801	0.0001596	0.169648	30.0725	0.329214	10.85194	6.12938534	68.55298
30.9681575	1.675069238	0.0001781	0.163551	27.74836	0.326064	10.53444	6.16712451	65.2487
32.8963181	1.302821369	0.000177	0.166491	7.664545	0.296332	10.61075	4.79661462	48.14082
32.1785791	1.310726211	0.0001741	0.160685	8.870521	0.291131	10.35058	4.82571798	48.33668
33.3453875	1.338411627	0.0001817	0.175252	10.87813	0.306593	10.95645	4.92764774	52.07276
32.4224163	1.342474863	0.0001814	0.167725	11.73275	0.300873	10.66836	4.94260741	51.69217
39.9754219	0.923776813	0.0003681	0.17163	0.463574	0.255999	10.31026	3.40108128	48.69995
40.049606	0.891640307	0.0003311	0.156463	0.472699	0.235493	9.42268	3.28276388	47.94615
39.6316292	0.871102493	0.0003256	0.147083	0.432925	0.227899	9.089739	3.20714954	47.19355
41.1312748	0.932715934	0.0003705	0.182079	0.489444	0.264387	10.64384	3.43399256	50.21012
41.0442572	0.904864295	0.0003575	0.162981	0.487094	0.246482	9.623337	3.33145081	49.13792
40.2772708	0.891178575	0.000348	0.158705	0.500482	0.23836	9.497855	3.28106392	48.28314
42.3126905	1.007701116	0.0003977	0.194383	0.511821	0.273862	10.81594	3.71006649	51.40673
41.6660055	0.947103485	0.0003929	0.185231	0.518203	0.265814	10.52417	3.48696339	50.61996
41.1077989	0.920027554	0.0003783	0.170905	0.512852	0.251928	10.09714	3.38727758	49.67375
42.7502828	1.097738743	0.0003908	0.221224	0.544171	0.299298	11.76545	4.04155921	52.637
42.2354806	1.059470443	0.0003745	0.207182	0.545395	0.28571	11.19863	3.90066631	51.63157
41.9589858	0.985925862	0.0003643	0.192834	0.54834	0.270991	10.5929	3.62989625	50.92044
49.2636676	3.884398666	0.0004866	0.424681	4.180959	0.918189	17.5656	14.3012418	61.93674
48.3519649	3.790759535	0.000478	0.398762	4.034773	0.882213	17.0675	13.9564894	60.56996
50.1196541	4.097219911	0.0004663	0.459601	4.06046	0.967317	18.19365	15.0847886	62.81358
49.0705386	4.005649336	0.0004579	0.42518	3.902181	0.928173	17.63837	14.747652	61.2229
4.20804348	4.646237037	5.759E-06	0.004151	0.061213	0.012092	18.00142	17.1061122	9.827052
4.08826381	2.847645409	5.712E-06	0.00419	0.05273	0.011596	10.98833	10.4842137	7.508549
4.09828023	2.749462841	5.658E-06	0.004061	0.052969	0.011538	10.62499	10.1227336	7.418578
4.03640798	2.702421644	5.6E-06	0.003956	0.05363	0.011475	10.4429	9.94954142	7.301256
4.34180441	4.763886202	5.795E-06	0.004217	0.061827	0.012304	18.406	17.5392627	10.05078
4.22943271	4.612124319	5.696E-06	0.004119	0.060767	0.012977	17.78787	16.980519	9.726777
4.16401298	4.478388432	5.599E-06	0.004083	0.060209	0.013157	17.29834	16.4881418	9.530057
4.0959848	4.046651086	5.688E-06	0.00389	0.058859	0.012647	15.58517	14.8986087	8.904601

2947	479026.63	3849921.93	0.38927	2.13799	0.05512	0.0747	0.124	0.089	2.145	2.13799	4.06155336	3.948708618	5.738E-06	0.003935	0.058362	0.012578	15.19789	14.5380126	8.745016
2948	479076.63	3849921.93	0.38543	2.08613	0.05563	0.07541	0.122	0.087	2.0915	2.08613	4.02148769	3.852927053	5.791E-06	0.003972	0.057321	0.012223	14.81875	14.1853724	8.581313
2949	479126.63	3849921.93	0.38598	2.04928	0.05608	0.07513	0.12	0.085	2.0536	2.04928	4.02722626	3.784867842	5.838E-06	0.003957	0.056214	0.011949	14.55043	13.9347979	8.499849
2950	479176.63	3849921.93	0.3841	1.98838	0.05651	0.07437	0.117	0.085	1.9943	1.98838	4.00761078	3.672390068	5.883E-06	0.003917	0.055065	0.012	14.13026	13.520687	8.360566
2951	479226.63	3849921.93	0.39068	1.87159	0.05669	0.07433	0.117	0.084	1.8728	1.87159	4.07626498	3.456687619	5.902E-06	0.003915	0.054831	0.011874	13.26918	12.7265324	8.146227
2952	479276.63	3849921.93	0.40086	1.67014	0.05618	0.07552	0.116	0.084	1.7078	1.67014	4.18248075	3.084624442	5.849E-06	0.003978	0.054545	0.011752	12.10002	11.3567025	8.080708
2953	479326.63	3849921.93	0.39052	1.76536	0.05561	0.07945	0.115	0.083	1.7593	1.76536	4.07459557	3.260488705	5.789E-06	0.004185	0.054024	0.011677	12.46499	12.0041843	7.865784
2954	479376.63	3849921.93	0.40127	1.58499	0.05509	0.08016	0.114	0.083	1.5859	1.58499	4.18675859	2.927358721	5.735E-06	0.004222	0.053227	0.01163	11.2366	10.7776952	7.64211
2955	479426.63	3849921.93	0.39816	1.60069	0.05455	0.07825	0.113	0.082	1.6144	1.60069	4.15430957	2.956355454	5.679E-06	0.004122	0.053199	0.011569	11.43861	10.8844529	7.733714
2956	478726.63	3849971.93	0.42768	2.82344	0.05627	0.08258	0.134	0.084	2.7832	2.82344	4.46231444	5.21468382	5.858E-06	0.00435	0.063023	0.011852	19.72026	19.1989702	10.27752
2957	478776.63	3849971.93	0.4205	2.69432	0.05601	0.08108	0.133	0.089	2.6854	2.69432	4.38739998	4.976208777	5.831E-06	0.004271	0.062329	0.012502	19.02703	18.3209735	10.14877
2958	478826.63	3849971.93	0.41366	2.59547	0.05506	0.07915	0.131	0.094	2.602	2.59547	4.316033	4.793640175	5.732E-06	0.004169	0.061269	0.013186	18.43618	17.6488083	9.975674
2959	478976.63	3849971.93	0.40181	2.35279	0.05451	0.07431	0.128	0.092	2.3604	2.35279	4.19239283	4.345428252	5.675E-06	0.003914	0.0599	0.012942	16.72421	15.9986205	9.340177
2960	479026.63	3849971.93	0.40238	2.28994	0.05506	0.07454	0.127	0.091	2.2954	2.28994	4.19834008	4.229348974	5.732E-06	0.003926	0.05936	0.012801	16.26381	15.5712499	9.196341
2961	479076.63	3849971.93	0.40025	2.20339	0.05553	0.07525	0.126	0.09	2.2016	2.20339	4.17611615	4.069497557	5.781E-06	0.003964	0.058896	0.012728	15.59892	14.9827228	8.937403
2962	479126.63	3849971.93	0.39542	2.14567	0.05606	0.07627	0.123	0.088	2.1381	2.14567	4.12572104	3.962893007	5.836E-06	0.004017	0.057893	0.012389	15.14942	14.5902355	8.722106
2963	479176.63	3849971.93	0.39765	2.10318	0.05652	0.07624	0.121	0.086	2.1058	2.10318	4.14898835	3.884417135	5.884E-06	0.004016	0.056795	0.012066	14.92049	14.3013098	8.725473
2964	479226.63	3849971.93	0.41338	1.9086	0.05694	0.07371	0.119	0.086	1.9174	1.9086	4.31311154	3.525042338	5.928E-06	0.003883	0.055619	0.012071	13.58561	12.9781949	8.51715
2965	479276.63	3849971.93	0.40119	1.93992	0.05694	0.07498	0.117	0.085	1.9433	1.93992	4.18592389	3.58288805	5.928E-06	0.00395	0.05499	0.011946	13.76912	13.1911662	8.417661
2966	479326.63	3849971.93	0.39136	1.92196	0.05641	0.0771	0.117	0.084	1.9319	1.92196	4.08335994	3.549717265	5.873E-06	0.004061	0.055084	0.011821	13.68785	13.0690409	8.322863
2967	479376.63	3849971.93	0.40722	1.74802	0.05583	0.07979	0.116	0.083	1.7564	1.74802	4.24883952	3.228463014	5.812E-06	0.004203	0.054413	0.011715	12.44459	11.8862749	8.105951
2968	479426.63	3849971.93	0.40313	1.70581	0.0553	0.08083	0.115	0.083	1.7178	1.70581	4.2061654	3.150504281	5.757E-06	0.004258	0.053762	0.011661	12.17116	11.5992532	7.998264
2969	478726.63	3850021.93	0.45955	2.99599	0.05698	0.08543	0.135	0.082	3.0011	2.99599	4.79483867	5.533370845	5.932E-06	0.0045	0.063445	0.011486	21.26366	20.3722844	11.29903
2970	478776.63	3850021.93	0.44663	2.91038	0.05695	0.08363	0.135	0.086	2.8748	2.91038	4.66003437	5.375255538	5.929E-06	0.004405	0.063412	0.012035	20.36892	19.7901492	10.69392
2971	478826.63	3850021.93	0.43521	2.79108	0.05637	0.08208	0.134	0.09	2.7767	2.79108	4.54088072	5.154917305	5.868E-06	0.004323	0.062943	0.012703	19.67357	18.978927	10.47041
2972	478976.63	3850021.93	0.41992	2.51373	0.05447	0.07759	0.13	0.094	2.5147	2.51373	4.38134839	4.64267247	5.671E-06	0.004087	0.060899	0.013216	17.81756	17.0929885	9.826797
2973	478726.63	3850071.93	0.5038	3.23003	0.05764	0.08838	0.142	0.081	3.2371	3.23003	5.25653296	5.965625329	6.001E-06	0.004655	0.066479	0.011388	22.93595	21.9637215	12.27692
2974	478776.63	3850071.93	0.48713	3.10808	0.05736	0.08659	0.136	0.082	3.1164	3.10808	5.08260202	5.740392743	5.972E-06	0.004561	0.063843	0.011592	22.08054	21.1344797	11.84905
2975	478826.63	3850071.93	0.47551	2.9988	0.05755	0.08492	0.136	0.087	3.0168	2.9988	4.96136162	5.538560706	5.991E-06	0.004473	0.063773	0.01223	21.37526	20.391392	11.56427
2976	478876.63	3850071.93	0.46207	2.89251	0.05673	0.08338	0.136	0.092	2.9017	2.89251	4.82113177	5.342250976	5.906E-06	0.004392	0.063637	0.012917	20.5598	19.6686359	11.1355
2977	478976.63	3850071.93	0.44654	2.6825	0.05496	0.07989	0.132	0.096	2.666	2.6825	4.65909533	4.954378116	5.722E-06	0.004208	0.061775	0.013471	18.88957	18.2405993	10.34191
2978	478726.63	3850121.93	0.56017	3.56462	0.05838	0.08969	0.15	0.081	3.5789	3.56462	5.84468453	6.58358819	6.078E-06	0.004724	0.070474	0.011374	25.35787	24.2388835	13.63384
2979	478776.63	3850121.93	0.53766	3.3537	0.05803	0.08935	0.148	0.082	3.3612	3.3537	5.60982038	6.194034627	6.041E-06	0.004706	0.069602	0.011499	23.81517	22.804659	12.90018
2980	478826.63	3850121.93	0.52033	3.21994	0.05773	0.08798	0.14	0.084	3.2191	3.21994	5.42900316	5.946989849	6.01E-06	0.004634	0.06585	0.011775	22.8082	21.895111	12.37135
2981	478876.63	3850121.93	0.51153	3.11011	0.058	0.08634	0.137	0.088	3.1174	3.11011	5.33718599	5.744142003	6.038E-06	0.004548	0.06419	0.012429	22.08755	21.1482834	12.10177
2982	478976.63	3850121.93	0.48551	2.87848	0.05611	0.0828	0.135	0.098	2.8977	2.87848	5.06569932	5.316338609	5.841E-06	0.004361	0.063468	0.01372	20.53104	19.573234	11.4214
2983	479026.63	3850121.93	0.4641	2.77188	0.05542	0.08092	0.133	0.096	2.7747	2.77188	4.84231232	5.119456332	5.77E-06	0.004262	0.06231	0.013572	19.65982	18.8483699	10.85337
2984	479076.63	3850121.93	0.46036	2.68246	0.05536	0.07994	0.132	0.095	2.6656	2.68246	4.80329002	4.954304239	5.763E-06	0.004211	0.061841	0.013411	18.88638	18.2403273	10.48312
2985	479126.63	3850121.93	0.44996	2.59792	0.05582	0.07734	0.132	0.095	2.5824	2.59792	4.69477882	4.798165142	5.811E-06	0.004074	0.06171	0.013347	18.29724	17.6654679	10.20385
2986	478776.63	3850171.93	0.61038	3.775	0.05882	0.09086	0.152	0.081	3.782	3.775	6.36856409	6.972144413	6.124E-06	0.004786	0.071088	0.01144	26.79698	25.6694361	14.55557
2987	478826.63	3850171.93	0.58684	3.61393	0.05841	0.09028	0.15	0.082	3.622	3.61393	6.12295316	6.674660095	6.081E-06	0.004755	0.070291	0.011603	25.66339	24.5741841	13.97347
2988	478876.63	3850171.93	0.56306	3.40113	0.05812	0.08936	0.147	0.085	3.392	3.40113	5.87483812	6.281634312	6.051E-06	0.004707	0.068744	0.011957	24.03333	23.1271759	13.14804
2989	478976.63	3850171.93	0.52482	3.09737	0.05757	0.08605	0.138	0.095	3.1104	3.09737	5.47585079	5.720612169	5.993E-06	0.004533	0.064519	0.013375	22.03845	21.0616533	12.25569
2990	479026.63	3850171.93	0.51216	2.98008	0.05647	0.08416	0.137	0.098	2.9966	2.98008	5.34375927	5.503986257	5.879E-06	0.004433	0.064195	0.013833	21.23206	20.2640988	11.89818
2991	479076.63	3850171.93	0.50401	2.86887	0.05589	0.08203	0.134	0.097	2.8815	2.86887	5.25872405	5.298589653	5.818E-06	0.004321	0.063041	0.013675	20.41625	19.5078874	11.54672
2992	479126.63	3850171.93	0.48861	2.77279	0.05582	0.08075	0.133	0.096	2.7872	2.77279	5.098044	5.121137035	5.811E-06	0.004253	0.062329	0.013512	19.74818	18.8545578	11.1929
2993	479176.63	3850171.93	0.46993	2.68089	0.05627	0.0786	0.133	0.096	2.6824	2.68089	4.90314119	4.951404565	5.858E-06	0.00414	0.062207	0.013502	19.00577	18.2296515	10.71052
2994	479226.63	3850171.93	0.45558	2.59491	0.05685	0.07779	0.132	0.096	2.5855	2.59491	4.7534166	4.792605896	5.918E-06	0.004098	0.061682	0.01345	18.3192	17.6450004	10.29946
2995	479276.63	3850171.93	0.45373	2.52182	0.05738	0.07858	0.13	0.094	2.5091	2.52182	4.73411413	4.657614099	5.974E-06	0.004139	0.060992	0.013263	17.7776	17.1479993	10.09972
2996	479326.63	3850171.93	0.44723	2.45976	0.05787	0.08032	0.129	0.092	2.4557	2.45976	4.66629463	4.542993892	6.025E-06	0.004231	0.060341	0.012984	17.39973	16.7260005	9.960583
2997	479376.63	3850171.93	0.44222	2.38294	0.05833	0.07981	0.126	0.09	2.3626	2.38294	4.61402145	4.401113061	6.073E-06	0.004204	0.059229	0.012624	16.73973	16.203636	9.627294
2998	478676.63	3850221.93	0.76851	4.95147	0.05828	0.10161	0.158	0.082	4.9428	4.95147	8.01845602	9.144997058	6.067E-06	0.005352	0.074014	0.011524	35.02117	33.6692563	18.60626
2999	478726.63	3850221.93	0.72227	4.50059	0.05862	0.09857	0.156	0.082	4.4987	4.50059	7.53599853	8.312255211	6.103E-06	0.005192	0.073306	0.011466	31.8747	30.6033397	17.20958
3000	478976.63	3850221.93	0.57647	3.4348	0.05885	0.08928	0.148	0.092	3.4446	3.4348	6.01475497	6.343820299	6.127E-06	0.004703	0.069592	0.012876	24.40595	23.3561269	13.49558
3001	479026.63	3850221.93	0.56032	3.22668	0.05799	0.08742	0.141	0.097	3.2506	3.22668	5.8462496	5.959438128	6.037E-06	0.004605	0.066315	0.013623	23.03146	21.940942	12.98076
3002	479076.63	3850221.93	0.54072	3.09217	0.05683	0.08539	0.138	0.099	3.1179	3.09217	5.64174772	5.711008156	5.916E-06	0.004498	0.064781	0.013938	22.09123	21.0262941	12.50092
3003	479126.63	3850221.93	0.52871	2.98338	0.05637	0.08298	0.137	0.098	3.0075	2.98338	5.51643815	5.510081112	5.868E-06	0.004371	0.064064	0.013788	21.30936	20.2865383	12.13157
3004	479176.63	3850221.93	0.51294	2.8603	0.05629	0.08166	0.134	0.097	2.8825	2.8603	5.35189761	5.2827615	5.86E-06	0.004301	0.062849	0.013627	20.42377	19.4496127	11.6896
3005	479226.63	3850221.93	0.49478	2.7547	0.05674	0.07961	0.134	0.097	2.762	2.7547	5.16242036	5.087726149	5.907E-06	0.004193	0.062727	0.013674	19.56941	18.7315485	11.16861

3006	479276.63	3850221.93	0.48553	2.64877	0.05732	0.07844	0.133	0.097	2.666	2.64877	5.06590799	4.892081313	5.967E-06	0.004132	0.062366	0.013622	18.88957	18.0112403	10.91645
3007	479326.63	3850221.93	0.47245	2.59199	0.05784	0.07914	0.131	0.095	2.585	2.59199	4.92943429	4.787212873	6.021E-06	0.004169	0.061503	0.013375	18.31552	17.6251448	10.48607
3008	479376.63	3850221.93	0.48116	2.51921	0.05835	0.08089	0.13	0.093	2.5191	2.51921	5.02031242	4.652793623	6.075E-06	0.004261	0.060955	0.013093	17.84852	17.1302517	10.46969
3009	478676.63	3850271.93	0.98456	5.96753	0.05943	0.10482	0.16	0.084	5.9173	5.96753	10.2726719	11.02158436	6.187E-06	0.005521	0.075022	0.011776	41.92613	40.5783125	22.7344
3010	478726.63	3850271.93	0.88472	5.33321	0.0587	0.10328	0.159	0.083	5.3238	5.33321	9.23096435	9.850042464	6.111E-06	0.00544	0.07461	0.011651	37.7209	36.2650313	20.62858
3011	478976.63	3850271.93	0.64773	3.82761	0.05891	0.09219	0.151	0.088	3.835	3.82761	6.75826537	7.069311172	6.133E-06	0.004856	0.070807	0.012372	27.17208	26.0271762	15.06052
3012	479026.63	3850271.93	0.60899	3.65251	0.05924	0.09062	0.15	0.093	3.6552	3.65251	6.35406115	6.745914487	6.167E-06	0.004773	0.070352	0.0131	25.89834	24.8365224	14.25002
3013	479076.63	3850271.93	0.59274	3.48608	0.05839	0.08868	0.147	0.099	3.5046	3.48608	6.1845124	6.438530648	6.079E-06	0.004671	0.068823	0.013858	24.83121	23.7048232	13.83679
3014	479126.63	3850271.93	0.57252	3.24995	0.0572	0.0867	0.142	0.1	3.2881	3.24995	5.97354158	6.002416089	5.955E-06	0.004567	0.066572	0.014042	23.29709	22.0991745	13.25906
3015	479176.63	3850271.93	0.54801	3.09611	0.05686	0.08421	0.138	0.099	3.1238	3.09611	5.7178099	5.718285043	5.919E-06	0.004436	0.0648	0.01389	22.1329	21.0530855	12.59904
3016	479226.63	3850271.93	0.53886	2.95834	0.05677	0.0826	0.135	0.098	2.9784	2.95834	5.62234091	5.463834093	5.91E-06	0.004351	0.063421	0.013759	21.10283	20.1162701	12.15427
3017	479276.63	3850271.93	0.52443	2.8488	0.05722	0.08064	0.135	0.098	2.8579	2.8488	5.47178162	5.261521855	5.957E-06	0.004248	0.063238	0.013826	20.24918	19.3714144	11.69239
3018	479326.63	3850271.93	0.53572	2.76533	0.0578	0.07912	0.134	0.098	2.7833	2.76533	5.58957887	5.107358969	6.017E-06	0.004168	0.062962	0.013785	19.72068	18.8038309	11.69471
3019	479376.63	3850271.93	0.53284	2.691	0.05832	0.07971	0.133	0.096	2.6865	2.691	5.55952962	4.970076984	6.071E-06	0.004199	0.062212	0.013491	19.03475	18.298398	11.34587
3020	479053.24	3850293.52	0.63004	3.70227	0.05931	0.09107	0.15	0.094	3.7068	3.70227	6.57369199	6.837817509	6.175E-06	0.004797	0.070568	0.013276	26.2638	25.1748829	14.58908
3021	479103.24	3850293.52	0.60616	3.54107	0.05849	0.08911	0.147	0.1	3.5607	3.54107	6.32453358	6.54009309	6.089E-06	0.004694	0.069081	0.014046	25.2287	24.078747	14.10241
3022	479153.24	3850293.52	0.58341	3.33327	0.05731	0.08694	0.144	0.1	3.3732	3.33327	6.08716533	6.156301936	5.966E-06	0.004579	0.067515	0.014072	23.90048	22.665738	13.56438
3023	479203.24	3850293.52	0.56798	3.14171	0.05707	0.08444	0.139	0.099	3.1647	3.14171	5.92617227	5.802504854	5.941E-06	0.004448	0.0651	0.013918	22.42297	21.3631587	12.87196
3024	479253.24	3850293.52	0.54712	3.00604	0.05703	0.08288	0.136	0.098	3.0212	3.00604	5.70852384	5.551932448	5.937E-06	0.004366	0.063609	0.01383	21.40658	20.4406229	12.30822
3025	479303.24	3850293.52	0.56591	2.89759	0.05748	0.08084	0.135	0.099	2.9019	2.89759	5.90457437	5.351633359	5.984E-06	0.004258	0.063435	0.013895	20.5608	19.7031791	12.19542
3026	479353.24	3850293.52	0.5642	2.81401	0.05805	0.07941	0.135	0.098	2.8238	2.81401	5.88673262	5.197267311	6.043E-06	0.004183	0.063145	0.013807	20.00764	19.1348476	12.03794
3027	479153.24	3850343.52	0.64331	3.69253	0.0589	0.09045	0.149	0.102	3.7236	3.69253	6.71214811	6.819828453	6.132E-06	0.004764	0.070099	0.014295	26.38333	25.1086524	14.89582
3028	479203.24	3850343.52	0.62868	3.53074	0.05781	0.08811	0.146	0.101	3.5592	3.53074	6.55950206	6.521014348	6.018E-06	0.004641	0.068453	0.014179	25.21786	24.0085046	14.37715
3029	479253.24	3850343.52	0.65631	3.36219	0.05757	0.08557	0.142	0.1	3.39	3.36219	6.84778711	6.209715026	5.993E-06	0.004507	0.066727	0.014018	24.01909	22.8623897	14.29946
3030	479303.24	3850343.52	0.6525	3.17806	0.05752	0.08382	0.138	0.099	3.1865	3.17806	6.80803445	5.869640602	5.988E-06	0.004415	0.064505	0.013973	22.57715	21.6103332	13.72739
3031	479353.24	3850343.52	0.6461	3.04579	0.05796	0.08196	0.136	0.1	3.0525	3.04579	6.74125832	5.625347743	6.034E-06	0.004317	0.063928	0.014041	21.62821	20.710917	13.36619
3032	479203.24	3850393.52	0.78101	3.89008	0.05932	0.09166	0.152	0.103	3.9076	3.89008	8.14887814	7.184688619	6.176E-06	0.004828	0.07113	0.014428	27.68669	26.4519629	16.65868
3033	479253.24	3850393.52	0.77322	3.72377	0.0583	0.08929	0.148	0.102	3.758	3.72377	8.06759907	6.877526411	6.069E-06	0.004703	0.069353	0.01428	26.62693	25.3210797	16.33932
3034	479303.24	3850393.52	0.75538	3.56471	0.05807	0.08672	0.144	0.1	3.5883	3.56471	7.88146063	6.583754413	6.045E-06	0.004568	0.067665	0.014117	25.42412	24.2394955	15.73619
3035	479353.24	3850393.52	0.76031	3.40087	0.05802	0.08479	0.14	0.1	3.4209	3.40087	7.93289911	6.281154111	6.04E-06	0.004466	0.065686	0.014121	24.23845	23.125408	15.41138
3036	479403.24	3850393.52	0.74573	3.21177	0.05846	0.08313	0.137	0.101	3.2328	3.21177	7.78077476	5.931900466	6.086E-06	0.004379	0.064429	0.014191	22.90541	21.8395562	14.86154
3037	479453.24	3850393.52	0.72679	3.04257	0.05904	0.0812	0.137	0.1	3.0642	3.04257	7.58315917	5.619400643	6.146E-06	0.004277	0.064218	0.014055	21.71103	20.6890215	14.30713
3038	479503.24	3850393.52	0.71081	2.89287	0.05959	0.08163	0.136	0.098	2.9043	2.89287	7.41642753	5.342915869	6.204E-06	0.0043	0.063585	0.013747	20.57808	19.6710838	13.74798
3039	479303.24	3850443.52	1.0758	3.97464	0.0588	0.09051	0.15	0.102	3.9892	3.97464	11.224649	7.340864654	6.121E-06	0.004768	0.070239	0.01438	28.26506	27.0269582	19.89301
3040	479353.24	3850443.52	1.0345	3.77068	0.05859	0.08791	0.146	0.101	3.787	3.77068	10.7937343	6.964165694	6.1E-06	0.004631	0.068589	0.014212	26.83205	25.6400607	19.03733
3041	479403.24	3850443.52	0.99144	3.57097	0.05852	0.08577	0.142	0.101	3.5865	3.57097	10.3444562	6.595316168	6.092E-06	0.004518	0.066605	0.014266	25.41143	24.2820625	18.15454
3042	479453.24	3850443.52	0.93506	3.39225	0.05899	0.08439	0.138	0.102	3.3989	3.39225	9.75620029	6.265233612	6.141E-06	0.004445	0.064908	0.014336	24.0825	23.0667932	17.12084
3043	479503.24	3850443.52	0.8952	3.16685	0.05955	0.08212	0.138	0.101	3.1709	3.16685	9.34031025	5.848936565	6.2E-06	0.004326	0.06473	0.014183	22.46711	21.5341069	16.2055
3044	480327.18	3850987.04	0.88885	4.3912	0.06209	0.09243	0.147	0.102	4.4276	4.3912	9.27405581	8.110220012	6.464E-06	0.004869	0.068805	0.014298	31.37086	29.859504	18.98361
3045	480377.18	3850987.04	0.82137	4.15022	0.06234	0.09455	0.144	0.097	4.18	4.15022	8.56998506	7.665147863	6.49E-06	0.00498	0.067735	0.013665	29.61688	28.220876	17.71752
3046	480427.18	3850987.04	0.79355	3.88859	0.06259	0.09474	0.142	0.095	3.9072	3.88859	8.2797176	7.1819367	6.516E-06	0.00499	0.066568	0.013361	27.68364	26.4418311	16.78839
3047	480477.18	3850987.04	0.78195	3.65578	0.06332	0.09666	0.138	0.094	3.6588	3.65578	8.15868588	6.751953934	6.592E-06	0.005091	0.064687	0.013195	25.92413	24.8587579	16.05899
3048	480327.18	3851037.04	0.96618	5.03306	0.0631	0.09372	0.15	0.109	5.0611	5.03306	10.0808992	9.295687724	6.569E-06	0.004937	0.070249	0.015294	35.85944	34.2240561	21.10245
3049	480377.18	3851037.04	0.89328	4.74382	0.06248	0.09333	0.148	0.103	4.7692	4.74382	9.32027741	8.761482943	6.505E-06	0.004916	0.069494	0.014535	33.79136	32.2572673	19.70481
3050	480427.18	3851037.04	0.84259	4.47651	0.06287	0.09547	0.146	0.099	4.4933	4.47651	8.79138965	8.267781241	6.545E-06	0.005029	0.068462	0.013868	31.83672	30.4395993	18.54366
3051	480477.18	3851037.04	0.78923	4.15362	0.0634	0.09622	0.144	0.096	4.1745	4.15362	8.23464372	7.671427411	6.6E-06	0.005068	0.067332	0.013498	29.57784	28.2439955	17.32582
3052	480622.06	3851087.39	0.74764	3.89248	0.06571	0.10272	0.139	0.097	3.9143	3.89248	7.80070326	7.189121241	6.841E-06	0.005411	0.065011	0.013615	27.73402	26.4682825	16.3396
3053	480672.06	3851087.39	0.72508	3.59736	0.06564	0.10551	0.135	0.098	3.6273	3.59736	7.56531742	6.644056536	6.834E-06	0.005558	0.063464	0.013717	25.70073	24.4615106	15.53134
3054	480622.06	3851137.39	0.82199	4.50682	0.06618	0.101	0.144	0.098	4.5515	4.50682	8.576454	8.323761558	6.89E-06	0.00532	0.067707	0.01372	32.24909	30.6457027	18.59036
3055	480672.06	3851137.39	0.76389	4.19717	0.06653	0.10409	0.141	0.098	4.2411	4.19717	7.97025201	7.751861024	6.926E-06	0.005483	0.065893	0.013851	30.05001	28.540129	17.31722
3056	480722.06	3851137.39	0.72849	3.90473	0.06711	0.10695	0.137	0.099	3.9485	3.90473	7.60089657	7.21174608	6.987E-06	0.005633	0.064233	0.013979	27.97641	26.5515807	16.32132
3057	480622.06	3851187.39	0.92919	5.30545	0.06596	0.10009	0.149	0.1	5.3607	5.30545	9.69495407	9.798771808	6.867E-06	0.005272	0.069649	0.014021	37.98249	36.0762674	21.4889
3058	480672.06	3851187.39	0.87579	4.85246	0.06734	0.10235	0.146	0.099	4.8937	4.85246	9.13779079	8.962132948	7.011E-06	0.005391	0.068467	0.013909	34.67391	32.9960031	19.86561
3059	480722.06	3851187.39	0.80954	4.5369	0.06736	0.10544	0.142	0.1	4.5844	4.5369	8.44655357	8.379317082	7.013E-06	0.005554	0.066737	0.014051	32.48206	30.8502422	18.54403
3060	471363.09	3845877.25	0.10798	0.22169	0.03895	0.06542	0.086	0.066	0.2198	0.22169	1.12663841	0.409444952	4.055E-06	0.003446	0.040285	0.0093	1.557504	1.50745888	1.639163
3061	471863.09	3845877.25	0.0982	0.1772	0.03941	0.05808	0.087	0.063	0.176	0.1772	1.02459614	0.327275229	4.103E-06	0.003059	0.041021	0.008825	1.246669	1.20493353	1.446516
3062	472363.09	3845877.25	0.08937	0.24666	0.03803	0.0565	0.086	0.056	0.24	0.24666	0.93246596	0.455562686	3.959E-06	0.002976	0.040501	0.007862	1.700274	1.67725115	1.462394
3063	472863.09	3845877.25	0.08393	0.20378	0.03941	0.06057	0.088	0.051	0.2039	0.20378	0.87570625	0.376366513	4.103E-06	0.00319	0.041274	0.007218	1.444776	1.38567356	1.362862
3064	473363.09	3845877.25	0.08193	0.23327	0.04001	0.0542	0.084	0.048	0.2367	0.23327	0.85483872	0.430832352	4.165E-06	0.002855	0.03937	0.00681	1.677034	1.58620115	1.425544

3065	473863.09	3845877.25	0.09039	0.26184	0.03719	0.04888	0.087	0.048	0.2649	0.26184	0.9431084	0.483599018	3.872E-06	0.002575	0.040618	0.006781	1.8767	1.78047288	1.572911
3066	474363.09	3845877.25	0.08709	0.36315	0.03435	0.04727	0.081	0.049	0.3688	0.36315	0.90867697	0.670711058	3.576E-06	0.00249	0.038076	0.006854	2.612727	2.46936575	1.770173
3067	474863.09	3845877.25	0.09179	0.43008	0.03515	0.04666	0.08	0.051	0.4325	0.43008	0.95771568	0.794325793	3.659E-06	0.002458	0.037424	0.007186	3.064277	2.92447975	1.93891
3068	475363.09	3845877.25	0.09695	0.45337	0.03681	0.04634	0.077	0.05	0.4561	0.45337	1.01155393	0.837340692	3.832E-06	0.002441	0.03629	0.006996	3.231775	3.08284827	2.043551
3069	475863.09	3845877.25	0.09346	0.42809	0.03517	0.04683	0.08	0.051	0.4315	0.42809	0.97514008	0.790650411	3.661E-06	0.002467	0.03772	0.007201	3.057475	2.91094805	1.959709
3070	476363.09	3845877.25	0.09523	0.40084	0.03337	0.04935	0.083	0.05	0.404	0.40084	0.99360785	0.740321686	3.474E-06	0.002599	0.038962	0.007042	2.862627	2.72565212	1.919513
3071	476863.09	3845877.25	0.09809	0.34449	0.03238	0.05101	0.086	0.048	0.3707	0.34449	1.02344843	0.636247425	3.371E-06	0.002687	0.040172	0.006702	2.62626	2.34248054	1.99304
3072	477363.09	3845877.25	0.10875	0.30455	0.03569	0.04832	0.084	0.048	0.3279	0.30455	1.13467241	0.562481213	3.716E-06	0.002545	0.039309	0.00675	2.32329	2.0708945	1.998157
3073	477863.09	3845877.25	0.12099	0.26543	0.0347	0.04513	0.088	0.054	0.2751	0.26543	1.26238174	0.490229481	3.612E-06	0.002377	0.041288	0.00765	1.949324	1.80488435	1.94837
3074	478363.09	3845877.25	0.12148	0.24667	0.0347	0.0468	0.092	0.062	0.2468	0.24667	1.26749429	0.455581156	3.612E-06	0.002465	0.043155	0.008684	1.748667	1.67731915	1.848731
3075	478863.09	3845877.25	0.12196	0.22956	0.03314	0.04955	0.096	0.065	0.2305	0.22956	1.2725025	0.423980257	3.45E-06	0.00261	0.044997	0.00912	1.632821	1.56097371	1.825061
3076	479363.09	3845877.25	0.11562	0.22792	0.03406	0.05407	0.095	0.067	0.2349	0.22792	1.2063524	0.420951299	3.546E-06	0.002848	0.04459	0.009494	1.66428	1.54982195	1.798698
3077	479863.09	3845877.25	0.12071	0.21411	0.0337	0.05731	0.108	0.065	0.2197	0.21411	1.25946029	0.395445256	3.508E-06	0.003019	0.050526	0.009088	1.556866	1.45591601	1.818492
3078	480363.09	3845877.25	0.12287	0.1766	0.03384	0.05922	0.117	0.066	0.1771	0.1766	1.28199723	0.326167074	3.523E-06	0.003119	0.054765	0.009316	1.25503	1.20085362	1.729544
3079	480863.09	3845877.25	0.13682	0.16134	0.04759	0.06281	0.136	0.076	0.1615	0.16134	1.42754831	0.297982988	4.954E-06	0.003308	0.06375	0.010711	1.143932	1.0970879	1.850149
3080	481363.09	3845877.25	0.13662	0.13589	0.05669	0.06467	0.128	0.073	0.1368	0.13589	1.42546156	0.25097873	5.902E-06	0.003406	0.060069	0.010278	0.969561	0.9240317	1.795728
3081	481863.09	3845877.25	0.1233	0.12179	0.0397	0.06664	0.123	0.066	0.1234	0.12179	1.28648375	0.224937078	4.133E-06	0.00351	0.057766	0.009217	0.874263	0.82815381	1.628027
3082	482363.09	3845877.25	0.10943	0.11358	0.04174	0.06271	0.126	0.061	0.1153	0.11358	1.14176737	0.209773818	4.345E-06	0.003303	0.059149	0.008637	0.817155	0.77232703	1.467463
3083	482863.09	3845877.25	0.10469	0.09267	0.03325	0.0579	0.119	0.053	0.0958	0.09267	1.0923113	0.171154602	3.462E-06	0.00305	0.056012	0.007459	0.67899	0.63014216	1.378838
3084	483363.09	3845877.25	0.09385	0.08105	0.03453	0.05503	0.097	0.049	0.085	0.08105	0.97920925	0.149693326	3.595E-06	0.002899	0.045288	0.006947	0.602256	0.55112789	1.235167
3085	483863.09	3845877.25	0.10171	0.10033	0.03582	0.05454	0.094	0.055	0.1001	0.10033	1.06121867	0.185302053	3.729E-06	0.002873	0.04413	0.007789	0.709386	0.68222901	1.328474
3086	484363.09	3845877.25	0.10203	0.09919	0.03905	0.05412	0.099	0.054	0.0995	0.09919	1.06455748	0.183196557	4.065E-06	0.002851	0.046198	0.007561	0.704852	0.67447718	1.334743
3087	484863.09	3845877.25	0.10449	0.09589	0.03539	0.05217	0.105	0.053	0.0946	0.09589	1.09022455	0.177101703	3.684E-06	0.002748	0.049138	0.007445	0.670488	0.65203768	1.345111
3088	485363.09	3845877.25	0.09671	0.08627	0.03481	0.04814	0.104	0.051	0.0895	0.08627	1.00904983	0.159334278	3.624E-06	0.002536	0.048721	0.007238	0.634211	0.58662311	1.274469
3089	485863.09	3845877.25	0.08867	0.08729	0.03913	0.05095	0.101	0.048	0.089	0.08729	0.92516232	0.161218142	4.074E-06	0.002684	0.047516	0.006686	0.630739	0.59355896	1.18045
3090	486363.09	3845877.25	0.08723	0.08424	0.03918	0.05003	0.096	0.049	0.0863	0.08424	0.91013769	0.155585019	4.079E-06	0.002635	0.044922	0.006835	0.611325	0.57281942	1.158625
3091	486863.09	3845877.25	0.08539	0.07897	0.04132	0.04503	0.104	0.047	0.0789	0.07897	0.89093956	0.14585172	4.302E-06	0.002372	0.048768	0.006593	0.558964	0.5369842	1.116508
3092	487363.09	3845877.25	0.08884	0.07634	0.03914	0.04222	0.111	0.046	0.0765	0.07634	0.92693606	0.140994306	4.075E-06	0.002224	0.05228	0.00642	0.541959	0.5191006	1.151717
3093	487863.09	3845877.25	0.08798	0.06977	0.0366	0.04409	0.103	0.044	0.0705	0.06977	0.91796302	0.128860004	3.81E-06	0.002322	0.048407	0.006181	0.499235	0.47442558	1.128546
3094	488363.09	3845877.25	0.09293	0.0687	0.0404	0.0441	0.095	0.044	0.0692	0.0687	0.96961018	0.126883794	4.206E-06	0.002323	0.044683	0.006253	0.490378	0.46714974	1.172986
3095	488863.09	3845877.25	0.09503	0.07694	0.04223	0.0501	0.097	0.045	0.0782	0.07694	0.99152109	0.142102461	4.396E-06	0.002639	0.045682	0.006399	0.554075	0.52318051	1.219243
3096	489363.09	3845877.25	0.08867	0.0763	0.03979	0.04461	0.095	0.047	0.0784	0.0763	0.92516232	0.140920429	4.142E-06	0.00235	0.044697	0.006564	0.55528	0.5188286	1.156149
3097	489863.09	3845877.25	0.08644	0.07088	0.04328	0.04291	0.102	0.047	0.0726	0.07088	0.90189502	0.130910092	4.506E-06	0.00226	0.047727	0.006655	0.514397	0.48197341	1.121876
3098	490363.09	3845877.25	0.08868	0.06363	0.04224	0.04411	0.109	0.05	0.063	0.06363	0.92526666	0.117519881	4.397E-06	0.002323	0.051262	0.007053	0.446307	0.43267449	1.117063
3099	490863.09	3845877.25	0.08205	0.05844	0.04283	0.04245	0.107	0.048	0.0581	0.05844	0.85609077	0.107934336	4.459E-06	0.002236	0.050278	0.00682	0.411801	0.39738327	1.037781
3100	491363.09	3845877.25	0.08536	0.05979	0.04452	0.04182	0.118	0.051	0.0601	0.05979	0.89062654	0.110427686	4.635E-06	0.002203	0.055318	0.007136	0.425618	0.40656307	1.084771
3101	491863.09	3845877.25	0.08788	0.06111	0.05231	0.04179	0.116	0.051	0.0619	0.06111	0.91691964	0.112865628	5.446E-06	0.002201	0.054554	0.007227	0.438867	0.41553887	1.117101
3102	492363.09	3845877.25	0.08541	0.05816	0.04977	0.03976	0.124	0.049	0.0585	0.05816	0.89114823	0.107417197	5.181E-06	0.002094	0.058259	0.006902	0.414635	0.39547931	1.084981
3103	492863.09	3845877.25	0.09112	0.06165	0.04996	0.0474	0.114	0.053	0.0626	0.06165	0.95072506	0.113862968	5.201E-06	0.002497	0.053363	0.007461	0.443402	0.41921079	1.152106
3104	493363.09	3845877.25	0.09686	0.06407	0.0506	0.05278	0.11	0.054	0.065	0.06407	1.01061489	0.118332528	5.268E-06	0.00278	0.051455	0.007598	0.460832	0.43566643	1.215951
3105	493863.09	3845877.25	0.096	0.06779	0.05212	0.05821	0.112	0.055	0.0687	0.06779	1.00164185	0.125203091	5.426E-06	0.003066	0.052702	0.007739	0.486977	0.46096187	1.216372
3106	494363.09	3845877.25	0.1016	0.06937	0.05546	0.05658	0.117	0.052	0.0699	0.06937	1.06007096	0.128121234	5.774E-06	0.00298	0.054826	0.007384	0.495267	0.47170564	1.276949
3107	494863.09	3845877.25	0.10202	0.06902	0.06095	0.05855	0.115	0.054	0.0696	0.06902	1.06445314	0.12747481	6.345E-06	0.003084	0.053719	0.007632	0.492999	0.46932569	1.280043
3108	495363.09	3845877.25	0.10207	0.07174	0.05831	0.06155	0.12	0.058	0.0723	0.07174	1.06497483	0.132498448	6.07E-06	0.003242	0.056298	0.00819	0.512272	0.48782128	1.28966
3109	495863.09	3845877.25	0.10221	0.07256	0.05433	0.06394	0.115	0.06	0.0731	0.07256	1.06643556	0.134012927	5.656E-06	0.003368	0.053818	0.0085	0.518082	0.49339716	1.290824
3110	496363.09	3845877.25	0.10443	0.07323	0.05546	0.06124	0.117	0.065	0.0738	0.07323	1.08959852	0.135250367	5.774E-06	0.003226	0.054676	0.009158	0.522687	0.49795306	1.316648
3111	496863.09	3845877.25	0.10492	0.07311	0.05272	0.06058	0.111	0.062	0.0737	0.07311	1.09471107	0.135028736	5.488E-06	0.003191	0.051961	0.008709	0.521837	0.49713708	1.318306
3112	497363.09	3845877.25	0.10709	0.073	0.05151	0.05849	0.123	0.064	0.0735	0.073	1.11735235	0.134825574	5.363E-06	0.003081	0.057879	0.00896	0.521057	0.49638909	1.346771
3113	497863.09	3845877.25	0.10529	0.07317	0.05545	0.06086	0.124	0.065	0.0738	0.07317	1.09857157	0.135139551	5.773E-06	0.003206	0.058141	0.009109	0.522616	0.49754507	1.329244
3114	498363.09	3845877.25	0.1063	0.07294	0.05969	0.05932	0.148	0.065	0.0736	0.07294	1.10910967	0.134714759	6.214E-06	0.003125	0.069508	0.00913	0.521341	0.4959811	1.350953
3115	471363.09	3846377.25	0.11731	3.20135	0.03972	0.05767	0.089	0.067	3.2259	3.20135	1.22398547	5.912655501	4.135E-06	0.003038	0.041964	0.009379	22.85652	21.7687018	8.278847
3116	471863.09	3846377.25	0.11593	2.07738	0.03984	0.06856	0.095	0.07	2.0937	2.07738	1.20958687	3.836766453	4.148E-06	0.003611	0.04474	0.009781	14.83427	14.1258737	5.812882
3117	472363.09	3846377.25	0.10547	0.3971	0.04149	0.06352	0.093	0.066	0.3993	0.3971	1.10044964	0.733414184	4.319E-06	0.003346	0.043441	0.009241	2.82883	2.70022068	2.018505
3118	472863.09	3846377.25	0.09473	0.36472	0.04014	0.0599	0.088	0.06	0.3676	0.36472	0.98839096	0.673610731	4.179E-06	0.003155	0.041232	0.008374	2.604224	2.48004152	1.83895
3119	473363.09	3846377.25	0.08841	0.36598	0.04243	0.0668	0.093	0.054	0.3708	0.36598	0.92244954	0.675937858	4.417E-06	0.003519	0.043727	0.007577	2.626968	2.48860933	1.791573
3120	473863.09	3846377.25	0.08765	0.44231	0.04202	0.0582	0.088	0.051	0.4501	0.44231	0.91451988	0.816913694	4.375E-06	0.003066	0.04103	0.007215	3.188908	3.00764192	1.964016
3121	474363.09	3846377.25	0.09359	0.47878	0.03938	0.05202	0.093	0.05	0.4866	0.47878	0.97649647	0.884271073	4.1E-06	0.00274	0.043591	0.007082	3.447524	3.25563248	2.106076
3122	474863.09	3846377.25	0.09188	0.54221	0.03575	0.04955	0.085	0.053	0.5472	0.54221	0.95865472	1.001421569	3.722E-06	0.00261	0.039736	0.007407	3.876826	3.686947	2.199712
3123	475363.09	3846377.25	0.09727	0.56445	0.0371	0.04846	0.083	0.053	0.5686	0.56445	1.01489274	1.042497196	3.862E-06	0.002553	0.03877	0.007432	4.028878	3.83817568	2.296851

3124	475863.09	3846377.25	0.10232	0.5224	0.03813	0.04841	0.081	0.054	0.5315	0.5224	1.06758327	0.964833971	3.97E-06	0.00255	0.037767	0.00756	3.765515	3.55224196	2.293571
3125	476363.09	3846377.25	0.09755	0.48097	0.03726	0.04869	0.086	0.058	0.485	0.48097	1.01781419	0.888315841	3.879E-06	0.002565	0.040252	0.008132	3.436258	3.27052415	2.122817
3126	476863.09	3846377.25	0.09832	0.44401	0.03459	0.05127	0.086	0.052	0.4477	0.44401	1.02584819	0.820053468	3.601E-06	0.002701	0.040407	0.00727	3.172258	3.01920167	2.049339
3127	477363.09	3846377.25	0.10562	0.38728	0.03546	0.05305	0.089	0.05	0.4093	0.38728	1.10201471	0.715277374	3.692E-06	0.002794	0.041509	0.007087	2.899826	2.63344615	2.135066
3128	477863.09	3846377.25	0.11708	0.32655	0.03703	0.04956	0.087	0.051	0.3496	0.32655	1.22158571	0.603113578	3.855E-06	0.002611	0.040763	0.007115	2.477042	2.22049122	2.131743
3129	478363.09	3846377.25	0.12833	0.3011	0.03641	0.04745	0.092	0.059	0.3054	0.3011	1.33896561	0.55610932	3.791E-06	0.002499	0.043366	0.008282	2.164153	2.04743502	2.065943
3130	478863.09	3846377.25	0.12519	0.2881	0.0354	0.04934	0.095	0.065	0.2911	0.2881	1.30620357	0.532099286	3.685E-06	0.002599	0.044655	0.009121	2.062478	1.95903696	1.998123
3131	479363.09	3846377.25	0.13076	0.26333	0.03601	0.0572	0.103	0.066	0.2771	0.26333	1.36431967	0.486350937	3.749E-06	0.003013	0.048238	0.009317	1.963424	1.79060466	2.084062
3132	479863.09	3846377.25	0.12487	0.24012	0.03514	0.05754	0.102	0.077	0.2476	0.24012	1.30286477	0.443483792	3.658E-06	0.003031	0.047773	0.010842	1.754052	1.63278013	1.92927
3133	480363.09	3846377.25	0.12802	0.22688	0.03566	0.06249	0.118	0.069	0.2333	0.22688	1.33573114	0.419030497	3.712E-06	0.003292	0.055318	0.009718	1.652731	1.54275011	1.933074
3134	480863.09	3846377.25	0.14325	0.18432	0.04588	0.06832	0.132	0.08	0.1888	0.18432	1.49463745	0.34042534	4.776E-06	0.003599	0.062085	0.011295	1.337433	1.25334846	1.99613
3135	481363.09	3846377.25	0.14032	0.16998	0.06207	0.06413	0.133	0.078	0.1747	0.16998	1.4640665	0.313940426	6.462E-06	0.003378	0.062136	0.010997	1.2376	1.15583861	1.936286
3136	481863.09	3846377.25	0.13155	0.14441	0.0495	0.07431	0.131	0.074	0.1443	0.14441	1.37256235	0.266714536	5.153E-06	0.003914	0.061494	0.010382	1.022559	0.98196643	1.755665
3137	482363.09	3846377.25	0.12178	0.13059	0.04355	0.06783	0.134	0.066	0.1318	0.13059	1.27062442	0.241190024	4.534E-06	0.003573	0.062643	0.009252	0.93378	0.88799249	1.633074
3138	482863.09	3846377.25	0.11559	0.11589	0.03865	0.06614	0.132	0.058	0.1187	0.11589	1.20603939	0.214040216	4.024E-06	0.003484	0.06208	0.008158	0.841103	0.78803469	1.546874
3139	483363.09	3846377.25	0.11139	0.11688	0.03566	0.06472	0.113	0.064	0.1205	0.11688	1.16221756	0.215868673	3.712E-06	0.003409	0.053166	0.008991	0.853644	0.79476654	1.502533
3140	483863.09	3846377.25	0.10591	0.11486	0.04108	0.05819	0.096	0.062	0.1147	0.11486	1.1050405	0.212137883	4.277E-06	0.003065	0.045063	0.008694	0.81262	0.78103084	1.405594
3141	484363.09	3846377.25	0.10291	0.10192	0.03818	0.05653	0.103	0.056	0.1008	0.10192	1.0737392	0.188238665	3.975E-06	0.002978	0.04828	0.007827	0.713921	0.69304077	1.341947
3142	484863.09	3846377.25	0.1092	0.10803	0.04405	0.05553	0.11	0.06	0.106	0.10803	1.1393676	0.19952338	4.586E-06	0.002925	0.05153	0.008379	0.750836	0.73458786	1.417977
3143	485363.09	3846377.25	0.10857	0.10701	0.03849	0.05658	0.111	0.059	0.1075	0.10701	1.13279433	0.197639516	4.007E-06	0.00298	0.052139	0.008349	0.761393	0.72765201	1.427647
3144	485863.09	3846377.25	0.09514	0.09922	0.04123	0.05331	0.11	0.051	0.0997	0.09922	0.99266881	0.183251965	4.292E-06	0.002808	0.051408	0.007222	0.706623	0.67468118	1.269305
3145	486363.09	3846377.25	0.08864	0.08268	0.04119	0.0519	0.097	0.05	0.0833	0.08268	0.92484931	0.152703815	4.288E-06	0.002734	0.04548	0.006976	0.589998	0.56221165	1.160534
3146	486863.09	3846377.25	0.08734	0.07691	0.04398	0.04799	0.108	0.048	0.0774	0.07691	0.91128541	0.142047053	4.579E-06	0.002528	0.050737	0.006803	0.548407	0.52297651	1.138835
3147	487363.09	3846377.25	0.09281	0.08064	0.0411	0.04527	0.116	0.049	0.0813	0.08064	0.96835813	0.148936086	4.279E-06	0.002385	0.054207	0.006948	0.575969	0.54833995	1.208467
3148	487863.09	3846377.25	0.09373	0.08953	0.04024	0.05377	0.107	0.048	0.09	0.08953	0.97795719	0.165355255	4.189E-06	0.002832	0.05039	0.006699	0.637895	0.60879063	1.232342
3149	488363.09	3846377.25	0.09794	0.08842	0.04263	0.05475	0.105	0.047	0.0889	0.08842	1.02188336	0.163305168	4.438E-06	0.002884	0.049335	0.006619	0.629534	0.60124279	1.272322
3150	488863.09	3846377.25	0.09898	0.08468	0.04361	0.05324	0.101	0.047	0.0854	0.08468	1.03273448	0.156397666	4.54E-06	0.002804	0.047356	0.00664	0.605302	0.57581135	1.275428
3151	489363.09	3846377.25	0.09144	0.08156	0.04221	0.04644	0.103	0.052	0.0823	0.08156	0.95406386	0.150635258	4.394E-06	0.002446	0.048219	0.007287	0.582842	0.55459582	1.190902
3152	489863.09	3846377.25	0.09529	0.07778	0.04296	0.04525	0.107	0.051	0.0785	0.07778	0.99423387	0.143653879	4.472E-06	0.002384	0.049996	0.0072	0.556272	0.52889238	1.224851
3153	490363.09	3846377.25	0.09116	0.06544	0.04545	0.04478	0.117	0.053	0.0652	0.06544	0.95114241	0.120862816	4.732E-06	0.002359	0.054953	0.007463	0.462036	0.44498222	1.153838
3154	490863.09	3846377.25	0.08512	0.06084	0.04602	0.04376	0.116	0.051	0.061	0.06084	0.88812244	0.112366958	4.791E-06	0.002305	0.05462	0.007242	0.431994	0.41370291	1.082952
3155	491363.09	3846377.25	0.08866	0.0586	0.05007	0.04259	0.117	0.051	0.0589	0.0586	0.92505798	0.108229844	5.213E-06	0.002243	0.054821	0.007238	0.417328	0.39847125	1.116452
3156	491863.09	3846377.25	0.09024	0.06433	0.05303	0.04341	0.124	0.056	0.0649	0.06433	0.94154334	0.118812728	5.521E-06	0.002287	0.058188	0.007891	0.459486	0.43743439	1.150778
3157	492363.09	3846377.25	0.0925	0.06326	0.05245	0.04633	0.129	0.053	0.0639	0.06326	0.96512366	0.116836518	5.46E-06	0.00244	0.060514	0.007401	0.452542	0.43015855	1.174704
3158	492863.09	3846377.25	0.09798	0.06371	0.05142	0.04946	0.117	0.053	0.0642	0.06371	1.02230071	0.117667635	5.353E-06	0.002605	0.055032	0.007488	0.455022	0.43321848	1.226903
3159	493363.09	3846377.25	0.09887	0.06814	0.05449	0.05866	0.115	0.059	0.069	0.06814	1.03158677	0.125849515	5.673E-06	0.00309	0.053907	0.008358	0.489173	0.46334182	1.248628
3160	493863.09	3846377.25	0.10432	0.07063	0.05753	0.06232	0.12	0.058	0.0712	0.07063	1.08845081	0.13044836	5.989E-06	0.003283	0.05642	0.008097	0.504407	0.48027345	1.310839
3161	494363.09	3846377.25	0.10631	0.07031	0.06181	0.06069	0.121	0.058	0.0709	0.07031	1.10921401	0.129857344	6.435E-06	0.003197	0.056824	0.008141	0.502352	0.4780975	1.331494
3162	494863.09	3846377.25	0.10507	0.07247	0.06089	0.06	0.125	0.057	0.073	0.07247	1.09627614	0.133846703	6.339E-06	0.00316	0.058516	0.008072	0.51716	0.49278517	1.324253
3163	495363.09	3846377.25	0.10433	0.07343	0.05611	0.06577	0.12	0.061	0.074	0.07343	1.08855515	0.135619752	5.841E-06	0.003464	0.056294	0.008574	0.524104	0.49931303	1.317304
3164	495863.09	3846377.25	0.10606	0.07444	0.05884	0.06669	0.116	0.063	0.0751	0.07444	1.10660557	0.137485147	6.126E-06	0.003513	0.05446	0.008792	0.532111	0.50618088	1.336792
3165	496363.09	3846377.25	0.10794	0.07531	0.05815	0.06258	0.117	0.068	0.0759	0.07531	1.12622105	0.139091972	6.054E-06	0.003296	0.054662	0.009562	0.537921	0.51209675	1.358663
3166	496863.09	3846377.25	0.11098	0.07604	0.05621	0.06219	0.129	0.069	0.0765	0.07604	1.15793971	0.140440228	5.852E-06	0.003276	0.060453	0.009671	0.542101	0.51706064	1.396826
3167	497363.09	3846377.25	0.10795	0.07613	0.06054	0.06212	0.13	0.069	0.0766	0.07613	1.12632539	0.140606451	6.303E-06	0.003272	0.060758	0.009743	0.542384	0.51767263	1.365423
3168	497863.09	3846377.25	0.11251	0.07563	0.06383	0.06295	0.161	0.068	0.076	0.07563	1.17390338	0.139682989	6.645E-06	0.003316	0.075473	0.009532	0.538771	0.5142727	1.426412
3169	498363.09	3846377.25	0.11669	0.07532	0.06433	0.06269	0.166	0.072	0.0759	0.07532	1.21751654	0.139110442	6.697E-06	0.003302	0.078014	0.010099	0.537637	0.51216475	1.473521
3170	471363.09	3846877.25	0.11345	1.27531	0.03879	0.06754	0.102	0.072	1.2934	1.27531	1.18371112	2.355402779	4.038E-06	0.003558	0.047703	0.010127	9.164347	8.67191748	4.092936
3171	471863.09	3846877.25	0.12879	1.87062	0.04097	0.06534	0.095	0.071	1.8857	1.87062	1.34376514	3.454896101	4.265E-06	0.003442	0.044468	0.010002	13.36115	12.7199366	5.497789
3172	472363.09	3846877.25	0.12703	7.98016	0.04247	0.06602	0.1	0.076	8.0432	7.98016	1.32540171	14.73876237	4.421E-06	0.003478	0.047122	0.010627	56.98897	54.2638959	18.85047
3173	472863.09	3846877.25	0.11695	0.74835	0.04291	0.07057	0.095	0.069	0.7537	0.74835	1.22022932	1.382146827	4.467E-06	0.003717	0.044393	0.009764	5.340307	5.08866821	2.911894
3174	473363.09	3846877.25	0.10319	0.66963	0.04197	0.06495	0.094	0.064	0.6764	0.66963	1.07666065	1.236756838	4.369E-06	0.003421	0.043994	0.008981	4.792538	4.55338397	2.608972
3175	473863.09	3846877.25	0.09486	0.78079	0.04416	0.07043	0.099	0.057	0.7756	0.78079	0.98974735	1.442061096	4.597E-06	0.00371	0.046259	0.008064	5.495406	5.30925536	2.675996
3176	474363.09	3846877.25	0.09398	0.70612	0.04365	0.06386	0.093	0.054	0.7064	0.70612	0.98056564	1.304151156	4.544E-06	0.003364	0.043797	0.007559	5.004815	4.80151051	2.542746
3177	474863.09	3846877.25	0.09819	0.66579	0.04183	0.05631	0.099	0.052	0.6771	0.66579	1.0244918	1.229664643	4.355E-06	0.002966	0.046207	0.00736	4.797214	4.52727254	2.580636
3178	475363.09	3846877.25	0.09751	0.62219	0.0374	0.05156	0.088	0.056	0.6277	0.62219	1.01739684	1.149138684	3.894E-06	0.002716	0.041274	0.007829	4.447623	4.23079905	2.435182
3179	475863.09	3846877.25	0.10513	0.6528	0.03876	0.05152	0.085	0.055	0.6565	0.6528	1.09690216	1.205673079	4.035E-06	0.002714	0.039914	0.007685	4.651681	4.43894248	2.565631
3180	476363.09	3846877.25	0.10927	0.61467	0.03948	0.05037	0.084	0.056	0.6185	0.61467	1.14009797	1.135249803	4.11E-06	0.002653	0.039249	0.007858	4.382225	4.17966418	2.527672
3181	476863.09	3846877.25	0.10372	0.55879	0.03954	0.05065	0.089	0.06	0.5638	0.55879	1.08219055	1.032043596	4.116E-06	0.002668	0.041851	0.008474	3.994514	3.79968852	2.362057
3182	477363.09	3846877.25	0.10398	0.49561	0.03571	0.05542	0.089	0.054	0.5004	0.49561	1.08490333	0.915354832	3.718E-06	0.002919	0.041931	0.007543	3.545373	3.37007396	2.227954

3183	477863.09	3846877.25	0.11428	0.43187	0.03882	0.05526	0.095	0.052	0.4428	0.43187	1.19237115	0.79763179	4.041E-06	0.002911	0.044449	0.007248	3.137256	2.93665148	2.245219
3184	478363.09	3846877.25	0.12811	0.39237	0.03772	0.05158	0.091	0.055	0.4071	0.39237	1.33667018	0.724678226	3.927E-06	0.002717	0.042611	0.007717	2.884238	2.66805738	2.330578
3185	478863.09	3846877.25	0.13403	0.36682	0.0389	0.04939	0.098	0.064	0.3749	0.36682	1.39843809	0.677489275	4.05E-06	0.002602	0.045776	0.00895	2.656443	2.4943212	2.295381
3186	479363.09	3846877.25	0.13257	0.33201	0.03731	0.05232	0.099	0.067	0.335	0.33201	1.38320479	0.613197792	3.884E-06	0.002756	0.046592	0.009482	2.373738	2.2576184	2.171355
3187	479863.09	3846877.25	0.13066	0.23826	0.03726	0.05998	0.107	0.076	0.2396	0.23826	1.36327629	0.440048511	3.879E-06	0.003159	0.050268	0.010743	1.697652	1.62013241	1.94502
3188	480363.09	3846877.25	0.12719	0.19333	0.03637	0.06213	0.112	0.073	0.1952	0.19333	1.32707111	0.35706614	3.786E-06	0.003273	0.052571	0.010302	1.382708	1.31461512	1.818379
3189	480863.09	3846877.25	0.14506	0.17433	0.04026	0.06763	0.121	0.074	0.1776	0.17433	1.51352257	0.321974552	4.191E-06	0.003562	0.056542	0.010396	1.258289	1.18541796	1.978873
3190	481363.09	3846877.25	0.14198	0.17439	0.05359	0.07042	0.151	0.08	0.1722	0.17439	1.48138656	0.322085368	5.579E-06	0.003709	0.0706	0.011292	1.219957	1.18582595	1.923211
3191	481863.09	3846877.25	0.14422	0.16684	0.05276	0.07681	0.136	0.078	0.1663	0.16684	1.5047582	0.308141079	5.493E-06	0.004046	0.063796	0.01097	1.178508	1.13448708	1.935738
3192	482363.09	3846877.25	0.13288	0.14421	0.04882	0.07279	0.132	0.069	0.1465	0.14421	1.38643926	0.266345151	5.082E-06	0.003834	0.062127	0.009639	1.037864	0.98060646	1.785647
3193	482863.09	3846877.25	0.12838	0.1391	0.04556	0.06864	0.136	0.066	0.1402	0.1391	1.3394873	0.256907361	4.743E-06	0.003616	0.063726	0.009316	0.993297	0.94585922	1.720494
3194	483363.09	3846877.25	0.12674	0.13315	0.03702	0.07182	0.133	0.066	0.1288	0.13315	1.32237592	0.245918153	3.854E-06	0.003783	0.062568	0.00933	0.912524	0.90540011	1.651102
3195	483863.09	3846877.25	0.1203	0.12892	0.04381	0.06443	0.103	0.067	0.1286	0.12892	1.25518244	0.238105658	4.561E-06	0.003394	0.048186	0.009396	0.910965	0.87663674	1.588596
3196	484363.09	3846877.25	0.10891	0.12837	0.04166	0.06267	0.101	0.062	0.128	0.12837	1.13634181	0.237089849	4.337E-06	0.003301	0.047591	0.008657	0.907139	0.87289682	1.467227
3197	484863.09	3846877.25	0.116	0.11663	0.04515	0.05805	0.12	0.062	0.117	0.11663	1.21031724	0.215406941	4.7E-06	0.003058	0.056097	0.008753	0.828916	0.79306658	1.529486
3198	485363.09	3846877.25	0.11499	0.11438	0.04024	0.06029	0.115	0.065	0.1147	0.11438	1.19977913	0.211251358	4.189E-06	0.003176	0.053766	0.00921	0.812691	0.77776691	1.512111
3199	485863.09	3846877.25	0.10473	0.10809	0.04365	0.05829	0.122	0.055	0.1088	0.10809	1.09272866	0.199634196	4.544E-06	0.00307	0.057325	0.007761	0.7711	0.73499585	1.396628
3200	486363.09	3846877.25	0.09819	0.10962	0.04607	0.05656	0.102	0.051	0.1114	0.10962	1.0244918	0.202459992	4.796E-06	0.002979	0.047928	0.00717	0.789097	0.74539962	1.328731
3201	486863.09	3846877.25	0.09792	0.09533	0.05018	0.05208	0.114	0.052	0.095	0.09533	1.02167469	0.176067424	5.224E-06	0.002743	0.053246	0.007369	0.673251	0.64822976	1.286126
3202	487363.09	3846877.25	0.09721	0.09633	0.04576	0.05287	0.125	0.053	0.0974	0.09633	1.01426671	0.17791435	4.764E-06	0.002785	0.058554	0.00744	0.690043	0.65502961	1.295979
3203	487863.09	3846877.25	0.0988	0.0929	0.04332	0.05539	0.112	0.05	0.0942	0.0929	1.0308564	0.171579395	4.51E-06	0.002918	0.052453	0.007075	0.667087	0.63170612	1.300266
3204	488363.09	3846877.25	0.09927	0.09317	0.04644	0.05555	0.109	0.049	0.0913	0.09317	1.03576028	0.172078065	4.835E-06	0.002926	0.05114	0.00683	0.646823	0.63354208	1.28202
3205	488863.09	3846877.25	0.10277	0.08974	0.04562	0.05778	0.105	0.05	0.0895	0.08974	1.07227847	0.16574311	4.749E-06	0.003044	0.049086	0.007006	0.633998	0.61021859	1.320941
3206	489363.09	3846877.25	0.09765	0.0882	0.04398	0.05014	0.109	0.055	0.089	0.0882	1.01885757	0.162898844	4.579E-06	0.002641	0.051009	0.00775	0.630739	0.59974682	1.274153
3207	489863.09	3846877.25	0.10123	0.08186	0.04688	0.04925	0.115	0.058	0.0826	0.08186	1.05621046	0.151189336	4.88E-06	0.002594	0.05379	0.008194	0.584897	0.55663577	1.300244
3208	490363.09	3846877.25	0.09467	0.07161	0.04642	0.04847	0.121	0.055	0.0723	0.07161	0.98776494	0.132258347	4.833E-06	0.002553	0.056791	0.007784	0.512201	0.4869373	1.212419
3209	490863.09	3846877.25	0.09367	0.06857	0.0515	0.04822	0.125	0.057	0.0695	0.06857	0.97733117	0.126643693	5.361E-06	0.00254	0.058774	0.008003	0.492078	0.46626576	1.19911
3210	491363.09	3846877.25	0.09222	0.06732	0.05527	0.04559	0.122	0.056	0.0679	0.06732	0.9622022	0.124335036	5.754E-06	0.002401	0.057321	0.007862	0.480883	0.45776594	1.177245
3211	491863.09	3846877.25	0.09454	0.06482	0.05193	0.04607	0.136	0.056	0.0654	0.06482	0.98640855	0.119717722	5.406E-06	0.002427	0.063904	0.007826	0.463028	0.44076632	1.20255
3212	492363.09	3846877.25	0.10117	0.07265	0.05361	0.05248	0.129	0.059	0.0733	0.07265	1.05558444	0.13417915	5.581E-06	0.002764	0.060495	0.008349	0.519286	0.49400915	1.286655
3213	492863.09	3846877.25	0.10554	0.07305	0.05674	0.05597	0.12	0.062	0.0739	0.07305	1.10118001	0.13491792	5.907E-06	0.002948	0.056041	0.00869	0.523325	0.49672909	1.330378
3214	493363.09	3846877.25	0.11076	0.07224	0.05974	0.06406	0.122	0.064	0.0728	0.07224	1.15564428	0.133421911	6.219E-06	0.003374	0.057264	0.009022	0.515956	0.49122121	1.383467
3215	493863.09	3846877.25	0.11018	0.0727	0.06339	0.06482	0.126	0.064	0.0733	0.0727	1.1495927	0.134271496	6.599E-06	0.003414	0.059056	0.008972	0.51957	0.49434914	1.380533
3216	494363.09	3846877.25	0.10799	0.07245	0.06307	0.0642	0.127	0.062	0.0731	0.07245	1.12674274	0.133809765	6.566E-06	0.003382	0.059515	0.008789	0.517798	0.49264918	1.357394
3217	494863.09	3846877.25	0.10727	0.07281	0.05976	0.06522	0.126	0.063	0.0733	0.07281	1.11923043	0.134474658	6.221E-06	0.003435	0.059013	0.00891	0.51957	0.49509712	1.349543
3218	495363.09	3846877.25	0.10781	0.07284	0.06154	0.06884	0.121	0.063	0.0733	0.07284	1.12486466	0.134530066	6.407E-06	0.003626	0.056946	0.008813	0.519357	0.49530112	1.352842
3219	495863.09	3846877.25	0.11045	0.0724	0.06199	0.0674	0.124	0.064	0.0729	0.0724	1.15240982	0.133717419	6.454E-06	0.00355	0.058357	0.009069	0.516239	0.49230918	1.38104
3220	496363.09	3846877.25	0.11188	0.07392	0.06144	0.06155	0.134	0.069	0.0744	0.07392	1.16733011	0.136524746	6.396E-06	0.003242	0.062624	0.009771	0.527222	0.50264496	1.404076
3221	496863.09	3846877.25	0.11404	0.07445	0.06305	0.0622	0.13	0.072	0.0749	0.07445	1.18986705	0.137503616	6.564E-06	0.003276	0.061058	0.010085	0.530694	0.50624888	1.426241
3222	497363.09	3846877.25	0.11693	0.0787	0.06599	0.06518	0.165	0.073	0.0793	0.0787	1.22002064	0.14535305	6.87E-06	0.003433	0.077161	0.010267	0.562153	0.53514824	1.483245
3223	497863.09	3846877.25	0.12088	0.07961	0.06637	0.06697	0.178	0.077	0.081	0.07961	1.26123403	0.147033753	6.91E-06	0.003528	0.083688	0.010848	0.573773	0.54133611	1.538774
3224	498363.09	3846877.25	0.12045	0.0784	0.07146	0.06844	0.158	0.081	0.0812	0.0784	1.25674751	0.144798973	7.439E-06	0.003605	0.07407	0.011343	0.575544	0.53310829	1.533008
3225	471363.09	3847377.25	0.13121	0.87593	0.04261	0.06237	0.097	0.069	0.8935	0.87593	1.36901487	1.617777604	4.436E-06	0.003285	0.045691	0.00968	6.330557	5.95619315	3.419818
3226	471863.09	3847377.25	0.13162	1.02692	0.04134	0.06756	0.103	0.073	1.0361	1.02692	1.37329271	1.896644911	4.304E-06	0.003559	0.048074	0.010224	7.341071	6.98290259	3.689967
3227	472363.09	3847377.25	0.13425	1.51133	0.04169	0.0697	0.105	0.077	1.5218	1.51133	1.40073352	2.791314176	4.34E-06	0.003671	0.049199	0.010817	10.78264	10.2768182	4.761565
3228	472863.09	3847377.25	0.13944	3.76785	0.04416	0.06414	0.098	0.076	3.8003	3.76785	1.45488479	6.958938894	4.597E-06	0.003379	0.045902	0.010674	26.92671	25.6208171	9.779676
3229	473363.09	3847377.25	0.13282	1.47633	0.04459	0.07803	0.103	0.073	1.4886	1.47633	1.38581323	2.726671778	4.642E-06	0.00411	0.048519	0.010323	10.54698	10.0388235	4.683603
3230	473863.09	3847377.25	0.11831	1.06086	0.04534	0.07176	0.1	0.068	1.0719	1.06086	1.23441924	1.959329569	4.72E-06	0.00378	0.046836	0.009601	7.595011	7.21368952	3.635291
3231	474363.09	3847377.25	0.10295	1.0777	0.04573	0.06893	0.099	0.061	1.0736	1.0777	1.07415655	1.990431797	4.761E-06	0.003631	0.046418	0.008642	7.606914	7.328199	3.401999
3232	474863.09	3847377.25	0.10221	0.84326	0.0466	0.07087	0.101	0.057	0.8508	0.84326	1.06643556	1.557438542	4.851E-06	0.003733	0.047258	0.007966	6.027871	5.73404203	2.976665
3233	475363.09	3847377.25	0.10247	0.70325	0.04407	0.05972	0.096	0.054	0.7097	0.70325	1.06914834	1.298850479	4.588E-06	0.003146	0.045002	0.007647	5.028481	4.78199494	2.670284
3234	475863.09	3847377.25	0.10778	0.78319	0.03944	0.05406	0.095	0.058	0.7909	0.78319	1.12455165	1.446493717	4.106E-06	0.002848	0.04451	0.008139	5.604095	5.325575	2.905067
3235	476363.09	3847377.25	0.12005	0.77123	0.04136	0.05384	0.088	0.057	0.7834	0.77123	1.252574	1.424404486	4.306E-06	0.002836	0.041316	0.007964	5.550672	5.24424879	3.035522
3236	476863.09	3847377.25	0.11636	0.67086	0.04113	0.05251	0.087	0.058	0.653	0.67086	1.21407339	1.239028556	4.282E-06	0.002766	0.040862	0.008134	4.626882	4.56174778	2.570002
3237	477363.09	3847377.25	0.11569	0.59678	0.04112	0.05313	0.093	0.062	0.6022	0.59678	1.20708277	1.102208303	4.281E-06	0.002799	0.043741	0.00876	4.267088	4.05801485	2.573667
3238	477863.09	3847377.25	0.11298	0.51661	0.03766	0.05767	0.093	0.055	0.5212	0.51661	1.17880725	0.954140272	3.921E-06	0.003038	0.043581	0.007768	3.692607	3.51287082	2.367074
3239	478363.09	3847377.25	0.1272	0.46181	0.04046	0.05744	0.099	0.056	0.4783	0.46181	1.32717545	0.852928745	4.212E-06	0.003026	0.046493	0.007826	3.389141	3.14023901	2.486355
3240	478863.09	3847377.25	0.13807	0.4392	0.04012	0.05447	0.101	0.062	0.456	0.4392	1.44059052	0.811169755	4.177E-06	0.002869	0.047586	0.008708	3.230995	2.98649439	2.555428
3241	479363.09	3847377.25	0.13446	0.33428	0.04155	0.05174	0.106	0.068	0.337	0.33428	1.40292462	0.617390314	4.326E-06	0.002725	0.049799	0.00951	2.38805	2.27305406	2.197349

3242	479863.09	3847377.25	0.14434	0.23942	0.04047	0.05911	0.106	0.07	0.2417	0.23942	1.50601026	0.442190944	4.213E-06	0.003114	0.049541	0.009816	1.712177	1.62802023	2.094834
3243	480363.09	3847377.25	0.13376	0.15882	0.03721	0.06166	0.107	0.076	0.1602	0.15882	1.39562098	0.293328735	3.874E-06	0.003248	0.050376	0.010639	1.135146	1.07995227	1.80841
3244	480863.09	3847377.25	0.13452	0.14653	0.04224	0.0669	0.121	0.074	0.1432	0.14653	1.40355064	0.270630019	4.397E-06	0.003524	0.056819	0.010466	1.014907	0.99638211	1.763519
3245	481363.09	3847377.25	0.1468	0.15729	0.05427	0.07186	0.133	0.078	0.1543	0.15729	1.53167733	0.290502939	5.65E-06	0.003785	0.062488	0.011037	1.093342	1.0695485	1.92329
3246	481863.09	3847377.25	0.15322	0.18905	0.06543	0.07731	0.146	0.082	0.1917	0.18905	1.59866213	0.349161298	6.812E-06	0.004072	0.068504	0.011586	1.358051	1.28551176	2.104532
3247	482363.09	3847377.25	0.14205	0.18028	0.055	0.07908	0.145	0.08	0.1846	0.18028	1.48211692	0.33296376	5.726E-06	0.004165	0.068068	0.011203	1.30817	1.22587707	1.980817
3248	482863.09	3847377.25	0.13845	0.16237	0.05706	0.07625	0.144	0.075	0.1664	0.16237	1.44455536	0.299885321	5.94E-06	0.004016	0.067402	0.010549	1.179287	1.10409174	1.90161
3249	483363.09	3847377.25	0.13626	0.15006	0.03858	0.07618	0.143	0.07	0.1514	0.15006	1.4217054	0.277149666	4.016E-06	0.004013	0.067145	0.009829	1.072511	1.02038558	1.831971
3250	483863.09	3847377.25	0.13566	0.1447	0.0431	0.072	0.117	0.072	0.1453	0.1447	1.41544514	0.267250145	4.487E-06	0.003793	0.054826	0.010167	1.02929	0.98393838	1.796837
3251	484363.09	3847377.25	0.13542	0.14815	0.04704	0.07292	0.109	0.07	0.1496	0.14815	1.41294103	0.273622038	4.897E-06	0.003841	0.051	0.009823	1.059616	1.00739787	1.80345
3252	484863.09	3847377.25	0.12579	0.13444	0.04685	0.06812	0.122	0.067	0.1357	0.13444	1.31246384	0.248300687	4.877E-06	0.003588	0.057161	0.009458	0.961625	0.91417192	1.67843
3253	485363.09	3847377.25	0.12062	0.12809	0.04464	0.06621	0.12	0.068	0.129	0.12809	1.25852125	0.236572709	4.647E-06	0.003488	0.056266	0.009626	0.914224	0.87099286	1.607709
3254	485863.09	3847377.25	0.12274	0.12681	0.04694	0.06371	0.124	0.06	0.1281	0.12681	1.28064084	0.234208644	4.887E-06	0.003356	0.057987	0.008469	0.907422	0.86228906	1.629799
3255	486363.09	3847377.25	0.10606	0.12529	0.05267	0.06132	0.117	0.055	0.1267	0.12529	1.10660557	0.231401317	5.483E-06	0.00323	0.055018	0.007705	0.897999	0.85195328	1.450011
3256	486863.09	3847377.25	0.10716	0.1112	0.05392	0.0599	0.121	0.057	0.113	0.1112	1.11808271	0.205378135	5.613E-06	0.003155	0.056894	0.008078	0.800292	0.75614339	1.435741
3257	487363.09	3847377.25	0.10415	0.10951	0.05116	0.05869	0.132	0.055	0.1114	0.10951	1.08667707	0.20225683	5.326E-06	0.003091	0.061729	0.007684	0.789593	0.74465164	1.406384
3258	487863.09	3847377.25	0.10277	0.10279	0.046	0.05659	0.117	0.054	0.1018	0.10279	1.07227847	0.18984549	4.789E-06	0.002981	0.054685	0.007653	0.721573	0.69895664	1.350064
3259	488363.09	3847377.25	0.10629	0.09555	0.05133	0.0586	0.114	0.053	0.0974	0.09555	1.10900534	0.176473748	5.344E-06	0.003087	0.053583	0.007414	0.690114	0.64972573	1.389957
3260	488863.09	3847377.25	0.10556	0.09349	0.04647	0.05996	0.109	0.053	0.0967	0.09349	1.10138868	0.172669081	4.838E-06	0.003158	0.051122	0.007523	0.685154	0.63571803	1.385302
3261	489363.09	3847377.25	0.10526	0.0929	0.05171	0.05418	0.116	0.059	0.0954	0.0929	1.09825855	0.171579395	5.383E-06	0.002854	0.054179	0.008266	0.675731	0.63170612	1.379167
3262	489863.09	3847377.25	0.10275	0.08806	0.05132	0.05164	0.122	0.065	0.0892	0.08806	1.07206979	0.162640275	5.343E-06	0.00272	0.057166	0.009135	0.631802	0.59879484	1.336744
3263	490363.09	3847377.25	0.10889	0.08393	0.05624	0.05242	0.133	0.06	0.0855	0.08393	1.13613314	0.155012472	5.855E-06	0.002761	0.062169	0.008508	0.605444	0.57071146	1.399323
3264	490863.09	3847377.25	0.10743	0.0788	0.05716	0.05156	0.137	0.061	0.0799	0.0788	1.12089983	0.145537743	5.951E-06	0.002716	0.064073	0.00863	0.56612	0.53582823	1.372155
3265	491363.09	3847377.25	0.10054	0.07592	0.0608	0.05168	0.132	0.063	0.077	0.07592	1.04901116	0.140218597	6.33E-06	0.002722	0.061883	0.008839	0.545714	0.51624466	1.29215
3266	491863.09	3847377.25	0.10715	0.08079	0.0609	0.05498	0.144	0.066	0.0822	0.08079	1.11797838	0.149213125	6.34E-06	0.002896	0.067487	0.009242	0.582488	0.54935993	1.379951
3267	492363.09	3847377.25	0.10985	0.07551	0.06712	0.05444	0.128	0.067	0.0762	0.07551	1.14614955	0.139461358	6.988E-06	0.002868	0.060045	0.009462	0.539692	0.51345672	1.384228
3268	492863.09	3847377.25	0.11599	0.07697	0.06247	0.0626	0.127	0.068	0.0781	0.07697	1.2102129	0.142157869	6.504E-06	0.003297	0.059487	0.009535	0.553438	0.5233845	1.45475
3269	493363.09	3847377.25	0.11545	0.07732	0.0678	0.06974	0.134	0.067	0.0784	0.07732	1.20457866	0.142804293	7.058E-06	0.003673	0.062652	0.009431	0.555421	0.52576445	1.452804
3270	493863.09	3847377.25	0.11095	0.07437	0.0646	0.06467	0.13	0.066	0.0749	0.07437	1.1576267	0.137355862	6.725E-06	0.003406	0.06073	0.009332	0.530835	0.50570489	1.393588
3271	494363.09	3847377.25	0.11057	0.07304	0.06476	0.06661	0.132	0.064	0.0735	0.07304	1.15366187	0.134899451	6.742E-06	0.003509	0.062099	0.009038	0.520774	0.49666109	1.387327
3272	494863.09	3847377.25	0.11187	0.0723	0.06375	0.06894	0.128	0.061	0.0727	0.0723	1.16722577	0.133532726	6.637E-06	0.003631	0.059951	0.008635	0.515106	0.4916292	1.396459
3273	495363.09	3847377.25	0.11296	0.07168	0.06571	0.06926	0.133	0.061	0.0723	0.07168	1.17859858	0.132387632	6.841E-06	0.003648	0.062596	0.008567	0.512059	0.48741329	1.41045
3274	495863.09	3847377.25	0.11467	0.07217	0.06409	0.06323	0.14	0.064	0.0726	0.07217	1.19644032	0.133292626	6.672E-06	0.003331	0.065527	0.009015	0.514681	0.49074522	1.431547
3275	496363.09	3847377.25	0.11489	0.07197	0.0639	0.0626	0.132	0.07	0.0726	0.07197	1.19873575	0.132923241	6.652E-06	0.003297	0.062099	0.009849	0.51461	0.48938525	1.432135
3276	496863.09	3847377.25	0.11402	0.07455	0.06784	0.06545	0.155	0.076	0.0752	0.07455	1.18965837	0.137688309	7.063E-06	0.003448	0.072617	0.010752	0.532465	0.50692886	1.439706
3277	497363.09	3847377.25	0.11903	0.0775	0.07059	0.06865	0.175	0.077	0.0786	0.0775	1.24193156	0.14313674	7.349E-06	0.003616	0.082047	0.010797	0.556555	0.52698842	1.511102
3278	497863.09	3847377.25	0.12784	0.08007	0.07861	0.06882	0.164	0.082	0.0819	0.08007	1.33385306	0.147883339	8.184E-06	0.003625	0.077072	0.011603	0.580078	0.54446404	1.609659
3279	498363.09	3847377.25	0.13211	0.079	0.08034	0.06873	0.154	0.087	0.0812	0.079	1.37840526	0.145907128	8.364E-06	0.00362	0.072218	0.012185	0.57526	0.5371882	1.650417
3280	471363.09	3847877.25	0.12375	0.7379	0.05634	0.05888	0.099	0.069	0.7118	0.7379	1.29117895	1.362846454	5.865E-06	0.003101	0.046596	0.00969	5.043643	5.01760977	2.739452
3281	471863.09	3847877.25	0.12805	0.86276	0.04888	0.06234	0.104	0.071	0.8744	0.86276	1.33604415	1.593453593	5.089E-06	0.003284	0.048707	0.010003	6.19551	5.86663911	3.320368
3282	472363.09	3847877.25	0.15067	1.08135	0.04381	0.06605	0.1	0.074	1.0907	1.08135	1.57205602	1.997173076	4.561E-06	0.003479	0.047051	0.010465	7.728074	7.35301846	4.005284
3283	472863.09	3847877.25	0.15382	1.33351	0.04328	0.07296	0.109	0.078	1.364	1.33351	1.60492239	2.462893853	4.506E-06	0.003843	0.051065	0.011005	9.664574	9.06766879	4.730639
3284	473363.09	3847877.25	0.1607	2.17887	0.04593	0.07276	0.106	0.08	2.1888	2.17887	1.67670672	4.024210939	4.782E-06	0.003833	0.049715	0.011281	15.50858	14.8159905	6.45834
3285	473863.09	3847877.25	0.15469	10.34318	0.04793	0.07465	0.111	0.083	10.583	10.34318	1.61399977	19.10308467	4.99E-06	0.003932	0.052238	0.011728	74.98083	70.3320789	25.43374
3286	474363.09	3847877.25	0.13581	1.42626	0.04778	0.08075	0.106	0.073	1.4447	1.42626	1.4170102	2.634196209	4.974E-06	0.004253	0.049682	0.010296	10.23636	9.69835493	4.65345
3287	474863.09	3847877.25	0.12136	1.40331	0.04737	0.07436	0.102	0.066	1.4162	1.40331	1.26624224	2.591809265	4.932E-06	0.003917	0.048003	0.009327	10.03422	9.54229836	4.411222
3288	475363.09	3847877.25	0.1097	1.00005	0.04921	0.07833	0.108	0.061	0.9793	1.00005	1.14458449	1.847018019	5.123E-06	0.004126	0.050489	0.008611	6.93841	6.8001906	3.193053
3289	475863.09	3847877.25	0.10918	0.77969	0.04654	0.0642	0.099	0.059	0.7734	0.77969	1.13915893	1.440029477	4.845E-06	0.003382	0.04639	0.008241	5.479535	5.30177552	2.814965
3290	476363.09	3847877.25	0.12436	0.96946	0.04244	0.05768	0.102	0.06	0.9778	0.96946	1.29754355	1.790520562	4.418E-06	0.003038	0.047811	0.008462	6.928137	6.59218317	3.483333
3291	476863.09	3847877.25	0.12891	0.84162	0.04313	0.05614	0.093	0.059	0.8509	0.84162	1.3450172	1.554409584	4.49E-06	0.002957	0.043605	0.008263	6.028579	5.72289027	3.259945
3292	477363.09	3847877.25	0.1292	0.72031	0.0436	0.05617	0.092	0.062	0.7287	0.72031	1.34804299	1.330359031	4.539E-06	0.002959	0.043117	0.00877	5.163102	4.89800039	2.998354
3293	477863.09	3847877.25	0.12462	0.66708	0.04258	0.05703	0.097	0.065	0.673	0.66708	1.30025633	1.232047177	4.433E-06	0.003004	0.045359	0.009076	4.76859	4.53604435	2.822292
3294	478363.09	3847877.25	0.12723	0.58105	0.04154	0.0601	0.099	0.058	0.5862	0.58105	1.32748846	1.073156162	4.325E-06	0.003166	0.04655	0.008176	4.153155	3.9510532	2.660642
3295	478863.09	3847877.25	0.13631	0.51529	0.0419	0.06047	0.103	0.059	0.532	0.51529	1.42222709	0.95170233	4.362E-06	0.003185	0.048327	0.008263	3.769412	3.50389502	2.699226
3296	479363.09	3847877.25	0.14002	0.33596	0.04239	0.05435	0.106	0.067	0.3431	0.33596	1.46093637	0.620493149	4.413E-06	0.002863	0.049705	0.009465	2.431271	2.28447781	2.29026
3297	479863.09	3847877.25	0.14416	0.18461	0.04396	0.05543	0.112	0.07	0.1863	0.18461	1.50413218	0.340960948	4.577E-06	0.00292	0.052636	0.00979	1.319719	1.25532042	1.974842
3298	480363.09	3847877.25	0.14333	0.19352	0.04147	0.06352	0.112	0.076	0.1953	0.19352	1.49547215	0.357417056	4.317E-06	0.003346	0.052458	0.010736	1.383842	1.31590709	1.987368
3299	480863.09	3847877.25	0.14045	0.17045	0.03951	0.06803	0.115	0.078	0.1701	0.17045	1.46542289	0.314808481	4.113E-06	0.003583	0.053973	0.010973	1.205432	1.15903454	1.895162
3300	481363.09	3847877.25	0.15688	0.16605	0.05066	0.0757	0.133	0.081	0.1654	0.16605	1.63684972	0.306682008	5.274E-06	0.003987	0.062568	0.011392	1.172131	1.12911519	2.0645

3301	481863.09	3847877.25	0.16106	0.22623	0.07395	0.08285	0.156	0.086	0.2278	0.22623	1.68046288	0.417829995	7.69E-06	0.004364	0.07294	0.012146	1.613974	1.5383302	2.263395
3302	482363.09	3847877.25	0.1497	0.20392	0.05986	0.08285	0.147	0.086	0.2071	0.20392	1.56193526	0.376625083	6.232E-06	0.004364	0.068936	0.012057	1.467237	1.38662554	2.104535
3303	482863.09	3847877.25	0.1475	0.18462	0.063	0.07889	0.148	0.081	0.187	0.18462	1.53898097	0.340979418	6.559E-06	0.004155	0.069466	0.011386	1.324962	1.25538842	2.034548
3304	483363.09	3847877.25	0.14548	0.16934	0.04112	0.07889	0.147	0.077	0.1727	0.16934	1.51790475	0.312758393	4.281E-06	0.004155	0.069039	0.010862	1.223642	1.1514867	1.986879
3305	483863.09	3847877.25	0.13881	0.16288	0.04388	0.07714	0.14	0.075	0.1676	0.16288	1.44831151	0.300827253	4.568E-06	0.004063	0.065494	0.010542	1.187577	1.10755967	1.90926
3306	484363.09	3847877.25	0.14416	0.16863	0.04996	0.07771	0.116	0.075	0.1714	0.16863	1.50413218	0.311447076	5.201E-06	0.004093	0.054479	0.010583	1.214573	1.14665881	1.952654
3307	484863.09	3847877.25	0.14337	0.1595	0.05168	0.07704	0.128	0.074	0.1644	0.1595	1.4958895	0.294584645	5.38E-06	0.004058	0.059994	0.01039	1.164975	1.08457617	1.94532
3308	485363.09	3847877.25	0.14123	0.16028	0.05169	0.07148	0.129	0.074	0.1617	0.16028	1.47356123	0.296025247	5.381E-06	0.003765	0.060289	0.010473	1.145774	1.08988006	1.900013
3309	485863.09	3847877.25	0.13352	0.16078	0.05174	0.06885	0.128	0.072	0.1622	0.16078	1.39311687	0.29694871	5.386E-06	0.003627	0.060153	0.010158	1.149387	1.09327998	1.820116
3310	486363.09	3847877.25	0.11513	0.14234	0.0599	0.06531	0.123	0.062	0.1438	0.14234	1.20123986	0.2628914	6.236E-06	0.00344	0.057536	0.008691	1.019017	0.96789074	1.584931
3311	486863.09	3847877.25	0.11574	0.13324	0.05676	0.0622	0.126	0.063	0.1363	0.13324	1.20760446	0.246084377	5.909E-06	0.003276	0.059262	0.008877	0.965806	0.9060121	1.584903
3312	487363.09	3847877.25	0.11067	0.12539	0.05377	0.06106	0.136	0.057	0.1259	0.12539	1.15470524	0.23158601	5.598E-06	0.003216	0.063956	0.008017	0.892259	0.85263327	1.501112
3313	487863.09	3847877.25	0.10964	0.11347	0.0519	0.06256	0.123	0.059	0.1168	0.11347	1.14395846	0.209570656	5.403E-06	0.003295	0.057677	0.008273	0.827641	0.77157905	1.478842
3314	488363.09	3847877.25	0.11067	0.10919	0.04962	0.06246	0.122	0.057	0.1122	0.10919	1.15470524	0.201665814	5.166E-06	0.00329	0.057377	0.008057	0.794907	0.74247569	1.477531
3315	488863.09	3847877.25	0.11577	0.1034	0.05099	0.06784	0.116	0.061	0.1051	0.1034	1.20791747	0.190972115	5.308E-06	0.003573	0.054301	0.008621	0.744388	0.70310455	1.506673
3316	489363.09	3847877.25	0.10596	0.10238	0.05873	0.06229	0.124	0.069	0.1035	0.10238	1.10556219	0.18908825	6.114E-06	0.003281	0.058127	0.00976	0.733406	0.69616871	1.403062
3317	489863.09	3847877.25	0.11532	0.1046	0.05989	0.06397	0.132	0.078	0.1049	0.1046	1.20322227	0.193188425	6.235E-06	0.00337	0.061888	0.01103	0.742971	0.71126437	1.504411
3318	490363.09	3847877.25	0.12083	0.10272	0.06065	0.06387	0.147	0.082	0.1031	0.10272	1.26071234	0.189716205	6.314E-06	0.003364	0.068729	0.011575	0.730572	0.69848065	1.566194
3319	490863.09	3847877.25	0.11959	0.09682	0.06423	0.05739	0.138	0.078	0.0975	0.09682	1.24777447	0.178819344	6.687E-06	0.003023	0.064519	0.010936	0.691035	0.65836154	1.537752
3320	491363.09	3847877.25	0.11558	0.09188	0.06824	0.05643	0.15	0.073	0.0927	0.09188	1.20593505	0.169695531	7.104E-06	0.002972	0.070268	0.010237	0.65653	0.62477027	1.490874
3321	491863.09	3847877.25	0.11961	0.0893	0.06995	0.05745	0.143	0.071	0.09	0.0893	1.24798314	0.164930463	7.282E-06	0.003026	0.066966	0.010018	0.637753	0.60722666	1.523458
3322	492363.09	3847877.25	0.12244	0.0873	0.06995	0.05845	0.129	0.073	0.0883	0.0873	1.27751071	0.161236611	7.282E-06	0.003079	0.0605	0.010226	0.625354	0.59362696	1.544286
3323	492863.09	3847877.25	0.12115	0.08506	0.07118	0.0666	0.134	0.073	0.086	0.08506	1.26405115	0.157099498	7.41E-06	0.003508	0.062877	0.010327	0.609341	0.57839529	1.528816
3324	493363.09	3847877.25	0.1143	0.07685	0.06709	0.07113	0.139	0.067	0.0774	0.07685	1.19257983	0.141936238	6.984E-06	0.003747	0.065175	0.00948	0.548124	0.52256852	1.43848
3325	493863.09	3847877.25	0.1131	0.073	0.06769	0.0681	0.138	0.067	0.0736	0.073	1.1800593	0.134825574	7.047E-06	0.003587	0.064922	0.009363	0.521341	0.49638909	1.417716
3326	494363.09	3847877.25	0.11374	0.07033	0.06756	0.06556	0.135	0.066	0.0709	0.07033	1.18673692	0.129894283	7.033E-06	0.003453	0.063084	0.0093	0.501998	0.47823349	1.41624
3327	494863.09	3847877.25	0.11425	0.07009	0.06817	0.07036	0.138	0.061	0.0706	0.07009	1.19205814	0.12945102	7.097E-06	0.003706	0.064758	0.008518	0.500297	0.47660153	1.422194
3328	495363.09	3847877.25	0.1128	0.0698	0.06835	0.06722	0.139	0.06	0.0704	0.0698	1.17692917	0.128915412	7.116E-06	0.003541	0.0654	0.008494	0.49888	0.47462957	1.407537
3329	495863.09	3847877.25	0.10192	0.06084	0.06211	0.05804	0.137	0.056	0.0613	0.06084	1.06340976	0.112366958	6.466E-06	0.003057	0.064167	0.007833	0.434262	0.41370291	1.271399
3330	496363.09	3847877.25	0.11518	0.06962	0.0682	0.06571	0.158	0.07	0.0707	0.06962	1.20176154	0.128582965	7.1E-06	0.003461	0.074155	0.00988	0.500935	0.4734056	1.445377
3331	496863.09	3847877.25	0.1187	0.07253	0.07439	0.06882	0.165	0.077	0.074	0.07253	1.23848841	0.133957519	7.744E-06	0.003625	0.077545	0.010787	0.524033	0.49319316	1.495251
3332	497363.09	3847877.25	0.12406	0.07603	0.08041	0.06965	0.16	0.078	0.0769	0.07603	1.29441342	0.140421759	8.371E-06	0.003669	0.075013	0.011032	0.544581	0.51699264	1.552145
3333	497863.09	3847877.25	0.13352	0.08208	0.08414	0.0702	0.162	0.087	0.085	0.08208	1.39311687	0.151595659	8.759E-06	0.003698	0.076171	0.012296	0.602539	0.55813174	1.681294
3334	498363.09	3847877.25	0.1421	0.08383	0.08443	0.06949	0.179	0.091	0.0853	0.08383	1.48263861	0.154827779	8.79E-06	0.00366	0.084058	0.012809	0.60431	0.57003148	1.772281
3335	471363.09	3848377.25	0.13012	0.58516	0.04547	0.06672	0.105	0.07	0.5905	0.58516	1.35764206	1.080747026	4.734E-06	0.003514	0.04933	0.009867	4.183551	3.97900058	2.705656
3336	471863.09	3848377.25	0.1326	0.69967	0.05191	0.0633	0.103	0.072	0.6796	0.69967	1.3835178	1.292238485	5.404E-06	0.003334	0.048453	0.010074	4.815069	4.75765148	2.795041
3337	472363.09	3848377.25	0.14301	0.78167	0.05713	0.06333	0.104	0.072	0.7772	0.78167	1.49213334	1.44368639	5.948E-06	0.003336	0.048983	0.010151	5.506601	5.31523923	3.189657
3338	472863.09	3848377.25	0.14477	0.96818	0.04942	0.06732	0.109	0.078	0.978	0.96818	1.51049678	1.788156497	5.145E-06	0.003546	0.050976	0.010928	6.929199	6.58347937	3.709828
3339	473363.09	3848377.25	0.1757	1.16953	0.04604	0.07139	0.111	0.08	1.1786	1.16953	1.83321326	2.160034981	4.793E-06	0.00376	0.052266	0.011296	8.350806	7.95262929	4.458752
3340	473863.09	3848377.25	0.19591	1.6173	0.04821	0.07611	0.114	0.084	1.6719	1.6173	2.04407974	2.98703289	5.019E-06	0.004009	0.053532	0.011818	11.84601	10.9973984	5.949093
3341	474363.09	3848377.25	0.26373	3.89424	0.04894	0.07466	0.108	0.087	3.9156	3.89424	2.75169797	7.19237183	5.095E-06	0.003933	0.05046	0.012192	27.74323	26.4802502	11.27364
3342	474863.09	3848377.25	0.15539	1.91062	0.04992	0.08756	0.117	0.077	1.9244	1.91062	1.62130341	3.528773128	5.197E-06	0.004612	0.054967	0.010893	13.63478	12.9919306	5.863407
3343	475363.09	3848377.25	0.15081	1.84257	0.0493	0.08266	0.108	0.072	1.8303	1.84257	1.57351674	3.403089836	5.132E-06	0.004354	0.050756	0.010167	12.96798	12.5292007	5.480669
3344	475863.09	3848377.25	0.12573	1.14522	0.05294	0.08504	0.114	0.067	1.1528	1.14522	1.31183781	2.115136218	5.511E-06	0.004479	0.053612	0.00946	8.168217	7.78732492	3.875423
3345	476363.09	3848377.25	0.11789	0.86327	0.04925	0.07194	0.105	0.063	0.8604	0.86327	1.23003706	1.594395525	5.127E-06	0.003789	0.049166	0.008874	6.096457	5.87010704	3.112617
3346	476863.09	3848377.25	0.13958	1.04548	0.04492	0.0616	0.11	0.063	1.0539	1.04548	1.45634551	1.930923852	4.676E-06	0.003245	0.051455	0.008851	7.467262	7.10910782	3.808979
3347	477363.09	3848377.25	0.14434	0.95481	0.0451	0.05943	0.099	0.063	0.9669	0.95481	1.50601026	1.763463101	4.695E-06	0.00313	0.046461	0.008891	6.850481	6.49256536	3.685875
3348	477863.09	3848377.25	0.142	0.86556	0.04654	0.05977	0.096	0.07	0.8843	0.86556	1.48159524	1.598624985	4.845E-06	0.003148	0.04518	0.009828	6.265726	5.8856787	3.518429
3349	478363.09	3848377.25	0.13441	0.76647	0.04371	0.06031	0.1	0.067	0.7729	0.76647	1.40240293	1.41561312	4.55E-06	0.003177	0.047108	0.009382	5.476346	5.2118815	3.142151
3350	478863.09	3848377.25	0.14522	0.62155	0.04485	0.06468	0.104	0.061	0.6313	0.62155	1.51519197	1.147956652	4.669E-06	0.003407	0.048683	0.008588	4.473201	4.22644715	2.970585
3351	479363.09	3848377.25	0.1416	0.43062	0.04439	0.06121	0.107	0.063	0.4504	0.43062	1.47742173	0.795323133	4.621E-06	0.003224	0.050292	0.008802	3.191034	2.92815167	2.59795
3352	479863.09	3848377.25	0.13724	0.1562	0.04527	0.05394	0.108	0.065	0.16	0.1562	1.43193049	0.28848979	4.713E-06	0.002841	0.050437	0.009207	1.133799	1.06213667	1.854573
3353	480363.09	3848377.25	0.15401	0.20972	0.0475	0.06085	0.116	0.076	0.2115	0.20972	1.6069048	0.387337252	4.945E-06	0.003205	0.054488	0.010753	1.498766	1.42606467	2.135396
3354	480863.09	3848377.25	0.15365	0.28255	0.04284	0.07068	0.121	0.088	0.2817	0.28255	1.60314865	0.521848849	4.46E-06	0.003723	0.056589	0.012415	1.995663	1.92129779	2.272094
3355	481363.09	3848377.25	0.16857	0.27811	0.05804	0.07538	0.126	0.094	0.279	0.27811	1.75882049	0.513648499	6.042E-06	0.003971	0.058938	0.013225	1.976887	1.89110645	2.434389
3356	481863.09	3848377.25	0.16484	0.28049	0.05989	0.08515	0.147	0.093	0.2845	0.28049	1.71990253	0.518044182	6.235E-06	0.004485	0.068833	0.013143	2.015927	1.9072901	2.433051
3357	482363.09	3848377.25	0.16033	0.27736	0.06679	0.08909	0.173	0.091	0.2805	0.27736	1.67284623	0.512263304	6.953E-06	0.004693	0.081203	0.012849	1.987727	1.88600657	2.385582
3358	482863.09	3848377.25	0.15502	0.23138	0.07006	0.08603	0.16	0.085	0.2335	0.23138	1.61744291	0.427341662	7.294E-06	0.004532	0.074802	0.011911	1.654361	1.57334943	2.217048
3359	483363.09	3848377.25	0.15332	0.21833	0.04977	0.08656	0.16	0.089	0.219	0.21833	1.5997055	0.403239282	5.181E-06	0.004559	0.075036	0.012472	1.551836	1.48461138	2.162243

3360	483863.09	3848377.25	0.14392	0.18931	0.04432	0.08398	0.16	0.083	0.1912	0.18931	1.50162807	0.349641499	4.614E-06	0.004424	0.07499	0.011611	1.355004	1.28727972	2.010023
3361	484363.09	3848377.25	0.14773	0.18525	0.05696	0.08221	0.123	0.077	0.1901	0.18525	1.54138073	0.342142981	5.93E-06	0.00433	0.057565	0.010765	1.346856	1.25967233	2.043373
3362	484863.09	3848377.25	0.14608	0.19337	0.05658	0.08706	0.125	0.084	0.1933	0.19337	1.52416501	0.357140017	5.89E-06	0.004586	0.058521	0.011822	1.369246	1.31488711	2.010599
3363	485363.09	3848377.25	0.14775	0.18856	0.05827	0.07763	0.14	0.08	0.1908	0.18856	1.54158941	0.348256305	6.066E-06	0.004089	0.065541	0.011201	1.351958	1.28217983	2.04046
3364	485863.09	3848377.25	0.14586	0.18507	0.05715	0.07591	0.133	0.086	0.1882	0.18507	1.52186959	0.341810534	5.95E-06	0.003998	0.062498	0.012053	1.333677	1.25844835	2.017464
3365	486363.09	3848377.25	0.14494	0.17178	0.06308	0.0745	0.135	0.075	0.1724	0.17178	1.51227052	0.317264892	6.567E-06	0.003924	0.063534	0.010604	1.221162	1.16807834	1.960688
3366	486863.09	3848377.25	0.12659	0.15454	0.06408	0.06873	0.134	0.067	0.1562	0.15454	1.32081085	0.285423893	6.671E-06	0.00362	0.062901	0.009373	1.106875	1.05084891	1.738162
3367	487363.09	3848377.25	0.11692	0.13686	0.05821	0.06347	0.144	0.068	0.1395	0.13686	1.2199163	0.252770248	6.06E-06	0.003343	0.067477	0.009615	0.988054	0.93062755	1.610555
3368	487863.09	3848377.25	0.11472	0.13217	0.0546	0.07264	0.131	0.063	0.1337	0.13217	1.19696201	0.244108166	5.684E-06	0.003826	0.061461	0.008919	0.946958	0.89873626	1.563504
3369	488363.09	3848377.25	0.1215	0.12204	0.0521	0.07543	0.131	0.066	0.1289	0.12204	1.26770297	0.225398809	5.424E-06	0.003973	0.061227	0.00929	0.913232	0.82985377	1.650976
3370	488863.09	3848377.25	0.11946	0.1164	0.06194	0.07877	0.123	0.075	0.1245	0.1164	1.24641808	0.214982148	6.448E-06	0.004149	0.057691	0.010531	0.882127	0.79150261	1.624403
3371	489363.09	3848377.25	0.1217	0.11415	0.079	0.07756	0.132	0.082	0.1165	0.11415	1.26978972	0.210826565	8.224E-06	0.004085	0.061747	0.011495	0.825728	0.77620295	1.607477
3372	489863.09	3848377.25	0.13511	0.12053	0.06412	0.07287	0.146	0.085	0.1223	0.12053	1.40970657	0.222609951	6.675E-06	0.003838	0.068467	0.01191	0.866752	0.81958599	1.763704
3373	490363.09	3848377.25	0.13863	0.11276	0.05845	0.07073	0.15	0.085	0.1131	0.11276	1.44643343	0.208259339	6.085E-06	0.003726	0.070394	0.012014	0.801425	0.76675116	1.775506
3374	490863.09	3848377.25	0.12441	0.10484	0.06898	0.06548	0.148	0.077	0.1081	0.10484	1.29806523	0.193631687	7.181E-06	0.003449	0.069273	0.010821	0.765928	0.71289634	1.628279
3375	491363.09	3848377.25	0.12734	0.09825	0.07133	0.06131	0.16	0.078	0.099	0.09825	1.32863618	0.181460447	7.426E-06	0.003229	0.074816	0.010907	0.701451	0.66808532	1.632422
3376	491863.09	3848377.25	0.12794	0.09724	0.07996	0.06006	0.141	0.078	0.098	0.09724	1.33489644	0.179595052	8.324E-06	0.003164	0.065939	0.010992	0.694365	0.66121747	1.627743
3377	492363.09	3848377.25	0.12377	0.09051	0.0761	0.06341	0.14	0.077	0.0916	0.09051	1.29138762	0.167165243	7.922E-06	0.00334	0.065705	0.010857	0.648948	0.61545448	1.571957
3378	492863.09	3848377.25	0.11832	0.08356	0.07094	0.07089	0.145	0.069	0.0842	0.08356	1.23452358	0.154329109	7.385E-06	0.003734	0.068035	0.00975	0.596375	0.56819552	1.498559
3379	493363.09	3848377.25	0.11895	0.07589	0.07309	0.07152	0.144	0.065	0.0767	0.07589	1.24109685	0.140163189	7.609E-06	0.003767	0.067402	0.009099	0.54366	0.51604066	1.489155
3380	493863.09	3848377.25	0.11884	0.07241	0.07139	0.06649	0.141	0.064	0.073	0.07241	1.23994914	0.133735888	7.432E-06	0.003502	0.066174	0.00902	0.51716	0.49237718	1.477172
3381	494363.09	3848377.25	0.11413	0.07067	0.07234	0.06679	0.14	0.063	0.0713	0.07067	1.19080609	0.130522237	7.531E-06	0.003518	0.06563	0.008891	0.504974	0.48054544	1.423803
3382	494863.09	3848377.25	0.1158	0.07087	0.07003	0.07016	0.146	0.06	0.0714	0.07087	1.20823048	0.130891622	7.291E-06	0.003696	0.068678	0.008495	0.506107	0.48190541	1.4442
3383	495363.09	3848377.25	0.1087	0.06332	0.06735	0.06191	0.145	0.059	0.0638	0.06332	1.13415072	0.116947334	7.012E-06	0.003261	0.068204	0.008272	0.451833	0.43056654	1.352109
3384	495863.09	3848377.25	0.107	0.06204	0.06678	0.06252	0.155	0.059	0.0625	0.06204	1.11641331	0.114583269	6.952E-06	0.003293	0.072659	0.00823	0.442693	0.42186273	1.336016
3385	496363.09	3848377.25	0.11292	0.0674	0.07545	0.06156	0.167	0.065	0.0681	0.0674	1.17818123	0.12448279	7.855E-06	0.003243	0.078136	0.009082	0.48223	0.45830993	1.417052
3386	496863.09	3848377.25	0.11166	0.06291	0.07423	0.06237	0.161	0.066	0.0634	0.06291	1.16503468	0.116190094	7.728E-06	0.003285	0.075473	0.009268	0.448928	0.4277786	1.390408
3387	497363.09	3848377.25	0.12771	0.07024	0.08443	0.06747	0.163	0.07	0.0711	0.07024	1.33249667	0.129728059	8.79E-06	0.003554	0.076626	0.009868	0.503982	0.47762151	1.578642
3388	497863.09	3848377.25	0.14454	0.08455	0.08618	0.07183	0.194	0.094	0.0873	0.08455	1.50809701	0.156157566	8.972E-06	0.003784	0.090792	0.013278	0.618835	0.57492737	1.816026
3389	498363.09	3848377.25	0.14758	0.08471	0.08797	0.07498	0.193	0.098	0.0864	0.08471	1.53981567	0.156453074	9.158E-06	0.00395	0.090276	0.01383	0.612459	0.57601535	1.840777
3390	471363.09	3848877.25	0.13596	0.53592	0.04793	0.06919	0.103	0.075	0.5292	0.53592	1.41857527	0.989804406	4.99E-06	0.003645	0.048064	0.010513	3.749715	3.64417594	2.576145
3391	471863.09	3848877.25	0.13237	0.56686	0.0502	0.07135	0.108	0.074	0.5713	0.56686	1.38111804	1.046948287	5.226E-06	0.003758	0.050667	0.010351	4.047867	3.85456332	2.686151
3392	472363.09	3848877.25	0.13482	0.63784	0.04819	0.07337	0.112	0.075	0.6432	0.63784	1.40668077	1.178043071	5.017E-06	0.003865	0.052749	0.010516	4.557517	4.33721671	2.872158
3393	472863.09	3848877.25	0.14012	0.73375	0.06121	0.0674	0.11	0.075	0.7403	0.73375	1.46197975	1.355181712	6.372E-06	0.00355	0.051675	0.010531	5.245293	4.98939039	3.138826
3394	473363.09	3848877.25	0.14867	0.86665	0.05816	0.06915	0.11	0.078	0.8845	0.86665	1.55118848	1.600638134	6.055E-06	0.003642	0.051769	0.011023	6.26686	5.89309053	3.592037
3395	473863.09	3848877.25	0.1645	1.06033	0.04947	0.07347	0.113	0.082	1.0682	1.06033	1.71635504	1.958350698	5.15E-06	0.00387	0.053218	0.01152	7.568795	7.2100856	4.102028
3396	474363.09	3848877.25	0.20087	1.35597	0.04873	0.07941	0.119	0.086	1.3933	1.35597	2.09583123	2.504375804	5.073E-06	0.004183	0.055675	0.012104	9.872175	9.22039343	5.323955
3397	474863.09	3848877.25	0.32181	3.02059	0.05115	0.07955	0.119	0.09	3.0438	3.02059	3.35769129	5.578805216	5.325E-06	0.00419	0.055881	0.012693	21.56628	20.5395608	10.03599
3398	475363.09	3848877.25	0.32395	3.74884	0.05539	0.08614	0.123	0.091	3.7774	3.74884	3.38001955	6.923828837	5.766E-06	0.004537	0.057682	0.012766	26.76445	25.491552	11.65174
3399	475863.09	3848877.25	0.21356	2.40764	0.05446	0.09111	0.117	0.079	2.4246	2.40764	2.22823576	4.446732126	5.67E-06	0.004799	0.05491	0.011112	17.17881	16.3715923	7.553014
3400	476363.09	3848877.25	0.16314	1.82814	0.05616	0.09108	0.123	0.074	1.8332	1.82814	1.70216512	3.376438698	5.847E-06	0.004798	0.057715	0.010455	12.9891	12.4310789	5.709594
3401	476863.09	3848877.25	0.14606	1.44548	0.05218	0.08176	0.116	0.068	1.4521	1.44548	1.52395634	2.669694121	5.432E-06	0.004307	0.054324	0.009563	10.28886	9.82904806	4.721667
3402	477363.09	3848877.25	0.15576	1.60744	0.04777	0.07	0.119	0.066	1.6441	1.60744	1.6251639	2.968822203	4.973E-06	0.003687	0.055684	0.009297	11.64876	10.9303519	5.381066
3403	477863.09	3848877.25	0.15699	1.3763	0.04758	0.06235	0.106	0.072	1.3344	1.3763	1.63799744	2.541923803	4.953E-06	0.003284	0.049757	0.010148	9.454351	9.3586344	4.338833
3404	478363.09	3848877.25	0.15774	1.07851	0.05005	0.06344	0.101	0.076	1.0905	1.07851	1.64582276	1.991927807	5.211E-06	0.003342	0.047361	0.010715	7.726586	7.33370688	4.092053
3405	478863.09	3848877.25	0.16123	0.85367	0.04538	0.06399	0.104	0.069	0.8611	0.85367	1.68223662	1.576665039	4.724E-06	0.003371	0.048988	0.009702	6.101417	5.80482847	3.617556
3406	479363.09	3848877.25	0.14934	0.63792	0.04711	0.07105	0.108	0.065	0.678	0.63792	1.5581791	1.178190825	4.904E-06	0.003742	0.050873	0.009178	4.804087	4.3377607	3.266495
3407	479863.09	3848877.25	0.15579	0.48696	0.04692	0.06375	0.112	0.072	0.5166	0.48696	1.62547691	0.899378925	4.885E-06	0.003358	0.052566	0.01013	3.660297	3.31125525	2.939957
3408	480363.09	3848877.25	0.16424	0.47323	0.04991	0.06039	0.116	0.076	0.4931	0.47323	1.71364226	0.874020636	5.196E-06	0.003181	0.054245	0.010673	3.493579	3.21789331	2.931452
3409	480863.09	3848877.25	0.17745	0.43902	0.04933	0.06722	0.119	0.097	0.4449	0.43902	1.85147236	0.810837309	5.136E-06	0.003541	0.055614	0.013598	3.152277	2.98527042	2.902074
3410	481363.09	3848877.25	0.17657	0.39389	0.05654	0.07636	0.131	0.107	0.3936	0.39389	1.84229064	0.727485553	5.886E-06	0.004022	0.061236	0.014997	2.788444	2.67839316	2.760088
3411	481863.09	3848877.25	0.1747	0.33173	0.07228	0.08572	0.137	0.097	0.3393	0.33173	1.82277949	0.612680653	7.525E-06	0.004515	0.064148	0.013631	2.404063	2.25571444	2.666111
3412	482363.09	3848877.25	0.17186	0.26013	0.06356	0.09336	0.16	0.095	0.2646	0.26013	1.79314759	0.480440775	6.617E-06	0.004918	0.07499	0.01335	1.874645	1.76884514	2.472652
3413	482863.09	3848877.25	0.1629	0.22358	0.07094	0.09046	0.164	0.088	0.223	0.22358	1.69966101	0.412935642	7.385E-06	0.004765	0.076804	0.012318	1.579752	1.5203106	2.265932
3414	483363.09	3848877.25	0.15342	0.18551	0.05251	0.08208	0.158	0.08	0.1881	0.18551	1.60074888	0.342623181	5.467E-06	0.004323	0.073892	0.011192	1.332544	1.26144029	2.103889
3415	483863.09	3848877.25	0.1471	0.17522	0.04609	0.08166	0.161	0.08	0.1782	0.17522	1.53480746	0.323618316	4.798E-06	0.004301	0.075351	0.011299	1.262895	1.19146982	2.020807
3416	484363.09	3848877.25	0.15	0.20574	0.06028	0.08865	0.146	0.079	0.2088	0.20574	1.56506539	0.379986488	6.276E-06	0.00467	0.068612	0.011064	1.479069	1.39900126	2.109472
3417	484863.09	3848877.25	0.15676	0.23169	0.06289	0.0993	0.127	0.091	0.2339	0.23169	1.63559767	0.427914209	6.547E-06	0.005231	0.059539	0.012752	1.657053	1.57545739	2.222636
3418	485363.09	3848877.25	0.17034	0.22498	0.05523	0.09702	0.157	0.094	0.2293	0.22498	1.77728826	0.415521338	5.75E-06	0.00511	0.073761	0.01329	1.624886	1.52983039	2.380032

3419	485863.09	3848877.25	0.17061	0.21615	0.06266	0.08917	0.138	0.102	0.2183	0.21615	1.78010537	0.399212984	6.523E-06	0.004697	0.064748	0.014362	1.546805	1.46978771	2.340149
3420	486363.09	3848877.25	0.1605	0.19095	0.0703	0.08284	0.164	0.085	0.1915	0.19095	1.67461997	0.352670457	7.319E-06	0.004364	0.076832	0.011914	1.356634	1.29843147	2.17861
3421	486863.09	3848877.25	0.13387	0.16486	0.06468	0.07116	0.149	0.075	0.1692	0.16486	1.39676869	0.304484166	6.734E-06	0.003748	0.06978	0.010611	1.198914	1.12102337	1.863289
3422	487363.09	3848877.25	0.13312	0.16003	0.06424	0.07326	0.153	0.074	0.1685	0.16003	1.38894336	0.295563515	6.688E-06	0.003859	0.071843	0.010468	1.194096	1.08818009	1.876599
3423	487863.09	3848877.25	0.12801	0.15044	0.05796	0.08747	0.14	0.075	0.1554	0.15044	1.3356268	0.277851498	6.034E-06	0.004607	0.065419	0.010544	1.100711	1.02296953	1.771796
3424	488363.09	3848877.25	0.13254	0.14621	0.06411	0.08714	0.139	0.08	0.1503	0.14621	1.38289178	0.270039003	6.674E-06	0.00459	0.065264	0.011201	1.065001	0.99420616	1.804787
3425	488863.09	3848877.25	0.13575	0.13898	0.07691	0.0924	0.133	0.086	0.1418	0.13898	1.41638418	0.25668573	8.007E-06	0.004867	0.062347	0.012032	1.004846	0.94504324	1.812127
3426	489363.09	3848877.25	0.1461	0.13545	0.0822	0.08937	0.136	0.093	0.14	0.13545	1.52437369	0.250166082	8.558E-06	0.004707	0.063562	0.013073	0.991667	0.92103977	1.926518
3427	489863.09	3848877.25	0.14845	0.13419	0.06401	0.08585	0.156	0.089	0.1377	0.13419	1.54889305	0.247838956	6.664E-06	0.004522	0.073006	0.012533	0.975583	0.91247195	1.949911
3428	490363.09	3848877.25	0.14608	0.12243	0.06368	0.07994	0.161	0.087	0.1233	0.12243	1.52416501	0.22611911	6.629E-06	0.004211	0.07544	0.012201	0.873342	0.83250571	1.882978
3429	490863.09	3848877.25	0.13203	0.10908	0.0742	0.06821	0.162	0.079	0.1125	0.10908	1.37757056	0.201462652	7.725E-06	0.003593	0.07611	0.011116	0.79682	0.7417277	1.724952
3430	491363.09	3848877.25	0.13253	0.10228	0.08852	0.06343	0.165	0.079	0.1031	0.10228	1.38278744	0.188903558	9.215E-06	0.003341	0.077419	0.011157	0.730572	0.69548872	1.6987
3431	491863.09	3848877.25	0.12916	0.09622	0.08533	0.06429	0.141	0.081	0.097	0.09622	1.34762564	0.177711188	8.883E-06	0.003386	0.066225	0.011376	0.687209	0.65428163	1.639262
3432	492363.09	3848877.25	0.12536	0.09068	0.07707	0.06773	0.153	0.074	0.0916	0.09068	1.30797732	0.16747922	8.023E-06	0.003568	0.071599	0.010452	0.649302	0.61661045	1.593776
3433	492863.09	3848877.25	0.12604	0.07803	0.07675	0.0726	0.155	0.068	0.0792	0.07803	1.31507228	0.14411561	7.99E-06	0.003824	0.072589	0.009507	0.560948	0.53059234	1.575471
3434	493363.09	3848877.25	0.11233	0.06749	0.07302	0.06054	0.147	0.063	0.068	0.06749	1.1720253	0.124649014	7.602E-06	0.003189	0.0691	0.008896	0.482017	0.45892192	1.400962
3435	493863.09	3848877.25	0.11194	0.06711	0.07604	0.06397	0.146	0.062	0.0677	0.06711	1.16795613	0.123947182	7.916E-06	0.00337	0.068265	0.008774	0.479396	0.45633797	1.395378
3436	494363.09	3848877.25	0.1105	0.06578	0.07565	0.06675	0.156	0.061	0.0663	0.06578	1.1529315	0.121490771	7.876E-06	0.003516	0.072954	0.008649	0.469689	0.44729417	1.381944
3437	494863.09	3848877.25	0.11087	0.0658	0.07862	0.06874	0.155	0.061	0.0663	0.0658	1.156792	0.121527709	8.185E-06	0.003621	0.072776	0.008576	0.469476	0.44743017	1.385346
3438	495363.09	3848877.25	0.1157	0.06641	0.07459	0.06432	0.165	0.06	0.0668	0.06641	1.2071871	0.122654334	7.765E-06	0.003388	0.077559	0.008466	0.47309	0.45157808	1.440774
3439	495863.09	3848877.25	0.11261	0.05999	0.07304	0.06193	0.174	0.061	0.0604	0.05999	1.17494676	0.110797071	7.604E-06	0.003262	0.081386	0.008642	0.428168	0.40792304	1.399286
3440	496363.09	3848877.25	0.11197	0.0601	0.0763	0.06222	0.166	0.066	0.0608	0.0601	1.16826914	0.111000233	7.943E-06	0.003277	0.077925	0.00923	0.430507	0.40867102	1.391545
3441	496863.09	3848877.25	0.12292	0.06782	0.0838	0.06839	0.177	0.073	0.0698	0.06782	1.28251892	0.125258499	8.724E-06	0.003602	0.083107	0.010281	0.494416	0.46116587	1.538026
3442	497363.09	3848877.25	0.13857	0.08142	0.09593	0.07462	0.205	0.089	0.0822	0.08142	1.44580741	0.150376688	9.987E-06	0.003931	0.096021	0.012571	0.582346	0.55364384	1.737418
3443	497863.09	3848877.25	0.14541	0.08532	0.1028	0.0767	0.207	0.1	0.0866	0.08532	1.51717439	0.157579698	1.07E-05	0.00404	0.096916	0.014006	0.613876	0.58016325	1.823439
3444	498363.09	3848877.25	0.15507	0.0862	0.09859	0.08484	0.21	0.102	0.0876	0.0862	1.6179646	0.159204993	1.026E-05	0.004469	0.098239	0.014394	0.620678	0.58614712	1.928812
3445	471363.09	3849377.25	0.15348	0.47784	0.04914	0.07172	0.108	0.082	0.4651	0.47784	1.60137491	0.882534963	5.116E-06	0.003778	0.050765	0.0115	3.295472	3.24924062	2.59619
3446	471863.09	3849377.25	0.15643	0.52144	0.05055	0.07528	0.112	0.087	0.4889	0.52144	1.63215453	0.963060923	5.263E-06	0.003965	0.052716	0.012288	3.463749	3.5457141	2.582225
3447	472363.09	3849377.25	0.15239	0.54018	0.05142	0.0778	0.108	0.083	0.5518	0.54018	1.5900021	0.99767231	5.353E-06	0.004098	0.050559	0.01164	3.909986	3.6731433	2.890818
3448	472863.09	3849377.25	0.14817	0.62675	0.05224	0.0769	0.115	0.079	0.6323	0.62675	1.54597159	1.157560665	5.439E-06	0.004051	0.054109	0.011098	4.479719	4.26180637	2.990708
3449	473363.09	3849377.25	0.1622	0.75109	0.05531	0.07847	0.118	0.082	0.7503	0.75109	1.69235738	1.387207403	5.758E-06	0.004133	0.055459	0.011551	5.316217	5.1072998	3.359631
3450	473863.09	3849377.25	0.18893	0.92487	0.06661	0.07187	0.116	0.08	0.8488	0.92487	1.97125203	1.708166146	6.935E-06	0.003786	0.054582	0.011299	6.013913	6.28897784	3.474027
3451	474363.09	3849377.25	0.22312	1.11204	0.05802	0.07547	0.12	0.088	1.0997	1.11204	2.3279826	2.053855225	6.04E-06	0.003975	0.056214	0.012427	7.791984	7.56170587	4.684738
3452	474863.09	3849377.25	0.24033	1.38987	0.052	0.08105	0.125	0.089	1.398	1.38987	2.50754777	2.566986584	5.414E-06	0.004269	0.058409	0.012507	9.905193	9.45090837	5.604009
3453	475363.09	3849377.25	0.28051	2.14078	0.05501	0.08617	0.127	0.095	2.1571	2.14078	2.92677662	3.953861541	5.727E-06	0.004539	0.059431	0.013332	15.28376	14.5569842	7.684722
3454	475863.09	3849377.25	0.50706	2.99808	0.05704	0.08663	0.124	0.102	3.0271	2.99808	5.29054704	5.537230919	5.938E-06	0.004563	0.057982	0.014407	21.4481	20.3864961	11.96634
3455	476363.09	3849377.25	0.76831	4.44292	0.05996	0.09862	0.135	0.089	4.4648	4.44292	8.01636927	8.205743008	6.242E-06	0.005195	0.06351	0.012534	31.635	30.2111923	17.72717
3456	476863.09	3849377.25	0.38412	6.81133	0.05982	0.09491	0.122	0.084	6.8868	6.81133	4.00781945	12.58002024	6.228E-06	0.004999	0.057157	0.011769	48.79546	46.3160265	19.14121
3457	477363.09	3849377.25	0.22595	2.93956	0.05735	0.09277	0.133	0.074	3.0208	2.93956	2.35751017	5.429148829	5.97E-06	0.004887	0.062319	0.010352	21.40353	19.9885689	9.279183
3458	477863.09	3849377.25	0.18593	1.8978	0.05089	0.07657	0.125	0.07	1.9435	1.8978	1.93995072	3.505095541	5.298E-06	0.004033	0.058826	0.009857	13.77004	12.9047565	6.383056
3459	478363.09	3849377.25	0.19014	1.55178	0.05021	0.06711	0.116	0.081	1.5594	1.55178	1.98387689	2.86602232	5.227E-06	0.003535	0.054517	0.011455	11.0492	10.5518722	5.416734
3460	478863.09	3849377.25	0.22208	1.06169	0.05255	0.06642	0.108	0.079	1.071	1.06169	2.31713148	1.960862517	5.471E-06	0.003499	0.050545	0.011113	7.588067	7.2193334	4.71189
3461	479363.09	3849377.25	0.22485	0.84272	0.04919	0.06982	0.109	0.071	0.8482	0.84272	2.34603302	1.556441203	5.121E-06	0.003678	0.051309	0.010016	6.009945	5.73037011	4.247057
3462	479863.09	3849377.25	0.16654	0.63003	0.0504	0.07648	0.114	0.069	0.6489	0.63003	1.73763993	1.163618581	5.247E-06	0.004029	0.053321	0.009766	4.597478	4.28410988	3.281747
3463	480363.09	3849377.25	0.20457	0.66076	0.05033	0.06861	0.117	0.081	0.6622	0.66076	2.13443618	1.220374607	5.24E-06	0.003614	0.055018	0.011462	4.692209	4.49306929	3.624051
3464	480863.09	3849377.25	0.21622	0.5239	0.05586	0.06902	0.122	0.096	0.5352	0.5239	2.25598959	0.96760436	5.815E-06	0.003636	0.057086	0.013451	3.791802	3.56244174	3.527133
3465	481363.09	3849377.25	0.20085	0.47597	0.05734	0.07413	0.125	0.108	0.4531	0.47597	2.09562256	0.879081212	5.969E-06	0.003905	0.058582	0.015182	3.210377	3.2365249	3.02623
3466	481863.09	3849377.25	0.17942	0.34174	0.07684	0.08563	0.136	0.107	0.338	0.34174	1.87202688	0.631168379	8E-06	0.00451	0.063759	0.015116	2.394569	2.32378095	2.657376
3467	482363.09	3849377.25	0.17858	0.27092	0.0704	0.09742	0.155	0.099	0.2728	0.27092	1.86326252	0.500369103	7.329E-06	0.005132	0.072828	0.013935	1.933028	1.84221553	2.546346
3468	482863.09	3849377.25	0.17423	0.22014	0.06721	0.09025	0.186	0.092	0.2236	0.22014	1.81787562	0.406582217	6.997E-06	0.004754	0.087078	0.012899	1.584145	1.49691911	2.416421
3469	483363.09	3849377.25	0.15889	0.18665	0.06079	0.0857	0.173	0.086	0.1887	0.18665	1.6578216	0.344728677	6.329E-06	0.004514	0.081076	0.012138	1.336795	1.26919212	2.167887
3470	483863.09	3849377.25	0.13884	0.1521	0.05121	0.07815	0.172	0.084	0.1555	0.1521	1.44862453	0.280917395	5.331E-06	0.004116	0.080706	0.011815	1.101844	1.03425728	1.893772
3471	484363.09	3849377.25	0.16172	0.2333	0.05893	0.09261	0.175	0.088	0.2396	0.2333	1.68734917	0.430887759	6.135E-06	0.004878	0.082051	0.012387	1.697369	1.58640515	2.328523
3472	484863.09	3849377.25	0.17456	0.26778	0.06573	0.10011	0.141	0.098	0.2784	0.26778	1.82131876	0.494569757	6.843E-06	0.005273	0.066052	0.013809	1.972564	1.820864	2.55273
3473	485363.09	3849377.25	0.19458	0.25535	0.07395	0.10811	0.158	0.109	0.2617	0.25535	2.03020282	0.47161247	7.699E-06	0.005695	0.074197	0.01539	1.854239	1.73634185	2.715002
3474	485863.09	3849377.25	0.17842	0.20291	0.06609	0.09351	0.16	0.098	0.2029	0.20291	1.86159311	0.374759688	6.88E-06	0.004926	0.075243	0.013827	1.437478	1.37975769	2.388075
3475	486363.09	3849377.25	0.1502	0.15091	0.0693	0.07657	0.165	0.089	0.1562	0.15091	1.56715214	0.278719553	7.215E-06	0.004033	0.077189	0.012462	1.106592	1.02616546	2.01999
3476	486863.09	3849377.25	0.13835	0.1849	0.0728	0.08087	0.156	0.088	0.1863	0.1849	1.44351198	0.341496557	7.579E-06	0.00426	0.073095	0.01236	1.31979	1.25729238	1.937229
3477	487363.09	3849377.25	0.14759	0.18457	0.06665	0.09872	0.161	0.088	0.1875	0.18457	1.53992001	0.340887071	6.939E-06	0.0052	0.075548	0.012419	1.328576	1.25504843	2.047508

3478	487863.09	3849377.25	0.15201	0.17745	0.07198	0.09983	0.147	0.094	0.1795	0.17745	1.58603727	0.327736961	7.494E-06	0.005258	0.068725	0.013176	1.271681	1.20663349	2.065988
3479	488363.09	3849377.25	0.15642	0.16583	0.08578	0.10302	0.146	0.092	0.1696	0.16583	1.63205019	0.306275684	8.93E-06	0.005426	0.0685	0.012921	1.201677	1.12761923	2.09924
3480	488863.09	3849377.25	0.16747	0.15978	0.08818	0.10396	0.147	0.094	0.1642	0.15978	1.74734334	0.295101784	9.18E-06	0.005476	0.068767	0.013222	1.163345	1.08648013	2.206785
3481	489363.09	3849377.25	0.16769	0.15342	0.07712	0.09772	0.148	0.097	0.1585	0.15342	1.74963877	0.283355337	8.029E-06	0.005147	0.069564	0.013699	1.122817	1.04323308	2.200997
3482	489863.09	3849377.25	0.16704	0.1433	0.0701	0.09367	0.169	0.095	0.1467	0.1433	1.74285682	0.264664449	7.298E-06	0.004934	0.079224	0.013366	1.039352	0.97441859	2.169985
3483	490363.09	3849377.25	0.15133	0.12647	0.08265	0.08569	0.177	0.089	0.1278	0.12647	1.5789423	0.23358069	8.604E-06	0.004514	0.082849	0.012536	0.905226	0.85997711	1.957678
3484	490863.09	3849377.25	0.1479	0.11643	0.09145	0.07169	0.177	0.083	0.1177	0.11643	1.54315447	0.215037556	9.521E-06	0.003776	0.082792	0.011711	0.833734	0.79170661	1.898509
3485	491363.09	3849377.25	0.13963	0.10805	0.09435	0.06952	0.167	0.083	0.1082	0.10805	1.4568672	0.199560319	9.822E-06	0.003662	0.078164	0.011672	0.766423	0.73472386	1.781635
3486	491863.09	3849377.25	0.13663	0.10237	0.0898	0.06745	0.157	0.082	0.1032	0.10237	1.4255659	0.189069781	9.349E-06	0.003553	0.073822	0.011602	0.731138	0.69610071	1.738659
3487	492363.09	3849377.25	0.13456	0.09494	0.08886	0.07115	0.161	0.076	0.0956	0.09494	1.40396799	0.175347123	9.251E-06	0.003748	0.075651	0.010742	0.677573	0.64557782	1.70146
3488	492863.09	3849377.25	0.12708	0.08045	0.08382	0.07583	0.158	0.068	0.0811	0.08045	1.3259234	0.14858517	8.726E-06	0.003994	0.074136	0.009496	0.574481	0.54704798	1.589576
3489	493363.09	3849377.25	0.12091	0.06984	0.07959	0.07008	0.154	0.065	0.0706	0.06984	1.26154704	0.128989289	8.286E-06	0.003691	0.072092	0.00914	0.500297	0.47490157	1.500863
3490	493863.09	3849377.25	0.11382	0.06839	0.0817	0.06779	0.162	0.063	0.0691	0.06839	1.18757162	0.126311247	8.505E-06	0.003571	0.076157	0.008896	0.489882	0.46504178	1.427356
3491	494363.09	3849377.25	0.11753	0.06804	0.08395	0.07318	0.165	0.064	0.0687	0.06804	1.2262809	0.125664823	8.74E-06	0.003855	0.077522	0.009048	0.48641	0.46266184	1.466127
3492	494863.09	3849377.25	0.13256	0.07792	0.09303	0.07401	0.181	0.076	0.0793	0.07792	1.38310045	0.143912448	9.685E-06	0.003898	0.085015	0.0107	0.561727	0.52984436	1.658519
3493	495363.09	3849377.25	0.13157	0.07751	0.09299	0.07383	0.197	0.08	0.0807	0.07751	1.37277102	0.143155209	9.681E-06	0.003889	0.092316	0.011282	0.571434	0.52705642	1.667801
3494	495863.09	3849377.25	0.1167	0.06017	0.08232	0.0676	0.175	0.068	0.0609	0.06017	1.21762087	0.111129518	8.57E-06	0.003561	0.08222	0.009532	0.431782	0.40914701	1.446707
3495	496363.09	3849377.25	0.10968	0.0589	0.07897	0.06699	0.173	0.069	0.0598	0.0589	1.14437581	0.108783922	8.221E-06	0.003529	0.080982	0.009663	0.423917	0.4005112	1.370748
3496	496863.09	3849377.25	0.13917	0.07496	0.10013	0.07689	0.201	0.085	0.0781	0.07496	1.45206767	0.138445548	1.042E-05	0.00405	0.09429	0.011977	0.553083	0.5097168	1.744208
3497	497363.09	3849377.25	0.14378	0.07825	0.09975	0.0795	0.209	0.089	0.0801	0.07825	1.50016735	0.144521934	1.038E-05	0.004188	0.098023	0.01255	0.567679	0.53208831	1.795051
3498	497863.09	3849377.25	0.17046	0.10265	0.10532	0.09654	0.218	0.107	0.1035	0.10265	1.77854031	0.18958692	1.096E-05	0.005085	0.102365	0.014993	0.733193	0.69800467	2.12577
3499	498363.09	3849377.25	0.1613	0.09056	0.10067	0.10811	0.209	0.105	0.0918	0.09056	1.68296698	0.167257589	1.048E-05	0.005695	0.098023	0.014772	0.65072	0.61579447	2.00365
3500	471363.09	3849877.25	0.17344	0.40626	0.05187	0.07121	0.117	0.086	0.4151	0.40626	1.80963294	0.750332024	5.4E-06	0.003751	0.054779	0.012047	2.940992	2.76250731	2.809032
3501	471863.09	3849877.25	0.18848	0.49005	0.05319	0.07257	0.118	0.085	0.5085	0.49005	1.96655683	0.905085926	5.537E-06	0.003823	0.0553	0.011983	3.602906	3.33226679	3.213392
3502	472363.09	3849877.25	0.17319	0.51336	0.05325	0.07943	0.114	0.087	0.5282	0.51336	1.8070245	0.948137763	5.544E-06	0.004184	0.053316	0.012249	3.742346	3.49077131	3.076491
3503	472863.09	3849877.25	0.17627	0.57227	0.05401	0.08055	0.118	0.098	0.5808	0.57227	1.83916051	1.056940154	5.623E-06	0.004243	0.055384	0.013819	4.114965	3.89135051	3.193166
3504	473363.09	3849877.25	0.16711	0.63089	0.05599	0.08835	0.119	0.094	0.6522	0.63089	1.74358718	1.165206937	5.829E-06	0.004654	0.055914	0.013201	4.621143	4.28995775	3.313754
3505	473863.09	3849877.25	0.16196	0.72696	0.05461	0.08305	0.123	0.089	0.7321	0.72696	1.68985327	1.342641087	5.685E-06	0.004375	0.057761	0.012564	5.186838	4.9432194	3.350819
3506	474363.09	3849877.25	0.16681	0.81281	0.06522	0.08491	0.127	0.087	0.8155	0.81281	1.74045705	1.501199656	6.79E-06	0.004473	0.059436	0.012254	5.777899	5.52698658	3.568738
3507	474863.09	3849877.25	0.17146	0.9453	0.07041	0.08028	0.122	0.089	0.9555	0.9453	1.78897408	1.745898838	7.33E-06	0.004229	0.057222	0.012533	6.770275	6.42789878	3.95124
3508	475363.09	3849877.25	0.18228	1.12124	0.05853	0.08098	0.128	0.096	1.132	1.12124	1.90186746	2.070846941	6.093E-06	0.004266	0.060247	0.013498	8.02077	7.6242645	4.447236
3509	475863.09	3849877.25	0.22471	1.34509	0.05675	0.08835	0.132	0.1	1.3565	1.34509	2.34457229	2.484281252	5.908E-06	0.004654	0.062038	0.014072	9.61115	9.14641106	5.374362
3510	476363.09	3849877.25	0.2665	1.55838	0.05886	0.09388	0.134	0.109	1.5796	1.55838	2.78059951	2.878212029	6.128E-06	0.004945	0.062798	0.015389	11.19225	10.5967512	6.337446
3511	476863.09	3849877.25	0.34518	2.03836	0.06359	0.1035	0.139	0.104	2.0651	2.03836	3.60152848	3.764699413	6.62E-06	0.005452	0.065217	0.014568	14.63191	13.8605435	8.222836
3512	477363.09	3849877.25	0.54132	3.24841	0.06502	0.10246	0.133	0.097	3.2855	3.24841	5.64800798	5.999571823	6.769E-06	0.005397	0.062296	0.013636	23.27917	22.0887027	12.91938
3513	477863.09	3849877.25	0.76376	6.18927	0.06297	0.10546	0.144	0.083	6.1906	6.18927	7.96889562	11.43112166	6.556E-06	0.005555	0.067374	0.011741	43.86292	42.0861114	21.2615
3514	478363.09	3849877.25	0.48481	3.03314	0.05476	0.08717	0.139	0.076	3.0378	3.03314	5.05839568	5.601984134	5.701E-06	0.004592	0.064959	0.010629	21.52405	20.6248989	11.63972
3515	478863.09	3849877.25	0.37853	2.26329	0.05351	0.07327	0.126	0.091	2.2745	2.26329	3.94949468	4.180128405	5.571E-06	0.003859	0.059121	0.012811	16.11565	15.3900339	8.93104
3516	479363.09	3849877.25	0.39348	1.51173	0.05458	0.07811	0.113	0.082	1.5203	1.51173	4.10547953	2.792052947	5.682E-06	0.004114	0.052833	0.011565	10.77194	10.2795382	7.458457
3517	479863.09	3849877.25	0.35115	1.23393	0.05472	0.07925	0.115	0.078	1.2409	1.23393	3.66381808	2.278976995	5.697E-06	0.004174	0.054085	0.01096	8.792153	8.39053967	6.413634
3518	480363.09	3849877.25	0.3046	0.88642	0.05407	0.08178	0.12	0.077	0.8905	0.88642	3.17812612	1.637151854	5.629E-06	0.004308	0.056223	0.010885	6.309514	6.02752358	5.16869
3519	480863.09	3849877.25	0.27339	0.69505	0.05635	0.07052	0.123	0.088	0.7099	0.69505	2.85248818	1.283705688	5.866E-06	0.003715	0.057668	0.012409	5.030039	4.72623617	4.513794
3520	481363.09	3849877.25	0.2437	0.58048	0.05817	0.0737	0.132	0.106	0.5926	0.58048	2.54270957	1.072103414	6.056E-06	0.003882	0.062127	0.01485	4.198643	3.94717728	3.947144
3521	481863.09	3849877.25	0.20019	0.38372	0.07542	0.08442	0.139	0.119	0.3831	0.38372	2.08873627	0.708702319	7.852E-06	0.004447	0.065048	0.016684	2.714543	2.60923868	2.988931
3522	482363.09	3849877.25	0.18346	0.30292	0.07364	0.09993	0.152	0.105	0.3055	0.30292	1.91417931	0.559470725	7.666E-06	0.005264	0.071271	0.014757	2.164507	2.05981075	2.669645
3523	482863.09	3849877.25	0.181	0.24769	0.06543	0.09023	0.172	0.097	0.2485	0.24769	1.88851224	0.45746502	6.812E-06	0.004753	0.080724	0.01364	1.76057	1.684255	2.521417
3524	483363.09	3849877.25	0.16523	0.19167	0.07256	0.08746	0.188	0.09	0.1887	0.19167	1.7239717	0.354000244	7.554E-06	0.004607	0.088232	0.012596	1.336866	1.30332737	2.216953
3525	483863.09	3849877.25	0.15295	0.18104	0.05733	0.08983	0.169	0.092	0.1797	0.18104	1.59584501	0.334367424	5.968E-06	0.004732	0.079388	0.013001	1.27331	1.23104495	2.069605
3526	484363.09	3849877.25	0.16784	0.26702	0.06237	0.09703	0.179	0.098	0.2812	0.26702	1.75120383	0.493166093	6.493E-06	0.005111	0.084054	0.013757	1.992262	1.81569611	2.523863
3527	484863.09	3849877.25	0.2082	0.33453	0.06961	0.10488	0.154	0.111	0.3375	0.33453	2.17231076	0.617852045	7.247E-06	0.005524	0.072204	0.015549	2.391097	2.27475403	2.99979
3528	485363.09	3849877.25	0.21532	0.30675	0.08912	0.11038	0.165	0.113	0.3092	0.30675	2.2465992	0.56654445	9.278E-06	0.005814	0.0774	0.015843	2.190864	2.08585418	3.01722
3529	485863.09	3849877.25	0.20834	0.25684	0.07265	0.11042	0.164	0.112	0.2591	0.25684	2.17377149	0.47436439	7.563E-06	0.005816	0.076978	0.015706	1.83603	1.74647363	2.8362
3530	486363.09	3849877.25	0.16844	0.22802	0.07547	0.09563	0.171	0.107	0.2312	0.22802	1.7574641	0.421135992	7.857E-06	0.005037	0.08012	0.015054	1.637852	1.55050194	2.366168
3531	486863.09	3849877.25	0.17139	0.24104	0.07532	0.1062	0.171	0.112	0.2433	0.24104	1.78824371	0.445182964	7.841E-06	0.005594	0.080021	0.015819	1.723656	1.63903599	2.419488
3532	487363.09	3849877.25	0.1825	0.23336	0.08568	0.11338	0.169	0.111	0.2355	0.23336	1.90416289	0.430998575	8.92E-06	0.005972	0.079426	0.015621	1.668319	1.58681314	2.517695
3533	487863.09	3849877.25	0.20152	0.21835	0.10019	0.11433	0.155	0.104	0.2202	0.21835	2.10261318	0.403276221	1.043E-05	0.006022	0.072509	0.014689	1.560055	1.48474738	2.674428
3534	488363.09	3849877.25	0.21798	0.19983	0.09484	0.11912	0.153	0.102	0.2018	0.19983	2.27435302	0.369071157	9.873E-06	0.006275	0.071618	0.014311	1.429897	1.35881415	2.80672
3535	488863.09	3849877.25	0.19558	0.18647	0.08619	0.11663	0.156	0.1	0.1882	0.18647	2.04063659	0.34439623	8.973E-06	0.006143	0.073095	0.014087	1.333607	1.26796814	2.544006
3536	489363.09	3849877.25	0.20117	0.17024	0.08761	0.10631	0.163	0.105	0.1727	0.17024	2.09896136	0.314420626	9.121E-06	0.0056	0.076326	0.014834	1.223784	1.15760657	2.576328

3537	489863.09	3849877.25	0.20084	0.15905	0.09115	0.10098	0.183	0.1	0.1624	0.15905	2.09551822	0.293753528	9.489E-06	0.005319	0.085976	0.014082	1.150592	1.08151624	2.563734
3538	490363.09	3849877.25	0.17821	0.14057	0.09674	0.09178	0.19	0.098	0.1452	0.14057	1.85940202	0.259622342	1.007E-05	0.004834	0.089099	0.013736	1.028865	0.955855	2.299714
3539	490863.09	3849877.25	0.16842	0.13272	0.10325	0.07657	0.186	0.089	0.1337	0.13272	1.75725542	0.245123975	1.075E-05	0.004033	0.087172	0.012586	0.947384	0.90247617	2.151089
3540	491363.09	3849877.25	0.15948	0.12253	0.10161	0.07749	0.167	0.089	0.1235	0.12253	1.66397752	0.226303803	1.058E-05	0.004082	0.078389	0.012457	0.874971	0.8331857	2.027005
3541	491863.09	3849877.25	0.14831	0.10581	0.10485	0.08097	0.173	0.091	0.1066	0.10581	1.54743232	0.195423205	1.092E-05	0.004265	0.081025	0.012844	0.755583	0.71949219	1.87709
3542	492363.09	3849877.25	0.1429	0.1001	0.08671	0.08192	0.168	0.092	0.101	0.1001	1.49098563	0.18487726	9.027E-06	0.004315	0.078783	0.012886	0.715834	0.68066505	1.807025
3543	492863.09	3849877.25	0.13493	0.09389	0.09025	0.08284	0.163	0.076	0.0949	0.09389	1.40782849	0.173407851	9.396E-06	0.004364	0.076603	0.010743	0.672542	0.63843797	1.70706
3544	493363.09	3849877.25	0.12671	0.07563	0.09637	0.07648	0.17	0.07	0.0775	0.07563	1.3220629	0.139682989	1.003E-05	0.004029	0.079904	0.009784	0.549257	0.5142727	1.590457
3545	493863.09	3849877.25	0.12141	0.06968	0.08864	0.07063	0.175	0.072	0.0709	0.06968	1.26676393	0.128693781	9.228E-06	0.00372	0.081934	0.010103	0.502635	0.47381359	1.520047
3546	494363.09	3849877.25	0.13575	0.08375	0.10105	0.08304	0.194	0.084	0.0861	0.08375	1.41638418	0.154680025	1.052E-05	0.004374	0.090947	0.011796	0.609766	0.56948749	1.71847
3547	494863.09	3849877.25	0.14787	0.08839	0.10501	0.08824	0.207	0.097	0.0905	0.08839	1.54284146	0.16324976	1.093E-05	0.004648	0.097268	0.013627	0.641013	0.6010388	1.861619
3548	495363.09	3849877.25	0.13824	0.07666	0.10552	0.08015	0.195	0.086	0.0796	0.07666	1.44236426	0.141585322	1.099E-05	0.004222	0.091641	0.012102	0.564278	0.52127655	1.734927
3549	495863.09	3849877.25	0.14271	0.08353	0.1105	0.08482	0.21	0.094	0.0868	0.08353	1.48900321	0.154273701	1.15E-05	0.004468	0.098614	0.013226	0.615009	0.56799152	1.806614
3550	496363.09	3849877.25	0.14936	0.08379	0.10826	0.08669	0.231	0.1	0.0857	0.08379	1.55838778	0.154753902	1.127E-05	0.004566	0.108391	0.014079	0.607145	0.56975948	1.877574
3551	496863.09	3849877.25	0.15736	0.08373	0.10447	0.08807	0.221	0.102	0.0855	0.08373	1.64185793	0.154643087	1.088E-05	0.004639	0.103795	0.01438	0.605444	0.56935149	1.955419
3552	497363.09	3849877.25	0.17573	0.10121	0.10804	0.10853	0.233	0.113	0.1017	0.10121	1.83352627	0.186927347	1.125E-05	0.005717	0.109117	0.01587	0.720227	0.68821288	2.183183
3553	497863.09	3849877.25	0.18757	0.10494	0.12908	0.11928	0.226	0.12	0.1062	0.10494	1.9570621	0.19381638	1.344E-05	0.006283	0.105934	0.016857	0.752607	0.71357632	2.318996
3554	498363.09	3849877.25	0.1786	0.09913	0.12968	0.12055	0.242	0.116	0.0998	0.09913	1.86347119	0.183085742	1.35E-05	0.00635	0.113493	0.016258	0.70719	0.67406919	2.215791
3555	471363.09	3850377.25	0.13935	0.22259	0.05454	0.07737	0.12	0.094	0.2294	0.22259	1.45394575	0.411107185	5.678E-06	0.004075	0.05635	0.013236	1.625311	1.51357875	2.050452
3556	471863.09	3850377.25	0.16699	0.3619	0.05412	0.07923	0.133	0.088	0.3692	0.3619	1.74233513	0.668402401	5.634E-06	0.004173	0.062305	0.012399	2.615844	2.46086594	2.644599
3557	472363.09	3850377.25	0.17362	0.42194	0.05559	0.07565	0.128	0.089	0.4226	0.42194	1.81151102	0.779291818	5.787E-06	0.003985	0.060251	0.012576	2.994557	2.86912897	2.793049
3558	472863.09	3850377.25	0.18548	0.50237	0.05741	0.07743	0.124	0.089	0.5027	0.50237	1.93525552	0.92784005	5.977E-06	0.004079	0.058348	0.012475	3.561669	3.41604095	3.083631
3559	473363.09	3850377.25	0.18671	0.56792	0.05652	0.08309	0.125	0.093	0.5475	0.56792	1.94808906	1.048906028	5.884E-06	0.004377	0.058446	0.013143	3.879377	3.86177116	3.090573
3560	473863.09	3850377.25	0.18797	0.61751	0.05779	0.08795	0.125	0.107	0.6025	0.61751	1.96123561	1.140495072	6.016E-06	0.004633	0.058732	0.014992	4.269001	4.19897575	3.250118
3561	474363.09	3850377.25	0.17547	0.65221	0.06159	0.09267	0.128	0.112	0.6566	0.65221	1.83081349	1.204583393	6.412E-06	0.004881	0.060008	0.015754	4.652106	4.43493057	3.333222
3562	474863.09	3850377.25	0.16805	0.74081	0.06052	0.09072	0.131	0.102	0.7237	0.74081	1.75339493	1.368221007	6.301E-06	0.004779	0.061546	0.014283	5.127676	5.03739733	3.292508
3563	475363.09	3850377.25	0.16977	0.81858	0.0739	0.09077	0.136	0.098	0.8077	0.81858	1.77134101	1.511856417	7.693E-06	0.004781	0.063665	0.013758	5.722917	5.56622171	3.522105
3564	475863.09	3850377.25	0.19232	0.88614	0.06988	0.08957	0.133	0.1	0.913	0.88614	2.00662251	1.636634715	7.275E-06	0.004718	0.062483	0.014086	6.46858	6.02561962	4.167512
3565	476363.09	3850377.25	0.22377	1.0631	0.06144	0.08857	0.139	0.108	1.0797	1.0631	2.33476455	1.963466682	6.396E-06	0.004665	0.0654	0.015206	7.650347	7.22892119	4.804935
3566	476863.09	3850377.25	0.25168	1.15814	0.06372	0.09768	0.142	0.112	1.1695	1.15814	2.62597105	2.138998498	6.634E-06	0.005145	0.066587	0.015792	8.286117	7.87517899	5.263438
3567	477363.09	3850377.25	0.28138	1.43399	0.06715	0.10449	0.141	0.116	1.4494	1.43399	2.935854	2.648472945	6.991E-06	0.005504	0.065897	0.016306	10.26924	9.75091778	6.190362
3568	477863.09	3850377.25	0.37973	1.96227	0.06863	0.1153	0.154	0.106	1.9894	1.96227	3.9620152	3.624166839	7.145E-06	0.006073	0.072199	0.014923	14.09533	13.3431429	8.431575
3569	478363.09	3850377.25	0.67225	3.50831	0.06822	0.11667	0.147	0.095	3.5633	3.50831	7.01410139	6.479587805	7.102E-06	0.006145	0.068884	0.013388	25.24741	23.8559839	14.97354
3570	478863.09	3850377.25	1.11565	6.30668	0.06029	0.10476	0.161	0.085	6.2291	6.30668	11.6404347	11.6479692	6.277E-06	0.005518	0.075613	0.011925	44.13521	42.8844819	24.63219
3571	479363.09	3850377.25	0.69863	3.22837	0.05809	0.08379	0.137	0.1	3.249	3.22837	7.28934422	5.962559433	6.048E-06	0.004414	0.064326	0.014107	23.02041	21.9524337	14.40273
3572	479863.09	3850377.25	0.62169	1.96857	0.05671	0.08546	0.122	0.085	1.9753	1.96857	6.48657002	3.635802471	5.904E-06	0.004502	0.0571	0.011981	13.9955	13.3859819	10.80548
3573	480363.09	3850377.25	0.58571	1.38186	0.06173	0.08499	0.127	0.088	1.3861	1.38186	6.111163	2.552192709	6.426E-06	0.004477	0.059323	0.012347	9.82116	9.39644157	9.164228
3574	480863.09	3850377.25	0.49785	1.1532	0.0575	0.09047	0.133	0.093	1.2008	1.1532	5.19445203	2.129874685	5.986E-06	0.004765	0.06238	0.013073	8.50796	7.84158773	8.070923
3575	481363.09	3850377.25	0.34137	0.69275	0.06248	0.07708	0.138	0.116	0.7227	0.69275	3.56177581	1.279457759	6.505E-06	0.00406	0.064823	0.016262	5.120236	4.71059651	5.336025
3576	481863.09	3850377.25	0.28314	0.62493	0.07982	0.08051	0.144	0.131	0.631	0.62493	2.95421743	1.15419926	8.31E-06	0.004241	0.067332	0.018395	4.471004	4.24943064	4.419966
3577	482363.09	3850377.25	0.23869	0.50171	0.09084	0.11216	0.149	0.126	0.5066	0.50171	2.49043639	0.926621079	9.457E-06	0.005908	0.069756	0.017741	3.58916	3.41155305	3.688079
3578	482863.09	3850377.25	0.19709	0.35148	0.07824	0.10278	0.164	0.112	0.3586	0.35148	2.05639158	0.649157435	8.145E-06	0.005414	0.076823	0.015766	2.541094	2.39001149	2.954642
3579	483363.09	3850377.25	0.18476	0.27662	0.07944	0.10408	0.196	0.106	0.2791	0.27662	1.92774321	0.510896579	8.27E-06	0.005482	0.092039	0.014871	1.977808	1.88097468	2.647874
3580	483863.09	3850377.25	0.18339	0.30632	0.0647	0.1135	0.193	0.104	0.3131	0.30632	1.91344895	0.565750272	6.736E-06	0.005979	0.09037	0.014625	2.218426	2.08293024	2.725675
3581	484363.09	3850377.25	0.19876	0.34714	0.07179	0.1227	0.197	0.117	0.3589	0.34714	2.07381598	0.641141778	7.474E-06	0.006463	0.092152	0.016483	2.542582	2.36050014	3.012145
3582	484863.09	3850377.25	0.22952	0.38669	0.07907	0.12027	0.192	0.138	0.3939	0.38669	2.39475872	0.714187688	8.232E-06	0.006335	0.090173	0.019416	2.79064	2.62943423	3.386085
3583	485363.09	3850377.25	0.25728	0.36701	0.09212	0.13055	0.17	0.134	0.3703	0.36701	2.68440016	0.677840191	9.59E-06	0.006877	0.079613	0.018893	2.623709	2.49561317	3.595728
3584	485863.09	3850377.25	0.23719	0.31623	0.08567	0.14733	0.188	0.133	0.3186	0.31623	2.47478573	0.584053305	8.919E-06	0.00776	0.088288	0.018656	2.257325	2.15031676	3.280561
3585	486363.09	3850377.25	0.21788	0.2964	0.07838	0.14108	0.176	0.144	0.2988	0.2964	2.27330965	0.547428769	8.16E-06	0.007431	0.082741	0.020243	2.116822	2.01547572	3.032509
3586	486863.09	3850377.25	0.25891	0.27897	0.09398	0.14505	0.181	0.13	0.2839	0.27897	2.7014072	0.515236855	9.784E-06	0.00764	0.084795	0.018272	2.011534	1.89695433	3.441941
3587	487363.09	3850377.25	0.24611	0.25454	0.10859	0.13566	0.178	0.12	0.2596	0.25454	2.56785495	0.470116461	1.13E-05	0.007146	0.083313	0.016816	1.839005	1.73083397	3.253429
3588	487863.09	3850377.25	0.24592	0.24112	0.11178	0.1384	0.163	0.116	0.2432	0.24112	2.56587254	0.445330718	1.164E-05	0.00729	0.076603	0.016282	1.72316	1.63957998	3.194969
3589	488363.09	3850377.25	0.24189	0.2296	0.08808	0.14383	0.162	0.112	0.2317	0.2296	2.52382445	0.424054134	9.17E-06	0.007576	0.076096	0.015785	1.641607	1.5612457	3.127707
3590	488863.09	3850377.25	0.24675	0.21467	0.08894	0.12985	0.165	0.116	0.2168	0.21467	2.57453257	0.396479534	9.259E-06	0.00684	0.077344	0.016294	1.535965	1.45972393	3.14774
3591	489363.09	3850377.25	0.25107	0.20001	0.10485	0.11944	0.186	0.113	0.2036	0.20001	2.61960645	0.369403604	1.092E-05	0.006291	0.087017	0.015955	1.442509	1.36003812	3.180756
3592	489863.09	3850377.25	0.2282	0.17711	0.10631	0.11309	0.201	0.11	0.1849	0.17711	2.38098615	0.327109006	1.107E-05	0.005957	0.094178	0.015515	1.310083	1.20432154	2.929518
3593	490363.09	3850377.25	0.21186	0.15548	0.12581	0.10765	0.195	0.109	0.1604	0.15548	2.21049836	0.287160004	1.31E-05	0.00567	0.091641	0.01536	1.136279	1.05724077	2.689382
3594	490863.09	3850377.25	0.20166	0.14454	0.10938	0.09442	0.21	0.106	0.1485	0.14454	2.10407391	0.266954637	1.139E-05	0.004973	0.09859	0.014944	1.051893	0.98285041	2.55859
3595	491363.09	3850377.25	0.18543	0.13473	0.10917	0.09387	0.184	0.103	0.1359	0.13473	1.93473384	0.248836296	1.137E-05	0.004945	0.086164	0.01449	0.962971	0.91614387	2.336007

3596	491863.09	3850377.25	0.16558	0.1183	0.1016	0.09135	0.192	0.098	0.1199	0.1183	1.72762352	0.218491307	1.058E-05	0.004812	0.090084	0.01373	0.849818	0.80442233	2.100147
3597	492363.09	3850377.25	0.15874	0.10066	0.101	0.08725	0.185	0.093	0.1028	0.10066	1.65625653	0.185911538	1.051E-05	0.004596	0.086961	0.013093	0.728021	0.68447296	1.990376
3598	492863.09	3850377.25	0.14802	0.09476	0.10902	0.08794	0.181	0.09	0.0958	0.09476	1.54440653	0.175014677	1.135E-05	0.004632	0.085048	0.012699	0.678565	0.64435384	1.856023
3599	493363.09	3850377.25	0.13814	0.08592	0.10572	0.08638	0.189	0.083	0.0875	0.08592	1.44132089	0.158687854	1.101E-05	0.00455	0.088673	0.011744	0.62004	0.58424316	1.740783
3600	493863.09	3850377.25	0.14021	0.08855	0.11367	0.08654	0.206	0.092	0.0894	0.08855	1.46291879	0.163545268	1.183E-05	0.004558	0.096644	0.012873	0.633148	0.60212677	1.771573
3601	494363.09	3850377.25	0.14824	0.08795	0.12462	0.08899	0.219	0.096	0.0888	0.08795	1.54670196	0.162437113	1.297E-05	0.004687	0.102646	0.01353	0.629393	0.59804686	1.861362
3602	494863.09	3850377.25	0.15062	0.09096	0.12343	0.09891	0.221	0.111	0.0928	0.09096	1.57153433	0.167996359	1.285E-05	0.00521	0.103626	0.015643	0.657592	0.61851441	1.903101
3603	495363.09	3850377.25	0.17153	0.10095	0.12328	0.10188	0.229	0.119	0.1018	0.10095	1.78970444	0.186447147	1.283E-05	0.005366	0.107603	0.016739	0.721077	0.68644492	2.140505
3604	495863.09	3850377.25	0.16668	0.09128	0.11994	0.10533	0.246	0.117	0.094	0.09128	1.73910066	0.168587375	1.249E-05	0.005548	0.115171	0.016444	0.665882	0.62069036	2.090055
3605	496363.09	3850377.25	0.18111	0.1018	0.12741	0.09913	0.256	0.121	0.1038	0.1018	1.88965995	0.188017033	1.326E-05	0.005222	0.120175	0.01707	0.735602	0.69222479	2.263533
3606	496863.09	3850377.25	0.20574	0.11454	0.13287	0.12188	0.252	0.12	0.1167	0.11454	2.14664369	0.211546866	1.383E-05	0.00642	0.118229	0.01692	0.827003	0.77885489	2.547922
3607	497363.09	3850377.25	0.20938	0.11496	0.14424	0.12269	0.242	0.121	0.1185	0.11496	2.18462261	0.212322575	1.502E-05	0.006463	0.113417	0.017002	0.839615	0.78171083	2.591747
3608	497863.09	3850377.25	0.20644	0.11099	0.14822	0.13216	0.246	0.127	0.1125	0.11099	2.15394733	0.20499028	1.543E-05	0.006961	0.115242	0.017838	0.796749	0.75471542	2.541027
3609	498363.09	3850377.25	0.19916	0.1066	0.14711	0.1402	0.258	0.117	0.1085	0.1066	2.07798949	0.196882277	1.532E-05	0.007385	0.120878	0.016463	0.768407	0.72486408	2.463157
3610	471363.09	3850877.25	0.14602	0.26113	0.06063	0.09301	0.123	0.104	0.2631	0.26113	1.52353899	0.482287701	6.312E-06	0.004899	0.057597	0.014643	1.864371	1.77564499	2.171698
3611	471863.09	3850877.25	0.15453	0.31425	0.05865	0.09276	0.121	0.105	0.3174	0.31425	1.61233036	0.580396393	6.106E-06	0.004886	0.056552	0.014761	2.248894	2.13685305	2.380972
3612	472363.09	3850877.25	0.16433	0.38174	0.05886	0.0924	0.125	0.109	0.3821	0.38174	1.7145813	0.705045406	6.128E-06	0.004867	0.05876	0.015328	2.707458	2.59577497	2.610271
3613	472863.09	3850877.25	0.18308	0.43306	0.06021	0.09133	0.138	0.11	0.4504	0.43306	1.91021448	0.799829632	6.268E-06	0.004811	0.064898	0.015414	3.190892	2.94474331	3.041322
3614	473363.09	3850877.25	0.19359	0.4555	0.05912	0.08875	0.141	0.104	0.4632	0.4555	2.01987339	0.841274644	6.155E-06	0.004675	0.066324	0.014639	3.282152	3.09733195	3.131611
3615	473863.09	3850877.25	0.18637	0.53433	0.06244	0.08486	0.138	0.094	0.5304	0.53433	1.94454158	0.986867794	6.5E-06	0.00447	0.064683	0.013212	3.757863	3.63336418	3.138279
3616	474363.09	3850877.25	0.18671	0.58259	0.06323	0.08868	0.132	0.105	0.5724	0.58259	1.94808906	1.076000427	6.583E-06	0.004671	0.06209	0.014754	4.055802	3.96152497	3.199888
3617	474863.09	3850877.25	0.18222	0.61577	0.06249	0.09303	0.134	0.124	0.5987	0.61577	1.90124144	1.137281421	6.506E-06	0.0049	0.06276	0.017513	4.242218	4.18714401	3.178777
3618	475363.09	3850877.25	0.18852	0.65026	0.06822	0.10235	0.139	0.132	0.6615	0.65026	1.96697418	1.200981888	7.102E-06	0.005391	0.065199	0.018599	4.686966	4.42167086	3.522447
3619	475863.09	3850877.25	0.19289	0.71836	0.07243	0.10482	0.144	0.117	0.7213	0.71836	2.01256975	1.326757526	7.54E-06	0.005521	0.067609	0.016394	5.110742	4.88474069	3.65486
3620	476363.09	3850877.25	0.19574	0.78355	0.08104	0.09925	0.15	0.114	0.8036	0.78355	2.042306	1.44715861	8.437E-06	0.005228	0.070418	0.01601	5.693796	5.32802295	3.946902
3621	476863.09	3850877.25	0.23124	0.8678	0.06705	0.09704	0.141	0.115	0.8829	0.8678	2.41270481	1.602762098	6.98E-06	0.005111	0.066202	0.016178	6.255807	5.90091036	4.457862
3622	477363.09	3850877.25	0.26172	0.97308	0.06779	0.09916	0.15	0.115	0.985	0.97308	2.73072609	1.797206433	7.057E-06	0.005223	0.070535	0.016223	6.979151	6.61679863	4.982273
3623	477863.09	3850877.25	0.27407	1.1589	0.07057	0.11166	0.149	0.123	1.1727	1.1589	2.85958314	2.140402162	7.347E-06	0.005882	0.07008	0.017351	8.308648	7.88034687	5.521607
3624	478363.09	3850877.25	0.36932	1.41798	0.07703	0.12539	0.161	0.119	1.4553	1.41798	3.85339967	2.618903665	8.019E-06	0.006605	0.075473	0.016726	10.31111	9.64205217	7.240176
3625	478863.09	3850877.25	0.50087	1.85138	0.07305	0.13056	0.164	0.109	1.8879	1.85138	5.22596201	3.419361251	7.605E-06	0.006877	0.076842	0.015296	13.37667	12.5891074	9.531903
3626	479363.09	3850877.25	0.82988	3.01816	0.06707	0.11902	0.179	0.098	3.0859	3.01816	8.65877644	5.574317187	6.982E-06	0.006269	0.083721	0.013764	21.86486	20.5230371	15.67867
3627	479863.09	3850877.25	1.34545	7.34284	0.06368	0.09494	0.158	0.111	7.2552	7.34284	14.0381149	13.5616797	6.629E-06	0.005001	0.07423	0.01563	51.40564	49.9302151	29.17009
3628	480363.09	3850877.25	0.87121	3.29142	0.06142	0.09369	0.134	0.091	3.3041	3.29142	9.09000412	6.079008096	6.394E-06	0.004935	0.062999	0.012852	23.41046	22.3811643	16.2791
3629	480863.09	3850877.25	0.58197	2.09035	0.07133	0.0987	0.135	0.097	2.1052	2.09035	6.0721407	3.860721079	7.426E-06	0.005199	0.063074	0.013616	14.91624	14.2140677	10.71693
3630	481363.09	3850877.25	0.48719	1.39652	0.06586	0.09601	0.146	0.115	1.4251	1.39652	5.08322805	2.57926864	6.856E-06	0.005057	0.068232	0.016172	10.09742	9.49612738	8.353256
3631	481863.09	3850877.25	0.44699	0.99267	0.08993	0.09081	0.154	0.148	1.0175	0.99267	4.66379052	1.833387707	9.362E-06	0.004783	0.072021	0.020852	7.209567	6.75000771	7.054404
3632	482363.09	3850877.25	0.33366	0.64772	0.0979	0.11405	0.153	0.135	0.6545	0.64772	3.48133145	1.196290696	1.019E-05	0.006007	0.07197	0.018921	4.637156	4.40439924	5.007287
3633	482863.09	3850877.25	0.27729	0.56193	0.08362	0.11428	0.162	0.128	0.5581	0.56193	2.89317988	1.037842943	8.705E-06	0.00602	0.076082	0.018042	3.954127	3.82104005	4.164262
3634	483363.09	3850877.25	0.22204	0.4162	0.09432	0.11368	0.183	0.129	0.4244	0.4162	2.31671413	0.768690465	9.819E-06	0.005988	0.085897	0.018153	3.006744	2.83009782	3.372098
3635	483863.09	3850877.25	0.21538	0.40355	0.08865	0.12215	0.226	0.13	0.4171	0.40355	2.24722522	0.745326855	9.229E-06	0.006434	0.105868	0.018264	2.955304	2.74407971	3.334352
3636	484363.09	3850877.25	0.26176	0.41234	0.08593	0.1324	0.204	0.141	0.431	0.41234	2.73114344	0.761561332	8.946E-06	0.006974	0.095805	0.01979	3.053791	2.8038504	3.865223
3637	484863.09	3850877.25	0.28228	0.41016	0.08487	0.14251	0.214	0.148	0.4302	0.41016	2.94524439	0.757535034	8.835E-06	0.007507	0.10041	0.020819	3.048051	2.78902673	4.090548
3638	485363.09	3850877.25	0.29121	0.38618	0.0997	0.16008	0.181	0.159	0.3908	0.38618	3.03841795	0.713245756	1.038E-05	0.008432	0.08487	0.022351	2.768676	2.62596631	4.010036
3639	485863.09	3850877.25	0.29058	0.34727	0.11506	0.15744	0.209	0.161	0.3569	0.34727	3.03184467	0.641381878	1.198E-05	0.008293	0.098187	0.022619	2.528836	2.36138412	3.96979
3640	486363.09	3850877.25	0.31704	0.3464	0.08517	0.16628	0.196	0.161	0.3485	0.3464	3.30792221	0.639775053	8.867E-06	0.008759	0.091843	0.022614	2.469036	2.35546825	4.184488
3641	486863.09	3850877.25	0.33098	0.32577	0.12139	0.176	0.212	0.149	0.3284	0.32577	3.45336895	0.601672976	1.264E-05	0.009271	0.09957	0.020937	2.327116	2.21518733	4.296761
3642	487363.09	3850877.25	0.27883	0.29673	0.11464	0.16891	0.192	0.137	0.2999	0.29673	2.90924788	0.548038255	1.193E-05	0.008897	0.089943	0.019278	2.124758	2.01771967	3.682455
3643	487863.09	3850877.25	0.29567	0.28038	0.11245	0.15639	0.176	0.138	0.2821	0.28038	3.08495256	0.51784102	1.171E-05	0.008238	0.08268	0.019406	1.998709	1.90654211	3.805296
3644	488363.09	3850877.25	0.32545	0.26507	0.09225	0.15825	0.172	0.136	0.2672	0.26507	3.39567021	0.489564588	9.604E-06	0.008336	0.08086	0.019069	1.892925	1.8024364	4.083998
3645	488863.09	3850877.25	0.31564	0.24559	0.10832	0.1535	0.178	0.137	0.2472	0.24559	3.29331493	0.453586476	1.128E-05	0.008085	0.083435	0.019257	1.751289	1.66997531	3.939003
3646	489363.09	3850877.25	0.30941	0.22685	0.13412	0.14224	0.2	0.138	0.2304	0.22685	3.22831255	0.418975089	1.396E-05	0.007492	0.093826	0.019346	1.632113	1.54254611	3.857532
3647	489863.09	3850877.25	0.29754	0.20379	0.13518	0.1399	0.211	0.135	0.206	0.20379	3.10446371	0.376384983	1.407E-05	0.007369	0.098853	0.019012	1.459513	1.38574156	3.679869
3648	490363.09	3850877.25	0.28673	0.18505	0.11976	0.13527	0.226	0.126	0.1866	0.18505	2.99167466	0.341773596	1.247E-05	0.007125	0.105807	0.017731	1.322412	1.25831236	3.528223
3649	490863.09	3850877.25	0.25249	0.1703	0.11922	0.11874	0.212	0.134	0.1719	0.1703	2.6344224	0.314531442	1.241E-05	0.006255	0.099195	0.018797	1.217974	1.15801456	3.133172
3650	491363.09	3850877.25	0.21226	0.15842	0.12235	0.10778	0.201	0.124	0.1611	0.15842	2.21467186	0.292589965	1.274E-05	0.005677	0.094042	0.017466	1.141593	1.07723233	2.688821
3651	491863.09	3850877.25	0.18766	0.13357	0.12712	0.10208	0.212	0.113	0.1353	0.13357	1.95800114	0.246693862	1.323E-05	0.005377	0.099373	0.015851	0.958933	0.90825605	2.375987
3652	492363.09	3850877.25	0.17881	0.11329	0.1339	0.10294	0.184	0.11	0.1148	0.11329	1.86566228	0.209238209	1.394E-05	0.005422	0.08637	0.015443	0.813683	0.77035508	2.225478
3653	492863.09	3850877.25	0.17155	0.10401	0.14402	0.10586	0.207	0.106	0.1067	0.10401	1.78991312	0.192098739	1.499E-05	0.005576	0.096958	0.014955	0.75615	0.70725246	2.148414
3654	493363.09	3850877.25	0.15992	0.09895	0.13054	0.1008	0.231	0.105	0.1025	0.09895	1.66856838	0.182753295	1.359E-05	0.00531	0.108114	0.014703	0.726533	0.67284522	2.03315

3655	493863.09	3850877.25	0.1667	0.10234	0.13347	0.10672	0.253	0.109	0.1046	0.10234	1.73930934	0.189014373	1.39E-05	0.005621	0.118848	0.01532	0.741341	0.69589671	2.113571
3656	494363.09	3850877.25	0.17308	0.1017	0.13282	0.11045	0.246	0.12	0.1033	0.1017	1.80587678	0.187832341	1.383E-05	0.005818	0.115162	0.016811	0.732201	0.69154481	2.17217
3657	494863.09	3850877.25	0.18687	0.11139	0.14487	0.11362	0.257	0.134	0.1131	0.11139	1.94975846	0.205729051	1.508E-05	0.005985	0.120461	0.018901	0.801567	0.75743536	2.344981
3658	495363.09	3850877.25	0.21396	0.11735	0.1411	0.1193	0.271	0.13	0.1256	0.11735	2.23240927	0.216736728	1.469E-05	0.006284	0.127058	0.018295	0.889567	0.79796247	2.692403
3659	495863.09	3850877.25	0.21576	0.11709	0.15364	0.10971	0.277	0.13	0.1227	0.11709	2.25119006	0.216256527	1.599E-05	0.005779	0.130083	0.018243	0.869232	0.79619451	2.694605
3660	496363.09	3850877.25	0.21967	0.12308	0.15428	0.12401	0.273	0.127	0.1287	0.12308	2.29198609	0.227319612	1.606E-05	0.006532	0.128048	0.017881	0.912169	0.83692561	2.747027
3661	496863.09	3850877.25	0.2475	0.12835	0.16314	0.1373	0.276	0.137	0.1333	0.12835	2.58235789	0.23705291	1.698E-05	0.007232	0.129356	0.019289	0.944549	0.87276083	3.047094
3662	497363.09	3850877.25	0.25119	0.12218	0.17023	0.15228	0.286	0.134	0.1285	0.12218	2.6208585	0.225657379	1.772E-05	0.008021	0.134228	0.01886	0.910681	0.83080575	3.087519
3663	497863.09	3850877.25	0.24066	0.11852	0.16381	0.1654	0.293	0.139	0.1217	0.11852	2.51099091	0.218897631	1.705E-05	0.008712	0.13752	0.019496	0.862572	0.80591829	2.952288
3664	498363.09	3850877.25	0.22745	0.11457	0.15709	0.14519	0.308	0.125	0.1155	0.11457	2.37316082	0.211602274	1.635E-05	0.007648	0.144563	0.017516	0.818501	0.77905888	2.793948
3665	471363.09	3851377.25	0.1571	0.26859	0.05881	0.09293	0.128	0.12	0.2779	0.26859	1.63914515	0.496065766	6.122E-06	0.004895	0.059904	0.016837	1.968738	1.82637188	2.35922
3666	471863.09	3851377.25	0.16776	0.34247	0.06068	0.09433	0.14	0.12	0.3411	0.34247	1.75036913	0.632516635	6.317E-06	0.004969	0.065531	0.016842	2.416958	2.32874484	2.558447
3667	472363.09	3851377.25	0.16908	0.35587	0.06782	0.09902	0.125	0.12	0.3535	0.35587	1.76414171	0.657265439	7.06E-06	0.005216	0.058582	0.016828	2.504958	2.41986284	2.587135
3668	472863.09	3851377.25	0.17021	0.36673	0.07119	0.10741	0.134	0.118	0.3667	0.36673	1.77593187	0.677323052	7.411E-06	0.005658	0.063027	0.016596	2.598273	2.49370921	2.643106
3669	473363.09	3851377.25	0.17474	0.30354	0.06361	0.11038	0.13	0.115	0.3066	0.30354	1.82319684	0.560615819	6.622E-06	0.005814	0.060931	0.016137	2.172159	2.06402665	2.574834
3670	473863.09	3851377.25	0.19213	0.3296	0.06522	0.10141	0.141	0.118	0.3364	0.3296	2.00464009	0.608746702	6.79E-06	0.005342	0.066202	0.016529	2.383445	2.24123076	2.84368
3671	474363.09	3851377.25	0.22474	0.43967	0.06479	0.10851	0.153	0.125	0.4523	0.43967	2.34488531	0.81203781	6.745E-06	0.005716	0.071928	0.017587	3.204496	2.98969032	3.466966
3672	474863.09	3851377.25	0.22104	0.50644	0.06798	0.09986	0.152	0.131	0.5422	0.50644	2.30628036	0.935357037	7.077E-06	0.00526	0.071248	0.018392	3.841895	3.44371634	3.734723
3673	475363.09	3851377.25	0.21293	0.54546	0.06984	0.09606	0.141	0.123	0.5625	0.54546	2.22166249	1.007424077	7.271E-06	0.00506	0.066305	0.017254	3.985657	3.70904651	3.594323
3674	475863.09	3851377.25	0.21169	0.59888	0.06838	0.10547	0.144	0.136	0.6081	0.59888	2.20872462	1.106086847	7.119E-06	0.005556	0.067412	0.019136	4.308254	4.07229453	3.642881
3675	476363.09	3851377.25	0.20634	0.66434	0.07315	0.11744	0.156	0.158	0.683	0.66434	2.15290395	1.226986601	7.615E-06	0.006186	0.073198	0.022283	4.83916	4.51741276	3.803313
3676	476863.09	3851377.25	0.21641	0.74236	0.08603	0.1141	0.157	0.14	0.7562	0.74236	2.25797201	1.371083742	8.956E-06	0.00601	0.073784	0.019647	5.357666	5.0479371	4.038235
3677	477363.09	3851377.25	0.23204	0.763	0.08663	0.10682	0.16	0.127	0.7864	0.763	2.42105182	1.409204288	9.019E-06	0.005627	0.075172	0.017842	5.572069	5.18828602	4.31269
3678	477863.09	3851377.25	0.23717	0.84581	0.07473	0.10995	0.153	0.128	0.8805	0.84581	2.47457706	1.562148203	7.78E-06	0.005792	0.07182	0.017957	6.23866	5.75138165	4.61958
3679	478363.09	3851377.25	0.26311	0.97996	0.07531	0.11197	0.163	0.131	1.0236	0.97996	2.74522903	1.809913282	7.84E-06	0.005898	0.076481	0.018384	7.252504	6.66358161	5.244835
3680	478863.09	3851377.25	0.30654	1.10446	0.08162	0.1282	0.164	0.133	1.1272	1.10446	3.19836763	2.039855528	8.497E-06	0.006753	0.076739	0.018708	7.986548	7.51016301	5.816816
3681	479363.09	3851377.25	0.35283	1.42386	0.07926	0.14527	0.179	0.124	1.4522	1.42386	3.68134681	2.629763588	8.251E-06	0.007652	0.083866	0.017402	10.28964	9.68203529	7.027647
3682	479863.09	3851377.25	0.41347	1.82815	0.07366	0.14099	0.194	0.117	1.8981	1.82815	4.31405058	3.376457168	7.668E-06	0.007427	0.09113	0.016514	13.44858	12.4311469	8.82302
3683	480363.09	3851377.25	0.71565	3.03496	0.07105	0.11322	0.179	0.125	3.0891	3.03496	7.46692698	5.605345538	7.397E-06	0.005964	0.083908	0.017531	21.8876	20.6372746	14.43001
3684	480863.09	3851377.25	1.17499	7.66008	0.07078	0.10877	0.154	0.106	7.8304	7.66008	12.2595746	14.1475984	7.369E-06	0.005729	0.072054	0.014899	55.48114	52.0873997	29.8936
3685	481363.09	3851377.25	0.69581	2.98388	0.07445	0.1165	0.145	0.112	3.0237	2.98388	7.25992099	5.511004575	7.751E-06	0.006137	0.068082	0.015822	21.42379	20.2899382	13.99483
3686	481863.09	3851377.25	0.50726	1.67122	0.07731	0.10191	0.157	0.153	1.6986	1.67122	5.2926338	3.086619122	8.048E-06	0.005368	0.073639	0.021574	12.03505	11.3640463	9.150848
3687	482363.09	3851377.25	0.48599	1.17191	0.12449	0.12109	0.163	0.162	1.1977	1.17191	5.07070753	2.164430665	1.296E-05	0.006378	0.076354	0.022795	8.48642	7.96881293	7.858286
3688	482863.09	3851377.25	0.40285	0.71766	0.09051	0.13252	0.165	0.157	0.7419	0.71766	4.20324395	1.325464678	9.423E-06	0.00698	0.077437	0.022137	5.256629	4.87998079	6.011921
3689	483363.09	3851377.25	0.31156	0.53831	0.12209	0.13842	0.181	0.148	0.5487	0.53831	3.25074515	0.994218559	1.271E-05	0.007291	0.085034	0.020845	3.888021	3.66042758	4.58574
3690	483863.09	3851377.25	0.29107	0.4503	0.11207	0.13733	0.217	0.148	0.453	0.4503	3.03695722	0.83167063	1.167E-05	0.007234	0.101718	0.020858	3.209668	3.06197273	4.146145
3691	484363.09	3851377.25	0.3116	0.52089	0.09281	0.14606	0.239	0.163	0.5333	0.52089	3.2511625	0.962045113	9.662E-06	0.007694	0.112128	0.022939	3.778835	3.54197419	4.592839
3692	484863.09	3851377.25	0.30179	0.40295	0.08855	0.16014	0.224	0.157	0.4186	0.40295	3.14880723	0.7442187	9.219E-06	0.008435	0.105014	0.022071	2.966145	2.7399998	4.2547
3693	485363.09	3851377.25	0.34616	0.4644	0.11935	0.19652	0.221	0.212	0.4762	0.4644	3.61175357	0.857712282	1.243E-05	0.010352	0.103514	0.029798	3.373978	3.15785062	4.829269
3694	485863.09	3851377.25	0.38047	0.39261	0.12243	0.17039	0.221	0.191	0.4006	0.39261	3.96973619	0.725121488	1.275E-05	0.008975	0.103805	0.026806	2.838183	2.66968935	5.00295
3695	486363.09	3851377.25	0.41612	0.39209	0.11773	0.20926	0.222	0.189	0.4055	0.39209	4.34170007	0.724161087	1.226E-05	0.011023	0.104133	0.026565	2.873256	2.66615343	5.414696
3696	486863.09	3851377.25	0.39254	0.35549	0.12492	0.20276	0.226	0.176	0.3578	0.35549	4.09567179	0.656563607	1.3E-05	0.01068	0.106027	0.024786	2.535426	2.41727889	5.011888
3697	487363.09	3851377.25	0.32927	0.28842	0.1127	0.18201	0.206	0.156	0.2901	0.28842	3.43552721	0.532690302	1.173E-05	0.009587	0.096461	0.021965	2.055676	1.96121291	4.190706
3698	487863.09	3851377.25	0.36909	0.29906	0.13985	0.18341	0.193	0.164	0.3008	0.29906	3.8509999	0.552341592	1.456E-05	0.009661	0.090576	0.023044	2.131064	2.03356332	4.624138
3699	488363.09	3851377.25	0.38789	0.29012	0.12056	0.17869	0.184	0.158	0.2925	0.29012	4.04715476	0.535830076	1.255E-05	0.009412	0.08645	0.02221	2.072397	1.97277266	4.800694
3700	488863.09	3851377.25	0.38321	0.26821	0.15727	0.18215	0.194	0.154	0.272	0.26821	3.99832472	0.495363935	1.637E-05	0.009595	0.090914	0.021696	1.927076	1.82378793	4.719199
3701	489363.09	3851377.25	0.36293	0.24379	0.16202	0.17311	0.224	0.15	0.2466	0.24379	3.78672788	0.45026201	1.687E-05	0.009118	0.105014	0.021063	1.747179	1.65773558	4.461647
3702	489863.09	3851377.25	0.35867	0.22553	0.12592	0.15806	0.235	0.152	0.2271	0.22553	3.74228002	0.416537147	1.311E-05	0.008326	0.110421	0.021364	1.608873	1.53357031	4.374244
3703	490363.09	3851377.25	0.32362	0.20979	0.14473	0.14473	0.241	0.145	0.2111	0.20979	3.37657641	0.387466537	1.507E-05	0.007624	0.113066	0.020433	1.495649	1.42654066	3.974289
3704	490863.09	3851377.25	0.28085	0.19089	0.14022	0.13923	0.211	0.145	0.1921	0.19089	2.9303241	0.352559642	1.46E-05	0.007334	0.098764	0.020429	1.36124	1.29802348	3.472641
3705	491363.09	3851377.25	0.24426	0.17275	0.16068	0.13492	0.225	0.144	0.1746	0.17275	2.54855248	0.31905641	1.673E-05	0.007107	0.105272	0.020228	1.237246	1.17467419	3.062804
3706	491863.09	3851377.25	0.20767	0.16015	0.17322	0.12979	0.212	0.137	0.1636	0.16015	2.16678086	0.295785146	1.803E-05	0.006837	0.099594	0.019244	1.159307	1.08899608	2.658569
3707	492363.09	3851377.25	0.20686	0.14602	0.17556	0.12785	0.229	0.137	0.1496	0.14602	2.15832951	0.269688087	1.828E-05	0.006734	0.107387	0.019305	1.059828	0.99291419	2.628376
3708	492863.09	3851377.25	0.18851	0.12488	0.15052	0.12889	0.253	0.131	0.1276	0.12488	1.96686984	0.230644078	1.567E-05	0.006789	0.118472	0.018423	0.903809	0.84916534	2.395857
3709	493363.09	3851377.25	0.17404	0.09854	0.14693	0.11096	0.256	0.121	0.1007	0.09854	1.8158932	0.181996056	1.53E-05	0.005845	0.120015	0.016958	0.713638	0.67005728	2.184303
3710	493863.09	3851377.25	0.18362	0.10366	0.14856	0.11916	0.269	0.12	0.106	0.10366	1.91584871	0.191452315	1.547E-05	0.006277	0.126341	0.016842	0.750694	0.70487251	2.302597
3711	494363.09	3851377.25	0.2129	0.12621	0.17501	0.12838	0.286	0.137	0.1294	0.12621	2.22134948	0.233100489	1.822E-05	0.006762	0.13389	0.019271	0.917129	0.85820915	2.673312
3712	494863.09	3851377.25	0.22231	0.12549	0.16808	0.13136	0.308	0.146	0.1276	0.12549	2.31953125	0.231770703	1.75E-05	0.006919	0.144521	0.020526	0.90395	0.85331325	2.773923
3713	495363.09	3851377.25	0.27532	0.13999	0.17112	0.13866	0.308	0.146	0.1468	0.13999	2.87262535	0.258551125	1.781E-05	0.007304	0.144249	0.020529	1.040273	0.95191109	3.391637

3714	495863.09	3851377.25	0.30567	0.14049	0.18907	0.14531	0.298	0.144	0.1511	0.14049	3.18929025	0.259474588	1.968E-05	0.007654	0.139729	0.020201	1.070669	0.95531101	3.731726
3715	496363.09	3851377.25	0.31351	0.13943	0.19646	0.15581	0.288	0.145	0.1501	0.13943	3.271091	0.257516846	2.045E-05	0.008207	0.134852	0.020418	1.0633	0.94810317	3.807302
3716	496863.09	3851377.25	0.30668	0.13563	0.1924	0.17463	0.323	0.145	0.1457	0.13563	3.19982836	0.250498529	2.003E-05	0.009198	0.151306	0.020432	1.032337	0.92226374	3.741357
3717	497363.09	3851377.25	0.30186	0.13122	0.2001	0.18695	0.324	0.147	0.1392	0.13122	3.14953759	0.242353587	2.083E-05	0.009847	0.151986	0.020723	0.986282	0.8922764	3.668474
3718	497863.09	3851377.25	0.27629	0.12744	0.18356	0.16534	0.336	0.137	0.1335	0.12744	2.88274611	0.235372208	1.911E-05	0.008709	0.157365	0.019334	0.945541	0.86657296	3.382514
3719	498363.09	3851377.25	0.23731	0.11497	0.17771	0.14451	0.3	0.13	0.1196	0.11497	2.47603778	0.212341045	1.85E-05	0.007612	0.140891	0.018248	0.847338	0.78177882	2.920709
3720	471363.09	3851877.25	0.16747	0.26602	0.06442	0.09423	0.137	0.116	0.2656	0.26602	1.74734334	0.491319167	6.707E-06	0.004963	0.064237	0.016313	1.882155	1.80889626	2.397442
3721	471863.09	3851877.25	0.17932	0.25275	0.06534	0.10582	0.135	0.118	0.2548	0.25275	1.87098351	0.466810464	6.802E-06	0.005574	0.063079	0.016635	1.805421	1.71866224	2.509847
3722	472363.09	3851877.25	0.17836	0.28449	0.06688	0.11291	0.139	0.129	0.2868	0.28449	1.86096709	0.525431884	6.963E-06	0.005947	0.065381	0.018119	2.032365	1.9344895	2.573729
3723	472863.09	3851877.25	0.17761	0.31661	0.06659	0.11005	0.149	0.133	0.3125	0.31661	1.85314176	0.584755137	6.932E-06	0.005797	0.069817	0.01868	2.213963	2.1529007	2.59326
3724	473363.09	3851877.25	0.1756	0.28762	0.07099	0.10693	0.149	0.131	0.2744	0.28762	1.83216988	0.531212762	7.39E-06	0.005632	0.069817	0.018421	1.944506	1.95577303	2.445995
3725	473863.09	3851877.25	0.17711	0.2935	0.07937	0.11184	0.144	0.131	0.2778	0.2935	1.84792487	0.542072685	8.263E-06	0.005891	0.067388	0.018399	1.967959	1.99575615	2.453887
3726	474363.09	3851877.25	0.19782	0.35538	0.07924	0.12125	0.141	0.13	0.3587	0.35538	2.06400824	0.656360445	8.249E-06	0.006387	0.06608	0.018277	2.541165	2.41653091	2.935754
3727	474863.09	3851877.25	0.22734	0.42047	0.07148	0.12822	0.148	0.128	0.4225	0.42047	2.37201311	0.776576837	7.442E-06	0.006754	0.069255	0.017984	2.993352	2.85913319	3.376809
3728	475363.09	3851877.25	0.24883	0.47711	0.07387	0.11941	0.163	0.138	0.494	0.47711	2.59623481	0.881186707	7.69E-06	0.00629	0.076546	0.019426	3.499814	3.24427673	3.835229
3729	475863.09	3851877.25	0.26074	0.50327	0.07444	0.11855	0.161	0.153	0.5377	0.50327	2.720501	0.929502283	7.75E-06	0.006245	0.075585	0.021547	3.809657	3.42216082	4.140884
3730	476363.09	3851877.25	0.23591	0.5285	0.07786	0.11383	0.15	0.154	0.5472	0.5285	2.46143051	0.976100218	8.106E-06	0.005996	0.070563	0.021715	3.877393	3.59372105	3.819484
3731	476863.09	3851877.25	0.24771	0.61273	0.07654	0.12384	0.154	0.155	0.6332	0.61273	2.58454899	1.131666767	7.968E-06	0.006523	0.072392	0.02183	4.48645	4.16647247	4.136947
3732	477363.09	3851877.25	0.2206	0.66955	0.0796	0.12428	0.167	0.175	0.6863	0.66955	2.3016895	1.236609084	8.287E-06	0.006546	0.078535	0.024606	4.862967	4.55283998	3.95812
3733	477863.09	3851877.25	0.25681	0.69513	0.09599	0.13488	0.175	0.169	0.7332	0.69513	2.67949629	1.283853443	9.993E-06	0.007105	0.081864	0.023807	5.194774	4.72678016	4.544129
3734	478363.09	3851877.25	0.25081	0.75783	0.08491	0.13282	0.166	0.156	0.788	0.75783	2.61689367	1.399655682	8.84E-06	0.006996	0.077723	0.021879	5.582981	5.15313079	4.553007
3735	478863.09	3851877.25	0.27846	0.86803	0.08194	0.12029	0.168	0.144	0.906	0.86803	2.90538739	1.603186891	8.53E-06	0.006336	0.078689	0.020264	6.419479	5.90247433	5.130877
3736	479363.09	3851877.25	0.26211	0.98611	0.08648	0.13148	0.176	0.141	1.0016	0.98611	2.73479526	1.821271875	9.003E-06	0.006926	0.082394	0.019765	7.096414	6.70540069	5.056174
3737	479863.09	3851877.25	0.2776	1.15641	0.09198	0.15749	0.189	0.157	1.1575	1.15641	2.89641435	2.135803317	9.576E-06	0.008296	0.088405	0.022141	8.201305	7.86341525	5.488959
3738	480363.09	3851877.25	0.32794	1.42343	0.08145	0.16911	0.204	0.158	1.4698	1.42343	3.42165029	2.62896941	8.479E-06	0.008908	0.095692	0.022293	10.41413	9.67911136	6.912544
3739	480863.09	3851877.25	0.43776	1.95543	0.07789	0.14157	0.2	0.142	1.9899	1.95543	4.56748683	3.611533867	8.109E-06	0.007457	0.09369	0.020011	14.09881	13.2966319	9.10236
3740	481363.09	3851877.25	0.70857	3.76257	0.08793	0.13467	0.172	0.13	3.795	3.76257	7.39305589	6.949187127	9.154E-06	0.007094	0.080753	0.018347	26.88916	25.5849139	15.75269
3741	481863.09	3851877.25	0.58224	2.7963	0.08588	0.12917	0.155	0.152	2.8183	2.7963	6.07495782	5.164558257	8.941E-06	0.006804	0.072908	0.021449	19.96888	19.0144223	12.29515
3742	482363.09	3851877.25	0.54927	1.27142	0.14001	0.118	0.17	0.169	1.3541	1.27142	5.73095645	2.348218238	1.458E-05	0.006216	0.079571	0.023801	9.593933	8.64546607	9.137243
3743	482863.09	3851877.25	0.4731	0.79981	0.09886	0.15201	0.173	0.174	0.8188	0.79981	4.93621624	1.477189622	1.029E-05	0.008007	0.08125	0.024435	5.801493	5.43858852	6.890013
3744	483363.09	3851877.25	0.40883	0.77823	0.11983	0.15933	0.176	0.172	0.7952	0.77823	4.26563789	1.437332966	1.248E-05	0.008393	0.08238	0.02417	5.633996	5.29184774	6.160073
3745	483863.09	3851877.25	0.36408	0.6651	0.1481	0.1559	0.207	0.18	0.6801	0.6651	3.79872671	1.228390265	1.542E-05	0.008212	0.096888	0.025343	4.818683	4.52258064	5.453677
3746	484363.09	3851877.25	0.39158	0.59407	0.11202	0.18886	0.259	0.196	0.6244	0.59407	4.08565537	1.097203134	1.166E-05	0.009948	0.121225	0.02763	4.424099	4.03958725	5.726185
3747	484863.09	3851877.25	0.43825	0.52051	0.09679	0.20645	0.237	0.238	0.5288	0.52051	4.57259938	0.961343282	1.008E-05	0.010875	0.110951	0.033546	3.746526	3.53939024	5.89646
3748	485363.09	3851877.25	0.478	0.49995	0.11874	0.2206	0.248	0.245	0.5188	0.49995	4.98734171	0.92337049	1.236E-05	0.01162	0.116245	0.034443	3.675531	3.39958531	6.348978
3749	485863.09	3851877.25	0.51863	0.47042	0.16554	0.24065	0.231	0.249	0.4865	0.47042	5.41126576	0.868830775	1.723E-05	0.012676	0.1081	0.034985	3.446815	3.19878572	6.683904
3750	486363.09	3851877.25	0.50463	0.42812	0.16818	0.23612	0.239	0.236	0.4362	0.42812	5.26519299	0.790705819	1.751E-05	0.012437	0.11187	0.03318	3.090705	2.91115204	6.392957
3751	486863.09	3851877.25	0.47499	0.40488	0.12511	0.24373	0.239	0.214	0.407	0.40488	4.95593606	0.747783266	1.302E-05	0.012838	0.111959	0.030165	2.883813	2.75312352	5.989384
3752	487363.09	3851877.25	0.45416	0.36607	0.14229	0.24675	0.228	0.209	0.3683	0.36607	4.73860065	0.676104081	1.481E-05	0.012997	0.106796	0.029404	2.609751	2.48922131	5.684447
3753	487863.09	3851877.25	0.4371	0.30121	0.17522	0.20905	0.215	0.174	0.3032	0.30121	4.56060055	0.556312482	1.824E-05	0.011012	0.100907	0.024532	2.148069	2.048183	5.353268
3754	488363.09	3851877.25	0.43568	0.27975	0.18249	0.18957	0.212	0.173	0.2858	0.27975	4.54578459	0.516677457	1.9E-05	0.009985	0.099237	0.02433	2.024996	1.90225821	5.318772
3755	488863.09	3851877.25	0.3986	0.25481	0.16377	0.16884	0.215	0.163	0.2641	0.25481	4.15890043	0.470615131	1.705E-05	0.008893	0.100836	0.022984	1.871102	1.73266993	4.900678
3756	489363.09	3851877.25	0.34822	0.23847	0.14158	0.15597	0.251	0.155	0.2469	0.23847	3.63324713	0.440436365	1.474E-05	0.008216	0.117577	0.021806	1.749446	1.62156038	4.349183
3757	489863.09	3851877.25	0.28812	0.21799	0.16076	0.16435	0.258	0.152	0.2209	0.21799	3.0061776	0.402611327	1.674E-05	0.008657	0.120967	0.021426	1.565085	1.48229943	3.642642
3758	490363.09	3851877.25	0.28785	0.20023	0.19074	0.15516	0.246	0.151	0.2038	0.20023	3.00336048	0.369809927	1.986E-05	0.008173	0.115537	0.021194	1.443642	1.36153409	3.600203
3759	490863.09	3851877.25	0.28939	0.18845	0.20662	0.14913	0.245	0.152	0.1922	0.18845	3.01942849	0.348053143	2.151E-05	0.007855	0.115082	0.021378	1.361735	1.28143185	3.592123
3760	491363.09	3851877.25	0.29016	0.17685	0.20893	0.15525	0.233	0.157	0.1821	0.17685	3.02746249	0.326628805	2.175E-05	0.008178	0.109061	0.022151	1.290102	1.20255358	3.581052
3761	491863.09	3851877.25	0.27651	0.17399	0.21367	0.15534	0.25	0.16	0.1799	0.17399	2.88504154	0.321346598	2.224E-05	0.008182	0.117352	0.022498	1.27494	1.18310601	3.446277
3762	492363.09	3851877.25	0.24788	0.1614	0.21204	0.1471	0.29	0.152	0.1671	0.1614	2.58632273	0.298093804	2.207E-05	0.007748	0.136118	0.021439	1.184035	1.09749589	3.136283
3763	492863.09	3851877.25	0.20484	0.11989	0.17533	0.13008	0.283	0.134	0.1235	0.11989	2.1372533	0.221427919	1.825E-05	0.006852	0.132742	0.018813	0.8749	0.81523409	2.576772
3764	493363.09	3851877.25	0.23896	0.15339	0.20245	0.14276	0.339	0.155	0.1579	0.15339	2.4932535	0.283299929	2.108E-05	0.00752	0.158912	0.021744	1.118495	1.04302909	3.040217
3765	493863.09	3851877.25	0.33193	0.17258	0.20948	0.16415	0.328	0.169	0.1787	0.17258	3.46328103	0.318742433	2.181E-05	0.008646	0.15359	0.023729	1.266437	1.17351822	4.06093
3766	494363.09	3851877.25	0.30344	0.1574	0.19779	0.15407	0.336	0.161	0.1646	0.1574	3.16602295	0.290706101	2.059E-05	0.008115	0.157379	0.022701	1.166038	1.07029649	3.740686
3767	494863.09	3851877.25	0.35619	0.16689	0.23407	0.15801	0.342	0.161	0.1716	0.16689	3.71640428	0.308233425	2.437E-05	0.008323	0.160544	0.022653	1.215848	1.13482707	4.297203
3768	495363.09	3851877.25	0.38554	0.16853	0.24982	0.16748	0.353	0.16	0.1744	0.16853	4.0226354	0.311262384	2.601E-05	0.008822	0.165346	0.022567	1.23597	1.14597882	4.62065
3769	495863.09	3851877.25	0.3946	0.16731	0.25102	0.1877	0.338	0.165	0.1722	0.16731	4.11716535	0.309009134	2.613E-05	0.009887	0.158598	0.023162	1.220028	1.13768301	4.700193
3770	496363.09	3851877.25	0.38343	0.15859	0.24159	0.19927	0.355	0.169	0.1619	0.15859	4.00062015	0.292903942	2.515E-05	0.010496	0.166504	0.023762	1.147191	1.07838831	4.563113
3771	496863.09	3851877.25	0.36366	0.14774	0.22693	0.19989	0.397	0.165	0.1529	0.14774	3.79434453	0.272864799	2.362E-05	0.010529	0.186044	0.023228	1.083068	1.00460993	4.365492
3772	497363.09	3851877.25	0.32917	0.13889	0.21576	0.18332	0.35	0.164	0.1459	0.13889	3.43448383	0.256519507	2.246E-05	0.009656	0.164192	0.023044	1.033896	0.94443125	3.977383

3773	497863.09	3851877.25	0.27367	0.12521	0.19859	0.1646	0.359	0.137	0.1309	0.12521	2.85540964	0.231253563	2.067E-05	0.00867	0.168525	0.019235	0.927119	0.8514093	3.358824
3774	498363.09	3851877.25	0.24125	0.11682	0.17809	0.14999	0.35	0.134	0.1185	0.11682	2.51714684	0.215757857	1.854E-05	0.007901	0.163925	0.018828	0.839544	0.79435855	2.968762
3775	471363.09	3852377.25	0.18762	0.20199	0.08199	0.09106	0.154	0.106	0.2053	0.20199	1.95758379	0.373060517	8.536E-06	0.004797	0.072176	0.014931	1.454341	1.37350183	2.503396
3776	471863.09	3852377.25	0.19064	0.23349	0.082	0.09106	0.152	0.113	0.2392	0.23349	1.98909377	0.431238675	8.537E-06	0.004797	0.071051	0.015882	1.694535	1.58769712	2.618908
3777	472363.09	3852377.25	0.18686	0.24899	0.08085	0.10191	0.149	0.125	0.2513	0.24899	1.94965413	0.459866023	8.417E-06	0.005368	0.070014	0.017593	1.780409	1.6930948	2.589818
3778	472863.09	3852377.25	0.19303	0.27201	0.07749	0.11315	0.153	0.13	0.2703	0.27201	2.01403048	0.502382252	8.067E-06	0.00596	0.071651	0.018324	1.915102	1.84962737	2.677831
3779	473363.09	3852377.25	0.2008	0.27753	0.07505	0.13132	0.147	0.136	0.2836	0.27753	2.09510087	0.512577282	7.813E-06	0.006917	0.068776	0.019101	2.009337	1.88716254	2.824655
3780	473863.09	3852377.25	0.19772	0.27253	0.07534	0.13108	0.154	0.144	0.2791	0.27253	2.06296486	0.503342653	7.843E-06	0.006905	0.072199	0.020208	1.977737	1.85316329	2.790201
3781	474363.09	3852377.25	0.19715	0.27211	0.07651	0.13009	0.162	0.145	0.2701	0.27211	2.05701761	0.502566945	7.965E-06	0.006852	0.075866	0.02036	1.913969	1.85030735	2.726332
3782	474863.09	3852377.25	0.20459	0.37221	0.08358	0.13187	0.17	0.146	0.3768	0.37221	2.13464485	0.687444204	8.701E-06	0.006946	0.079829	0.020505	2.669906	2.5309724	3.068311
3783	475363.09	3852377.25	0.21096	0.37585	0.09065	0.13274	0.161	0.149	0.3808	0.37585	2.20110796	0.694167014	9.437E-06	0.006992	0.075421	0.020903	2.698035	2.55572385	3.140911
3784	475863.09	3852377.25	0.23294	0.37596	0.09172	0.14628	0.157	0.144	0.3766	0.37596	2.43044221	0.694370176	9.549E-06	0.007705	0.073414	0.020281	2.667993	2.55647184	3.337743
3785	476363.09	3852377.25	0.25837	0.37797	0.08128	0.14729	0.173	0.153	0.3958	0.37797	2.69577297	0.698082496	8.462E-06	0.007758	0.08125	0.02156	2.804102	2.57013954	3.738395
3786	476863.09	3852377.25	0.28188	0.43094	0.08757	0.14066	0.177	0.174	0.4364	0.43094	2.94107088	0.795914149	9.117E-06	0.007409	0.08291	0.024454	3.091839	2.93032762	4.013278
3787	477363.09	3852377.25	0.28827	0.43464	0.0958	0.13159	0.172	0.19	0.4512	0.43464	3.00774267	0.802747774	9.973E-06	0.006931	0.080828	0.02678	3.196773	2.95548707	4.166326
3788	477863.09	3852377.25	0.27715	0.32057	0.08477	0.14089	0.171	0.182	0.3393	0.32057	2.89171915	0.592068963	8.825E-06	0.007421	0.080148	0.025641	2.404205	2.17982811	3.821383
3789	478363.09	3852377.25	0.23898	0.30008	0.09578	0.12423	0.175	0.192	0.3578	0.30008	2.49346218	0.554225456	9.971E-06	0.006544	0.082159	0.02707	2.535355	2.04049917	3.658326
3790	478863.09	3852377.25	0.30022	0.40723	0.10671	0.14646	0.186	0.2	0.4359	0.40723	3.13242621	0.752123542	1.111E-05	0.007715	0.087355	0.028158	3.088721	2.76910316	4.327406
3791	479363.09	3852377.25	0.28648	0.47881	0.09695	0.15942	0.179	0.183	0.5156	0.47881	2.98906622	0.884326481	1.009E-05	0.008397	0.083955	0.025806	3.653141	3.25583647	4.388866
3792	479863.09	3852377.25	0.29216	0.80356	0.09651	0.1465	0.19	0.169	0.821	0.80356	3.04833003	1.484115593	1.005E-05	0.007717	0.088912	0.023812	5.81701	5.46408796	5.005819
3793	480363.09	3852377.25	0.26281	1.03584	0.10443	0.16964	0.194	0.175	1.0045	1.03584	2.7420989	1.913119488	1.087E-05	0.008936	0.091181	0.024575	7.117032	7.04355726	4.853396
3794	480863.09	3852377.25	0.28493	1.2309	0.09728	0.21071	0.223	0.186	1.2235	1.2309	2.97289388	2.27338081	1.013E-05	0.011099	0.104752	0.026198	8.66901	8.36993612	5.687407
3795	481363.09	3852377.25	0.38087	1.79344	0.09189	0.18037	0.234	0.187	1.8261	1.79344	3.9739097	3.312350378	9.566E-06	0.009501	0.109769	0.02625	12.93858	12.1951241	8.175243
3796	481863.09	3852377.25	0.68618	4.16048	0.09655	0.18141	0.199	0.174	4.216	4.16048	7.1594438	7.684097321	1.005E-05	0.009556	0.093282	0.024538	29.87174	28.2906425	16.55202
3797	482363.09	3852377.25	0.54468	2.08276	0.12716	0.15466	0.17	0.203	2.1303	2.08276	5.68306544	3.846702913	1.324E-05	0.008147	0.079796	0.028554	15.09366	14.1624569	10.57748
3798	482863.09	3852377.25	0.44363	1.07417	0.14281	0.19228	0.19	0.192	1.1614	1.07417	4.62873306	1.983912149	1.487E-05	0.010128	0.088874	0.026982	8.229009	7.30419553	7.663457
3799	483363.09	3852377.25	0.46677	0.638	0.12839	0.18738	0.186	0.224	0.7071	0.638	4.87017048	1.178338579	1.337E-05	0.00987	0.087153	0.03153	5.009917	4.33830469	6.848688
3800	483863.09	3852377.25	0.43092	0.62318	0.15554	0.20638	0.199	0.206	0.6477	0.62318	4.49611985	1.15096714	1.619E-05	0.010871	0.093095	0.028943	4.588905	4.2375309	6.131385
3801	484363.09	3852377.25	0.47274	0.66197	0.12458	0.23569	0.237	0.284	0.6827	0.66197	4.93246008	1.222609387	1.297E-05	0.012415	0.111003	0.039974	4.836963	4.50129711	6.65414
3802	484863.09	3852377.25	0.54974	0.63663	0.11809	0.28164	0.279	0.317	0.6815	0.63663	5.73586032	1.175808291	1.229E-05	0.014835	0.130608	0.044653	4.828886	4.3289889	7.601674
3803	485363.09	3852377.25	0.59546	0.56913	0.22002	0.29174	0.272	0.346	0.6089	0.56913	6.21289225	1.051140808	2.291E-05	0.015367	0.127527	0.04873	4.314347	3.86999898	7.900029
3804	485863.09	3852377.25	0.62822	0.50343	0.21634	0.2995	0.273	0.34	0.5295	0.50343	6.55470253	0.929797791	2.252E-05	0.015776	0.127987	0.04784	3.751415	3.42324879	8.004291
3805	486363.09	3852377.25	0.58918	0.42007	0.16119	0.29732	0.265	0.28	0.4234	0.42007	6.14736818	0.775838067	1.678E-05	0.015661	0.124282	0.039339	3.000083	2.85641325	7.246175
3806	486863.09	3852377.25	0.58797	0.36747	0.16551	0.29264	0.261	0.26	0.3709	0.36747	6.13474332	0.678689777	1.723E-05	0.015415	0.122458	0.036567	2.627819	2.4987411	7.116968
3807	487363.09	3852377.25	0.5355	0.33621	0.1906	0.26001	0.245	0.207	0.3404	0.33621	5.58728344	0.62095488	1.984E-05	0.013696	0.114651	0.029137	2.411786	2.28617777	6.49135
3808	487863.09	3852377.25	0.49212	0.30122	0.22796	0.22117	0.235	0.186	0.306	0.30122	5.13466653	0.556330951	2.373E-05	0.01165	0.110187	0.026156	2.16805	2.048251	5.958812
3809	488363.09	3852377.25	0.43459	0.27883	0.21615	0.18697	0.227	0.176	0.2809	0.27883	4.53441179	0.514978285	2.25E-05	0.009848	0.106421	0.024729	1.989924	1.89600235	5.284333
3810	488863.09	3852377.25	0.34211	0.24492	0.2063	0.18671	0.239	0.169	0.2473	0.24492	3.5694968	0.452349036	2.148E-05	0.009835	0.111997	0.02377	1.751926	1.66541941	4.253976
3811	489363.09	3852377.25	0.281	0.22124	0.22306	0.15683	0.275	0.173	0.2309	0.22124	2.93188916	0.408613836	2.322E-05	0.008261	0.129112	0.024299	1.63601	1.50439895	3.633809
3812	489863.09	3852377.25	0.24804	0.19574	0.19677	0.15235	0.266	0.157	0.1985	0.19574	2.58799213	0.361517231	2.048E-05	0.008025	0.124747	0.022099	1.406302	1.33100276	3.1797
3813	490363.09	3852377.25	0.26521	0.19824	0.23926	0.15942	0.245	0.163	0.2055	0.19824	2.76713995	0.366134545	2.491E-05	0.008397	0.114895	0.022972	1.455687	1.34800239	3.387249
3814	490863.09	3852377.25	0.28847	0.19592	0.26102	0.16744	0.264	0.171	0.2017	0.19592	3.00982942	0.361849678	2.717E-05	0.00882	0.123795	0.024072	1.428834	1.33222673	3.625
3815	491363.09	3852377.25	0.37802	0.22481	0.26252	0.1973	0.276	0.177	0.2371	0.22481	3.94417346	0.41520736	2.733E-05	0.010393	0.129379	0.024932	1.680222	1.52867442	4.67566
3816	491863.09	3852377.25	0.38439	0.21854	0.24486	0.19312	0.352	0.178	0.2244	0.21854	4.01063657	0.403627136	2.549E-05	0.010172	0.165045	0.025095	1.589813	1.48603935	4.718376
3817	492363.09	3852377.25	0.38246	0.20354	0.26568	0.1884	0.443	0.175	0.2064	0.20354	3.99049939	0.375923251	2.766E-05	0.009924	0.207947	0.024675	1.462489	1.38404159	4.687443
3818	492863.09	3852377.25	0.40506	0.19404	0.27317	0.18569	0.462	0.181	0.2055	0.19404	4.22630258	0.358377457	2.844E-05	0.009781	0.216678	0.025465	1.455971	1.31944301	4.973161
3819	493363.09	3852377.25	0.46433	0.20408	0.30278	0.20664	0.382	0.208	0.2166	0.20408	4.84471208	0.376920591	3.152E-05	0.010885	0.178921	0.029276	1.534831	1.38771351	5.587863
3820	493863.09	3852377.25	0.45227	0.198	0.29971	0.19721	0.378	0.205	0.2082	0.198	4.71888083	0.365691283	3.12E-05	0.010388	0.177369	0.028826	1.475385	1.34637042	5.4302
3821	494363.09	3852377.25	0.43378	0.18903	0.29608	0.19339	0.374	0.184	0.196	0.18903	4.52596043	0.34912436	3.082E-05	0.010187	0.175427	0.025873	1.388731	1.28537576	5.189958
3822	494863.09	3852377.25	0.46204	0.19123	0.28594	0.19258	0.38	0.198	0.2003	0.19123	4.82081875	0.353187596	2.977E-05	0.010144	0.178217	0.027824	1.419056	1.30033543	5.508942
3823	495363.09	3852377.25	0.47281	0.20011	0.29345	0.21341	0.381	0.196	0.2054	0.20011	4.93319045	0.369588296	3.055E-05	0.011241	0.178649	0.02752	1.455262	1.36071811	5.614764
3824	495863.09	3852377.25	0.45143	0.18558	0.25892	0.21821	0.44	0.188	0.1922	0.18558	4.71011646	0.342752466	2.696E-05	0.011494	0.206493	0.026486	1.361452	1.26191628	5.396905
3825	496363.09	3852377.25	0.42991	0.17107	0.26864	0.22141	0.417	0.175	0.1758	0.17107	4.48558175	0.315953575	2.797E-05	0.011663	0.19531	0.024686	1.245394	1.16325044	5.115365
3826	496863.09	3852377.25	0.40012	0.16067	0.2262	0.20404	0.422	0.17	0.1665	0.16067	4.17475976	0.296745548	2.355E-05	0.010748	0.198076	0.023867	1.179358	1.092532	4.791046
3827	497363.09	3852377.25	0.31693	0.14326	0.20265	0.16956	0.439	0.159	0.1511	0.14326	3.30677449	0.264590572	2.11E-05	0.008931	0.206057	0.022404	1.070811	0.9741466	3.905443
3828	497863.09	3852377.25	0.27324	0.12829	0.17798	0.15632	0.427	0.142	0.1337	0.12829	2.85092311	0.236942094	1.853E-05	0.008234	0.200336	0.020034	0.947454	0.87235284	3.391589
3829	498363.09	3852377.25	0.23506	0.1084	0.16972	0.14243	0.425	0.139	0.1111	0.1084	2.4525618	0.200206743	1.767E-05	0.007502	0.19907	0.0195	0.7869	0.73710381	2.928656
3830	471363.09	3852877.25	0.17815	0.20421	0.08208	0.10316	0.17	0.116	0.2061	0.20421	1.858776	0.377160692	8.545E-06	0.005434	0.079632	0.016361	1.460222	1.38859749	2.408996
3831	471863.09	3852877.25	0.19092	0.21849	0.0842	0.10403	0.173	0.114	0.2226	0.21849	1.99201523	0.40353479	8.766E-06	0.00548	0.081142	0.016044	1.576847	1.48569936	2.589372

3832	472363.09	3852877.25	0.2029	0.2313	0.08882	0.10694	0.176	0.122	0.2324	0.2313	2.11701178	0.427193908	9.247E-06	0.005633	0.082375	0.017103	1.646284	1.57280545	2.722804
3833	472863.09	3852877.25	0.21492	0.24971	0.09091	0.10916	0.174	0.123	0.2526	0.24971	2.24242569	0.46119581	9.464E-06	0.00575	0.08169	0.017328	1.790046	1.6979907	2.900455
3834	473363.09	3852877.25	0.21335	0.26709	0.09219	0.11025	0.18	0.13	0.2699	0.26709	2.22604467	0.493295378	9.598E-06	0.005807	0.084523	0.018323	1.912055	1.8161721	2.923886
3835	473863.09	3852877.25	0.22028	0.28489	0.09478	0.12266	0.168	0.14	0.2884	0.28489	2.29835069	0.526170655	9.867E-06	0.006461	0.078853	0.019747	2.043418	1.93720944	3.035801
3836	474363.09	3852877.25	0.22689	0.30255	0.09205	0.14151	0.174	0.149	0.3121	0.30255	2.36731791	0.558787362	9.583E-06	0.007454	0.08169	0.021014	2.211412	2.0572948	3.19039
3837	474863.09	3852877.25	0.22445	0.26452	0.09567	0.14742	0.164	0.151	0.2749	0.26452	2.34185951	0.488548779	9.96E-06	0.007765	0.076875	0.021304	1.947553	1.79869648	3.085219
3838	475363.09	3852877.25	0.21676	0.29831	0.09376	0.15106	0.175	0.152	0.3007	0.29831	2.26162383	0.550956397	9.761E-06	0.007957	0.081831	0.021355	2.130355	2.02846344	3.025625
3839	475863.09	3852877.25	0.21924	0.30341	0.09572	0.14652	0.176	0.155	0.3063	0.30341	2.28749957	0.560375718	9.965E-06	0.007718	0.082666	0.021774	2.169963	2.06314267	3.066863
3840	476363.09	3852877.25	0.22364	0.26785	0.09754	0.1498	0.199	0.16	0.2764	0.26785	2.33340816	0.494699041	1.015E-05	0.007891	0.093235	0.022514	1.958394	1.82133999	3.088811
3841	476863.09	3852877.25	0.23628	0.24499	0.10536	0.15096	0.17	0.161	0.2496	0.24499	2.465291	0.45247832	1.097E-05	0.007952	0.079693	0.022632	1.768435	1.6658954	3.130597
3842	477363.09	3852877.25	0.25422	0.24736	0.10631	0.16373	0.182	0.167	0.2479	0.24736	2.65247282	0.456855534	1.107E-05	0.008624	0.08525	0.023462	1.756248	1.68201105	3.300912
3843	477863.09	3852877.25	0.27747	0.22168	0.10536	0.16076	0.195	0.185	0.2425	0.22168	2.89505796	0.409426483	1.097E-05	0.008468	0.091425	0.026094	1.718342	1.50739088	3.641433
3844	478363.09	3852877.25	0.28824	0.18745	0.1079	0.15372	0.185	0.177	0.1978	0.18745	3.00742965	0.346206217	1.123E-05	0.008097	0.086895	0.024852	1.401697	1.274632	3.600556
3845	478863.09	3852877.25	0.29001	0.19023	0.09333	0.1653	0.186	0.199	0.2207	0.19023	3.02589743	0.351340671	9.716E-06	0.008707	0.087252	0.027993	1.563385	1.29353558	3.771049
3846	479363.09	3852877.25	0.30106	0.26865	0.11387	0.20612	0.196	0.22	0.3165	0.26865	3.14119058	0.496176582	1.185E-05	0.010857	0.092058	0.030915	2.242446	1.82677987	4.186875
3847	479863.09	3852877.25	0.33068	0.43416	0.11833	0.17955	0.209	0.23	0.4719	0.43416	3.45023882	0.80186125	1.232E-05	0.009458	0.097788	0.032367	3.343582	2.95222314	4.783084
3848	480363.09	3852877.25	0.32215	0.74486	0.10726	0.22986	0.199	0.238	0.7977	0.74486	3.36123877	1.375701056	1.117E-05	0.012108	0.093315	0.033492	5.651851	5.06493673	5.46278
3849	480863.09	3852877.25	0.31571	0.91417	0.11922	0.18472	0.213	0.228	0.9338	0.91417	3.2940453	1.688404042	1.241E-05	0.00973	0.099814	0.032009	6.615956	6.21621943	5.523751
3850	481363.09	3852877.25	0.3368	1.16376	0.11696	0.24778	0.241	0.24	1.143	1.16376	3.51409349	2.14937822	1.218E-05	0.013052	0.112995	0.033796	8.098638	7.91339415	6.008571
3851	481863.09	3852877.25	0.40474	1.69287	0.11915	0.24869	0.262	0.232	1.7526	1.69287	4.22296377	3.126605063	1.24E-05	0.0131	0.122744	0.032648	12.41759	11.5112631	8.424401
3852	482363.09	3852877.25	0.88748	4.5831	0.13339	0.23821	0.24	0.288	4.7162	4.5831	9.25976155	8.464645048	1.389E-05	0.012547	0.112423	0.040529	33.41591	31.1643953	20.14143
3853	482863.09	3852877.25	0.5938	2.1042	0.20263	0.23068	0.208	0.252	2.1535	2.1042	6.19557219	3.886301	2.11E-05	0.012151	0.097502	0.035485	15.25832	14.3082457	11.17711
3854	483363.09	3852877.25	0.4928	0.99398	0.14534	0.226	0.212	0.299	1.0943	0.99398	5.1417615	1.83580718	1.513E-05	0.011904	0.099448	0.042121	7.753439	6.75891551	8.125582
3855	483863.09	3852877.25	0.57512	0.52042	0.18616	0.29108	0.213	0.324	0.5733	0.52042	6.00066938	0.961177058	1.938E-05	0.015332	0.099716	0.045638	4.061754	3.53877826	7.645528
3856	484363.09	3852877.25	0.61983	0.54709	0.14855	0.34835	0.229	0.377	0.6327	0.54709	6.46716321	1.010434566	1.546E-05	0.018349	0.107598	0.053026	4.482837	3.72013027	8.419293
3857	484863.09	3852877.25	0.73744	0.57991	0.1786	0.39028	0.297	0.511	0.6729	0.57991	7.69427881	1.071050667	1.859E-05	0.020558	0.139241	0.071899	4.767527	3.94330137	9.821271
3858	485363.09	3852877.25	0.77119	0.48458	0.21082	0.362	0.297	0.377	0.5106	0.48458	8.04641852	0.894983242	2.195E-05	0.019068	0.139386	0.052984	3.617856	3.29507161	9.475647
3859	485863.09	3852877.25	0.75072	0.46078	0.1958	0.35418	0.297	0.331	0.4881	0.46078	7.83283926	0.851026411	2.038E-05	0.018656	0.139147	0.046509	3.458152	3.13323517	9.213115
3860	486363.09	3852877.25	0.66623	0.39721	0.21965	0.29893	0.309	0.268	0.4097	0.39721	6.9512901	0.733617346	2.287E-05	0.015746	0.144849	0.037728	2.903014	2.70096866	8.085299
3861	486863.09	3852877.25	0.64126	0.3793	0.19445	0.27459	0.286	0.232	0.3901	0.3793	6.69075888	0.700538907	2.024E-05	0.014464	0.133937	0.032576	2.763928	2.57918334	7.757041
3862	487363.09	3852877.25	0.55293	0.32501	0.24046	0.24023	0.274	0.21	0.3297	0.32501	5.76914404	0.600269313	2.503E-05	0.012654	0.128714	0.029483	2.335831	2.21001945	6.6661
3863	487863.09	3852877.25	0.48518	0.28612	0.302	0.21544	0.254	0.2	0.2923	0.28612	5.06225617	0.528442373	3.144E-05	0.011348	0.118871	0.028139	2.071122	1.94557326	5.874637
3864	488363.09	3852877.25	0.27316	0.21371	0.27485	0.16932	0.241	0.176	0.2187	0.21371	2.85008841	0.394706485	2.861E-05	0.008919	0.113141	0.02472	1.549498	1.45319607	3.487904
3865	488863.09	3852877.25	0.28442	0.21679	0.2588	0.17965	0.286	0.182	0.2186	0.21679	2.96757266	0.400395016	2.694E-05	0.009463	0.134228	0.025647	1.549072	1.47413961	3.612265
3866	489363.09	3852877.25	0.27729	0.20989	0.26015	0.17449	0.302	0.176	0.2144	0.20989	2.89317988	0.387651229	2.708E-05	0.009191	0.141736	0.024735	1.519031	1.42722064	3.54833
3867	489863.09	3852877.25	0.27839	0.20163	0.28367	0.17087	0.29	0.169	0.2067	0.20163	2.90465703	0.372395623	2.953E-05	0.009	0.136052	0.0238	1.464261	1.37105388	3.539141
3868	490363.09	3852877.25	0.4349	0.23058	0.28835	0.20923	0.292	0.193	0.2377	0.23058	4.53764625	0.425864122	3.002E-05	0.011021	0.137018	0.0271	1.684403	1.56790955	5.255173
3869	490863.09	3852877.25	0.47469	0.22646	0.31216	0.21934	0.317	0.208	0.2406	0.22646	4.95280593	0.418254788	3.25E-05	0.011554	0.148812	0.02927	1.704525	1.53989417	5.72536
3870	491363.09	3852877.25	0.49782	0.22867	0.38025	0.24025	0.43	0.203	0.2483	0.22867	5.19413902	0.422336493	3.959E-05	0.012655	0.201532	0.028566	1.759437	1.55492184	6.063783
3871	491863.09	3852877.25	0.51934	0.22894	0.37636	0.23799	0.493	0.208	0.2515	0.22894	5.41867373	0.422835163	3.918E-05	0.012536	0.231299	0.029325	1.781897	1.5567578	6.339848
3872	492363.09	3852877.25	0.5419	0.23691	0.37071	0.24308	0.597	0.211	0.2585	0.23691	5.65405957	0.437555161	3.859E-05	0.012804	0.280099	0.029722	1.831495	1.61095261	6.634821
3873	492863.09	3852877.25	0.6053	0.2373	0.36323	0.27294	0.449	0.227	0.2638	0.2373	6.31556054	0.438275462	3.781E-05	0.014377	0.210488	0.031998	1.868976	1.61360455	7.266109
3874	493363.09	3852877.25	0.63008	0.23524	0.34326	0.27572	0.477	0.243	0.2605	0.23524	6.57410934	0.434470795	3.574E-05	0.014523	0.223829	0.034207	1.845666	1.59959686	7.527244
3875	493863.09	3852877.25	0.59948	0.22489	0.33305	0.26669	0.451	0.236	0.244	0.22489	6.254836	0.415355114	3.467E-05	0.014048	0.211501	0.033229	1.728828	1.5292184	7.128613
3876	494363.09	3852877.25	0.59647	0.21174	0.33079	0.23298	0.412	0.23	0.2353	0.21174	6.22343035	0.391068042	3.444E-05	0.012272	0.193017	0.032385	1.667327	1.43980037	7.079733
3877	494863.09	3852877.25	0.60336	0.2075	0.31269	0.24658	0.472	0.229	0.2267	0.2075	6.29531903	0.383237077	3.255E-05	0.012988	0.221428	0.032167	1.606535	1.410969	7.140738
3878	495363.09	3852877.25	0.56568	0.19667	0.28663	0.25588	0.476	0.21	0.2179	0.19667	5.9021746	0.363234872	2.984E-05	0.013478	0.223018	0.029514	1.543688	1.33732662	6.73781
3879	495863.09	3852877.25	0.50518	0.18779	0.27932	0.2583	0.491	0.197	0.2056	0.18779	5.27093156	0.346834172	2.908E-05	0.013606	0.230314	0.02765	1.45675	1.27694395	6.069171
3880	496363.09	3852877.25	0.49032	0.17868	0.25325	0.23199	0.537	0.191	0.1897	0.17868	5.11588575	0.330008679	2.636E-05	0.01222	0.251871	0.026904	1.344022	1.21499731	5.86594
3881	496863.09	3852877.25	0.45425	0.1676	0.24669	0.20847	0.547	0.185	0.1799	0.1676	4.73953969	0.309544743	2.568E-05	0.010981	0.256593	0.026093	1.274727	1.13965496	5.477848
3882	497363.09	3852877.25	0.3104	0.1384	0.21703	0.1757	0.578	0.172	0.1517	0.1384	3.23864198	0.255614513	2.259E-05	0.009255	0.270876	0.024184	1.07492	0.94109932	3.932414
3883	497863.09	3852877.25	0.22761	0.1031	0.17928	0.14102	0.547	0.132	0.1047	0.1031	2.37483022	0.190418037	1.866E-05	0.007428	0.256452	0.018547	0.741554	0.7010646	2.888183
3884	498363.09	3852877.25	0.22235	0.09225	0.17592	0.1382	0.526	0.132	0.0969	0.09225	2.3199486	0.170378893	1.831E-05	0.00728	0.246567	0.018576	0.686359	0.62728622	2.821841
3885	471363.09	3853377.25	0.18481	0.20089	0.08129	0.10878	0.189	0.116	0.2188	0.20089	1.9282649	0.371028898	8.463E-06	0.00573	0.088687	0.016314	1.549923	1.36602199	2.593934
3886	471863.09	3853377.25	0.18595	0.20956	0.08297	0.10964	0.195	0.118	0.2274	0.20956	1.9401594	0.387041744	8.638E-06	0.005775	0.09128	0.016553	1.610928	1.42497669	2.626769
3887	472363.09	3853377.25	0.18942	0.22321	0.08646	0.1114	0.187	0.124	0.232	0.22321	1.97636457	0.412252279	9.001E-06	0.005868	0.08781	0.01748	1.643804	1.51779466	2.625793
3888	472863.09	3853377.25	0.20795	0.24082	0.09002	0.11264	0.189	0.13	0.2426	0.24082	2.16970232	0.44477664	9.372E-06	0.005933	0.088499	0.018329	1.71905	1.63754002	2.80876
3889	473363.09	3853377.25	0.21699	0.24494	0.09083	0.11448	0.195	0.133	0.2394	0.24494	2.26402359	0.452385974	9.456E-06	0.00603	0.091496	0.018725	1.696235	1.66555541	2.86335
3890	473863.09	3853377.25	0.2273	0.24231	0.09661	0.11906	0.2	0.135	0.2479	0.24231	2.37159575	0.44752856	1.006E-05	0.006271	0.093563	0.019005	1.75639	1.6476718	3.046693

3891	474363.09	3853377.25	0.23299	0.24985	0.10004	0.12528	0.198	0.137	0.2594	0.24985	2.4309639	0.461454379	1.041E-05	0.006599	0.092888	0.019292	1.838155	1.69894268	3.150421
3892	474863.09	3853377.25	0.24039	0.23443	0.1042	0.12689	0.203	0.147	0.2364	0.23443	2.50817379	0.432974785	1.085E-05	0.006684	0.095078	0.020633	1.675263	1.59408898	3.144728
3893	475363.09	3853377.25	0.24751	0.23633	0.10738	0.14505	0.186	0.16	0.2362	0.23633	2.58246223	0.436483944	1.118E-05	0.00764	0.087374	0.022455	1.673775	1.6070087	3.203192
3894	475863.09	3853377.25	0.25023	0.22899	0.10819	0.14839	0.2	0.17	0.2253	0.22899	2.61084208	0.42292751	1.126E-05	0.007816	0.093943	0.02385	1.59619	1.55709779	3.198483
3895	476363.09	3853377.25	0.24378	0.19638	0.11032	0.15275	0.185	0.172	0.2011	0.19638	2.54354427	0.362699264	1.148E-05	0.008046	0.086811	0.024155	1.424937	1.33535466	3.11485
3896	476863.09	3853377.25	0.23931	0.20474	0.11153	0.15336	0.195	0.162	0.2084	0.20474	2.49690532	0.378139562	1.161E-05	0.008078	0.091646	0.022836	1.47666	1.39220141	3.082075
3897	477363.09	3853377.25	0.23624	0.19637	0.12049	0.15394	0.204	0.166	0.2068	0.19637	2.46487365	0.362680794	1.254E-05	0.008109	0.095814	0.023383	1.465394	1.33528666	3.084981
3898	477863.09	3853377.25	0.24993	0.20172	0.1194	0.15893	0.211	0.171	0.2035	0.20172	2.60771195	0.372561847	1.243E-05	0.008371	0.098754	0.024005	1.441517	1.37166587	3.181268
3899	478363.09	3853377.25	0.27168	0.18216	0.12279	0.16211	0.194	0.172	0.1772	0.18216	2.83464643	0.33643598	1.278E-05	0.008539	0.091088	0.024207	1.255172	1.23866079	3.31144
3900	478863.09	3853377.25	0.26056	0.15812	0.11414	0.14933	0.208	0.153	0.1502	0.15812	2.71862292	0.292035887	1.188E-05	0.007866	0.097727	0.02147	1.064009	1.07519238	3.12655
3901	479363.09	3853377.25	0.33432	0.2097	0.13193	0.18366	0.205	0.209	0.2233	0.2097	3.48821774	0.387300313	1.373E-05	0.009674	0.096311	0.02942	1.582374	1.42592867	4.167382
3902	479863.09	3853377.25	0.40192	0.29227	0.13721	0.19853	0.204	0.236	0.3292	0.29227	4.19354054	0.539800966	1.428E-05	0.010457	0.095763	0.033133	2.332713	1.98739234	5.21803
3903	480363.09	3853377.25	0.42891	0.46928	0.14318	0.27511	0.22	0.278	0.5305	0.46928	4.47514798	0.866725279	1.491E-05	0.014491	0.103251	0.039095	3.758926	3.1910339	6.066618
3904	480863.09	3853377.25	0.53889	0.40939	0.14926	0.27319	0.231	0.304	0.4661	0.40939	5.62265392	0.756112901	1.554E-05	0.01439	0.108184	0.042808	3.302699	2.78379084	7.063073
3905	481363.09	3853377.25	0.49435	0.74698	0.14967	0.28221	0.223	0.358	0.7851	0.74698	5.15793384	1.379616539	1.558E-05	0.014865	0.104691	0.050361	5.562858	5.07935241	7.190989
3906	481863.09	3853377.25	0.53707	1.16931	0.14516	0.28799	0.26	0.376	1.1977	1.16931	5.60366446	2.159628658	1.511E-05	0.01517	0.121736	0.05291	8.486066	7.95113332	8.488056
3907	482363.09	3853377.25	0.70671	1.84594	0.16502	0.44754	0.299	0.471	1.8029	1.84594	7.37364908	3.409313975	1.718E-05	0.023574	0.140165	0.066233	12.77384	12.5521162	11.23468
3908	482863.09	3853377.25	1.152	4.27353	0.26034	0.3542	0.282	0.45	4.3571	4.27353	12.0197022	7.892892268	2.71E-05	0.018657	0.132352	0.063265	30.87127	29.0593656	21.9388
3909	483363.09	3853377.25	0.78809	1.27605	0.20443	0.37606	0.252	0.603	1.3337	1.27605	8.22274922	2.356769504	2.128E-05	0.019809	0.118069	0.084804	9.449604	8.67694937	11.57488
3910	483863.09	3853377.25	0.81771	0.75648	0.27889	0.61539	0.246	0.797	0.8482	0.75648	8.53179747	1.397162333	2.903E-05	0.032415	0.115434	0.11213	6.009874	5.14395099	11.05489
3911	484363.09	3853377.25	0.9855	0.70445	0.18447	0.7831	0.245	0.89	0.8477	0.70445	10.2824796	1.30106679	1.92E-05	0.041249	0.114674	0.125192	6.006402	4.79015476	13.08093
3912	484863.09	3853377.25	1.0037	0.47033	0.31124	0.67426	0.261	0.619	0.6146	0.47033	10.4723742	0.868664551	3.24E-05	0.035516	0.122458	0.087095	4.354804	3.19817374	12.74277
3913	485363.09	3853377.25	0.9253	0.27538	0.23706	0.43121	0.337	0.369	0.3585	0.27538	9.6543667	0.508606392	2.468E-05	0.022714	0.15819	0.051849	2.53996	1.87254286	11.06317
3914	485863.09	3853377.25	0.66476	0.26287	0.26854	0.27743	0.325	0.256	0.2869	0.26287	6.93595246	0.485501351	2.796E-05	0.014613	0.152197	0.035985	2.03279	1.78747673	7.86959
3915	486363.09	3853377.25	0.69216	0.31227	0.26939	0.27046	0.362	0.26	0.3274	0.31227	7.22183774	0.57673948	2.805E-05	0.014246	0.169871	0.036542	2.319464	2.12338935	8.215338
3916	486863.09	3853377.25	0.69105	0.29007	0.43897	0.27688	0.354	0.251	0.3239	0.29007	7.21025625	0.53573773	4.57E-05	0.014584	0.165796	0.035377	2.29509	1.97243267	8.284454
3917	487363.09	3853377.25	0.68699	0.30515	0.46132	0.30646	0.355	0.246	0.3175	0.30515	7.16789515	0.563589369	4.803E-05	0.016142	0.166569	0.03463	2.249744	2.07497441	8.123644
3918	487863.09	3853377.25	0.67592	0.32226	0.47983	0.3133	0.284	0.258	0.3288	0.32226	7.05239332	0.595190267	4.995E-05	0.016503	0.132962	0.036311	2.329596	2.19131986	7.971686
3919	488363.09	3853377.25	0.68092	0.3109	0.44522	0.31546	0.272	0.269	0.3229	0.3109	7.10456217	0.574209192	4.635E-05	0.016617	0.127513	0.037908	2.28758	2.11407356	8.034361
3920	488863.09	3853377.25	0.6438	0.28364	0.45656	0.3105	0.347	0.263	0.2998	0.28364	6.71726065	0.523861998	4.753E-05	0.016355	0.162551	0.037047	2.123837	1.92870963	7.652251
3921	489363.09	3853377.25	0.65568	0.27511	0.45594	0.30169	0.352	0.246	0.2861	0.27511	6.84121383	0.508107722	4.747E-05	0.015891	0.165092	0.034672	2.027122	1.8707069	7.72144
3922	489863.09	3853377.25	0.62365	0.25997	0.41938	0.27376	0.328	0.238	0.2702	0.25997	6.5070202	0.480145267	4.366E-05	0.01442	0.154012	0.033441	1.914677	1.76775716	7.336002
3923	490363.09	3853377.25	0.64671	0.24643	0.46477	0.29898	0.349	0.252	0.2589	0.24643	6.74762292	0.455137893	4.839E-05	0.015748	0.163564	0.035428	1.834258	1.67568719	7.57612
3924	490863.09	3853377.25	0.68396	0.24151	0.4449	0.32429	0.47	0.251	0.267	0.24151	7.13628083	0.446051019	4.632E-05	0.017082	0.220223	0.035363	1.89165	1.64223192	8.104464
3925	491363.09	3853377.25	0.70552	0.24274	0.46191	0.33024	0.566	0.26	0.2716	0.24274	7.36123289	0.448322738	4.809E-05	0.017395	0.265427	0.036569	1.924597	1.65059574	8.402995
3926	491863.09	3853377.25	0.73584	0.23075	0.42916	0.32985	0.693	0.265	0.2752	0.23075	7.67758478	0.426178099	4.468E-05	0.017375	0.324848	0.037248	1.949679	1.56906553	8.863892
3927	492363.09	3853377.25	0.77717	0.23444	0.43956	0.35278	0.526	0.287	0.287	0.23444	8.10881246	0.432993255	4.576E-05	0.018582	0.246736	0.040344	2.033499	1.59415698	9.286856
3928	492863.09	3853377.25	0.79141	0.25407	0.40024	0.36021	0.548	0.291	0.2915	0.25407	8.25738934	0.469248406	4.167E-05	0.018974	0.257132	0.04099	2.065666	1.72763805	9.381803
3929	493363.09	3853377.25	0.79564	0.25995	0.41004	0.34528	0.525	0.291	0.2846	0.25995	8.30152418	0.480108329	4.269E-05	0.018187	0.246122	0.040894	2.016494	1.76762117	9.335751
3930	493863.09	3853377.25	0.765	0.26168	0.40311	0.33425	0.509	0.288	0.2736	0.26168	7.98183349	0.48330351	4.197E-05	0.017606	0.238605	0.040568	1.938626	1.77938491	8.921199
3931	494363.09	3853377.25	0.70467	0.24039	0.37927	0.31321	0.538	0.274	0.2606	0.24039	7.35236419	0.443982462	3.948E-05	0.016498	0.252068	0.038551	1.846162	1.63461609	8.315048
3932	494863.09	3853377.25	0.65192	0.22481	0.37575	0.28851	0.608	0.251	0.2468	0.22481	6.80198286	0.41520736	3.912E-05	0.015197	0.285333	0.035256	1.748525	1.52867442	7.772866
3933	495363.09	3853377.25	0.62849	0.21447	0.36735	0.30561	0.672	0.235	0.2342	0.21447	6.55751965	0.396110149	3.824E-05	0.016098	0.31509	0.033	1.659037	1.45836396	7.518529
3934	495863.09	3853377.25	0.57709	0.20515	0.35723	0.27776	0.698	0.214	0.2225	0.20515	6.02122391	0.378896802	3.719E-05	0.014631	0.327109	0.030078	1.576705	1.39498935	6.953691
3935	496363.09	3853377.25	0.50172	0.18911	0.31719	0.24594	0.77	0.204	0.2028	0.18911	5.23483072	0.349272114	3.302E-05	0.012955	0.361129	0.028732	1.436982	1.28591975	6.138013
3936	496863.09	3853377.25	0.40073	0.16819	0.25295	0.20184	0.805	0.195	0.1779	0.16819	4.18112436	0.310634429	2.633E-05	0.010632	0.377682	0.02746	1.260415	1.14366687	5.024306
3937	497363.09	3853377.25	0.29826	0.13709	0.21488	0.17776	0.677	0.161	0.1435	0.13709	3.11197602	0.25319504	2.237E-05	0.009363	0.317641	0.022688	1.017033	0.93219152	3.799727
3938	497863.09	3853377.25	0.22452	0.08622	0.16558	0.13846	0.529	0.129	0.0893	0.08622	2.34258988	0.159241931	1.724E-05	0.007293	0.248124	0.018161	0.632723	0.58628312	2.821867
3939	498363.09	3853377.25	0.16901	0.07845	0.12603	0.13333	0.411	0.115	0.0792	0.07845	1.76341134	0.144891319	1.312E-05	0.007023	0.19258	0.016202	0.561019	0.53344828	2.151691
3940	471363.09	3853877.25	0.19602	0.19923	0.07182	0.09914	0.168	0.127	0.2032	0.19923	2.04522745	0.367963002	7.477E-06	0.005222	0.078947	0.017828	1.439674	1.35473424	2.600135
3941	471863.09	3853877.25	0.19877	0.21234	0.07514	0.10426	0.18	0.13	0.2233	0.21234	2.07392032	0.392176197	7.823E-06	0.005492	0.084495	0.018338	1.582019	1.44388028	2.712568
3942	472363.09	3853877.25	0.20343	0.21711	0.07976	0.1074	0.193	0.131	0.2291	0.21711	2.12254168	0.400986033	8.304E-06	0.005657	0.090333	0.018406	1.62354	1.47631557	2.785156
3943	472863.09	3853877.25	0.21857	0.22033	0.08326	0.11635	0.199	0.132	0.2327	0.22033	2.28050895	0.406933133	8.668E-06	0.006129	0.093301	0.018523	1.648693	1.49821109	2.955885
3944	473363.09	3853877.25	0.22652	0.21927	0.08698	0.11772	0.209	0.134	0.2273	0.21927	2.36345741	0.404975392	9.055E-06	0.006201	0.097812	0.018873	1.610573	1.49100324	3.010898
3945	473863.09	3853877.25	0.22608	0.21338	0.09112	0.11801	0.214	0.137	0.2287	0.21338	2.35886656	0.394097	9.486E-06	0.006216	0.100264	0.019275	1.62028	1.45095212	3.048057
3946	474363.09	3853877.25	0.23827	0.21659	0.09869	0.11841	0.221	0.141	0.2302	0.21659	2.4860542	0.400025631	1.027E-05	0.006237	0.103584	0.01989	1.630979	1.47277964	3.174001
3947	474863.09	3853877.25	0.24605	0.21582	0.10403	0.12035	0.214	0.14	0.2281	0.21582	2.56722893	0.398603499	1.083E-05	0.006339	0.100142	0.019752	1.616383	1.46754376	3.240917
3948	475363.09	3853877.25	0.2562	0.20713	0.10655	0.11892	0.223	0.142	0.2133	0.20713	2.67313169	0.382553714	1.109E-05	0.006264	0.104644	0.019969	1.511024	1.40845306	3.289144
3949	475863.09	3853877.25	0.26862	0.17467	0.10674	0.12809	0.226	0.148	0.1902	0.17467	2.8027191	0.322602507	1.111E-05	0.006747	0.106046	0.020861	1.347919	1.18772991	3.419176

3950	476363.09	3853877.25	0.27072	0.16779	0.11044	0.14882	0.228	0.157	0.1666	0.16779	2.82463002	0.309895659	1.15E-05	0.007839	0.106904	0.022017	1.180421	1.14094693	3.310772
3951	476863.09	3853877.25	0.25402	0.15538	0.11001	0.14423	0.203	0.155	0.1644	0.15538	2.65038607	0.286975311	1.145E-05	0.007597	0.095181	0.021751	1.164762	1.05656079	3.170104
3952	477363.09	3853877.25	0.25757	0.17948	0.10797	0.15557	0.211	0.155	0.1716	0.17948	2.68742595	0.33148622	1.124E-05	0.008195	0.099022	0.021831	1.215777	1.22043719	3.143311
3953	477863.09	3853877.25	0.26151	0.19051	0.11576	0.16127	0.212	0.168	0.1798	0.19051	2.728535	0.35185781	1.205E-05	0.008495	0.099505	0.023655	1.273877	1.29543954	3.190496
3954	478363.09	3853877.25	0.26973	0.1924	0.15029	0.15771	0.224	0.172	0.184	0.1924	2.81430058	0.355348499	1.565E-05	0.008307	0.10501	0.024144	1.303352	1.30829126	3.302187
3955	478863.09	3853877.25	0.26648	0.14144	0.15369	0.13466	0.239	0.158	0.138	0.14144	2.78039083	0.261229167	1.6E-05	0.007093	0.111959	0.02227	0.977851	0.96177087	3.199038
3956	479363.09	3853877.25	0.29889	0.1618	0.15468	0.16479	0.215	0.176	0.1565	0.1618	3.1185493	0.298832574	1.61E-05	0.00868	0.100714	0.024704	1.108646	1.10021583	3.559927
3957	479863.09	3853877.25	0.42233	0.24956	0.15712	0.21387	0.234	0.259	0.2595	0.24956	4.40649377	0.460918771	1.636E-05	0.011265	0.109582	0.036441	1.838722	1.69697072	5.166468
3958	480363.09	3853877.25	0.47952	0.34417	0.16502	0.24872	0.237	0.304	0.3616	0.34417	5.00320104	0.635656409	1.718E-05	0.013101	0.110979	0.042743	2.561712	2.34030459	6.027105
3959	480863.09	3853877.25	0.59058	0.50344	0.17362	0.30334	0.251	0.392	0.5425	0.50344	6.16197545	0.92981626	1.807E-05	0.015978	0.117469	0.055169	3.843737	3.42331679	7.700846
3960	481363.09	3853877.25	0.66196	0.68557	0.19983	0.33891	0.262	0.588	0.7205	0.68557	6.9067379	1.266196833	2.08E-05	0.017852	0.122843	0.082662	5.105144	4.66177358	8.839683
3961	481863.09	3853877.25	0.78928	0.9969	0.21992	0.41772	0.277	0.799	0.9897	0.9969	8.23516541	1.841200203	2.29E-05	0.022003	0.130017	0.112458	7.012523	6.77877108	10.57462
3962	482363.09	3853877.25	1.02701	1.38329	0.25448	0.5442	0.267	1.113	1.4359	1.38329	10.7155854	2.554833813	2.649E-05	0.028665	0.125159	0.156628	10.17415	9.40616535	14.34889
3963	482863.09	3853877.25	1.72227	4.99953	0.4527	1.24907	0.338	5.431	3.62	4.99953	17.9697678	9.233760306	4.713E-05	0.065794	0.158724	0.763958	25.64894	33.9960571	19.84493
3964	483363.09	3853877.25	1.87735	1.60495	0.31817	3.45434	0.369	4.39	2.2375	1.60495	19.5878367	2.964223358	3.312E-05	0.181954	0.172862	0.617567	15.85342	10.9134202	28.46448
3965	483863.09	3853877.25	1.57174	1.04131	0.32206	2.28714	0.313	2.121	1.4557	1.04131	16.3991725	1.923222172	3.353E-05	0.120473	0.146926	0.298348	10.3143	7.08075244	22.12172
3966	484363.09	3853877.25	1.58796	0.48854	0.42001	1.37231	0.298	1.166	0.9146	0.48854	16.5684082	0.902297068	4.373E-05	0.072285	0.139691	0.164055	6.480413	3.32199902	21.00519
3967	484863.09	3853877.25	1.48914	0.34724	0.39873	0.92341	0.274	0.664	0.6167	0.34724	15.5373432	0.64132647	4.151E-05	0.04864	0.128479	0.093464	4.369188	2.36118013	18.4573
3968	485363.09	3853877.25	1.00275	0.23911	0.46018	0.41815	0.316	0.341	0.2947	0.23911	10.4624621	0.441618397	4.791E-05	0.022026	0.147958	0.047941	2.087914	1.62591228	11.58405
3969	485863.09	3853877.25	1.145	0.24734	0.64737	0.49837	0.375	0.377	0.3348	0.24734	11.9466658	0.456818596	6.74E-05	0.026251	0.17584	0.052986	2.371895	1.68187505	13.34865
3970	486363.09	3853877.25	1.03744	0.24453	0.75566	0.45893	0.401	0.352	0.3019	0.24453	10.8244096	0.451628735	7.867E-05	0.024174	0.188201	0.049512	2.139354	1.66276747	12.01459
3971	486863.09	3853877.25	0.91679	0.24564	0.7254	0.41092	0.374	0.315	0.299	0.24564	9.56557533	0.453678822	7.552E-05	0.021645	0.175484	0.044286	2.118169	1.6703153	10.7086
3972	487363.09	3853877.25	0.91696	0.27073	0.67014	0.42215	0.423	0.316	0.3064	0.27073	9.56734907	0.500018187	6.977E-05	0.022236	0.198578	0.044421	2.170884	1.84092356	10.66263
3973	487863.09	3853877.25	1.04511	0.29037	0.73445	0.48928	0.336	0.385	0.3936	0.29037	10.9044366	0.536291807	7.646E-05	0.025772	0.157641	0.054174	2.788515	1.97447262	12.49243
3974	488363.09	3853877.25	1.06932	0.28847	0.69407	0.47036	0.32	0.397	0.3956	0.28847	11.1570382	0.532782649	7.226E-05	0.024776	0.150153	0.05583	2.802685	1.96155291	12.76178
3975	488863.09	3853877.25	1.09032	0.33729	0.66663	0.51204	0.403	0.413	0.4421	0.33729	11.3761473	0.62294956	6.94E-05	0.026971	0.188937	0.058085	3.132225	2.29352161	13.11186
3976	489363.09	3853877.25	0.99106	0.30444	0.60825	0.44611	0.372	0.367	0.4036	0.30444	10.3404914	0.562278052	6.332E-05	0.023498	0.174414	0.051667	2.859793	2.07014652	11.94206
3977	489863.09	3853877.25	0.97088	0.26799	0.65615	0.41192	0.42	0.351	0.3746	0.26799	10.1299379	0.494957611	6.831E-05	0.021698	0.196805	0.049335	2.653893	1.82229197	11.7244
3978	490363.09	3853877.25	0.94386	0.267	0.64377	0.42418	0.513	0.343	0.3349	0.267	9.84801746	0.493129154	6.702E-05	0.022343	0.240635	0.048198	2.372675	1.81556011	11.20951
3979	490863.09	3853877.25	0.95576	0.26948	0.61228	0.40312	0.703	0.325	0.3129	0.26948	9.97217932	0.49770953	6.374E-05	0.021234	0.329491	0.045696	2.216726	1.83242374	11.25068
3980	491363.09	3853877.25	0.96665	0.26254	0.62198	0.41877	0.815	0.334	0.2935	0.26254	10.0858031	0.484891866	6.475E-05	0.022058	0.382038	0.046967	2.079766	1.78523278	11.31636
3981	491863.09	3853877.25	0.94239	0.24348	0.58654	0.39089	0.648	0.339	0.3009	0.24348	9.83267982	0.449689463	6.106E-05	0.02059	0.303808	0.047619	2.131843	1.65562763	11.13066
3982	492363.09	3853877.25	0.9528	0.24418	0.56116	0.41491	0.649	0.345	0.3114	0.24418	9.94129536	0.450982311	5.842E-05	0.021855	0.304174	0.048574	2.206169	1.66038752	11.31272
3983	492863.09	3853877.25	0.94588	0.24973	0.54141	0.42412	0.608	0.345	0.2989	0.24973	9.86909367	0.461232748	5.636E-05	0.02234	0.285009	0.048497	2.11746	1.69812669	11.10556
3984	493363.09	3853877.25	0.92925	0.2427	0.5721	0.40662	0.647	0.333	0.2903	0.2427	9.69558009	0.448248861	5.956E-05	0.021418	0.303545	0.046897	2.056739	1.65032374	10.92216
3985	493863.09	3853877.25	0.88451	0.22794	0.55551	0.37072	0.746	0.309	0.2713	0.22794	9.22877325	0.420988238	5.783E-05	0.019527	0.349753	0.043479	1.922046	1.54995795	10.43467
3986	494363.09	3853877.25	0.86231	0.22443	0.52642	0.35577	0.836	0.287	0.2546	0.22443	8.99714358	0.414505529	5.48E-05	0.01874	0.392045	0.040377	1.804216	1.52609047	10.14099
3987	494863.09	3853877.25	0.81562	0.21443	0.45401	0.37087	0.958	0.27	0.2365	0.21443	8.50999089	0.396036272	4.727E-05	0.019535	0.449168	0.038037	1.6759	1.45809197	9.630624
3988	495363.09	3853877.25	0.67238	0.19882	0.34208	0.29239	1.081	0.231	0.2216	0.19882	7.01545778	0.367205762	3.561E-05	0.015401	0.506705	0.032519	1.569762	1.3519463	8.155139
3989	495863.09	3853877.25	0.54534	0.19068	0.29377	0.23318	1.061	0.217	0.2104	0.19068	5.68995173	0.352171787	3.058E-05	0.012283	0.497406	0.030589	1.490547	1.29659551	6.776383
3990	496363.09	3853877.25	0.45665	0.18332	0.28274	0.222	0.991	0.206	0.1899	0.18332	4.76458074	0.338578414	2.943E-05	0.011694	0.464849	0.029047	1.345156	1.24654861	5.707385
3991	496863.09	3853877.25	0.32921	0.15395	0.23799	0.21031	0.777	0.181	0.1771	0.15395	3.43490118	0.284334207	2.478E-05	0.011078	0.3642	0.025475	1.254817	1.046837	4.327994
3992	497363.09	3853877.25	0.2853	0.1305	0.20878	0.18565	0.712	0.163	0.1372	0.1305	2.97675437	0.2410238	2.174E-05	0.009779	0.334011	0.022898	0.971757	0.8873805	3.668865
3993	497863.09	3853877.25	0.25	0.09428	0.17846	0.16706	0.603	0.143	0.0999	0.09428	2.60844232	0.174128152	1.858E-05	0.0088	0.282679	0.020105	0.707757	0.64108992	3.160839
3994	498363.09	3853877.25	0.22408	0.0859	0.15736	0.14834	0.533	0.132	0.0875	0.0859	2.33799902	0.158650915	1.638E-05	0.007814	0.249765	0.018517	0.620252	0.58410717	2.808908
3995	471363.09	3854377.25	0.18806	0.19098	0.07772	0.12229	0.143	0.139	0.1994	0.19098	1.96217465	0.352725865	8.091E-06	0.006442	0.067065	0.019491	1.413104	1.29863547	2.522374
3996	471863.09	3854377.25	0.1976	0.19896	0.07887	0.12371	0.15	0.14	0.2107	0.19896	2.06171281	0.367464332	8.211E-06	0.006516	0.070277	0.019707	1.492744	1.35289828	2.665531
3997	472363.09	3854377.25	0.20374	0.20538	0.08005	0.12485	0.153	0.141	0.2158	0.20538	2.12577615	0.379321595	8.334E-06	0.006576	0.071585	0.019802	1.528808	1.39655332	2.735324
3998	472863.09	3854377.25	0.20897	0.2054	0.08196	0.12831	0.167	0.143	0.2227	0.2054	2.18034476	0.379358533	8.533E-06	0.006759	0.078464	0.02018	1.578122	1.39668932	2.846548
3999	473363.09	3854377.25	0.21256	0.20628	0.08531	0.13271	0.177	0.146	0.2252	0.20628	2.217802	0.380983828	8.881E-06	0.00699	0.083078	0.020592	1.595623	1.40267318	2.902406
4000	473863.09	3854377.25	0.22159	0.2094	0.09174	0.13663	0.195	0.148	0.2366	0.2094	2.31201893	0.386746236	9.551E-06	0.007197	0.09158	0.020883	1.676326	1.42388872	3.070872
4001	474363.09	3854377.25	0.24178	0.21281	0.0964	0.14066	0.209	0.147	0.2384	0.21281	2.52267673	0.393044252	1.004E-05	0.007409	0.09792	0.020707	1.689292	1.44707621	3.283983
4002	474863.09	3854377.25	0.24669	0.19956	0.09819	0.14175	0.224	0.147	0.2205	0.19956	2.57390654	0.368572487	1.022E-05	0.007467	0.105179	0.020748	1.562464	1.35697819	3.281368
4003	475363.09	3854377.25	0.2548	0.16542	0.09738	0.14	0.237	0.149	0.1784	0.16542	2.65852441	0.305518445	1.014E-05	0.007374	0.111171	0.02103	1.264028	1.12483129	3.242825
4004	475863.09	3854377.25	0.25125	0.13115	0.10245	0.13974	0.237	0.147	0.1387	0.13115	2.62148453	0.242224302	1.067E-05	0.007361	0.111204	0.020723	0.982881	0.89180041	3.094088
4005	476363.09	3854377.25	0.25921	0.13284	0.10462	0.13927	0.238	0.145	0.1368	0.13284	2.70453733	0.245345606	1.089E-05	0.007336	0.111476	0.020366	0.969348	0.90329216	3.155128
4006	476863.09	3854377.25	0.25627	0.13265	0.1067	0.13869	0.25	0.148	0.1432	0.13265	2.67386205	0.24499469	1.111E-05	0.007305	0.117108	0.020752	1.014553	0.90200018	3.176586
4007	477363.09	3854377.25	0.25912	0.13479	0.11273	0.13749	0.254	0.152	0.1437	0.13479	2.70359829	0.248947111	1.174E-05	0.007242	0.119302	0.021357	1.017883	0.91655186	3.20179
4008	477863.09	3854377.25	0.27488	0.14649	0.11601	0.14564	0.256	0.154	0.1546	0.14649	2.8680345	0.270556142	1.208E-05	0.007671	0.120123	0.02172	1.095043	0.99611012	3.38705

4009	478363.09	3854377.25	0.29205	0.17176	0.11958	0.1627	0.241	0.18	0.1777	0.17176
4010	478863.09	3854377.25	0.30291	0.17621	0.12766	0.17453	0.245	0.196	0.185	0.17621
4011	479363.09	3854377.25	0.34721	0.19709	0.16432	0.21348	0.249	0.262	0.2094	0.19709
4012	479863.09	3854377.25	0.39557	0.22575	0.20114	0.26087	0.28	0.304	0.2475	0.22575
4013	480363.09	3854377.25	0.54664	0.27686	0.22311	0.33207	0.307	0.362	0.3042	0.27686
4014	480863.09	3854377.25	0.79287	0.38979	0.24577	0.4653	0.279	0.494	0.4326	0.38979
4015	481363.09	3854377.25	0.89903	0.59666	0.28112	0.69495	0.3	0.779	0.6582	0.59666
4016	481863.09	3854377.25	1.08963	0.93512	0.36548	0.81768	0.31	1.351	0.85	0.93512
4017	482363.09	3854377.25	1.52988	1.36931	0.54853	1.01767	0.341	2.345	1.1348	1.36931
4018	482863.09	3854377.25	2.41478	5.21074	0.85523	1.92015	0.338	3.152	1.864	5.21074
4019	483363.09	3854377.25	2.69451	1.82891	0.94455	4.14198	0.376	2.428	4.0274	1.82891
4020	483863.09	3854377.25	2.90825	0.69729	1.15395	8.7066	0.417	4.222	3.0143	0.69729
4021	484363.09	3854377.25	2.79238	0.47282	1.33312	2.24795	0.369	1.308	1.1935	0.47282
4022	484863.09	3854377.25	1.76608	0.29446	1.51031	0.86165	0.352	0.573	0.5138	0.29446
4023	485363.09	3854377.25	2.0709	0.2774	1.76042	1.36817	0.321	0.821	0.821	0.2774
4024	485863.09	3854377.25	1.56238	0.23383	1.37434	0.81993	0.426	0.504	0.4605	0.23383
4025	486363.09	3854377.25	1.61511	0.24516	1.22284	0.76439	0.453	0.566	0.5298	0.24516
4026	486863.09	3854377.25	1.44963	0.22725	1.05355	0.6597	0.488	0.476	0.4557	0.22725
4027	487363.09	3854377.25	1.466	0.23766	1.09834	0.64134	0.508	0.474	0.457	0.23766
4028	487863.09	3854377.25	1.47516	0.25872	1.00719	0.68005	0.403	0.491	0.4654	0.25872
4029	488363.09	3854377.25	1.38809	0.28537	0.95108	0.64506	0.41	0.486	0.4774	0.28537
4030	488863.09	3854377.25	1.36058	0.28793	0.98069	0.63158	0.456	0.489	0.475	0.28793
4031	489363.09	3854377.25	1.34762	0.29828	0.93868	0.62358	0.457	0.461	0.4323	0.29828
4032	489863.09	3854377.25	1.2627	0.302	0.85417	0.62111	0.798	0.441	0.4159	0.302
4033	490363.09	3854377.25	1.1848	0.31539	0.79154	0.5829	0.853	0.419	0.3958	0.31539
4034	490863.09	3854377.25	1.04457	0.25769	0.62441	0.4236	0.98	0.308	0.2941	0.25769
4035	491363.09	3854377.25	1.07988	0.26173	0.67148	0.49579	0.816	0.363	0.3174	0.26173
4036	491863.09	3854377.25	1.0923	0.26009	0.64507	0.50723	0.739	0.4	0.3199	0.26009
4037	492363.09	3854377.25	1.09266	0.26137	0.61863	0.5321	0.8	0.406	0.3224	0.26137
4038	492863.09	3854377.25	1.06801	0.25105	0.60453	0.49748	0.91	0.4	0.3188	0.25105
4039	493363.09	3854377.25	1.02056	0.23148	0.54545	0.4693	1.201	0.36	0.2892	0.23148
4040	493863.09	3854377.25	0.9565	0.22458	0.51523	0.42674	1.387	0.333	0.2601	0.22458
4041	494363.09	3854377.25	0.91198	0.2227	0.47327	0.43242	1.654	0.31	0.2414	0.2227
4042	494863.09	3854377.25	0.74675	0.20488	0.38236	0.31966	1.448	0.26	0.2147	0.20488
4043	495363.09	3854377.25	0.50049	0.17826	0.31229	0.23793	1.142	0.215	0.1914	0.17826
4044	495863.09	3854377.25	0.3461	0.15313	0.2601	0.23428	0.916	0.209	0.1608	0.15313
4045	496363.09	3854377.25	0.31893	0.13825	0.25102	0.21838	0.888	0.191	0.1435	0.13825
4046	496863.09	3854377.25	0.29533	0.12417	0.22244	0.19938	0.788	0.168	0.1286	0.12417
4047	497363.09	3854377.25	0.25484	0.09458	0.18832	0.16726	0.67	0.145	0.0948	0.09458
4048	497863.09	3854377.25	0.26428	0.09984	0.18975	0.17673	0.656	0.158	0.1026	0.09984
4049	498363.09	3854377.25	0.23241	0.08862	0.15761	0.16606	0.575	0.137	0.0912	0.08862
4050	471363.09	3854877.25	0.18907	0.19279	0.08102	0.12445	0.134	0.149	0.2024	0.19279
4051	471863.09	3854877.25	0.19606	0.19898	0.08492	0.13002	0.14	0.154	0.203	0.19898
4052	472363.09	3854877.25	0.20165	0.19959	0.08891	0.13947	0.143	0.156	0.2036	0.19959
4053	472863.09	3854877.25	0.21207	0.19759	0.09298	0.14346	0.148	0.162	0.2033	0.19759
4054	473363.09	3854877.25	0.22849	0.19941	0.0971	0.146	0.157	0.16	0.2082	0.19941
4055	473863.09	3854877.25	0.24905	0.20865	0.10288	0.15045	0.166	0.169	0.2174	0.20865
4056	474363.09	3854877.25	0.2634	0.21338	0.10785	0.15738	0.172	0.176	0.233	0.21338
4057	474863.09	3854877.25	0.2629	0.18689	0.11135	0.15263	0.183	0.168	0.1982	0.18689
4058	475363.09	3854877.25	0.26502	0.15144	0.11558	0.14917	0.192	0.167	0.1629	0.15144
4059	475863.09	3854877.25	0.27104	0.12744	0.11611	0.14048	0.209	0.154	0.1269	0.12744
4060	476363.09	3854877.25	0.22001	0.09702	0.11771	0.12974	0.211	0.137	0.0955	0.09702
4061	476863.09	3854877.25	0.2185	0.0959	0.11986	0.13014	0.23	0.137	0.0968	0.0959
4062	477363.09	3854877.25	0.25327	0.10794	0.12664	0.14102	0.238	0.149	0.1103	0.10794
4063	477863.09	3854877.25	0.27046	0.12827	0.13081	0.14656	0.265	0.163	0.1418	0.12827
4064	478363.09	3854877.25	0.33629	0.16421	0.13873	0.15034	0.282	0.183	0.1816	0.16421
4065	478863.09	3854877.25	0.39249	0.20674	0.1805	0.2029	0.304	0.228	0.2014	0.20674
4066	479363.09	3854877.25	0.52739	0.22617	0.21299	0.27134	0.312	0.297	0.2343	0.22617
4067	479863.09	3854877.25	0.72454	0.24592	0.23901	0.3669	0.317	0.353	0.2921	0.24592

3.04718231	0.317227953	1.245E-05	0.00857	0.112892	0.02536	1.259281	1.16794234	3.602584
3.16049305	0.325446773	1.329E-05	0.009193	0.114988	0.027594	1.310437	1.19820168	3.749964
3.62270903	0.364010581	1.711E-05	0.011245	0.116789	0.036787	1.483675	1.34018256	4.295049
4.12728611	0.416943471	2.094E-05	0.013741	0.131382	0.042781	1.753698	1.53506628	4.950786
5.70351563	0.511339842	2.323E-05	0.017491	0.144146	0.050979	2.155579	1.88260664	6.700468
8.27262264	0.719913158	2.559E-05	0.024509	0.131016	0.069509	3.065269	2.65051377	9.632351
9.38027158	1.101986672	2.927E-05	0.036606	0.140648	0.109655	4.663372	4.05719887	11.37537
11.368948	1.727097135	3.805E-05	0.043071	0.145224	0.190113	6.022202	6.3586763	13.13802
15.9624149	2.529013792	5.711E-05	0.053605	0.159728	0.329824	8.040184	9.31110344	17.76372
25.1952574	9.623849477	8.903E-05	0.101142	0.158284	0.443413	13.20725	35.4322536	13.29704
28.1138956	3.377860831	9.833E-05	0.218175	0.176309	0.34161	28.53558	12.4363148	48.32722
30.3440095	1.287842802	0.0001201	0.458612	0.195567	0.593971	21.35754	4.74146783	49.4962
29.1350486	0.873263396	0.0001388	0.118409	0.17312	0.183955	8.45652	3.21510537	35.72535
18.4268712	0.543845733	0.0001572	0.045387	0.164933	0.080571	3.640317	2.00228401	20.8998
21.6072928	0.512337181	0.0001833	0.072067	0.150411	0.11543	5.816727	1.88627856	26.38817
16.3015124	0.43186663	0.0001431	0.043189	0.199835	0.07092	3.26295	1.59000907	18.72041
16.8516851	0.452792298	0.0001273	0.040264	0.212219	0.079653	3.753541	1.66705138	19.72323
15.1251049	0.419713859	0.0001097	0.034749	0.228903	0.067021	3.229011	1.54526605	17.55935
15.2959057	0.438940355	0.0001143	0.033782	0.238389	0.066703	3.237656	1.6160525	17.69544
15.3914791	0.47783661	0.0001049	0.035821	0.188956	0.069003	3.297244	1.75925735	17.70119
14.4830108	0.527057179	9.901E-05	0.033978	0.192313	0.068346	3.382268	1.94047337	16.7466
14.1959778	0.531785309	0.0001021	0.033268	0.213832	0.068803	3.365688	1.95788099	16.45158
14.0607561	0.55090099	9.772E-05	0.032846	0.214249	0.064863	3.063143	2.02825944	15.9586
13.1747205	0.557771553	8.892E-05	0.032716	0.373977	0.062041	2.946872	2.05355488	15.09463
12.3619298	0.582501888	8.24E-05	0.030704	0.400096	0.058895	2.804244	2.14460488	14.09385
10.8988024	0.475934276	6.5E-05	0.022313	0.459424	0.043263	2.084088	1.7522535	12.23164
11.2672188	0.483395856	6.991E-05	0.026115	0.382516	0.051002	2.249177	1.7797249	12.67977
11.3968062	0.480366898	6.716E-05	0.026718	0.346367	0.056289	2.266324	1.76857315	12.80436
11.4005623	0.482730963	6.44E-05	0.028028	0.37492	0.057069	2.284037	1.77727695	12.85013
11.1433699	0.46367069	6.294E-05	0.026204	0.426721	0.056246	2.258459	1.7071025	12.66763
10.6482876	0.427526355	5.678E-05	0.02472	0.56313	0.050657	2.049299	1.57402942	12.18965
9.9799003	0.414782567	5.364E-05	0.022478	0.650522	0.046803	1.843186	1.52711045	11.43061
9.5153889	0.411310347	4.927E-05	0.022777	0.775367	0.043562	1.710619	1.51432673	10.96475
7.7914172	0.378398132	3.981E-05	0.016838	0.678803	0.036615	1.521014	1.39315339	9.029972
5.22199718	0.32923297	3.251E-05	0.012533	0.535679	0.030238	1.35628	1.21214137	6.273851
3.61112754	0.282819728	2.708E-05	0.01234	0.429446	0.029338	1.139255	1.04126112	4.463092
3.32764203	0.255337474	2.613E-05	0.011503	0.416461	0.026842	1.01682	0.94007935	4.114553
3.08140508	0.229332761	2.316E-05	0.010502	0.369335	0.023581	0.911319	0.84433745	3.781161
2.65894176	0.17468223	1.961E-05	0.00881	0.314176	0.020451	0.671338	0.64312987	3.205289
2.75743654	0.184397059	1.975E-05	0.009309	0.307452	0.022279	0.726816	0.67889709	3.328812
2.42491232	0.163674553	1.641E-05	0.008747	0.26975	0.019315	0.646043	0.60260276	2.929856
1.97271276	0.3560688	8.435E-06	0.006555	0.062629	0.020938	1.434006	1.3109432	2.541975
2.0456448	0.36750127	8.841E-06	0.006849	0.065757	0.021595	1.438045	1.35303427	2.592366
2.10396957	0.368627895	9.256E-06	0.007346	0.067266	0.02193	1.442863	1.35718218	2.65483
2.21268945	0.364934044	9.68E-06	0.007557	0.069456	0.022743	1.440241	1.34358248	2.774048
2.38401194	0.368295448	1.011E-05	0.00769	0.073405	0.022574	1.475172	1.35595821	2.975201
2.59853024	0.385361042	1.071E-05	0.007925	0.077958	0.023725	1.540357	1.41878883	3.215078
2.74825483	0.394097	1.123E-05	0.00829	0.080851	0.024812	1.650677	1.45095212	3.456041
2.74303794	0.345171939	1.159E-05	0.00804	0.085775	0.02369	1.404177	1.27082408	3.339078
2.76515753	0.279698424	1.203E-05	0.007857	0.089957	0.023541	1.153993	1.02976938	3.290447
2.82796882	0.235372208	1.209E-05	0.0074	0.098009	0.021664	0.898778	0.86657296	3.222631
2.29553358	0.179188729	1.225E-05	0.006834	0.098839	0.019249	0.676723	0.65972151	2.616657
2.27977858	0.177120172	1.248E-05	0.006855	0.107664	0.019278	0.68558	0.65210567	2.624182
2.64256074	0.199357157	1.318E-05	0.007428	0.111772	0.020972	0.781444	0.73397588	3.029571
2.82191724	0.236905156	1.362E-05	0.00772	0.124067	0.022992	1.004562	0.87221684	3.34596
3.50877227	0.303283665	1.444E-05	0.007919	0.13246	0.025745	1.28656	1.11660347	4.148151
4.0951501	0.381833413	1.879E-05	0.010688	0.142537	0.032102	1.427133	1.40580112	4.683662
5.50266557	0.417719179	2.217E-05	0.014293	0.146528	0.041807	1.659887	1.53792221	6.245
7.55968319	0.454195961	2.488E-05	0.019326	0.148671	0.049605	2.069705	1.67221926	8.628992

4068	480363.09	3854877.25	0.88443	0.26898	0.25687	0.46682	0.312	0.457	0.3424	0.26898	9.22793855	0.496786067	2.674E-05	0.024589	0.146279	0.064218	2.426311	1.82902382	10.55713
4069	480863.09	3854877.25	1.04586	0.37596	0.28548	0.6062	0.355	0.647	0.4813	0.37596	10.9122619	0.694370176	2.972E-05	0.031931	0.166283	0.090985	3.40983	2.55647184	12.74922
4070	481363.09	3854877.25	1.20594	0.51124	0.34553	0.75432	0.382	0.881	0.6009	0.51124	12.5824997	0.944222281	3.597E-05	0.039733	0.179202	0.123986	4.257877	3.47635563	14.6512
4071	481863.09	3854877.25	1.5303	0.49016	0.44472	0.89364	0.355	0.923	0.6109	0.49016	15.9667971	0.905289088	4.63E-05	0.047072	0.166663	0.1298	4.328518	3.33301478	18.21117
4072	482363.09	3854877.25	1.98514	1.31686	0.8463	1.07376	0.369	2.356	0.9042	1.31686	20.7124927	2.432142541	8.811E-05	0.056559	0.173162	0.331374	6.406442	8.95445128	21.15781
4073	482863.09	3854877.25	3.01008	2.33557	3.42289	1.3834	0.365	4.274	1.0763	2.33557	31.4064802	4.313624192	0.0003563	0.072869	0.171109	0.601243	7.626186	15.8815271	28.31034
4074	483363.09	3854877.25	3.28144	3.98005	34.59415	1.89587	0.43	3.478	1.332	3.98005	34.2377878	7.350856522	0.0036015	0.099863	0.201513	0.489269	9.43763	27.0637454	24.75678
4075	483863.09	3854877.25	3.59247	1.20672	16.30207	3.02689	0.425	1.952	2.2072	1.20672	37.4830031	2.228722147	0.0016971	0.159439	0.199267	0.274615	15.63867	8.20551573	47.77989
4076	484363.09	3854877.25	4.38871	0.59132	6.17414	7.54517	0.53	5.025	5.6386	0.59132	45.7907875	1.092124089	0.0006428	0.397435	0.248316	0.70688	39.95152	4.02088766	84.16681
4077	484863.09	3854877.25	4.1125	0.48186	3.74746	8.3798	0.471	3.77	3.7291	0.48186	42.9088761	0.889959604	0.0003901	0.441398	0.220753	0.530383	26.42195	3.27657602	68.13713
4078	485363.09	3854877.25	3.44734	0.36668	2.55005	3.32021	0.453	1.935	1.8093	0.36668	35.9687501	0.677230705	0.0002655	0.174889	0.2122	0.272149	12.81969	2.49336922	47.6318
4079	485863.09	3854877.25	2.93252	0.30577	1.93307	2.02175	0.442	1.187	1.1317	0.30577	30.5972371	0.564734463	0.0002012	0.106494	0.207126	0.166964	8.018715	2.07919032	37.58228
4080	486363.09	3854877.25	2.38043	0.25671	1.5242	1.27909	0.575	0.832	0.8133	0.25671	24.8368574	0.474124289	0.0001587	0.067375	0.269689	0.117056	5.762737	1.74558965	29.78241
4081	486863.09	3854877.25	2.01746	0.24829	1.22277	0.97612	0.677	0.662	0.6648	0.24829	21.0497121	0.458573175	0.0001273	0.051416	0.317421	0.093092	4.710348	1.68833491	24.99235
4082	487363.09	3854877.25	1.96314	0.27612	1.23362	0.93721	0.681	0.652	0.5705	0.27612	20.4829498	0.509973117	0.0001284	0.049367	0.319442	0.091691	4.041986	1.87757475	23.61796
4083	487863.09	3854877.25	1.85386	0.27629	1.2313	0.90678	0.52	0.63	0.5588	0.27629	19.3427475	0.510287094	0.0001282	0.047764	0.24404	0.088636	3.9593	1.87873073	22.31417
4084	488363.09	3854877.25	1.68991	0.26877	1.20192	0.91924	0.57	0.615	0.5351	0.26877	17.632131	0.496398213	0.0001251	0.04842	0.267396	0.086572	3.791306	1.82759585	20.49475
4085	488863.09	3854877.25	1.60236	0.30069	1.11705	0.89907	0.589	0.648	0.5414	0.30069	16.7186545	0.55535208	0.0001163	0.047358	0.276273	0.091158	3.836085	2.04464708	19.48035
4086	489363.09	3854877.25	1.53548	0.31006	1.13701	0.8484	1.07	0.629	0.5253	0.31006	16.020844	0.572657774	0.0001184	0.044689	0.501697	0.088541	3.721869	2.10836168	18.84205
4087	489863.09	3854877.25	1.45502	0.29236	0.99791	0.78906	1.084	0.541	0.4821	0.29236	15.181343	0.53996719	0.0001039	0.041563	0.508163	0.076066	3.415498	1.98800432	17.7747
4088	490363.09	3854877.25	1.23523	0.24117	0.69859	0.49422	1.245	0.371	0.3384	0.24117	12.8881048	0.445423064	7.273E-05	0.026033	0.58364	0.05215	2.397332	1.63991997	14.75284
4089	490863.09	3854877.25	0.72821	0.20683	0.49748	0.30441	0.944	0.273	0.2326	0.20683	7.59797512	0.381999637	5.179E-05	0.016035	0.442814	0.038345	1.648197	1.4064131	8.719004
4090	491363.09	3854877.25	0.86815	0.2184	0.49714	0.35703	0.87	0.301	0.2596	0.2184	9.05807679	0.403368567	5.176E-05	0.018806	0.408143	0.042362	1.839572	1.48508737	10.28529
4091	491863.09	3854877.25	1.21743	0.27514	0.69226	0.61402	1.189	0.474	0.3753	0.27514	12.7023837	0.508163129	7.207E-05	0.032343	0.557775	0.066741	2.659065	1.8709109	14.65563
4092	492363.09	3854877.25	1.18353	0.26534	0.68551	0.61878	1.763	0.493	0.3815	0.26534	12.3486789	0.490063258	7.137E-05	0.032594	0.826817	0.069342	2.702782	1.80427236	14.66608
4093	492863.09	3854877.25	1.1258	0.25611	0.64043	0.5771	2.128	0.474	0.3535	0.25611	11.7463374	0.473016134	6.667E-05	0.030398	0.997898	0.066693	2.504958	1.74150974	14.07786
4094	493363.09	3854877.25	1.0555	0.24274	0.59587	0.52008	2.286	0.417	0.3147	0.24274	11.0128435	0.448322738	6.203E-05	0.027395	1.072099	0.058627	2.229976	1.65059574	13.19873
4095	493863.09	3854877.25	1.01014	0.23005	0.57642	0.54219	2.307	0.374	0.29	0.23005	10.5395677	0.424885251	6.001E-05	0.028559	1.081773	0.052642	2.054542	1.56430563	12.61772
4096	494363.09	3854877.25	0.80158	0.19889	0.42943	0.35928	1.691	0.287	0.2235	0.19889	8.36350077	0.367335047	4.471E-05	0.018925	0.792975	0.040361	1.583436	1.35242229	9.814156
4097	494863.09	3854877.25	0.45002	0.16922	0.32065	0.2561	1.176	0.236	0.1816	0.16922	4.69540485	0.312536762	3.338E-05	0.01349	0.551562	0.033239	1.286347	1.15067072	5.741942
4098	495363.09	3854877.25	0.34508	0.13839	0.25683	0.22175	0.965	0.199	0.1442	0.13839	3.6004851	0.255596044	2.674E-05	0.01168	0.452437	0.027955	1.021426	0.94103133	4.428574
4099	495863.09	3854877.25	0.31943	0.11694	0.22406	0.22002	0.855	0.184	0.1254	0.11694	3.33285892	0.215979488	2.333E-05	0.011589	0.400874	0.025869	0.888363	0.79517453	4.080382
4100	496363.09	3854877.25	0.25204	0.09609	0.20268	0.18281	0.739	0.156	0.0997	0.09609	2.62972721	0.177471088	2.11E-05	0.009629	0.346527	0.022009	0.706694	0.65339765	3.23868
4101	496863.09	3854877.25	0.23235	0.08868	0.15812	0.17647	0.673	0.142	0.0903	0.08868	2.42428629	0.163785369	1.646E-05	0.009295	0.315676	0.020011	0.640091	0.60301075	2.970152
4102	497363.09	3854877.25	0.2245	0.0868	0.14879	0.17659	0.661	0.137	0.0871	0.0868	2.3423812	0.160313148	1.549E-05	0.009302	0.310167	0.019298	0.617347	0.59022703	2.868597
4103	497863.09	3854877.25	0.24596	0.08906	0.17825	0.19445	0.729	0.157	0.091	0.08906	2.56628989	0.1644872	1.856E-05	0.010242	0.341908	0.022102	0.64491	0.6055947	3.144362
4104	498363.09	3854877.25	0.2422	0.08806	0.17131	0.19669	0.713	0.156	0.0909	0.08806	2.52705892	0.162640275	1.783E-05	0.01036	0.334504	0.021934	0.643988	0.59879484	3.101709
4105	471363.09	3855377.25	0.21927	0.19164	0.07045	0.12445	0.128	0.15	0.2002	0.19164	2.28781259	0.353944836	7.334E-06	0.006555	0.060073	0.021104	1.41856	1.30312337	2.844934
4106	471863.09	3855377.25	0.23336	0.197	0.07288	0.12994	0.133	0.155	0.2046	0.197	2.4348244	0.363844357	7.587E-06	0.006844	0.062371	0.021839	1.449523	1.33957057	2.999683
4107	472363.09	3855377.25	0.25303	0.20193	0.07543	0.13585	0.136	0.163	0.2092	0.20193	2.64005664	0.372949701	7.853E-06	0.007156	0.063886	0.02294	1.482187	1.37309383	3.216088
4108	472863.09	3855377.25	0.26435	0.20096	0.07993	0.13956	0.14	0.167	0.2104	0.20096	2.75816691	0.371158183	8.321E-06	0.007351	0.065466	0.023525	1.490902	1.36649798	3.350079
4109	473363.09	3855377.25	0.2764	0.20242	0.08547	0.14755	0.157	0.18	0.2139	0.20242	2.88389383	0.373854695	8.898E-06	0.007772	0.073461	0.025354	1.515559	1.37642576	3.503477
4110	473863.09	3855377.25	0.29082	0.2082	0.09045	0.15717	0.167	0.204	0.2172	0.2082	3.03434878	0.384529925	9.416E-06	0.008279	0.078478	0.028733	1.53887	1.4157289	3.657519
4111	474363.09	3855377.25	0.30714	0.21291	0.0949	0.1796	0.168	0.223	0.2271	0.21291	3.20462789	0.393228945	9.88E-06	0.00946	0.078989	0.031347	1.608944	1.44775619	3.878851
4112	474863.09	3855377.25	0.32803	0.17778	0.09922	0.18477	0.168	0.199	0.1936	0.17778	3.42258933	0.328346446	1.033E-05	0.009733	0.078957	0.028042	1.371655	1.20887744	4.030455
4113	475363.09	3855377.25	0.24927	0.11908	0.10327	0.13977	0.169	0.151	0.123	0.11908	2.60082567	0.219931909	1.075E-05	0.007362	0.079144	0.021234	0.871499	0.80972621	2.990282
4114	475863.09	3855377.25	0.21904	0.09772	0.1074	0.12535	0.177	0.144	0.0988	0.09772	2.28541282	0.180481577	1.118E-05	0.006603	0.082816	0.020208	0.699963	0.6644814	2.611014
4115	476363.09	3855377.25	0.23803	0.10761	0.11104	0.13608	0.178	0.151	0.113	0.10761	2.4835501	0.198747672	1.156E-05	0.007168	0.083411	0.021175	0.800433	0.73173192	2.862764
4116	476863.09	3855377.25	0.23442	0.10713	0.11532	0.1333	0.193	0.147	0.1105	0.10713	2.44588419	0.197861147	1.201E-05	0.007021	0.090544	0.020647	0.783145	0.728468	2.816646
4117	477363.09	3855377.25	0.24472	0.11944	0.11865	0.13997	0.212	0.153	0.1181	0.11944	2.55335202	0.220596802	1.235E-05	0.007373	0.0992	0.021519	0.836994	0.81217416	2.926872
4118	477863.09	3855377.25	0.30472	0.1373	0.121	0.15984	0.229	0.18	0.1416	0.1373	3.17937817	0.253582895	1.26E-05	0.008419	0.107575	0.025327	1.003216	0.93361949	3.643892
4119	478363.09	3855377.25	0.35266	0.17235	0.12962	0.19342	0.27	0.196	0.1735	0.17235	3.67957307	0.31831764	1.349E-05	0.010188	0.12666	0.027522	1.228956	1.17195425	4.219276
4120	478863.09	3855377.25	0.41964	0.1951	0.14391	0.24368	0.285	0.209	0.1953	0.1951	4.37842694	0.360335199	1.498E-05	0.012836	0.133623	0.029366	1.383771	1.32665085	4.971722
4121	479363.09	3855377.25	0.61596	0.2159	0.15562	0.33092	0.31	0.279	0.2243	0.2159	6.42678452	0.398751253	1.62E-05	0.017431	0.145595	0.039295	1.589105	1.46808775	7.14889
4122	479863.09	3855377.25	0.78643	0.24004	0.19159	0.39264	0.335	0.369	0.2846	0.24004	8.20542917	0.443336038	1.995E-05	0.020682	0.157004	0.05188	2.016635	1.63223614	9.26275
4123	480363.09	3855377.25	1.03435	0.26792	0.22807	0.49541	0.375	0.512	0.3748	0.26792	10.7921692	0.494828326	2.374E-05	0.026095	0.175845	0.07204	2.655452	1.82181598	12.39464
4124	480863.09	3855377.25	1.20616	0.38475	0.43312	0.62221	0.393	0.696	0.4825	0.38475	12.5847951	0.710604652	4.509E-05	0.032774	0.184393	0.09791	3.418474	2.61624252	14.41275
4125	481363.09	3855377.25	1.32095	0.61666	0.5181	0.76371	0.437	1.05	0.6083	0.61666	13.7824875	1.138925185	5.394E-05	0.040228	0.204688	0.147719	4.309812	4.19319588	15.43072
4126	481863.09	3855377.25	1.6225	0.89168	0.76872	0.81864	0.499	1.363	0.6896	0.89168	16.9287906	1.646866683	8.003E-05	0.043121	0.233822	0.191807	4.885923	6.06329079	17.86712

4127	482363.09	3855377.25	2.25979	1.12817	1.31634	0.86145	0.517	1.854	0.7325	1.12817
4128	482863.09	3855377.25	3.51014	1.49532	1.30759	1.0717	0.503	2.189	0.8025	1.49532
4129	483363.09	3855377.25	3.52679	2.39012	0.99759	1.25926	0.491	4.957	0.8452	2.39012
4130	483863.09	3855377.25	3.93183	4.63603	1.9284	1.55511	0.49	2.229	1.143	4.63603
4131	484363.09	3855377.25	4.24939	1.26826	4.02941	2.24035	0.547	1.555	1.5371	1.26826
4132	484863.09	3855377.25	4.78096	0.89188	2.85023	3.78985	0.668	2.349	2.7889	0.89188
4133	485363.09	3855377.25	4.57004	0.66973	2.5306	10.47539	0.697	4.205	3.4526	0.66973
4134	485863.09	3855377.25	3.64748	0.51535	1.95894	3.86403	0.672	2.17	1.8261	0.51535
4135	486363.09	3855377.25	3.16898	0.3749	2.13269	2.23052	0.657	1.446	1.2039	0.3749
4136	486863.09	3855377.25	2.80672	0.31077	1.6742	1.46168	0.829	1.051	0.9806	0.31077
4137	487363.09	3855377.25	2.46095	0.31521	1.78676	1.3873	1.035	0.929	0.8341	0.31521
4138	487863.09	3855377.25	2.298	0.33673	1.57706	1.35408	0.761	0.909	0.7707	0.33673
4139	488363.09	3855377.25	2.03707	0.35614	1.53331	1.25519	0.702	0.869	0.7225	0.35614
4140	488863.09	3855377.25	1.88425	0.34982	1.48335	1.17233	1.315	0.823	0.655	0.34982
4141	489363.09	3855377.25	1.75897	0.33469	1.2945	1.03595	1.8	0.779	0.6195	0.33469
4142	489863.09	3855377.25	1.67012	0.32418	1.19945	0.93645	1.907	0.709	0.5765	0.32418
4143	490363.09	3855377.25	1.57992	0.33309	1.0765	0.91232	1.683	0.709	0.5351	0.33309
4144	490863.09	3855377.25	1.22248	0.21931	0.66473	0.50953	1.395	0.405	0.309	0.21931
4145	491363.09	3855377.25	1.00999	0.2153	0.5862	0.43547	1.623	0.345	0.2746	0.2153
4146	491863.09	3855377.25	1.31453	0.28864	0.82961	0.68795	3.156	0.579	0.4261	0.28864
4147	492363.09	3855377.25	1.26349	0.29667	0.81219	0.69711	3.313	0.563	0.4186	0.29667
4148	492863.09	3855377.25	1.20292	0.29129	0.71148	0.61278	3.309	0.519	0.3799	0.29129
4149	493363.09	3855377.25	1.0879	0.25281	0.62913	0.67773	2.873	0.442	0.3299	0.25281
4150	493863.09	3855377.25	0.87713	0.21252	0.48074	0.42336	1.997	0.342	0.2698	0.21252
4151	494363.09	3855377.25	0.53453	0.17016	0.36023	0.3164	1.523	0.27	0.1889	0.17016
4152	494863.09	3855377.25	0.36567	0.13365	0.26763	0.25612	1.121	0.207	0.1444	0.13365
4153	495363.09	3855377.25	0.28553	0.10778	0.21693	0.21581	0.934	0.174	0.1154	0.10778
4154	495863.09	3855377.25	0.24118	0.09636	0.17648	0.20341	0.817	0.154	0.0965	0.09636
4155	496363.09	3855377.25	0.23413	0.09272	0.17517	0.19665	0.744	0.148	0.0952	0.09272
4156	496863.09	3855377.25	0.22749	0.09029	0.16717	0.19364	0.716	0.143	0.0922	0.09029
4157	497363.09	3855377.25	0.23324	0.09043	0.16187	0.206	0.718	0.151	0.0931	0.09043
4158	497863.09	3855377.25	0.24725	0.09161	0.17594	0.22123	0.744	0.162	0.0948	0.09161
4159	498363.09	3855377.25	0.25738	0.09817	0.19076	0.22764	0.768	0.173	0.0992	0.09817
4160	471363.09	3855877.25	0.25245	0.184	0.06603	0.13127	0.119	0.145	0.2	0.184
4161	471863.09	3855877.25	0.2651	0.18779	0.06784	0.13634	0.121	0.157	0.2049	0.18779
4162	472363.09	3855877.25	0.28888	0.19275	0.07125	0.15042	0.122	0.174	0.2068	0.19275
4163	472863.09	3855877.25	0.30189	0.19448	0.07358	0.16186	0.126	0.189	0.2042	0.19448
4164	473363.09	3855877.25	0.31664	0.20201	0.08011	0.16451	0.132	0.224	0.2116	0.20201
4165	473863.09	3855877.25	0.33754	0.20854	0.08713	0.17644	0.138	0.241	0.2188	0.20854
4166	474363.09	3855877.25	0.36356	0.2113	0.09036	0.19761	0.146	0.247	0.2192	0.2113
4167	474863.09	3855877.25	0.36792	0.17246	0.08984	0.18341	0.157	0.212	0.202	0.17246
4168	475363.09	3855877.25	0.29648	0.12475	0.09197	0.16375	0.163	0.173	0.129	0.12475
4169	475863.09	3855877.25	0.21452	0.0841	0.09258	0.11728	0.163	0.131	0.0815	0.0841
4170	476363.09	3855877.25	0.2213	0.08745	0.09723	0.12452	0.172	0.138	0.0881	0.08745
4171	476863.09	3855877.25	0.25703	0.11044	0.10537	0.14083	0.188	0.159	0.116	0.11044
4172	477363.09	3855877.25	0.29421	0.12411	0.12232	0.15346	0.197	0.172	0.1314	0.12411
4173	477863.09	3855877.25	0.32609	0.13559	0.14012	0.17574	0.208	0.182	0.1459	0.13559
4174	478363.09	3855877.25	0.41805	0.15818	0.15644	0.22038	0.223	0.217	0.1789	0.15818
4175	478863.09	3855877.25	0.60546	0.1905	0.16665	0.26649	0.244	0.262	0.2038	0.1905
4176	479363.09	3855877.25	0.77156	0.21617	0.1841	0.35325	0.273	0.316	0.2552	0.21617
4177	479863.09	3855877.25	0.93127	0.23559	0.23753	0.39615	0.308	0.363	0.2975	0.23559
4178	480363.09	3855877.25	1.11497	0.26349	0.29598	0.49193	0.349	0.497	0.3569	0.26349
4179	480863.09	3855877.25	1.30187	0.36987	0.30755	0.58895	0.386	0.652	0.4714	0.36987
4180	481363.09	3855877.25	1.70002	0.36212	0.37678	0.65093	0.414	0.682	0.4922	0.36212
4181	481863.09	3855877.25	1.75173	0.75892	0.52041	0.75252	0.458	1.163	0.61	0.75892
4182	482363.09	3855877.25	2.28301	0.89255	0.52907	0.78042	0.502	1.306	0.5931	0.89255
4183	482863.09	3855877.25	3.14063	1.04629	0.58795	0.86273	0.601	1.635	0.671	1.04629
4184	483363.09	3855877.25	3.74907	1.34888	0.6742	0.969	0.803	2.464	0.6726	1.34888
4185	483863.09	3855877.25	3.87715	2.24919	2.28388	1.19711	0.781	6.184	0.8227	2.24919

23.5781275	2.083646136	0.000137	0.045376	0.242459	0.260771	5.189814	7.67138747	23.72894
36.6239909	2.761744896	0.0001361	0.056451	0.236063	0.307879	5.685931	10.1679526	35.50424
36.7977131	4.414373988	0.0001039	0.06633	0.230183	0.697376	5.988689	16.2524589	31.94231
41.023807	8.562402824	0.0002008	0.081914	0.229991	0.313618	8.098851	31.5243114	26.78647
44.3371548	2.342381953	0.0004195	0.118008	0.256536	0.21872	10.89112	8.62397854	49.54036
49.8834335	1.647236069	0.0002967	0.199627	0.313435	0.330459	19.76029	6.06465076	66.07013
47.6827429	1.23694153	0.0002635	0.551781	0.327001	0.59158	24.46263	4.55406395	70.29888
38.0569647	0.951813145	0.0002039	0.203534	0.315311	0.305285	12.93836	3.50430301	49.26717
33.0644061	0.692412435	0.000222	0.117491	0.308033	0.203445	8.529782	2.54926399	40.36653
29.2846689	0.573969091	0.0001743	0.076993	0.388804	0.147867	6.947976	2.11318957	35.30726
25.6769845	0.582169441	0.000186	0.073075	0.485238	0.130689	5.909899	2.14338091	30.71486
23.9768018	0.621915282	0.0001642	0.071325	0.356876	0.127883	5.4609	2.2897137	28.32615
21.2543184	0.657764109	0.0001596	0.066116	0.329369	0.122246	5.119315	2.4216988	25.12759
19.6598297	0.646091539	0.0001544	0.061751	0.616493	0.11583	4.640699	2.37872374	23.36212
18.3526871	0.618147553	0.0001348	0.054568	0.844167	0.109653	4.389027	2.275842	22.09254
17.4256467	0.598736364	0.0001249	0.049327	0.894384	0.099694	4.084427	2.20437557	20.94796
16.4845207	0.615192472	0.0001121	0.048056	0.789083	0.099795	3.791589	2.26496224	19.56339
12.7550743	0.405049269	6.92E-05	0.026839	0.654175	0.056976	2.189164	1.49127524	14.59607
10.5380026	0.397643097	6.103E-05	0.022938	0.761145	0.048571	1.945782	1.46400784	12.25013
13.7155027	0.533096626	8.637E-05	0.036237	1.479989	0.081506	3.018718	1.96270888	16.90243
13.1829631	0.547927439	8.455E-05	0.03672	1.553515	0.079155	2.96579	2.01731168	16.34884
12.5509897	0.537990979	7.407E-05	0.032278	1.551494	0.072943	2.69187	1.98072848	15.45691
11.3508976	0.466921279	6.55E-05	0.035699	1.347242	0.062136	2.337319	1.71907023	13.88121
9.15177204	0.392508644	5.005E-05	0.0223	0.936216	0.04817	1.911843	1.44510425	11.01776
5.57716269	0.314272872	3.75E-05	0.016666	0.714248	0.037964	1.338354	1.15706258	6.841643
3.81531641	0.246841616	2.786E-05	0.013491	0.525757	0.029051	1.023055	0.90880003	4.74474
2.97915414	0.199061649	2.258E-05	0.011368	0.437989	0.024487	0.817296	0.7328879	3.736491
2.51641647	0.177969758	1.837E-05	0.010714	0.382952	0.021647	0.683525	0.6552336	3.13801
2.4428584	0.171246948	1.824E-05	0.010358	0.348702	0.020803	0.674739	0.63048215	3.038244
2.37357817	0.166758919	1.74E-05	0.0102	0.335568	0.020111	0.653058	0.61395851	2.945332
2.43357234	0.167017489	1.685E-05	0.010851	0.336529	0.02119	0.65986	0.61491049	3.014126
2.57974945	0.169196861	1.832E-05	0.011653	0.348745	0.022736	0.671763	0.62293431	3.180927
2.68544353	0.181312693	1.986E-05	0.011991	0.360228	0.024327	0.702584	0.66754133	3.298365
2.63400505	0.339834324	6.874E-06	0.006915	0.056022	0.020361	1.417214	1.25117251	3.223185
2.76599223	0.346834172	7.063E-06	0.007182	0.056542	0.022064	1.45179	1.27694395	3.373467
3.01410727	0.355994923	7.418E-06	0.007923	0.057222	0.024417	1.464898	1.31067121	3.613899
3.1498506	0.359190105	7.66E-06	0.008526	0.059304	0.026614	1.44676	1.32243495	3.727818
3.3037487	0.373097455	8.34E-06	0.008665	0.061771	0.031473	1.498979	1.37363782	3.904105
3.52181448	0.38515788	9.071E-06	0.009294	0.064833	0.033908	1.550206	1.41804085	4.147182
3.79330115	0.390255395	9.407E-06	0.010409	0.068448	0.034775	1.552828	1.43680843	4.413217
3.83879239	0.318520801	9.353E-06	0.009661	0.073489	0.02978	1.43103	1.17270224	4.52858
3.09340391	0.230403978	9.575E-06	0.008625	0.076575	0.024341	0.913728	0.84828136	3.498805
2.23825218	0.155326449	9.638E-06	0.006178	0.076265	0.018393	0.577599	0.57186744	2.500155
2.30899314	0.16151365	1.012E-05	0.006559	0.080743	0.019385	0.624008	0.59464694	2.606565
2.68179171	0.203974471	1.097E-05	0.007418	0.088054	0.022374	0.822185	0.7509755	3.074833
3.06971926	0.229221945	1.273E-05	0.008083	0.092537	0.02415	0.931087	0.84392946	3.510881
3.40234782	0.250424652	1.459E-05	0.009257	0.097451	0.025566	1.033896	0.92199174	3.896965
4.36183724	0.292146703	1.629E-05	0.011608	0.104775	0.030589	1.267288	1.07560037	4.99266
6.31722994	0.351839341	1.735E-05	0.014037	0.114388	0.03688	1.443642	1.29537154	6.982662
8.05027902	0.399249923	1.917E-05	0.018607	0.128029	0.044445	1.80783	1.46992371	8.978535
9.71665631	0.435117219	2.473E-05	0.020867	0.144587	0.051098	2.107611	1.60197681	10.87398
11.6333397	0.486646445	3.081E-05	0.025912	0.163643	0.069936	2.528694	1.79169264	13.11651
13.5834112	0.683122398	3.202E-05	0.031022	0.180848	0.091764	3.339685	2.51506075	15.39482
17.7376164	0.668808724	3.923E-05	0.034287	0.193898	0.095876	3.48706	2.4623619	19.75522
18.2771466	1.401668831	5.418E-05	0.039638	0.214995	0.163665	4.321787	5.16054263	19.25841
23.8203996	1.648473509	5.508E-05	0.041108	0.235613	0.183685	4.201973	6.06920666	24.0621
32.7686088	1.932419862	6.121E-05	0.045444	0.281666	0.229939	4.754348	7.1146157	32.89787
39.1169313	2.491281101	7.019E-05	0.051041	0.37673	0.346643	4.765401	9.17218249	37.97592
40.4532885	4.154086753	0.0002378	0.063057	0.366132	0.869871	5.829055	15.294156	36.44157

4186	484363.09	3855877.25	4.16806	5.92507	4.31917	1.44283	0.746	2.05	1.0066	5.92507
4187	484863.09	3855877.25	4.4326	1.88945	5.87285	1.9761	0.786	1.488	1.3438	1.88945
4188	485363.09	3855877.25	4.92437	1.16255	9.58671	3.14863	1.026	2.024	2.6771	1.16255
4189	485863.09	3855877.25	5.20548	0.76159	5.78676	18.331	1.214	5.15	3.7751	0.76159
4190	486363.09	3855877.25	4.04644	0.56583	3.68742	3.86557	1.139	2.005	1.5594	0.56583
4191	486863.09	3855877.25	3.39473	0.45677	2.93064	2.41269	1.37	1.429	1.1858	0.45677
4192	487363.09	3855877.25	2.89429	0.44446	2.55587	2.03126	1.485	1.328	1.0864	0.44446
4193	487863.09	3855877.25	2.5476	0.44251	2.17534	1.73863	1.461	1.227	0.983	0.44251
4194	488363.09	3855877.25	2.26067	0.43337	1.79513	1.52033	2.077	1.135	0.8559	0.43337
4195	488863.09	3855877.25	2.01687	0.42636	1.57217	1.40853	3.464	1.065	0.799	0.42636
4196	489363.09	3855877.25	1.79636	0.40979	1.36	1.23156	3.393	0.98	0.7098	0.40979
4197	489863.09	3855877.25	1.71172	0.39177	1.21237	1.10703	3.668	0.927	0.6407	0.39177
4198	490363.09	3855877.25	1.58866	0.38535	1.06108	1.06835	5.032	0.889	0.5868	0.38535
4199	490863.09	3855877.25	1.44602	0.34517	0.96479	0.99315	5.561	0.761	0.5082	0.34517
4200	491363.09	3855877.25	1.41766	0.2681	0.77927	0.83293	4.776	0.61	0.4441	0.2681
4201	491863.09	3855877.25	1.29966	0.31538	0.81495	0.93334	5.292	0.699	0.4443	0.31538
4202	492363.09	3855877.25	1.2596	0.29065	0.76462	0.76735	4.817	0.604	0.4287	0.29065
4203	492863.09	3855877.25	1.20843	0.27587	0.73386	0.81929	4.422	0.552	0.3904	0.27587
4204	493363.09	3855877.25	1.06066	0.21841	0.57691	0.57548	3.063	0.389	0.2801	0.21841
4205	493863.09	3855877.25	0.68377	0.1823	0.40425	0.39341	1.991	0.298	0.2177	0.1823
4206	494363.09	3855877.25	0.37966	0.14707	0.28478	0.32976	1.321	0.236	0.1676	0.14707
4207	494863.09	3855877.25	0.31686	0.11667	0.23706	0.253	1.053	0.191	0.1329	0.11667
4208	495363.09	3855877.25	0.22822	0.09492	0.1803	0.21826	0.74	0.156	0.093	0.09492
4209	495863.09	3855877.25	0.22263	0.09106	0.17093	0.21874	0.698	0.147	0.0909	0.09106
4210	496363.09	3855877.25	0.22079	0.08694	0.17303	0.21374	0.686	0.152	0.0912	0.08694
4211	496863.09	3855877.25	0.22969	0.08746	0.17307	0.22193	0.722	0.158	0.0931	0.08746
4212	497363.09	3855877.25	0.23226	0.0943	0.17645	0.23713	0.744	0.172	0.0978	0.0943
4213	497863.09	3855877.25	0.25846	0.09895	0.19467	0.24212	0.778	0.18	0.1032	0.09895
4214	498363.09	3855877.25	0.28143	0.11289	0.21433	0.25342	0.889	0.209	0.1134	0.11289
4215	471363.09	3856377.25	0.27203	0.18631	0.06138	0.13495	0.145	0.169	0.1926	0.18631
4216	471863.09	3856377.25	0.28289	0.18685	0.06319	0.15165	0.147	0.172	0.1959	0.18685
4217	472363.09	3856377.25	0.31131	0.19061	0.06535	0.15911	0.149	0.178	0.2004	0.19061
4218	472863.09	3856377.25	0.35292	0.19214	0.07254	0.16174	0.15	0.192	0.2066	0.19214
4219	473363.09	3856377.25	0.38239	0.19653	0.0773	0.16391	0.154	0.207	0.2096	0.19653
4220	473863.09	3856377.25	0.40795	0.20501	0.07994	0.17134	0.162	0.241	0.2165	0.20501
4221	474363.09	3856377.25	0.43444	0.20323	0.0868	0.1828	0.164	0.246	0.2189	0.20323
4222	474863.09	3856377.25	0.45679	0.18919	0.0912	0.19262	0.171	0.237	0.2168	0.18919
4223	475363.09	3856377.25	0.47203	0.15655	0.09279	0.19232	0.167	0.214	0.1782	0.15655
4224	475863.09	3856377.25	0.35976	0.12273	0.10043	0.15537	0.17	0.167	0.1286	0.12273
4225	476363.09	3856377.25	0.33844	0.11693	0.10581	0.1476	0.179	0.175	0.125	0.11693
4226	476863.09	3856377.25	0.34981	0.12254	0.11168	0.15911	0.183	0.187	0.1287	0.12254
4227	477363.09	3856377.25	0.36415	0.13543	0.12756	0.17156	0.184	0.194	0.1419	0.13543
4228	477863.09	3856377.25	0.29322	0.12326	0.15142	0.15837	0.178	0.193	0.1328	0.12326
4229	478363.09	3856377.25	0.3088	0.11819	0.14905	0.15539	0.19	0.182	0.1183	0.11819
4230	478863.09	3856377.25	0.51845	0.16376	0.22869	0.21949	0.223	0.23	0.1777	0.16376
4231	479363.09	3856377.25	0.73229	0.20012	0.26405	0.2579	0.255	0.269	0.2071	0.20012
4232	479863.09	3856377.25	0.95258	0.2239	0.27682	0.4264	0.296	0.364	0.2718	0.2239
4233	480363.09	3856377.25	1.11061	0.2687	0.30296	0.53507	0.298	0.495	0.3626	0.2687
4234	480863.09	3856377.25	1.37182	0.35454	0.29918	0.59688	0.304	0.573	0.4231	0.35454
4235	481363.09	3856377.25	1.55498	0.52793	0.35432	0.64975	0.353	0.761	0.4984	0.52793
4236	481863.09	3856377.25	1.62998	0.66583	0.4625	0.66567	0.388	1.02	0.5466	0.66583
4237	482363.09	3856377.25	1.95816	0.76077	0.82994	0.68813	0.443	1.262	0.5317	0.76077
4238	482863.09	3856377.25	2.6085	0.92667	0.45578	0.74021	0.502	1.439	0.5968	0.92667
4239	483363.09	3856377.25	3.86277	1.05453	0.77295	0.84372	0.578	1.783	0.6128	1.05453
4240	483863.09	3856377.25	3.88237	1.39127	1.73963	0.95483	0.727	2.504	0.6854	1.39127
4241	484363.09	3856377.25	4.07196	2.09689	2.45113	1.13298	0.965	7.287	0.7843	2.09689
4242	484863.09	3856377.25	4.40947	6.80331	3.92781	1.36756	1.383	2.764	1.0136	6.80331
4243	485363.09	3856377.25	4.66821	2.49163	8.00882	1.82964	1.598	1.654	1.2944	2.49163
4244	485863.09	3856377.25	5.14678	1.29655	4.90992	2.81409	1.926	1.941	2.3213	1.29655

43.4885763	10.94316389	0.0004497	0.076	0.350029	0.288329	7.132337	40.2895909	21.98929
46.2487257	3.489673711	0.0006114	0.104089	0.368627	0.209392	9.521237	12.8479777	47.09438
51.3797404	2.14714344	0.000998	0.165851	0.481275	0.28478	18.96843	7.90516633	65.52305
54.3127772	1.406600123	0.0006024	0.965568	0.569113	0.724439	26.74802	5.17869823	79.54842
42.2196213	1.045045953	0.0003839	0.203615	0.534122	0.282014	11.04891	3.84755947	51.48616
35.4198295	0.843620239	0.0003051	0.127086	0.64249	0.20101	8.401537	3.10596776	42.52991
30.1983541	0.820884584	0.0002661	0.106995	0.6962	0.186885	7.697182	3.0222616	36.6845
26.5810706	0.817283079	0.0002265	0.091581	0.684955	0.172668	6.96491	3.00900189	32.30369
23.5873092	0.800402179	0.0001869	0.080082	0.974015	0.159609	6.064644	2.94685126	28.7194
21.0435562	0.78745523	0.0001637	0.074193	1.624378	0.149815	5.66092	2.89918431	26.4413
18.7428058	0.756851671	0.0001416	0.064871	1.591108	0.137892	5.029047	2.78651078	23.53621
17.8596915	0.723570071	0.0001262	0.058312	1.719883	0.130373	4.539449	2.66397747	22.36743
16.5757119	0.711712808	0.0001105	0.056274	2.359395	0.1251	4.157831	2.62032243	21.36581
15.087439	0.637503334	0.0001004	0.052313	2.607646	0.107075	3.600497	2.34710444	19.74547
14.7915373	0.495160773	8.113E-05	0.043874	2.239413	0.085864	3.146821	1.82303995	18.97971
13.5603526	0.582483419	8.484E-05	0.049163	2.48167	0.098358	3.148238	2.14453689	17.77581
13.1423758	0.536808947	7.96E-05	0.040419	2.258723	0.085006	3.037707	1.97637658	17.12474
12.6084798	0.509511385	7.64E-05	0.043155	2.073518	0.077593	2.765983	1.87587479	16.20244
11.0666817	0.403387036	6.006E-05	0.030313	1.436159	0.054716	1.984468	1.48515537	13.49063
7.13429841	0.33669455	4.208E-05	0.020723	0.933656	0.041979	1.542412	1.23961277	8.770192
3.96128484	0.271627359	2.965E-05	0.01737	0.61947	0.033249	1.187648	1.00005403	5.090625
3.30604413	0.215480818	2.468E-05	0.013327	0.493702	0.0268	0.941574	0.79333857	4.203613
2.38119482	0.175310185	1.877E-05	0.011497	0.347061	0.02199	0.658868	0.64544182	2.950498
2.32287005	0.168181052	1.779E-05	0.011522	0.327484	0.020669	0.644343	0.6191944	2.875892
2.30367192	0.160571718	1.801E-05	0.011259	0.321561	0.021335	0.646397	0.59117901	2.873635
2.39653246	0.161532119	1.802E-05	0.01169	0.338686	0.022221	0.659576	0.59471493	2.995541
2.42334725	0.174165091	1.837E-05	0.012491	0.348693	0.024261	0.693019	0.64122591	3.034768
2.696712	0.182753295	2.027E-05	0.012753	0.365044	0.025362	0.731138	0.67284522	3.340939
2.93637568	0.208499439	2.231E-05	0.013349	0.417033	0.029339	0.803197	0.76763514	3.64018
2.83829825	0.344100722	6.39E-06	0.007108	0.068111	0.02378	1.364357	1.26688017	3.378881
2.95160899	0.345098062	6.578E-06	0.007988	0.068894	0.024244	1.388235	1.27055209	3.515522
3.24813671	0.352042502	6.803E-06	0.008381	0.069752	0.025099	1.420119	1.29611953	3.827417
3.68228585	0.354868299	7.552E-06	0.00852	0.070488	0.027077	1.463481	1.3065233	4.300204
3.98976903	0.362976302	8.047E-06	0.008634	0.072124	0.029106	1.485304	1.33637464	4.611547
4.25645617	0.378638232	8.322E-06	0.009025	0.075979	0.033935	1.534264	1.39403737	4.894269
4.53284672	0.375350704	9.036E-06	0.009629	0.076687	0.034634	1.551269	1.38193364	5.198492
4.76604146	0.349419868	9.494E-06	0.010146	0.079984	0.033287	1.535965	1.28646374	5.488388
4.92505211	0.289136214	9.66E-06	0.01013	0.078474	0.03005	1.262399	1.06451661	5.530734
3.75365283	0.226673188	1.046E-05	0.008184	0.079641	0.023548	0.911107	0.83454567	4.16827
3.53120487	0.215961019	1.102E-05	0.007775	0.083937	0.024644	0.885741	0.79510653	3.954166
3.64983683	0.226322272	1.163E-05	0.008381	0.085976	0.026372	0.911673	0.83325369	4.07532
3.79945708	0.250129144	1.328E-05	0.009037	0.086286	0.027346	1.005625	0.92090377	4.25699
3.05938982	0.227652058	1.576E-05	0.008342	0.083618	0.027091	0.941007	0.83814959	3.508966
3.22194795	0.218288145	1.552E-05	0.008185	0.088926	0.025557	0.83834	0.80367434	3.597585
5.40938768	0.302452548	2.381E-05	0.011561	0.104621	0.032336	1.259139	1.11354354	6.005978
7.6405449	0.369606766	2.749E-05	0.013585	0.119748	0.037814	1.467024	1.3607861	8.287563
9.93899993	0.413526658	2.882E-05	0.02246	0.13896	0.051223	1.925447	1.52248655	10.96816
11.5878485	0.496268928	3.154E-05	0.028184	0.139672	0.069623	2.568798	1.82711986	13.06331
14.3132534	0.654809028	3.115E-05	0.03144	0.142519	0.080607	2.997533	2.41081904	15.80937
16.2243025	0.97504747	3.689E-05	0.034225	0.165632	0.106995	3.531273	3.58984513	17.44767
17.0068352	1.22973852	4.815E-05	0.035064	0.181847	0.143516	3.872504	4.52754453	17.94201
20.4309896	1.405085644	8.64E-05	0.036247	0.207769	0.177489	3.76757	5.17312235	20.85211
27.2164871	1.711490613	4.745E-05	0.03899	0.235524	0.202389	4.228472	6.30121757	27.33218
40.3032509	1.947638529	8.047E-05	0.044442	0.271129	0.250818	4.341555	7.17064647	39.98827
40.5077528	2.56957228	0.0001811	0.050295	0.340946	0.352276	4.856448	9.46042816	39.21704
42.4858911	3.872799973	0.0002552	0.059679	0.452681	1.025055	5.557119	14.2585388	39.19494
46.0073926	12.5652079	0.0004089	0.072035	0.648604	0.38879	7.181509	46.2614917	20.60246
48.707026	4.601855413	0.0008338	0.096375	0.749127	0.232657	9.17122	16.9427118	46.61638
53.700315	2.39463148	0.0005112	0.14823	0.903002	0.27307	16.44696	8.81634631	65.05038

4245	486363.09	3856377.25	5.71365	0.71451	2.74362	11.22443	3.007	6.852	4.0564	0.71451	59.6149058	1.319646862	0.0002856	0.591236	1.410031	0.963875	28.74134	4.85856126	87.78276
4246	486863.09	3856377.25	4.23391	0.68583	2.45135	5.27092	3.016	2.694	2.1052	0.68583	44.17564	1.266677034	0.0002552	0.277641	1.414307	0.379034	14.91631	4.66354155	57.76633
4247	487363.09	3856377.25	3.26123	0.63114	2.08336	3.02062	3.565	1.888	1.4801	0.63114	34.0269213	1.165668669	0.0002169	0.159108	1.671528	0.265537	10.48704	4.29165772	43.48436
4248	487863.09	3856377.25	2.74414	0.60082	1.60167	2.21842	5.349	1.63	1.1621	0.60082	28.6317236	1.109669882	0.0001667	0.116853	2.508338	0.229271	8.234181	4.08548624	36.74472
4249	488363.09	3856377.25	2.37071	0.60118	1.32876	1.86135	9.484	1.455	1.0157	0.60118	24.7354411	1.110334776	0.0001383	0.098045	4.4473	0.204732	7.196672	4.08793419	33.70473
4250	488863.09	3856377.25	2.15739	0.60134	1.30278	1.5603	10.9	1.319	0.9114	0.60134	22.5097095	1.110630284	0.0001356	0.082187	5.111599	0.185553	6.457314	4.08902217	31.36811
4251	489363.09	3856377.25	1.96929	0.54826	1.2723	1.40172	10.42	1.233	0.7867	0.54826	20.5471175	1.012595469	0.0001325	0.073834	4.885903	0.173467	5.573699	3.7280861	28.53866
4252	489863.09	3856377.25	1.84692	0.50836	1.40568	1.27935	11.11	1.138	0.684	0.50836	19.2703371	0.938903135	0.0001463	0.067389	5.211723	0.160135	4.846033	3.45677206	27.03789
4253	490363.09	3856377.25	1.69952	0.45139	1.11211	1.26462	10.81	1.044	0.6293	0.45139	17.7323995	0.833683779	0.0001158	0.066613	5.067877	0.146853	4.45903	3.06938457	25.23719
4254	490863.09	3856377.25	1.59715	0.40241	1.00767	1.15536	9.462	0.969	0.5491	0.40241	16.6642946	0.74322136	0.0001049	0.060858	4.436782	0.136378	3.890855	2.73632788	23.19617
4255	491363.09	3856377.25	1.52318	0.37838	1.1035	1.15589	7.528	0.886	0.5036	0.37838	15.8925087	0.698839736	0.0001149	0.060885	3.529944	0.124682	3.567904	2.57292747	21.30195
4256	491863.09	3856377.25	1.47258	0.33689	1.03052	1.19817	6.241	0.809	0.4726	0.33689	15.3645599	0.62221079	0.0001073	0.063112	2.926482	0.113845	3.348258	2.29080167	20.14777
4257	492363.09	3856377.25	1.38127	0.28897	0.98665	1.15441	5.547	0.727	0.4385	0.28897	14.4118525	0.533706112	0.0001027	0.060807	2.601325	0.102294	3.106576	1.96495283	18.85171
4258	492863.09	3856377.25	1.23917	0.22931	0.71551	0.88225	4.388	0.525	0.3497	0.22931	12.9292139	0.423518526	7.449E-05	0.046472	2.057664	0.073886	2.477467	1.55927374	16.44902
4259	493363.09	3856377.25	0.73601	0.18504	0.42994	0.64018	2.349	0.338	0.2268	0.18504	7.67935852	0.341755126	4.476E-05	0.033721	1.10144	0.047543	1.606818	1.25824436	9.552435
4260	493863.09	3856377.25	0.47785	0.16423	0.33918	0.49493	1.751	0.278	0.1759	0.16423	4.98577664	0.303320603	3.531E-05	0.02607	0.820876	0.03913	1.246102	1.11673947	6.304572
4261	494363.09	3856377.25	0.34911	0.129	0.28344	0.3658	1.261	0.223	0.1443	0.129	3.64253319	0.238253412	2.951E-05	0.019268	0.591115	0.031388	1.022205	0.87718073	4.667611
4262	494863.09	3856377.25	0.27611	0.10693	0.21709	0.27777	0.917	0.184	0.1057	0.10693	2.88086803	0.197491762	2.26E-05	0.014631	0.430126	0.025948	0.748568	0.72710803	3.570547
4263	495363.09	3856377.25	0.22664	0.09571	0.19141	0.26062	0.749	0.161	0.0964	0.09571	2.36470947	0.176769256	1.993E-05	0.013728	0.351084	0.022711	0.6831	0.6508137	2.961308
4264	495863.09	3856377.25	0.22348	0.09508	0.17741	0.24761	0.692	0.158	0.094	0.09508	2.33173876	0.175605693	1.847E-05	0.013043	0.324356	0.022204	0.665741	0.6465298	2.886177
4265	496363.09	3856377.25	0.23002	0.09412	0.1769	0.23155	0.667	0.165	0.0932	0.09412	2.39997561	0.173832644	1.842E-05	0.012197	0.312661	0.023164	0.660072	0.64000194	2.941919
4266	496863.09	3856377.25	0.24207	0.0965	0.18465	0.24565	0.749	0.173	0.0954	0.0965	2.52570253	0.178228327	1.922E-05	0.012939	0.351253	0.0244	0.676156	0.65618558	3.112513
4267	497363.09	3856377.25	0.25992	0.10597	0.19996	0.2582	0.773	0.19	0.1059	0.10597	2.71194531	0.195718713	2.082E-05	0.0136	0.362601	0.026745	0.750056	0.72058017	3.340108
4268	497863.09	3856377.25	0.29319	0.11128	0.21252	0.27972	0.849	0.214	0.1178	0.11128	3.05907681	0.205525889	2.212E-05	0.014734	0.398286	0.030074	0.834656	0.75668738	3.785686
4269	498363.09	3856377.25	0.31446	0.11538	0.23387	0.30805	0.969	0.271	0.1265	0.11538	3.28100308	0.213098284	2.435E-05	0.016226	0.454416	0.038054	0.896298	0.78456676	4.114553
4270	471363.09	3856877.25	0.28121	0.18002	0.06224	0.16464	0.141	0.183	0.1898	0.18002	2.93408026	0.33248356	6.48E-06	0.008672	0.066033	0.025689	1.344447	1.22410911	3.487303
4271	471863.09	3856877.25	0.29038	0.18351	0.06403	0.17746	0.145	0.188	0.1929	0.18351	3.02975792	0.33892933	6.666E-06	0.009348	0.068181	0.026472	1.366554	1.24784059	3.591408
4272	472363.09	3856877.25	0.30795	0.18652	0.0715	0.18114	0.15	0.2	0.197	0.18652	3.21307925	0.344488576	7.444E-06	0.009541	0.07046	0.028162	1.395887	1.26830814	3.793317
4273	472863.09	3856877.25	0.33188	0.18684	0.07252	0.19158	0.156	0.206	0.1977	0.18684	3.46275934	0.345079593	7.55E-06	0.010091	0.073344	0.02902	1.400634	1.27048409	4.050451
4274	473363.09	3856877.25	0.36816	0.19746	0.09737	0.19957	0.164	0.222	0.2099	0.19746	3.84129649	0.364693943	1.014E-05	0.010512	0.077043	0.031181	1.487146	1.3426985	4.469185
4275	473863.09	3856877.25	0.40323	0.20181	0.12614	0.21497	0.173	0.243	0.2147	0.20181	4.20720878	0.37272807	1.313E-05	0.011323	0.081175	0.034142	1.521085	1.37227785	4.855397
4276	474363.09	3856877.25	0.42265	0.19596	0.12963	0.22907	0.183	0.253	0.2067	0.19596	4.40983258	0.361923555	1.35E-05	0.012066	0.085887	0.035616	1.464757	1.33249873	5.037597
4277	474863.09	3856877.25	0.44334	0.1792	0.09785	0.24426	0.194	0.255	0.1993	0.1792	4.62570727	0.33096908	1.019E-05	0.012866	0.091013	0.03582	1.412254	1.21853323	5.290106
4278	475363.09	3856877.25	0.45137	0.15833	0.10943	0.24052	0.206	0.23	0.1715	0.15833	4.70949043	0.292423742	1.139E-05	0.012669	0.096546	0.032305	1.214856	1.07662035	5.281681
4279	475863.09	3856877.25	0.47374	0.15389	0.12254	0.24635	0.219	0.224	0.1678	0.15389	4.94289385	0.284223392	1.276E-05	0.012976	0.102473	0.0315	1.189207	1.04642901	5.516857
4280	476363.09	3856877.25	0.4843	0.13557	0.13572	0.21671	0.232	0.202	0.1513	0.13557	5.05307446	0.250387713	1.413E-05	0.011415	0.108831	0.028409	1.071661	0.92185575	5.601937
4281	476863.09	3856877.25	0.50394	0.13242	0.12889	0.18954	0.245	0.211	0.1504	0.13242	5.25799368	0.244569898	1.342E-05	0.009984	0.114712	0.029705	1.065709	0.90043622	5.822251
4282	477363.09	3856877.25	0.43193	0.1335	0.15902	0.17593	0.255	0.201	0.1416	0.1335	4.50665796	0.246564577	1.655E-05	0.009267	0.119795	0.028325	1.003075	0.90778006	5.00592
4283	477863.09	3856877.25	0.29967	0.12078	0.16652	0.16397	0.252	0.193	0.1275	0.12078	3.12668764	0.223071683	1.734E-05	0.008637	0.118158	0.027089	0.903384	0.82128596	3.585758
4284	478363.09	3856877.25	0.30577	0.11332	0.1829	0.15926	0.251	0.177	0.1148	0.11332	3.19033363	0.209293617	1.904E-05	0.008389	0.117516	0.024833	0.813683	0.77055907	3.593508
4285	478863.09	3856877.25	0.32203	0.12834	0.18058	0.18006	0.271	0.213	0.1335	0.12834	3.35998672	0.237034441	1.88E-05	0.009484	0.127152	0.02996	0.946179	0.87269283	3.837123
4286	479363.09	3856877.25	0.41062	0.14999	0.20214	0.19482	0.339	0.231	0.1589	0.14999	4.28431434	0.277020382	2.104E-05	0.010262	0.1591	0.032512	1.126006	1.01990959	4.869325
4287	479863.09	3856877.25	0.90807	0.20992	0.24641	0.39476	0.398	0.35	0.2491	0.20992	9.47459286	0.387706637	2.565E-05	0.020794	0.18685	0.04922	1.76468	1.42742464	10.45644
4288	480363.09	3856877.25	1.22127	0.26687	0.24491	0.50022	0.448	0.472	0.3318	0.26687	12.7424494	0.492889054	2.55E-05	0.026349	0.209991	0.066465	2.351135	1.81467613	14.07463
4289	480863.09	3856877.25	1.30494	0.37935	0.31619	0.52747	0.482	0.587	0.4224	0.37935	13.6154429	0.700631254	3.292E-05	0.027784	0.225817	0.082518	2.992715	2.57952333	15.06542
4290	481363.09	3856877.25	1.36817	0.51676	0.46297	0.56124	0.532	0.76	0.4608	0.51676	14.2751701	0.95441731	4.82E-05	0.029563	0.249446	0.106867	3.265005	3.5138908	15.36663
4291	481863.09	3856877.25	1.53077	0.52778	0.74579	0.60767	0.572	0.803	0.4638	0.52778	15.971701	0.974770431	7.764E-05	0.032008	0.268048	0.112929	3.286403	3.58882516	17.05711
4292	482363.09	3856877.25	1.69879	0.64248	0.76247	0.63889	0.588	1.029	0.4834	0.64248	17.7247829	1.186612806	7.938E-05	0.033653	0.275804	0.14476	3.42478	4.36876802	18.4217
4293	482863.09	3856877.25	2.14532	0.77963	0.94346	0.68833	0.628	1.249	0.5386	0.77963	22.3837739	1.439918662	9.822E-05	0.036257	0.294655	0.175645	3.815892	5.30136753	22.84487
4294	483363.09	3856877.25	3.04148	0.88471	0.57907	0.73536	0.692	1.481	0.5642	0.88471	31.7341006	1.633993611	6.028E-05	0.038734	0.32467	0.208386	3.997348	6.01589584	31.9214
4295	483863.09	3856877.25	3.9178	1.03234	0.65179	0.82064	0.849	1.736	0.6051	1.03234	40.8774212	1.906655248	6.786E-05	0.043226	0.398328	0.244226	4.287281	7.01975778	40.73745
4296	484363.09	3856877.25	4.09849	1.34417	1.07778	0.96983	0.982	2.377	0.6755	1.34417	42.762699	2.482582081	0.0001122	0.051085	0.460465	0.334388	4.786374	9.1401552	41.73755
4297	484863.09	3856877.25	4.13035	1.91419	0.94868	1.09375	1.257	4.793	0.7729	1.91419	43.0951189	3.535366653	9.876E-05	0.057612	0.589591	0.674269	5.476417	13.016206	40.41227
4298	485363.09	3856877.25	4.34196	4.16324	1.24935	1.35649	1.635	3.05	0.981	4.16324	45.3030088	7.689194836	0.0001301	0.071452	0.76688	0.429122	6.950739	28.3094101	32.90112
4299	485863.09	3856877.25	4.35706	3.11263	1.32401	1.73329	2.412	1.798	1.2804	3.11263	45.4605587	5.748796255	0.0001378	0.091299	1.13086	0.252949	9.072309	21.165419	40.59149
4300	486363.09	3856877.25	4.78026	0.89087	1.55631	3.0818	5.333	1.941	2.6306	0.89087	49.8761299	1.645370674	0.000162	0.162331	2.500558	0.272993	18.63882	6.05778291	67.03858
4301	486863.09	3856877.25	4.83753	0.89666	1.96348	8.48698	10.66	7.51	4.2676	0.89666	50.4736718	1.656064373	0.0002044	0.447044	4.999063	1.056528	30.23713	6.09715405	82.77255
4302	487363.09	3856877.25	3.75678	0.82588	1.74374	5.43057	37.65	3.055	2.1136	0.82588	39.1973757	1.525338974	0.0001815	0.28605	17.65389	0.42979	14.97583	5.61586062	68.4526
4303	487863.09	3856877.25	3.03871	0.81907	1.53103	3.18609	49.48	2.253	1.5237	0.81907	31.705199	1.51276141	0.0001594	0.167824	23.20378	0.316876	10.79618	5.56955364	62.13322

4304	488363.09	3856877.25	2.55246	0.81869	1.83406	2.37361	36.95	1.915	1.202	0.81869	26.6317787	1.512059579	0.0001909	0.125028	17.32787	0.269446	8.516533	5.5669697	48.81594
4305	488863.09	3856877.25	2.24764	0.77021	1.43774	1.89624	27.33	1.713	1.0437	0.77021	23.4513572	1.422520622	0.0001497	0.099883	12.81371	0.24098	7.394991	5.23731294	40.18628
4306	489363.09	3856877.25	2.08863	0.71109	1.33156	1.61623	20.77	1.517	0.9027	0.71109	21.7922835	1.313330376	0.0001386	0.085133	9.738307	0.213342	6.396239	4.83530577	34.70347
4307	489863.09	3856877.25	1.91819	0.65027	1.51197	1.52247	14.81	1.455	0.8096	0.65027	20.0139519	1.201000357	0.0001574	0.080195	6.946686	0.204626	5.736592	4.42173886	29.76147
4308	490363.09	3856877.25	1.82722	0.56888	1.49964	1.45339	11.68	1.27	0.7022	0.56888	19.0647919	1.050679076	0.0001561	0.076556	5.475794	0.178595	4.975624	3.86829902	26.9539
4309	490863.09	3856877.25	1.76119	0.49305	1.4471	1.52041	9.472	1.164	0.6005	0.49305	18.3758501	0.910626703	0.0001507	0.080086	4.441542	0.163749	4.254617	3.35266634	24.87396
4310	491363.09	3856877.25	1.67283	0.42798	1.31902	1.9843	8.107	1.085	0.5403	0.42798	17.4539222	0.790447249	0.0001373	0.104521	3.801645	0.152691	3.828291	2.91020006	23.22146
4311	491863.09	3856877.25	1.5872	0.37114	1.23093	6.10405	7.154	0.967	0.4806	0.37114	16.5604786	0.685467994	0.0001281	0.321525	3.354676	0.136102	3.405295	2.52369656	21.93998
4312	492363.09	3856877.25	1.50419	0.25808	1.02535	5.34104	5.342	0.634	0.3781	0.25808	15.6943714	0.476654577	0.0001067	0.281334	2.505009	0.089176	2.679117	1.75490545	19.97086
4313	492863.09	3856877.25	1.3055	0.20151	0.69468	1.54652	3.767	0.489	0.308	0.20151	13.6212858	0.372173992	7.232E-05	0.081462	1.766545	0.068813	2.182079	1.3702379	16.72219
4314	493363.09	3856877.25	0.78447	0.18413	0.49365	0.75874	2.477	0.383	0.2184	0.18413	8.18497898	0.340074424	5.139E-05	0.039966	1.161696	0.053915	1.54723	1.25205649	10.07586
4315	493863.09	3856877.25	0.43891	0.14213	0.33119	0.51033	1.526	0.279	0.1699	0.14213	4.57948567	0.262503546	3.448E-05	0.026881	0.715355	0.039201	1.20359	0.96646277	5.860588
4316	494363.09	3856877.25	0.31534	0.11379	0.26879	0.38049	1.129	0.222	0.1262	0.11379	3.2901848	0.210161672	2.798E-05	0.020042	0.52918	0.031254	0.893818	0.773755	4.200914
4317	494863.09	3856877.25	0.26419	0.10741	0.23226	0.31143	0.948	0.195	0.1084	0.10741	2.7564975	0.198378286	2.418E-05	0.016404	0.444423	0.027466	0.767982	0.73037195	3.480803
4318	495363.09	3856877.25	0.24386	0.09897	0.22646	0.2815	0.829	0.188	0.097	0.09897	2.54437897	0.182790234	2.358E-05	0.014828	0.388926	0.026391	0.687138	0.67298122	3.171495
4319	495863.09	3856877.25	0.24047	0.09933	0.20754	0.27729	0.795	0.181	0.0971	0.09933	2.5090085	0.183455127	2.161E-05	0.014606	0.372702	0.02544	0.687989	0.67542916	3.117792
4320	496363.09	3856877.25	0.24032	0.09808	0.21322	0.27784	0.799	0.181	0.0974	0.09808	2.50744343	0.18114647	2.22E-05	0.014635	0.374821	0.025406	0.690398	0.66692935	3.126942
4321	496863.09	3856877.25	0.25391	0.10188	0.21643	0.28966	0.823	0.199	0.1027	0.10188	2.64923835	0.188164787	2.253E-05	0.015258	0.38586	0.027997	0.727454	0.69276878	3.301225
4322	497363.09	3856877.25	0.28371	0.11066	0.22023	0.28821	0.869	0.227	0.1184	0.11066	2.96016468	0.204380795	2.293E-05	0.015181	0.407378	0.031977	0.838765	0.75247147	3.705398
4323	497863.09	3856877.25	0.30992	0.11961	0.23995	0.31601	0.99	0.296	0.1233	0.11961	3.23363377	0.22091078	2.498E-05	0.016646	0.464192	0.04167	0.873554	0.81333013	4.037301
4324	498363.09	3856877.25	0.36957	0.12889	0.27842	0.33755	1.098	0.295	0.1415	0.12889	3.85600811	0.23805025	2.899E-05	0.01778	0.514995	0.04146	1.002862	0.87643275	4.794752
4325	471363.09	3857377.25	0.30312	0.17336	0.06974	0.18678	0.138	0.19	0.1865	0.17336	3.16268414	0.320183035	7.26E-06	0.009838	0.064753	0.026693	1.321703	1.1788221	3.72704
4326	471863.09	3857377.25	0.31681	0.17173	0.08132	0.19133	0.143	0.196	0.1877	0.17173	3.30552244	0.317172546	8.466E-06	0.010078	0.066957	0.027537	1.329639	1.16773835	3.889176
4327	472363.09	3857377.25	0.33826	0.17397	0.07622	0.2015	0.148	0.204	0.191	0.17397	3.52932679	0.321309659	7.935E-06	0.010614	0.069597	0.02865	1.353233	1.18297001	4.129768
4328	472863.09	3857377.25	0.35581	0.17739	0.08232	0.20565	0.156	0.213	0.1947	0.17739	3.71243944	0.327626145	8.57E-06	0.010832	0.073165	0.029943	1.379236	1.2062255	4.327026
4329	473363.09	3857377.25	0.37613	0.18698	0.10241	0.2241	0.166	0.225	0.2063	0.18698	3.92445363	0.345338162	1.066E-05	0.011804	0.077751	0.031711	1.461993	1.27143607	4.581627
4330	473863.09	3857377.25	0.38706	0.19912	0.12702	0.23715	0.176	0.251	0.2196	0.19912	4.03849473	0.36775984	1.322E-05	0.012492	0.08237	0.035312	1.556016	1.35398625	4.738472
4331	474363.09	3857377.25	0.40473	0.18954	0.11976	0.23946	0.185	0.25	0.2011	0.18954	4.22285944	0.350066292	1.247E-05	0.012613	0.086741	0.035208	1.424653	1.28884369	4.84331
4332	474863.09	3857377.25	0.42037	0.15011	0.13294	0.23806	0.193	0.213	0.1667	0.15011	4.38604359	0.277242013	1.384E-05	0.01254	0.09068	0.03002	1.180988	1.02072558	4.956801
4333	475363.09	3857377.25	0.4082	0.12273	0.11205	0.16835	0.202	0.167	0.1323	0.12273	4.25906461	0.226673188	1.167E-05	0.008868	0.094581	0.023515	0.937393	0.83454567	4.715561
4334	475863.09	3857377.25	0.3949	0.11831	0.13862	0.15839	0.196	0.175	0.1269	0.11831	4.12029548	0.218509776	1.443E-05	0.008343	0.091903	0.024604	0.898778	0.80449033	4.557958
4335	476363.09	3857377.25	0.48489	0.12914	0.16085	0.19739	0.218	0.192	0.1362	0.12914	5.05923038	0.238511981	1.675E-05	0.010397	0.102107	0.027049	0.965097	0.87813271	5.524277
4336	476863.09	3857377.25	0.50911	0.13428	0.18388	0.20845	0.227	0.202	0.1396	0.13428	5.31193627	0.248005179	1.914E-05	0.01098	0.106543	0.028397	0.988833	0.91308394	5.781629
4337	477363.09	3857377.25	0.48931	0.13153	0.18884	0.18471	0.237	0.207	0.1377	0.13153	5.10534764	0.242926134	1.966E-05	0.009729	0.111129	0.029145	0.975442	0.89438435	5.579354
4338	477863.09	3857377.25	0.33196	0.12766	0.15447	0.17055	0.234	0.204	0.1338	0.12766	3.46359405	0.235778531	1.608E-05	0.008984	0.109619	0.028684	0.948305	0.86806893	3.926911
4339	478363.09	3857377.25	0.32066	0.11057	0.16448	0.16636	0.233	0.174	0.1105	0.11057	3.34569245	0.204214572	1.712E-05	0.008763	0.109235	0.02442	0.782791	0.75185948	3.723273
4340	478863.09	3857377.25	0.30052	0.09902	0.16088	0.14934	0.238	0.17	0.1067	0.09902	3.13555634	0.18288258	1.675E-05	0.007866	0.111603	0.023874	0.756291	0.67332121	3.544769
4341	479363.09	3857377.25	0.36733	0.12985	0.16302	0.20061	0.272	0.205	0.1382	0.12985	3.83263647	0.239823299	1.697E-05	0.010567	0.12741	0.028881	0.978913	0.8829606	4.335287
4342	479863.09	3857377.25	0.93418	0.18016	0.22515	0.34653	0.33	0.32	0.2058	0.18016	9.74701857	0.332742129	2.344E-05	0.018253	0.154856	0.044964	1.458309	1.22506109	10.53111
4343	480363.09	3857377.25	0.86011	0.1856	0.22819	0.28965	0.357	0.286	0.1933	0.1856	8.97418928	0.342789405	2.376E-05	0.015257	0.167273	0.040237	1.369529	1.26205227	9.647247
4344	480863.09	3857377.25	1.31063	0.36288	0.32129	0.51626	0.417	0.592	0.3904	0.36288	13.674811	0.670212388	3.345E-05	0.027194	0.195502	0.083259	2.766054	2.46752979	14.94954
4345	481363.09	3857377.25	1.42127	0.36802	0.41871	0.54402	0.471	0.607	0.3981	0.36802	14.8292032	0.679705586	4.359E-05	0.028656	0.220669	0.085403	2.82054	2.50248102	16.16174
4346	481863.09	3857377.25	1.58123	0.44031	0.42355	0.58776	0.547	0.702	0.4259	0.44031	16.498189	0.813219843	4.409E-05	0.03096	0.25663	0.098718	3.017443	2.99404222	17.72116
4347	482363.09	3857377.25	1.6261	0.56282	0.49628	0.61419	0.694	0.882	0.4515	0.56282	16.9663522	1.039486707	5.167E-05	0.032352	0.325491	0.124125	3.198828	3.82709192	17.85959
4348	482863.09	3857377.25	1.87202	0.63937	0.5988	0.63777	0.907	0.975	0.4723	0.63937	19.5322247	1.180868867	6.234E-05	0.033594	0.42553	0.13715	3.346628	4.34762049	20.30844
4349	483363.09	3857377.25	2.20908	0.73428	0.52778	0.70169	1.16	1.105	0.5114	0.73428	23.049031	1.356160583	5.495E-05	0.036961	0.54382	0.155382	3.623595	4.99299431	23.77201
4350	483863.09	3857377.25	2.52526	0.802	0.41488	0.75942	1.33	1.399	0.5749	0.802	26.3479802	1.481234389	4.319E-05	0.040002	0.623578	0.196841	4.073374	5.45348019	27.30957
4351	484363.09	3857377.25	2.65313	1.01125	0.38428	0.85858	1.528	1.764	0.6018	1.01125	27.6821463	1.867703586	4.001E-05	0.045225	0.716701	0.248165	4.264183	6.87634893	27.94781
4352	484863.09	3857377.25	3.02647	1.24973	0.658	0.948	1.91	2.293	0.7082	1.24973	31.5774897	2.30815842	6.85E-05	0.049935	0.895692	0.322613	5.017711	8.49797731	31.67369
4353	485363.09	3857377.25	4.05308	1.69711	1.27525	1.10749	2.651	4.125	0.7906	1.69711	42.2889015	3.134436028	0.0001328	0.058336	1.242955	0.580299	5.601545	11.5400945	41.36651
4354	485863.09	3857377.25	4.32161	2.79712	0.85613	1.3187	5.022	3.628	0.9645	2.79712	45.0906816	5.166072736	8.913E-05	0.069461	2.354884	0.510405	6.834043	19.0199981	41.00564
4355	486363.09	3857377.25	4.33401	3.36825	1.17673	1.81946	7.578	1.912	1.2698	3.36825	45.2200603	6.220907396	0.0001225	0.095838	3.55362	0.268985	8.996991	22.9035968	41.45293
4356	486863.09	3857377.25	4.65569	1.1187	0.99788	2.95491	18.53	1.856	2.5211	1.1187	48.5763952	2.06615575	0.0001039	0.155647	8.687797	0.261103	17.86297	7.60699288	70.00318
4357	487363.09	3857377.25	4.7461	1.13832	1.48403	7.12622	41.01	4.433	4.6444	1.13832	49.5197123	2.102392431	0.0001545	0.375367	19.22972	0.623652	32.90732	7.74040595	97.01791
4358	487863.09	3857377.25	3.8375	1.1788	1.6273	5.69173	47.99	3.684	2.1399	1.1788	40.0395896	2.177155982	0.0001694	0.299807	22.50532	0.518185	15.16211	8.0156639	72.68666
4359	488363.09	3857377.25	3.05513	1.09229	1.76222	3.30221	51.3	2.789	1.5328	1.09229	31.8765215	2.017378443	0.0001835	0.173941	24.05613	0.392298	10.86023	7.42740883	61.94927
4360	488863.09	3857377.25	2.58701	1.00258	2.55465	2.50088	30.69	2.504	1.2371	1.00258	26.9922654	1.85169074	0.000266	0.131732	14.3901	0.352303	8.765158	6.81739423	45.66612
4361	489363.09	3857377.25	2.37152	0.94601	2.50635	2.04347	21.22	2.182	1.0472	0.94601	24.7438925	1.747210155	0.0002609	0.107638	9.95243	0.30697	7.420073	6.43272668	37.84575
4362	489863.09	3857377.25	2.15696	0.80295	2.63421	1.95117	16.24	1.95	0.8823	0.80295	22.505223	1.482988969	0.0002742	0.102776	7.612931	0.27434	6.25113	5.45994005	32.76972

4363	490363.09	3857377.25	2.02936	0.67637	2.22238	1.8967	11.99	1.701	0.7372	0.67637
4364	490863.09	3857377.25	1.98128	0.58565	1.86113	2.35044	8.89	1.522	0.6461	0.58565
4365	491363.09	3857377.25	1.87915	0.52524	1.64107	4.91996	7.053	1.353	0.5715	0.52524
4366	491863.09	3857377.25	1.80557	0.39352	1.46952	5.52311	6.235	1.073	0.4827	0.39352
4367	492363.09	3857377.25	1.66468	0.25208	0.98842	1.59395	4.568	0.603	0.3544	0.25208
4368	492863.09	3857377.25	1.11929	0.18875	0.64571	0.89423	2.618	0.454	0.2289	0.18875
4369	493363.09	3857377.25	0.53628	0.15158	0.43516	0.60949	1.65	0.341	0.1588	0.15158
4370	493863.09	3857377.25	0.4334	0.12908	0.37979	0.53814	1.321	0.294	0.1398	0.12908
4371	494363.09	3857377.25	0.35313	0.11454	0.32867	0.45082	1.064	0.247	0.1229	0.11454
4372	494863.09	3857377.25	0.32504	0.1149	0.29933	0.40084	0.944	0.237	0.1209	0.1149
4373	495363.09	3857377.25	0.30763	0.11246	0.28195	0.36198	0.87	0.224	0.1153	0.11246
4374	495863.09	3857377.25	0.30382	0.11351	0.26547	0.33717	0.83	0.235	0.1188	0.11351
4375	496363.09	3857377.25	0.30327	0.10785	0.25175	0.32101	0.8	0.243	0.1288	0.10785
4376	496863.09	3857377.25	0.29838	0.11399	0.261	0.3135	0.788	0.274	0.1285	0.11399
4377	497363.09	3857377.25	0.30956	0.11812	0.26931	0.33282	0.832	0.395	0.1267	0.11812
4378	497863.09	3857377.25	0.3542	0.13694	0.29833	0.34619	0.88	0.433	0.1419	0.13694
4379	498363.09	3857377.25	0.54991	0.15897	0.37683	0.40516	1.036	0.689	0.1683	0.15897
4380	471363.09	3857877.25	0.26424	0.17462	0.08119	0.18339	0.132	0.188	0.1846	0.17462
4381	471863.09	3857877.25	0.27539	0.17654	0.09007	0.19132	0.137	0.197	0.1862	0.17654
4382	472363.09	3857877.25	0.2913	0.17919	0.10075	0.20164	0.147	0.203	0.188	0.17919
4383	472863.09	3857877.25	0.30305	0.18704	0.11411	0.2097	0.154	0.214	0.1963	0.18704
4384	473363.09	3857877.25	0.33018	0.18992	0.12289	0.21717	0.162	0.224	0.1974	0.18992
4385	473863.09	3857877.25	0.37129	0.19728	0.12142	0.22429	0.172	0.234	0.2032	0.19728
4386	474363.09	3857877.25	0.38096	0.18239	0.1269	0.23053	0.183	0.246	0.1914	0.18239
4387	474863.09	3857877.25	0.38539	0.14436	0.11826	0.21361	0.191	0.197	0.1557	0.14436
4388	475363.09	3857877.25	0.30388	0.11344	0.09435	0.15164	0.196	0.174	0.1264	0.11344
4389	475863.09	3857877.25	0.19479	0.06897	0.09141	0.11412	0.168	0.127	0.0749	0.06897
4390	476363.09	3857877.25	0.32844	0.11186	0.12409	0.16312	0.208	0.185	0.1218	0.11186
4391	476863.09	3857877.25	0.40811	0.12059	0.155	0.17827	0.218	0.197	0.1303	0.12059
4392	477363.09	3857877.25	0.43055	0.12402	0.1649	0.18749	0.226	0.205	0.1329	0.12402
4393	477863.09	3857877.25	0.39654	0.12637	0.18025	0.19036	0.235	0.215	0.1327	0.12637
4394	478363.09	3857877.25	0.29392	0.0961	0.118	0.15857	0.202	0.18	0.0979	0.0961
4395	478863.09	3857877.25	0.26685	0.09004	0.13201	0.14275	0.206	0.158	0.0876	0.09004
4396	479363.09	3857877.25	0.85056	0.18076	0.21196	0.33699	0.291	0.285	0.1946	0.18076
4397	479863.09	3857877.25	1.05669	0.25867	0.27065	0.44368	0.322	0.444	0.2976	0.25867
4398	480363.09	3857877.25	1.09867	0.32137	0.32084	0.45426	0.36	0.531	0.3406	0.32137
4399	480863.09	3857877.25	1.20449	0.34359	0.2881	0.48051	0.398	0.586	0.3539	0.34359
4400	481363.09	3857877.25	1.3562	0.36122	0.36944	0.51692	0.418	0.6	0.3745	0.36122
4401	481863.09	3857877.25	1.47908	0.38024	0.24793	0.54374	0.462	0.649	0.377	0.38024
4402	482363.09	3857877.25	1.46535	0.47936	0.28938	0.59008	0.676	0.801	0.4152	0.47936
4403	482863.09	3857877.25	1.54005	0.56232	0.41713	0.599	0.779	0.902	0.4176	0.56232
4404	483363.09	3857877.25	1.56329	0.61176	0.43777	0.6569	0.854	1.026	0.4747	0.61176
4405	483863.09	3857877.25	1.71167	0.71904	0.34126	0.72294	1.108	1.187	0.5173	0.71904
4406	484363.09	3857877.25	1.83458	0.83265	0.34258	0.79405	1.866	1.383	0.5615	0.83265
4407	484863.09	3857877.25	2.08407	0.9533	0.42491	0.93789	2.567	1.694	0.6152	0.9533
4408	485363.09	3857877.25	2.45235	1.1831	0.52116	1.07005	3.239	2.345	0.685	1.1831
4409	485863.09	3857877.25	3.53884	1.6014	0.94217	1.21435	5.438	4.277	0.8297	1.6014
4410	486363.09	3857877.25	4.33021	2.33232	1.14232	1.44316	7.016	9.123	0.9784	2.33232
4411	486863.09	3857877.25	4.16854	7.00494	2.87321	1.81486	11.18	5.014	1.2488	7.00494
4412	487363.09	3857877.25	4.61678	2.94994	6.59492	2.80751	17.16	3.674	2.1585	2.94994
4413	487863.09	3857877.25	4.67565	1.81106	11.61097	6.29412	20.7	4.629	4.9914	1.81106
4414	488363.09	3857877.25	3.97349	1.59179	9.0636	6.32678	23.2	6.512	2.2318	1.59179
4415	488863.09	3857877.25	3.13562	1.32584	5.86482	3.6186	15.16	4.183	1.5578	1.32584
4416	489363.09	3857877.25	2.8742	1.12367	4.18496	2.80166	14.59	3.13	1.2634	1.12367
4417	489863.09	3857877.25	2.74674	0.94496	2.90143	2.74318	12.54	2.469	1.0001	0.94496
4418	490363.09	3857877.25	2.53583	0.83818	2.35908	3.2726	11.43	2.022	0.8599	0.83818
4419	490863.09	3857877.25	2.14921	0.72669	1.98362	4.2568	9.244	1.727	0.7342	0.72669
4420	491363.09	3857877.25	2.00171	0.54942	1.62211	11.25668	8.179	1.32	0.5755	0.54942
4421	491863.09	3857877.25	1.93936	0.36497	1.25679	3.60328	7.02	0.931	0.496	0.36497

21.173874	1.249205117	0.0002314	0.099907	5.621324	0.239336	5.223045	4.59921496	29.00771
20.6722184	1.08165202	0.0001938	0.123807	4.16879	0.214154	4.577497	3.98233251	26.85598
19.6066175	0.97007924	0.0001708	0.259154	3.30716	0.190399	4.049496	3.57155354	24.81152
18.8389008	0.726802191	0.000153	0.290925	2.923603	0.150994	3.419962	2.67587721	23.67546
17.368887	0.465573023	0.0001029	0.08396	2.141882	0.084798	2.510768	1.71410634	20.94187
11.6784136	0.348607221	6.722E-05	0.047103	1.227443	0.063827	1.621981	1.2834718	13.70397
5.59542178	0.279956993	4.53E-05	0.032104	0.773674	0.04801	1.125297	1.03072136	6.823788
4.5219956	0.238401166	3.954E-05	0.028346	0.619405	0.041294	0.990179	0.87772472	5.561935
3.68447694	0.211546866	3.422E-05	0.023747	0.498841	0.034762	0.87072	0.77885489	4.545273
3.39139236	0.21221176	3.116E-05	0.021114	0.442435	0.033294	0.856478	0.78130284	4.175653
3.20974044	0.207705261	2.935E-05	0.019067	0.408119	0.031458	0.817155	0.7647112	3.928563
3.16998778	0.209644533	2.764E-05	0.01776	0.389194	0.033104	0.841528	0.77185104	3.889395
3.16424921	0.199190934	2.621E-05	0.016909	0.375356	0.034221	0.912524	0.73336389	3.969112
3.11322807	0.210531057	2.717E-05	0.016513	0.369644	0.038565	0.91054	0.77511497	3.883934
3.22987761	0.21815886	2.804E-05	0.017531	0.389934	0.055567	0.897999	0.80319835	4.005897
3.69564107	0.252918002	3.106E-05	0.018235	0.41286	0.060859	1.005342	0.93117154	4.514715
5.73763406	0.293605774	3.923E-05	0.021341	0.485946	0.096979	1.192537	1.08097225	6.74711
2.75701919	0.322510161	8.452E-06	0.00966	0.06201	0.026419	1.30817	1.18738991	3.298407
2.87335572	0.326056258	9.377E-06	0.010078	0.064369	0.027662	1.319294	1.20044563	3.420379
3.03935699	0.330950611	1.049E-05	0.010621	0.06887	0.028609	1.331906	1.21846523	3.59186
3.16195378	0.345448978	1.188E-05	0.011046	0.072134	0.030037	1.390573	1.27184406	3.73936
3.44502194	0.350768124	1.279E-05	0.011439	0.075829	0.031575	1.398509	1.29142763	4.021727
3.87395419	0.364361497	1.264E-05	0.011814	0.08087	0.032862	1.439745	1.34147453	4.462145
3.97484874	0.336860773	1.321E-05	0.012143	0.085611	0.034596	1.356138	1.24022475	4.559986
4.02107034	0.26662219	1.231E-05	0.011252	0.089653	0.027726	1.10312	0.98162643	4.537828
3.17061381	0.209515248	9.822E-06	0.007987	0.092082	0.024541	0.895306	0.77137505	3.62868
2.03239392	0.127382464	9.516E-06	0.006011	0.078938	0.017819	0.530481	0.4689857	2.32405
3.42686718	0.206597106	1.292E-05	0.008592	0.09754	0.026088	0.862643	0.76063129	3.867709
4.25812558	0.222720767	1.614E-05	0.00939	0.102318	0.027715	0.923293	0.81999399	4.723585
4.49225936	0.229055722	1.717E-05	0.009876	0.106149	0.028853	0.941361	0.84331747	4.964254
4.13740687	0.233395997	1.877E-05	0.010027	0.110037	0.030295	0.940227	0.85929712	4.60211
3.06669346	0.177489557	1.228E-05	0.008353	0.094497	0.025308	0.693515	0.65346564	3.412401
2.78425133	0.166297188	1.374E-05	0.007519	0.096555	0.022158	0.620536	0.61225855	3.085072
8.87454679	0.333850285	2.207E-05	0.017751	0.136282	0.040039	1.378953	1.229141	9.552303
11.0252596	0.477744264	2.818E-05	0.02337	0.150964	0.062515	2.108603	1.75891736	12.08957
11.4632693	0.593546503	3.34E-05	0.023928	0.168605	0.074738	2.41299	2.18526799	12.55184
12.5673707	0.634585192	2.999E-05	0.02531	0.186728	0.082371	2.507155	2.33636067	13.66719
14.1502779	0.667146491	3.846E-05	0.027228	0.196168	0.084366	2.653255	2.45624204	15.32224
15.4323794	0.702275018	2.581E-05	0.028641	0.216547	0.091239	2.671181	2.5855752	16.55671
15.2891238	0.88534229	3.013E-05	0.031082	0.316971	0.112646	2.9417	3.25957639	16.31732
16.0685264	1.038563244	4.343E-05	0.031552	0.36518	0.126875	2.958988	3.823692	16.76604
16.3110072	1.129875249	4.557E-05	0.034602	0.400565	0.144352	3.363137	4.15987661	17.22371
17.8591698	1.328013435	3.553E-05	0.03808	0.519544	0.167036	3.665328	4.88936458	18.68784
19.1415844	1.537842661	3.566E-05	0.041826	0.874881	0.1946	3.978572	5.66189561	20.10745
21.7447055	1.760674243	4.424E-05	0.049402	1.203809	0.23836	4.359056	6.48229759	22.87375
25.5872541	2.185097763	5.426E-05	0.056364	1.518839	0.329918	4.85333	8.04490326	26.48595
36.92344	2.957666772	9.809E-05	0.063965	2.550208	0.601621	5.878866	10.8892808	38.08658
45.180412	4.307621684	0.0001189	0.076017	3.289745	1.283438	6.932459	15.8594276	45.21038
43.4935845	12.93760352	0.0002991	0.095596	5.244547	0.705319	8.847986	47.6325455	23.69239
48.1704173	5.448319918	0.0006866	0.147883	8.047694	0.516893	15.2934	20.0591513	57.56614
48.7846533	3.344893208	0.0012088	0.331537	9.708339	0.651147	35.36594	12.3149374	85.87278
41.4584778	2.939917816	0.0009436	0.333257	10.87886	0.91602	15.81332	10.8239342	61.51686
32.7163356	2.448727933	0.0006106	0.190606	7.108299	0.588516	11.0375	9.01551394	45.07509
29.9887396	2.07533497	0.0004357	0.147575	6.840738	0.440369	8.951291	7.64078814	40.80369
28.6588514	1.745270883	0.0003021	0.144494	5.880073	0.347361	7.085857	6.42558683	37.43662
26.4582651	1.54805616	0.0002456	0.172381	5.359681	0.284503	6.092773	5.69949879	34.21641
22.4243612	1.342142417	0.0002065	0.224223	4.334647	0.242909	5.201788	4.94138344	28.82889
20.8853803	1.014737903	0.0001689	0.592935	3.835379	0.185677	4.077554	3.73597392	26.85586
20.2348348	0.674072463	0.0001308	0.189799	3.291616	0.131021	3.514481	2.48174148	25.55421

4422	492363.09	3857877.25	1.62575	0.23466	0.81977	1.50743	4.188	0.536	0.3471	0.23466	16.9627004	0.433399578	8.534E-05	0.079402	1.963988	0.075404	2.459612	1.59565294	20.37894
4423	492863.09	3857877.25	0.87139	0.18416	0.60361	0.97527	2.304	0.421	0.2183	0.18416	9.0918822	0.340129832	6.284E-05	0.051371	1.080287	0.059239	1.547018	1.25226049	10.91773
4424	493363.09	3857877.25	0.64944	0.15359	0.51747	0.77059	1.777	0.357	0.1954	0.15359	6.77610711	0.283669314	5.387E-05	0.04059	0.833241	0.050262	1.38448	1.04438906	8.324014
4425	493863.09	3857877.25	0.53481	0.14098	0.47236	0.63553	1.601	0.338	0.1615	0.14098	5.58008414	0.260379581	4.918E-05	0.033476	0.750636	0.047561	1.144286	0.95864294	6.857829
4426	494363.09	3857877.25	0.46714	0.1325	0.40303	0.53908	1.381	0.315	0.1503	0.1325	4.87403098	0.244717652	4.196E-05	0.028396	0.647404	0.044375	1.064788	0.90098021	6.002773
4427	494863.09	3857877.25	0.39469	0.12257	0.37347	0.44665	1.168	0.3	0.1324	0.12257	4.11810439	0.22637768	3.888E-05	0.023527	0.547838	0.042208	0.93796	0.83345769	5.062597
4428	495363.09	3857877.25	0.36147	0.12256	0.3574	0.41351	1.087	0.299	0.1262	0.12256	3.77149458	0.22635921	3.721E-05	0.021781	0.509875	0.042087	0.894243	0.83338969	4.632488
4429	495863.09	3857877.25	0.34953	0.12396	0.33541	0.3887	0.977	0.319	0.1291	0.12396	3.64691537	0.228944906	3.492E-05	0.020474	0.458115	0.044901	0.915003	0.84290948	4.47148
4430	496363.09	3857877.25	0.3583	0.12887	0.32625	0.38605	0.973	0.553	0.1399	0.12887	3.73841953	0.238013311	3.396E-05	0.020335	0.456174	0.077801	0.991455	0.87629675	4.645934
4431	496863.09	3857877.25	0.36594	0.13573	0.3261	0.36687	0.974	3.043	0.1429	0.13573	3.81813353	0.250683221	3.395E-05	0.019325	0.456544	0.428111	1.012498	0.92294372	5.062385
4432	497363.09	3857877.25	0.37171	0.14038	0.30815	0.3531	0.939	7.398	0.1442	0.14038	3.87833637	0.259271426	3.208E-05	0.018599	0.440451	1.040784	1.021496	0.95456303	5.704408
4433	497863.09	3857877.25	0.5194	0.1447	0.33765	0.38821	1.096	1.712	0.1745	0.1447	5.41929976	0.267250145	3.515E-05	0.020449	0.514062	0.240858	1.236679	0.98393838	6.714694
4434	498363.09	3857877.25	0.65046	0.17014	0.35199	0.4627	1.292	1.19	0.1981	0.17014	6.78674956	0.314235934	3.664E-05	0.024372	0.605609	0.167441	1.403468	1.15692658	8.144986
4435	471363.09	3858377.25	0.27354	0.1771	0.10417	0.18853	0.125	0.189	0.1821	0.1771	2.85405325	0.327090537	1.084E-05	0.009931	0.058582	0.026571	1.290102	1.20425354	3.362087
4436	471863.09	3858377.25	0.2879	0.17787	0.10569	0.19131	0.129	0.196	0.1829	0.17787	3.00388217	0.328512669	1.1E-05	0.010077	0.06028	0.027512	1.296196	1.20948943	3.516981
4437	472363.09	3858377.25	0.31614	0.1785	0.09916	0.20645	0.133	0.2	0.1831	0.1785	3.29853182	0.329676232	1.032E-05	0.010875	0.062155	0.028111	1.2974	1.21377333	3.812986
4438	472863.09	3858377.25	0.3406	0.18321	0.11395	0.20904	0.137	0.227	0.189	0.18321	3.55374181	0.338375252	1.186E-05	0.011011	0.064139	0.031904	1.339062	1.24580063	4.092444
4439	473363.09	3858377.25	0.35235	0.18922	0.12147	0.23218	0.143	0.264	0.1961	0.18922	3.6763386	0.349475276	1.265E-05	0.01223	0.067201	0.037114	1.389227	1.28666773	4.244931
4440	473863.09	3858377.25	0.38762	0.19105	0.11154	0.23933	0.149	0.266	0.1939	0.19105	4.04433764	0.35285515	1.161E-05	0.012606	0.070024	0.037389	1.373993	1.29911146	4.592105
4441	474363.09	3858377.25	0.42053	0.16919	0.12212	0.2389	0.155	0.243	0.1846	0.16919	4.38771299	0.312481354	1.271E-05	0.012584	0.072912	0.034239	1.308099	1.15046673	4.977575
4442	474863.09	3858377.25	0.42633	0.14323	0.10896	0.22696	0.162	0.198	0.1597	0.14323	4.44822885	0.264535164	1.134E-05	0.011955	0.075998	0.027883	1.131745	0.9739426	4.986413
4443	475363.09	3858377.25	0.35866	0.11598	0.10084	0.16747	0.168	0.174	0.1269	0.11598	3.74217569	0.214206439	1.05E-05	0.008821	0.078732	0.024541	0.898849	0.78864667	4.178689
4444	475863.09	3858377.25	0.27008	0.10292	0.1055	0.15272	0.174	0.178	0.1144	0.10292	2.8179524	0.19008559	1.098E-05	0.008044	0.081742	0.02498	0.810636	0.69984062	3.233611
4445	476363.09	3858377.25	0.28536	0.10514	0.12602	0.1564	0.185	0.182	0.1159	0.10514	2.9773804	0.194185765	1.312E-05	0.008238	0.086544	0.025593	0.821335	0.71493629	3.398353
4446	476863.09	3858377.25	0.31362	0.11414	0.1171	0.16982	0.205	0.191	0.1213	0.11414	3.27223872	0.210808096	1.219E-05	0.008945	0.095894	0.026885	0.859313	0.77613495	3.69796
4447	477363.09	3858377.25	0.31065	0.10971	0.11428	0.17168	0.217	0.202	0.1206	0.10971	3.24125042	0.202626216	1.19E-05	0.009043	0.101624	0.028476	0.854282	0.74601161	3.691302
4448	477863.09	3858377.25	0.44259	0.12541	0.12237	0.19683	0.231	0.22	0.1314	0.12541	4.61788194	0.231622949	1.274E-05	0.010368	0.108161	0.031009	0.930662	0.85276927	5.076948
4449	478363.09	3858377.25	0.48017	0.13168	0.16325	0.21463	0.237	0.23	0.1367	0.13168	5.00998299	0.243203173	1.7E-05	0.011305	0.11112	0.032292	0.968569	0.89540433	5.481085
4450	478863.09	3858377.25	0.34966	0.11923	0.13593	0.18565	0.229	0.202	0.1211	0.11923	3.64827176	0.220208948	1.415E-05	0.009779	0.107401	0.028411	0.857683	0.81074619	4.061023
4451	479363.09	3858377.25	0.87207	0.17427	0.17282	0.33898	0.294	0.316	0.2003	0.17427	9.09897717	0.321863737	1.799E-05	0.017855	0.137679	0.04447	1.41941	1.18500997	9.855264
4452	479863.09	3858377.25	1.01383	0.27175	0.23621	0.43436	0.308	0.464	0.296	0.27175	10.5780683	0.501902051	2.459E-05	0.02288	0.144441	0.065321	2.09755	1.8478594	11.56233
4453	480363.09	3858377.25	1.04293	0.33763	0.24171	0.45352	0.355	0.535	0.3271	0.33763	10.881691	0.623577515	2.516E-05	0.023889	0.16663	0.075245	2.31748	2.29583356	11.7927
4454	480863.09	3858377.25	1.04085	0.34594	0.26574	0.47087	0.403	0.56	0.3356	0.34594	10.8599887	0.638925467	2.767E-05	0.024803	0.189054	0.078752	2.378131	2.35234032	11.81734
4455	481363.09	3858377.25	1.14859	0.35858	0.3021	0.53669	0.49	0.601	0.3384	0.35858	11.984123	0.662270608	3.145E-05	0.02827	0.229564	0.084545	2.397403	2.43829043	12.94792
4456	481863.09	3858377.25	1.25707	0.37855	0.24566	0.56386	0.628	0.635	0.3594	0.37855	13.1159783	0.699153713	2.557E-05	0.029701	0.294645	0.089356	2.546266	2.57408345	14.20104
4457	482363.09	3858377.25	1.4004	0.39305	0.2396	0.59129	0.867	0.687	0.3848	0.39305	14.6114505	0.725934135	2.494E-05	0.031146	0.406342	0.09663	2.726659	2.67268128	15.92551
4458	482863.09	3858377.25	1.31323	0.48648	0.39782	0.65049	0.969	0.864	0.401	0.48648	13.7019388	0.898492401	4.142E-05	0.034264	0.454552	0.121558	2.841159	3.30799133	14.74401
4459	483363.09	3858377.25	1.30739	0.52124	0.44379	0.67396	1.198	1.054	0.409	0.52124	13.6410056	0.962691537	4.62E-05	0.0355	0.561695	0.148248	2.897983	3.54435413	14.70282
4460	483863.09	3858377.25	1.39155	0.62734	0.33437	0.71639	1.372	1.204	0.4634	0.62734	14.5191116	1.158650351	3.481E-05	0.037735	0.643549	0.169402	3.283144	4.26581828	15.54581
4461	484363.09	3858377.25	1.4793	0.71443	0.34016	0.8228	1.395	1.386	0.4994	0.71443	15.4346749	1.319499108	3.541E-05	0.04334	0.654142	0.195013	3.538146	4.85801727	16.32683
4462	484863.09	3858377.25	1.70411	0.80639	0.45543	0.91536	3.152	1.639	0.5409	0.80639	17.7802905	1.489342393	4.741E-05	0.048216	1.477935	0.230608	3.832472	5.48333154	19.37558
4463	485363.09	3858377.25	1.98041	0.93894	0.4976	1.00351	3.436	2.43	0.587	0.93894	20.663141	1.734152391	5.18E-05	0.052859	1.61137	0.3418	4.159107	6.38465173	22.17783
4464	485863.09	3858377.25	2.47782	1.14597	0.9867	1.12585	3.505	3.719	0.6868	1.14597	25.8530022	2.116521413	0.0001027	0.059303	1.643768	0.523236	4.866013	7.79242481	27.26952
4465	486363.09	3858377.25	3.80503	1.41637	1.60121	1.37214	4.47	9.297	0.8583	1.41637	39.7008051	2.615930114	0.0001667	0.072276	2.095891	1.307874	6.081223	9.63110441	42.24306
4466	486863.09	3858377.25	4.47743	1.86319	2.25183	1.65189	6.445	9.171	1.0056	1.86319	46.7164715	3.441173443	0.0002344	0.087012	3.022076	1.290167	7.125039	12.6694137	49.01276
4467	487363.09	3858377.25	4.30945	2.77087	2.05901	2.03023	3.784	9.334	1.3072	2.77087	44.963807	5.117590937	0.0002144	0.10694	1.774371	1.31312	9.262125	18.8415021	43.69667
4468	487863.09	3858377.25	4.59122	9.08531	5.40453	2.95818	2.554	7.3	2.2433	9.08531	47.9037301	16.77989228	0.0005626	0.155819	1.197657	1.026994	15.89452	61.7787508	21.18042
4469	488363.09	3858377.25	4.87771	3.36953	6.13462	6.26697	3.476	4.699	5.7555	3.36953	50.8929007	6.22327146	0.0006387	0.330107	1.630169	0.661054	40.78008	22.9123006	77.60592
4470	488863.09	3858377.25	4.31348	2.1974	4.21717	7.75772	6.873	6.27	2.423	2.1974	45.0058551	4.058434472	0.000439	0.408631	3.223074	0.882088	17.16747	14.9419917	55.804
4471	489363.09	3858377.25	3.36873	1.61531	2.99977	9.73449	5.182	4.052	1.6298	1.61531	35.1485515	2.983357508	0.0003123	0.512755	2.429935	0.570027	11.54779	10.9838667	42.20886
4472	489863.09	3858377.25	2.66945	1.29862	2.41581	15.79878	4.986	3.006	1.2453	1.29862	27.8524254	2.398454616	0.0002515	0.832186	2.33804	0.42284	8.823683	8.830422	33.83746
4473	490363.09	3858377.25	2.3333	1.0479	1.88806	15.42925	6.664	2.418	1.031	1.0479	24.3451138	1.935393412	0.0001966	0.812721	3.125032	0.340172	7.305078	7.12556346	30.73814
4474	490863.09	3858377.25	2.11306	0.8723	1.661	12.94367	5.943	1.923	0.8804	0.8723	22.0471805	1.611073264	0.0001729	0.681796	2.786665	0.270556	6.237952	5.93150969	27.70389
4475	491363.09	3858377.25	2.11544	0.61398	1.41984	5.5983	5.546	1.32	0.6073	0.61398	22.0720129	1.133975424	0.0001478	0.294885	2.600584	0.18575	4.302656	4.17497228	26.41504
4476	491863.09	3858377.25	2.09299	0.35041	1.02529	2.00685	4.207	0.812	0.4249	0.35041	21.8377747	0.647181225	0.0001067	0.105709	1.972898	0.114243	3.01057	2.38273565	25.30575
4477	492363.09	3858377.25	1.30576	0.21907	0.75503	0.97319	2.752	0.496	0.2621	0.21907	13.6239986	0.404606007	7.86E-05	0.051262	1.290433	0.069805	1.857356	1.48964327	15.8079
4478	492863.09	3858377.25	1.39413	0.23082	0.8006	0.93229	2.799	0.538	0.305	0.23082	14.5460307	0.426307384	8.335E-05	0.049108	1.312655	0.075724	2.161248	1.56954152	17.00161
4479	493363.09	3858377.25	1.0837	0.20977	0.71868	0.73928	2.219	0.51	0.2609	0.20977	11.3070758	0.387429598	7.482E-05	0.038941	1.040414	0.071704	1.848641	1.42640466	13.26788
4480	493863.09	3858377.25	0.95493	0.1953	0.62573	0.64009	2.029	0.486	0.2295	0.1953	9.96351929	0.360704584	6.514E-05	0.033716	0.951226	0.068312	1.625736	1.32801082	11.67527

4481	494363.09	3858377.25	0.79856	0.17164	0.56291	0.55761	1.882	0.488	0.2007	0.17164	8.33199079	0.317006322	5.86E-05	0.029372	0.882656	0.068706	1.421961	1.16712636	9.884624
4482	494863.09	3858377.25	0.66701	0.15256	0.48437	0.49624	1.535	0.501	0.1756	0.15256	6.95942844	0.281766981	5.043E-05	0.026139	0.71996	0.070455	1.24426	1.03738521	8.264674
4483	495363.09	3858377.25	0.54213	0.141	0.39909	0.40526	1.279	0.566	0.1625	0.141	5.65645933	0.26041652	4.155E-05	0.021347	0.599701	0.079682	1.151584	0.95877894	6.810451
4484	495863.09	3858377.25	0.52873	0.14122	0.39459	0.3782	1.235	0.992	0.157	0.14122	5.51664682	0.260822843	4.108E-05	0.019921	0.578904	0.139569	1.112189	0.9602749	6.667819
4485	496363.09	3858377.25	0.50567	0.13974	0.39713	0.36607	1.189	3.634	0.1629	0.13974	5.27604411	0.258089393	4.134E-05	0.019282	0.557423	0.511182	1.154489	0.95021112	6.82634
4486	496863.09	3858377.25	0.55947	0.15628	0.40066	0.39552	1.2	2.306	0.1812	0.15628	5.83738089	0.288637544	4.171E-05	0.020834	0.562497	0.324394	1.284151	1.06268065	7.255255
4487	497363.09	3858377.25	0.57766	0.15703	0.39786	0.41829	1.216	1.509	0.1881	0.15703	6.02717116	0.290022738	4.142E-05	0.022033	0.570365	0.212239	1.332756	1.06778054	7.386848
4488	497863.09	3858377.25	0.69058	0.17041	0.42509	0.49881	1.292	1.24	0.1987	0.17041	7.20535238	0.314734604	4.425E-05	0.026274	0.605609	0.174456	1.407578	1.15876254	8.575286
4489	498363.09	3858377.25	0.79437	0.18063	0.51866	0.58435	1.476	1.146	0.24	0.18063	8.28827329	0.333610184	5.4E-05	0.03078	0.691956	0.161244	1.700557	1.22825702	9.978218
4490	471363.09	3858877.25	0.29432	0.17579	0.097	0.1976	0.13	0.212	0.1771	0.17579	3.07086697	0.324671064	1.01E-05	0.010408	0.061185	0.029882	1.254605	1.19534574	3.556283
4491	471863.09	3858877.25	0.30518	0.17661	0.10912	0.20139	0.135	0.22	0.1774	0.17661	3.18417771	0.326185543	1.136E-05	0.010608	0.063257	0.031002	1.257014	1.20092162	3.671334
4492	472363.09	3858877.25	0.32625	0.17843	0.12274	0.21603	0.152	0.23	0.1801	0.17843	3.40401722	0.329546948	1.278E-05	0.011379	0.071276	0.032374	1.276073	1.21329734	3.911382
4493	472863.09	3858877.25	0.36187	0.18183	0.12646	0.22283	0.161	0.24	0.183	0.18183	3.77566808	0.335826495	1.317E-05	0.011737	0.07558	0.033721	1.296904	1.23641684	4.293034
4494	473363.09	3858877.25	0.39775	0.18582	0.13395	0.25007	0.17	0.252	0.1863	0.18582	4.15003173	0.343195728	1.395E-05	0.013172	0.07966	0.03539	1.319648	1.26354824	4.677564
4495	473863.09	3858877.25	0.41508	0.18575	0.13302	0.25819	0.176	0.25	0.1883	0.18575	4.33084895	0.343066444	1.385E-05	0.0136	0.082469	0.035138	1.334386	1.26307225	4.87645
4496	474363.09	3858877.25	0.41739	0.17207	0.13423	0.24091	0.174	0.235	0.1811	0.17207	4.35495095	0.3178005	1.397E-05	0.01269	0.081437	0.033122	1.28323	1.17005029	4.913194
4497	474863.09	3858877.25	0.37894	0.11788	0.11119	0.16297	0.169	0.174	0.1237	0.11788	3.95377253	0.217715598	1.158E-05	0.008584	0.079304	0.024471	0.876317	0.80156639	4.358609
4498	475363.09	3858877.25	0.28406	0.09757	0.11179	0.15342	0.175	0.17	0.1062	0.09757	2.9638165	0.180204538	1.164E-05	0.008081	0.082216	0.023904	0.752111	0.66346142	3.346883
4499	475863.09	3858877.25	0.32461	0.10184	0.10162	0.16309	0.183	0.18	0.1113	0.10184	3.38690584	0.18809091	1.058E-05	0.008591	0.085887	0.025386	0.788742	0.69249679	3.791117
4500	476363.09	3858877.25	0.26833	0.08288	0.0942	0.14595	0.152	0.159	0.0913	0.08288	2.79969331	0.1530732	9.807E-06	0.007688	0.071201	0.022314	0.647177	0.56357162	3.137584
4501	476863.09	3858877.25	0.28942	0.10036	0.09527	0.16063	0.155	0.186	0.1029	0.10036	3.0197415	0.18535746	9.918E-06	0.008461	0.072908	0.026161	0.728729	0.68243301	3.358935
4502	477363.09	3858877.25	0.31172	0.1018	0.09039	0.17484	0.157	0.198	0.1058	0.1018	3.25241456	0.188017033	9.41E-06	0.00921	0.073841	0.027819	0.749419	0.69222479	3.608504
4503	477863.09	3858877.25	0.35948	0.10862	0.13775	0.18429	0.18	0.211	0.1167	0.10862	3.75073138	0.200613067	1.434E-05	0.009707	0.084513	0.029669	0.827074	0.73859977	4.163722
4504	478363.09	3858877.25	0.68303	0.13754	0.13039	0.26706	0.253	0.245	0.1501	0.13754	7.12657742	0.254026157	1.357E-05	0.014067	0.118679	0.034412	1.063654	0.93525145	7.676178
4505	478863.09	3858877.25	0.64909	0.13951	0.11723	0.25056	0.27	0.231	0.1492	0.13951	6.77245529	0.257664601	1.22E-05	0.013198	0.126444	0.032492	1.056994	0.94864716	7.310613
4506	479363.09	3858877.25	0.4881	0.1326	0.13285	0.21707	0.299	0.228	0.1429	0.1326	5.09272278	0.244902344	1.383E-05	0.011434	0.14024	0.032084	1.012285	0.90166019	5.632022
4507	479863.09	3858877.25	0.88102	0.29008	0.19887	0.46721	0.423	0.492	0.2889	0.29008	9.1923594	0.535756199	2.07E-05	0.02461	0.198217	0.069242	2.046961	1.97250067	10.09467
4508	480363.09	3858877.25	0.8884	0.33239	0.19055	0.48041	0.478	0.549	0.3185	0.33239	9.26936062	0.613899624	1.984E-05	0.025305	0.224139	0.077193	2.2569	2.26020234	10.20661
4509	480863.09	3858877.25	0.98507	0.35091	0.27542	0.49789	0.536	0.582	0.3055	0.35091	10.2779931	0.648104688	2.867E-05	0.026226	0.251177	0.081869	2.164294	2.38613558	11.06356
4510	481363.09	3858877.25	1.06627	0.34923	0.24769	0.5183	0.667	0.604	0.3086	0.34923	11.1252152	0.645001853	2.579E-05	0.027301	0.312642	0.084958	2.186613	2.37471183	12.00705
4511	481863.09	3858877.25	1.08713	0.36853	0.21047	0.54223	0.68	0.655	0.3324	0.36853	11.3428636	0.680647518	2.191E-05	0.028561	0.318743	0.092186	2.355245	2.50594895	12.31232
4512	482363.09	3858877.25	1.26234	0.37847	0.24305	0.56242	0.88	0.723	0.3539	0.37847	13.1709643	0.699005959	2.53E-05	0.029625	0.412564	0.101713	2.507509	2.57353946	14.34787
4513	482863.09	3858877.25	1.2788	0.41622	0.29253	0.65903	0.99	0.798	0.3863	0.41622	13.3427041	0.768727403	3.045E-05	0.034714	0.464272	0.112261	2.737358	2.83023382	14.62983
4514	483363.09	3858877.25	1.18943	0.46758	0.5152	0.67804	0.999	0.928	0.3939	0.46758	12.4102382	0.863585506	5.364E-05	0.035715	0.468314	0.130574	2.790782	3.17947415	13.51979
4515	483863.09	3858877.25	1.23344	0.53487	0.30835	0.71024	1.239	1.1	0.4247	0.53487	12.8694284	0.987865134	3.21E-05	0.037411	0.580921	0.154691	3.009436	3.6370361	14.00275
4516	484363.09	3858877.25	1.20149	0.57819	0.40009	0.76544	1.639	1.371	0.448	0.57819	12.5360694	1.067873954	4.165E-05	0.040319	0.768437	0.192816	3.174242	3.93160563	13.84819
4517	484863.09	3858877.25	1.3501	0.63841	0.43691	0.82465	2.148	1.782	0.4587	0.63841	14.0866319	1.179095818	4.549E-05	0.043438	1.007098	0.250642	3.250055	4.34109263	15.47591
4518	485363.09	3858877.25	1.696	0.7792	0.49598	0.88783	2.086	2.274	0.5208	0.7792	17.6956727	1.439124484	5.163E-05	0.046766	0.978283	0.319943	3.690198	5.2984436	18.87159
4519	485863.09	3858877.25	2.04188	0.86329	0.69456	0.97855	2.306	3.118	0.5928	0.86329	21.3045048	1.594432464	7.231E-05	0.051544	1.081478	0.438647	4.20006	5.87024303	22.8005
4520	486363.09	3858877.25	3.05807	1.06128	0.66861	1.0628	3.332	4.78	0.6937	1.06128	31.9071968	1.960105277	6.961E-05	0.055982	1.56249	0.672415	4.915044	7.21654546	33.85676
4521	486863.09	3858877.25	3.82886	1.19739	0.749	1.25076	2.106	3.95	0.8223	1.19739	39.9494418	2.211490331	7.798E-05	0.065883	0.987638	0.555699	5.826363	8.14207312	41.45452
4522	487363.09	3858877.25	4.2964	1.54708	0.64459	1.79635	1.126	4.808	1.0443	1.54708	44.8276463	2.857341769	6.711E-05	0.094621	0.527862	0.676335	7.399313	10.5199129	45.86327
4523	487863.09	3858877.25	4.36102	2.05953	1.21269	2.52147	0.717	7.991	1.3625	2.05953	45.5018765	3.80379883	0.0001262	0.132816	0.336135	1.124137	9.654017	14.0044963	46.54841
4524	488363.09	3858877.25	4.67624	3.24245	1.10565	3.75747	1.189	5.112	2.2279	3.24245	48.7908092	5.988564146	0.0001151	0.197921	0.557334	0.719196	15.7854	22.0481756	49.99117
4525	488863.09	3858877.25	4.9582	6.28353	1.8391	8.09606	2.944	4.172	10.085	6.28353	51.7327148	11.60521287	0.0001915	0.426452	1.380681	0.586854	71.45693	42.7270653	94.46197
4526	489363.09	3858877.25	3.46576	3.02933	1.89436	12.67488	2.757	6.42	2.9238	3.02933	36.1609402	5.594947347	0.0001972	0.667638	1.292688	0.903193	20.71604	20.5989915	44.73665
4527	489863.09	3858877.25	2.78067	2.06003	2.26491	5.81021	2.427	4.102	2.0079	2.06003	29.0128692	3.804722293	0.0002358	0.306047	1.138048	0.577013	14.2267	14.0078963	35.05774
4528	490363.09	3858877.25	2.32404	1.45459	2.16479	4.03617	2.354	2.891	1.4204	1.45459	24.2484971	2.686519614	0.0002254	0.212602	1.103962	0.406712	10.0639	9.8909947	28.83143
4529	490863.09	3858877.25	2.19795	0.82303	2.54395	2.70841	2.918	1.804	0.7449	0.82303	22.9329032	1.520075236	0.0002648	0.142663	1.3684	0.253768	5.277744	5.59648105	25.89934
4530	491363.09	3858877.25	2.243	0.45896	2.38591	1.48749	2.645	1.034	0.4587	0.45896	23.4029445	0.847665007	0.0002484	0.078352	1.240193	0.145429	3.249913	3.12085944	25.84389
4531	491863.09	3858877.25	1.82049	0.28818	1.482	0.98544	2.512	0.615	0.3023	0.28818	18.9945726	0.53224704	0.0001543	0.051907	1.177859	0.086549	2.14155	1.95958095	21.02526
4532	492363.09	3858877.25	1.81059	0.3242	1.45362	1.19917	3.077	0.739	0.3692	0.3242	18.8912783	0.598773303	0.0001513	0.063165	1.443089	0.103964	2.615915	2.20451157	21.51182
4533	492863.09	3858877.25	1.70877	0.39173	1.58287	1.52309	2.883	0.904	0.3997	0.39173	17.8289119	0.723496194	0.0001648	0.080227	1.351922	0.127184	2.832019	2.66370548	20.28022
4534	493363.09	3858877.25	1.54439	0.32458	1.29151	1.28973	2.97	0.794	0.3691	0.32458	16.1138089	0.599475135	0.0001345	0.067935	1.392582	0.111764	2.614994	2.20709551	18.6936
4535	493863.09	3858877.25	1.32027	0.25034	1.0156	0.88466	2.283	0.688	0.3202	0.25034	13.7753926	0.462359373	0.0001057	0.046599	1.070739	0.096803	2.268874	1.7022746	16.0186
4536	494363.09	3858877.25	1.18438	0.23114	0.82519	0.75918	1.991	0.823	0.2923	0.23114	12.3575476	0.4268984	8.591E-05	0.039989	0.933627	0.115831	2.070768	1.57171747	14.37303
4537	494863.09	3858877.25	1.05126	0.21543	0.72696	0.66349	1.705	1.095	0.2558	0.21543	10.9686043	0.397883198	7.568E-05	0.034949	0.799277	0.154036	1.812081	1.46489182	12.70201
4538	495363.09	3858877.25	0.91692	0.18959	0.61839	0.56016	1.532	1.568	0.2175	0.18959	9.56693172	0.350158638	6.438E-05	0.029506	0.71837	0.220515	1.541279	1.28918368	11.13764
4539	495863.09	3858877.25	0.85518	0.16973	0.56548	0.52865	1.475	3.848	0.2047	0.16973	8.9227508	0.313478694	5.887E-05	0.027846	0.69167	0.541353	1.450444	1.15413864	10.79346

4540	496363.09	3858877.25	0.84838	0.16817	0.52698	0.52007	1.469	2.892	0.2106	0.16817	8.85180117	0.31059749	5.486E-05	0.027394	0.688716	0.406858	1.49239	1.14353088	10.63428
4541	496863.09	3858877.25	0.84905	0.16735	0.50806	0.52679	1.412	1.774	0.213	0.16735	8.8587918	0.309083011	5.289E-05	0.027748	0.662236	0.249576	1.509111	1.137955	10.47864
4542	497363.09	3858877.25	0.81442	0.16934	0.47703	0.52031	1.453	1.333	0.2007	0.16934	8.49747037	0.312758393	4.966E-05	0.027407	0.681461	0.187474	1.422244	1.1514867	9.977379
4543	497863.09	3858877.25	0.88591	0.18631	0.53358	0.6301	1.38	1.196	0.2306	0.18631	9.24338053	0.344100722	5.555E-05	0.03319	0.646954	0.168223	1.633672	1.26688017	10.80269
4544	498363.09	3858877.25	0.89446	0.21889	0.56667	0.72417	1.556	1.161	0.2495	0.21889	9.33258926	0.40427356	5.899E-05	0.038145	0.729723	0.163365	1.767514	1.4884193	10.94725
4545	471363.09	3859377.25	0.29741	0.17347	0.09422	0.20629	0.13	0.227	0.1737	0.17347	3.10310732	0.320386196	9.809E-06	0.010866	0.060866	0.031983	1.230798	1.17957009	3.578446
4546	471863.09	3859377.25	0.3415	0.17358	0.10831	0.21498	0.132	0.238	0.1738	0.17358	3.5631322	0.320589358	1.128E-05	0.011324	0.061729	0.03343	1.231507	1.18031807	4.041404
4547	472363.09	3859377.25	0.36502	0.17683	0.125	0.22682	0.14	0.248	0.1765	0.17683	3.80853446	0.326591867	1.301E-05	0.011948	0.065747	0.034866	1.250566	1.20241758	4.295849
4548	472863.09	3859377.25	0.37227	0.1814	0.13957	0.22999	0.146	0.252	0.1823	0.1814	3.88417929	0.335032317	1.453E-05	0.012115	0.068336	0.035438	1.291307	1.2334929	4.392928
4549	473363.09	3859377.25	0.38771	0.18569	0.1468	0.23273	0.144	0.256	0.1897	0.18569	4.04527668	0.342955628	1.528E-05	0.012259	0.067754	0.036002	1.34388	1.26266426	4.585478
4550	473863.09	3859377.25	0.41864	0.18614	0.11319	0.23581	0.146	0.257	0.1905	0.18614	4.36799317	0.343786745	1.178E-05	0.012421	0.068495	0.036185	1.349761	1.26572419	4.912929
4551	474363.09	3859377.25	0.44679	0.17014	0.10979	0.24257	0.15	0.264	0.1816	0.17014	4.66170377	0.314235934	1.143E-05	0.012777	0.07016	0.037169	1.286418	1.15692658	5.225549
4552	474863.09	3859377.25	0.45749	0.14025	0.0854	0.2286	0.155	0.228	0.1562	0.14025	4.7733451	0.259031326	8.891E-06	0.012041	0.072509	0.032036	1.106804	0.95367905	5.302097
4553	475363.09	3859377.25	0.39215	0.11718	0.0843	0.18154	0.142	0.179	0.1229	0.11718	4.09160262	0.21642275	8.776E-06	0.009562	0.06661	0.025216	0.870649	0.79680649	4.483265
4554	475863.09	3859377.25	0.28423	0.09432	0.08251	0.1514	0.157	0.176	0.1053	0.09432	2.96559024	0.174202029	8.59E-06	0.007975	0.073803	0.024825	0.746018	0.64136191	3.35106
4555	476363.09	3859377.25	0.28724	0.0888	0.08615	0.15313	0.186	0.171	0.0948	0.0888	2.99699588	0.164007	8.969E-06	0.008066	0.087167	0.024065	0.671338	0.60382673	3.347822
4556	476863.09	3859377.25	0.25898	0.07815	0.08809	0.14389	0.187	0.159	0.0801	0.07815	2.70213756	0.144337241	9.171E-06	0.007579	0.087547	0.022363	0.567325	0.53140833	2.99989
4557	477363.09	3859377.25	0.28846	0.07933	0.09106	0.15112	0.211	0.163	0.0846	0.07933	3.00972508	0.146516614	9.48E-06	0.00796	0.098825	0.022896	0.599209	0.53943215	3.345709
4558	477863.09	3859377.25	0.42087	0.10492	0.09716	0.20318	0.262	0.217	0.1188	0.10492	4.39126047	0.193779442	1.011E-05	0.010702	0.122922	0.030483	0.841741	0.71344033	4.877458
4559	478363.09	3859377.25	0.64099	0.12866	0.14097	0.25222	0.288	0.235	0.1445	0.12866	6.68794176	0.237625457	1.468E-05	0.013285	0.134885	0.033086	1.023551	0.87486878	7.25552
4560	478863.09	3859377.25	0.75028	0.15882	0.16276	0.32594	0.318	0.32	0.1893	0.15882	7.82824841	0.293328735	1.694E-05	0.017169	0.149144	0.045026	1.340905	1.07995227	8.593885
4561	479363.09	3859377.25	0.83338	0.21172	0.13305	0.37208	0.377	0.401	0.2275	0.21172	8.69529463	0.391031103	1.385E-05	0.019599	0.176858	0.056414	1.612132	1.43966437	9.511678
4562	479863.09	3859377.25	0.84415	0.26133	0.16748	0.3907	0.435	0.433	0.2656	0.26133	8.80766633	0.482657086	1.744E-05	0.02058	0.203797	0.060962	1.882155	1.77700496	9.68083
4563	480363.09	3859377.25	0.87235	0.30664	0.25174	0.39732	0.481	0.525	0.2925	0.30664	9.10189862	0.566341288	2.621E-05	0.020928	0.225564	0.073818	2.072468	2.08510619	9.975939
4564	480863.09	3859377.25	0.9576	0.3221	0.32576	0.42728	0.703	0.551	0.2864	0.3221	9.99137745	0.594894759	3.391E-05	0.022507	0.329589	0.0775	2.029035	2.19023188	10.8547
4565	481363.09	3859377.25	0.95502	0.34417	0.27166	0.44566	0.682	0.607	0.2997	0.34417	9.96445833	0.635656409	2.828E-05	0.023475	0.31977	0.085389	2.123695	2.34030459	10.81217
4566	481863.09	3859377.25	0.98708	0.34427	0.23998	0.48833	0.645	0.707	0.3015	0.34427	10.298965	0.635841101	2.498E-05	0.025722	0.302495	0.099439	2.136378	2.34098457	11.15788
4567	482363.09	3859377.25	1.05395	0.36524	0.24844	0.53535	0.605	0.757	0.3249	0.36524	10.9966711	0.674571133	2.586E-05	0.028199	0.283462	0.106503	2.301963	2.48357744	11.90782
4568	482863.09	3859377.25	1.1111	0.41168	0.32635	0.59667	0.857	0.841	0.3581	0.41168	11.592961	0.760342361	3.398E-05	0.031429	0.402051	0.118325	2.536913	2.7993625	12.64269
4569	483363.09	3859377.25	1.08558	0.43568	0.35284	0.6525	1.117	0.963	0.3714	0.43568	11.3266912	0.804668577	3.673E-05	0.03437	0.523656	0.135512	2.631503	2.96255891	12.49388
4570	483863.09	3859377.25	1.04651	0.46396	0.27929	0.68334	1.277	1.137	0.3861	0.46396	10.9190439	0.856899635	2.908E-05	0.035994	0.598979	0.159962	2.735658	3.15485869	12.15171
4571	484363.09	3859377.25	1.11352	0.49145	0.33999	0.72031	1.444	1.291	0.4071	0.49145	11.6182108	0.907671622	3.54E-05	0.037942	0.676965	0.181548	2.88445	3.34178658	12.96504
4572	484863.09	3859377.25	1.25697	0.54594	0.33003	0.81376	1.12	1.515	0.4371	0.54594	13.114935	1.008310602	3.436E-05	0.042864	0.525302	0.213169	3.097295	3.71231044	14.2896
4573	485363.09	3859377.25	1.49045	0.64327	0.39081	0.90854	1.496	1.854	0.4695	0.64327	15.5510114	1.188071877	4.069E-05	0.047857	0.701583	0.260875	3.326577	4.3741399	16.70188
4574	485863.09	3859377.25	1.81849	0.72471	0.35504	1.02181	1.824	2.369	0.5256	0.72471	18.9737051	1.338485504	3.696E-05	0.053823	0.855412	0.333247	3.724207	4.92791974	20.351
4575	486363.09	3859377.25	2.58825	0.78939	0.65593	1.10937	1	3.331	0.5875	0.78939	27.0052033	1.457944656	6.829E-05	0.058435	0.468736	0.468553	4.162579	5.36773407	28.25379
4576	486863.09	3859377.25	3.57562	0.91709	0.64915	1.29523	0.668	6.546	0.7119	0.91709	37.3071941	1.693797065	6.758E-05	0.068225	0.313135	0.920816	5.043856	6.236075	39.11102
4577	487363.09	3859377.25	3.89522	1.0405	0.45065	1.53091	0.687	4.217	0.8194	1.0405	40.6418267	1.921726162	4.692E-05	0.080639	0.322373	0.593247	5.805815	7.07524456	42.29043
4578	487863.09	3859377.25	3.9008	1.2221	0.54498	1.89855	0.34	4.481	1.0327	1.2221	40.7000472	2.257127864	5.674E-05	0.100004	0.159282	0.630316	7.317265	8.31009743	42.854
4579	488363.09	3859377.25	4.10796	1.56751	0.79494	2.89191	0.465	6.937	1.3343	1.56751	42.8615068	2.895074461	8.276E-05	0.152329	0.218221	0.975909	9.453714	10.6588338	45.898
4580	488863.09	3859377.25	4.3814	2.10857	1.07317	4.38994	1.253	3.609	1.9502	2.10857	45.7145167	3.894372065	0.0001117	0.231236	0.587378	0.507713	13.81808	14.337961	50.41545
4581	489363.09	3859377.25	3.07261	3.9508	3.68942	6.53713	1.595	3.339	3.8325	3.9508	32.0589038	7.296833946	0.0003841	0.344337	0.747992	0.469647	27.15457	26.8648498	41.20782
4582	489863.09	3859377.25	3.21161	5.12844	44.31688	16.66188	1.467	10.61	5.0716	5.12844	33.5091977	9.471847495	0.0046137	0.877649	0.687717	1.492006	35.93419	34.8726259	47.10459
4583	490363.09	3859377.25	2.63354	2.53083	17.74851	6.18299	1.32	4.065	2.4871	2.53083	27.4777487	4.674254899	0.0018477	0.325683	0.618837	0.571844	17.62193	17.2092659	34.08288
4584	490863.09	3859377.25	2.2939	1.23071	8.00935	2.7403	1.848	2.145	1.0948	1.23071	23.9340233	2.273029894	0.0008338	0.144343	0.86638	0.301793	7.757336	8.36864415	26.90909
4585	491363.09	3859377.25	2.24785	0.53218	3.05402	1.04376	1.123	1.034	0.4248	0.53218	23.4535482	0.982896904	0.0003179	0.054979	0.526812	0.145474	3.009507	3.6187445	24.55479
4586	491863.09	3859377.25	1.88317	0.68553	2.79805	1.55536	1.501	1.416	0.606	0.68553	19.6485613	1.266122956	0.0002913	0.081927	0.703932	0.199186	4.294012	4.66150159	21.53253
4587	492363.09	3859377.25	1.75766	0.61155	2.16018	1.49929	1.659	1.339	0.5541	0.61155	18.3390189	1.129487395	0.0002249	0.078974	0.777749	0.1883	3.925928	4.15844864	20.28123
4588	492863.09	3859377.25	1.62727	0.6184	1.92227	1.53708	1.674	1.345	0.5655	0.6184	16.9785597	1.142138836	0.0002001	0.080964	0.784746	0.189147	4.006842	4.20502762	18.97757
4589	493363.09	3859377.25	1.54278	0.48343	1.57179	1.21904	2.131	1.189	0.4399	0.48343	16.0970106	0.892859278	0.0001636	0.064212	0.999347	0.167207	3.116992	3.28725178	18.05054
4590	493863.09	3859377.25	1.43887	0.44709	1.36578	1.13897	2.35	1.285	0.4222	0.44709	15.0128376	0.825741999	0.0001422	0.059994	1.101819	0.180811	2.991581	3.04014521	17.13278
4591	494363.09	3859377.25	1.3247	0.38991	1.12185	1.04202	1.895	1.891	0.3873	0.38991	13.8216141	0.720134789	0.0001168	0.054887	0.888686	0.266054	2.744302	2.65132975	15.84447
4592	494863.09	3859377.25	1.25384	0.29477	0.82789	0.82957	1.714	6.331	0.3293	0.29477	13.0822773	0.54441828	8.619E-05	0.043697	0.803868	0.890559	2.333209	2.00439196	15.69372
4593	495363.09	3859377.25	1.15363	0.28072	0.73187	0.84803	1.814	2.835	0.2932	0.28072	12.0367092	0.518468975	7.619E-05	0.044669	0.850385	0.398819	2.077144	1.90885406	14.01742
4594	495863.09	3859377.25	1.07584	0.242	0.63255	0.78287	1.549	2.034	0.2701	0.242	11.2250663	0.446956013	6.585E-05	0.041237	0.726145	0.286198	1.913614	1.64556385	12.99372
4595	496363.09	3859377.25	1.03712	0.23349	0.58996	0.76411	1.457	1.865	0.2613	0.23349	10.8210708	0.431238675	6.142E-05	0.040249	0.683239	0.262331	1.851546	1.58769712	12.50204
4596	496863.09	3859377.25	0.95372	0.20138	0.51996	0.65176	1.353	1.6	0.2291	0.20138	9.95089443	0.371933892	5.413E-05	0.034331	0.634246	0.22508	1.62354	1.36935392	11.47072
4597	497363.09	3859377.25	0.94541	0.21795	0.49819	0.67974	1.322	1.404	0.2428	0.21795	9.8641898	0.40253745	5.186E-05	0.035805	0.619869	0.197464	1.720113	1.48202744	11.358
4598	497863.09	3859377.25	0.92674	0.27237	0.5611	0.77088	1.402	1.257	0.2651	0.27237	9.66939133	0.503047145	5.841E-05	0.040605	0.657279	0.176842	1.878329	1.85207531	11.07348

4599	498363.09	3859377.25	0.8957	0.30412	0.57956	0.83616	1.336	1.288	0.2925	0.30412	9.34552713	0.561687035	6.034E-05	0.044044	0.626514	0.181152	2.072397	2.06797057	10.76341
4600	471363.09	3859877.25	0.31185	0.16586	0.11508	0.18945	0.12	0.24	0.1664	0.16586	3.25377095	0.306331092	1.198E-05	0.009979	0.056284	0.03372	1.179146	1.12782322	3.71142
4601	471863.09	3859877.25	0.32008	0.16865	0.12111	0.1979	0.118	0.243	0.1693	0.16865	3.33964087	0.311484015	1.261E-05	0.010424	0.055154	0.034187	1.199552	1.14679481	3.80366
4602	472363.09	3859877.25	0.34189	0.17155	0.12497	0.2041	0.117	0.242	0.1727	0.17155	3.56720137	0.316840099	1.301E-05	0.010751	0.054634	0.034039	1.223571	1.16651437	4.040535
4603	472863.09	3859877.25	0.35249	0.17515	0.1241	0.20342	0.127	0.245	0.1743	0.17515	3.67779933	0.323489031	1.292E-05	0.010715	0.059318	0.034529	1.23512	1.19099383	4.14999
4604	473363.09	3859877.25	0.35884	0.17962	0.10389	0.20728	0.151	0.271	0.1759	0.17962	3.74405376	0.331744789	1.082E-05	0.010918	0.070821	0.038143	1.246032	1.22138917	4.220334
4605	473863.09	3859877.25	0.38338	0.18474	0.11565	0.21808	0.182	0.303	0.182	0.18474	4.00009846	0.341201049	1.204E-05	0.011487	0.085475	0.042585	1.289252	1.2562044	4.513907
4606	474363.09	3859877.25	0.42728	0.18097	0.10673	0.24752	0.201	0.295	0.1831	0.18097	4.45814093	0.334238139	1.111E-05	0.013038	0.094103	0.04148	1.297471	1.23056897	5.007913
4607	474863.09	3859877.25	0.46046	0.15947	0.10035	0.2502	0.226	0.275	0.173	0.15947	4.8043334	0.294529237	1.045E-05	0.013179	0.10606	0.038684	1.225909	1.08437218	5.398334
4608	475363.09	3859877.25	0.46046	0.12293	0.09903	0.21984	0.243	0.213	0.1296	0.12293	4.8043334	0.227042573	1.031E-05	0.01158	0.114097	0.029965	0.917908	0.83590564	5.269032
4609	475863.09	3859877.25	0.27379	0.09588	0.08029	0.14643	0.185	0.182	0.108	0.09588	2.85666169	0.177083233	8.359E-06	0.007713	0.086891	0.025562	0.764936	0.65196968	3.266885
4610	476363.09	3859877.25	0.2324	0.07071	0.07925	0.12896	0.168	0.15	0.0714	0.07071	2.42480798	0.130596114	8.25E-06	0.006793	0.078661	0.021124	0.505753	0.48081744	2.686926
4611	476863.09	3859877.25	0.24984	0.08121	0.08423	0.1447	0.188	0.16	0.0836	0.08121	2.60677291	0.149988834	8.769E-06	0.007622	0.088016	0.022529	0.592478	0.55221587	2.9152
4612	477363.09	3859877.25	0.25729	0.08358	0.08912	0.14584	0.198	0.164	0.0851	0.08358	2.68450449	0.154366048	9.278E-06	0.007682	0.092658	0.023054	0.603106	0.56833151	2.997049
4613	477863.09	3859877.25	0.37255	0.1028	0.08283	0.17844	0.27	0.201	0.1103	0.1028	3.88710074	0.189863959	8.623E-06	0.009399	0.126557	0.028265	0.781799	0.69902464	4.323968
4614	478363.09	3859877.25	0.60536	0.12696	0.10102	0.25438	0.315	0.226	0.1413	0.12696	6.31618656	0.234485683	1.052E-05	0.013399	0.147733	0.031756	1.00102	0.86330903	6.881282
4615	478863.09	3859877.25	0.68943	0.16111	0.11498	0.33599	0.354	0.318	0.1852	0.16111	7.19335355	0.297558195	1.197E-05	0.017698	0.166166	0.044674	1.311996	1.09552393	7.935935
4616	479363.09	3859877.25	0.73916	0.22541	0.11754	0.37376	0.407	0.4	0.2343	0.22541	7.71222489	0.416315516	1.224E-05	0.019687	0.190653	0.056317	1.660313	1.53275433	8.522768
4617	479863.09	3859877.25	0.77093	0.26325	0.21741	0.39503	0.423	0.473	0.2591	0.26325	8.04370574	0.486203183	2.263E-05	0.020808	0.198325	0.066514	1.835534	1.79006067	8.861051
4618	480363.09	3859877.25	0.81928	0.29582	0.2787	0.4138	0.419	0.528	0.2673	0.29582	8.54817849	0.546357552	2.901E-05	0.021797	0.19659	0.074249	1.893988	2.01153181	9.269656
4619	480863.09	3859877.25	0.82736	0.3085	0.22633	0.43864	0.441	0.571	0.2714	0.3085	8.63248334	0.56977657	2.356E-05	0.023105	0.20699	0.080347	1.922613	2.09775391	9.337584
4620	481363.09	3859877.25	0.8637	0.32858	0.19139	0.46358	0.464	0.61	0.2803	0.32858	9.01164652	0.606862837	1.992E-05	0.024419	0.217597	0.085749	1.985814	2.23429491	9.697813
4621	481863.09	3859877.25	0.89905	0.333	0.22916	0.49724	0.683	0.66	0.289	0.333	9.38048026	0.615026249	2.386E-05	0.026192	0.320216	0.092874	2.047811	2.26435025	10.21827
4622	482363.09	3859877.25	0.93536	0.34178	0.30376	0.5421	0.88	0.722	0.3059	0.34178	9.75933042	0.631242256	3.162E-05	0.028555	0.412574	0.101624	2.167412	2.32405294	10.77672
4623	482863.09	3859877.25	0.97031	0.36098	0.37238	0.59048	1.05	0.839	0.3282	0.36098	10.1239907	0.666703229	3.877E-05	0.031103	0.492196	0.117985	2.325274	2.45461007	11.30268
4624	483363.09	3859877.25	0.97131	0.39269	0.30946	0.64591	1.236	0.976	0.3497	0.39269	10.1344244	0.725269242	3.222E-05	0.034023	0.579556	0.137287	2.477751	2.67023334	11.41811
4625	483863.09	3859877.25	0.96354	0.41494	0.35464	0.69127	0.935	1.165	0.3605	0.41494	10.053354	0.766363338	3.692E-05	0.036412	0.438486	0.16382	2.554556	2.82153001	11.1915
4626	484363.09	3859877.25	1.08242	0.42456	0.33683	0.74822	0.837	1.257	0.3864	0.42456	11.2937205	0.784130763	3.507E-05	0.039412	0.392523	0.176784	2.737925	2.88694458	12.53759
4627	484863.09	3859877.25	1.16088	0.44922	0.30031	0.77103	1.061	1.429	0.4066	0.44922	12.1123541	0.82967595	3.126E-05	0.040613	0.497462	0.200957	2.880553	3.05462889	13.50702
4628	485363.09	3859877.25	1.35512	0.51474	0.23042	0.90227	1.169	1.703	0.4222	0.51474	14.1390094	0.950686521	2.399E-05	0.047526	0.548298	0.239515	2.991156	3.5001551	15.41606
4629	485863.09	3859877.25	1.56442	0.61634	0.30514	0.94441	0.55	1.943	0.4794	0.61634	16.3227973	1.138334169	3.177E-05	0.049746	0.257915	0.273265	3.397005	4.19101993	17.24808
4630	486363.09	3859877.25	1.86718	0.65939	0.39502	1.05255	0.452	2.2	0.5375	0.65939	19.4817253	1.217844319	4.112E-05	0.055442	0.211895	0.30945	3.808381	4.4837535	20.60103
4631	486863.09	3859877.25	2.14335	0.75601	0.34838	1.24901	0.374	2.665	0.6132	0.75601	22.3632194	1.396294277	3.627E-05	0.06579	0.175451	0.374911	4.344885	5.14075506	23.57983
4632	487363.09	3859877.25	2.75783	0.82202	0.59192	1.42273	0.27	3.572	0.7145	0.82202	28.7745619	1.518209841	6.162E-05	0.074941	0.126533	0.50256	5.06249	5.5896132	30.46974
4633	487863.09	3859877.25	3.46554	0.91583	0.61963	1.7771	0.199	3.872	0.8504	0.91583	36.1586447	1.691469938	6.451E-05	0.093607	0.093123	0.544687	6.025603	6.22750719	38.37969
4634	488363.09	3859877.25	3.59834	1.0905	1.12883	2.20564	0.331	6.183	1.0073	1.0905	37.5442493	2.014072446	0.0001175	0.11618	0.155278	0.869867	7.137155	7.41523709	40.42168
4635	488863.09	3859877.25	3.2853	1.37003	1.57996	3.50275	0.551	3.496	1.2723	1.37003	34.2780622	2.530343579	0.0001645	0.184504	0.258525	0.491756	9.014775	9.31599933	37.44213
4636	489363.09	3859877.25	3.05771	1.62953	1.48487	5.35357	1.482	2.566	1.589	1.62953	31.9034406	3.009620791	0.0001546	0.281994	0.694741	0.360987	11.25843	11.0805606	36.4288
4637	489863.09	3859877.25	2.52229	2.38234	0.99267	3.71526	1.032	2.446	2.3926	2.38234	26.3169919	4.400004906	0.0001033	0.195698	0.483873	0.344151	16.95258	16.1995561	32.49384
4638	490363.09	3859877.25	2.02464	3.59782	2.01119	4.79829	1.035	2.787	3.6215	3.59782	21.1246266	6.644906122	0.0002094	0.252745	0.48513	0.392035	25.65971	24.4646385	30.09472
4639	490863.09	3859877.25	2.48212	8.16657	3.64827	14.87081	0.844	10.82	8.7382	8.16657	25.8978674	15.08304779	0.0003798	0.783306	0.395819	1.52234	61.91295	55.531456	50.06425
4640	491363.09	3859877.25	2.22677	3.1077	3.71755	9.96583	1.043	5.224	2.9882	3.1077	23.2336044	5.739690912	0.000387	0.524941	0.489186	0.73488	21.1724	21.1318957	30.7632
4641	491863.09	3859877.25	1.88306	1.91241	2.75352	4.93643	0.929	3.169	1.8331	1.91241	19.6474136	3.532079125	0.0002867	0.260022	0.435673	0.445772	12.98825	13.0041023	24.30539
4642	492363.09	3859877.25	1.60416	1.29448	2.26923	3.50895	1.07	2.476	1.2856	1.29448	16.7374353	2.390808344	0.0002362	0.184831	0.501922	0.348358	9.10894	8.80227062	20.47026
4643	492863.09	3859877.25	1.48861	0.99733	1.76742	2.41615	1.108	1.924	0.9224	0.99733	15.5318133	1.841994381	0.000184	0.127268	0.519389	0.270646	6.535749	6.78169501	18.04535
4644	493363.09	3859877.25	1.38916	0.83919	1.43756	1.81119	1.251	1.829	0.7919	0.83919	14.4941749	1.549921555	0.0001497	0.095403	0.586641	0.257262	5.611181	5.70636664	16.88837
4645	493863.09	3859877.25	1.29253	0.74247	1.19953	1.59746	1.418	1.931	0.6747	0.74247	13.4859598	1.371286904	0.0001249	0.084145	0.664857	0.271658	4.780493	5.04868508	15.60984
4646	494363.09	3859877.25	1.24745	0.61626	1.12782	1.322	1.423	3.88	0.5678	0.61626	13.0156055	1.138186415	0.0001174	0.069635	0.66731	0.54585	4.023068	4.19047594	15.2693
4647	494863.09	3859877.25	1.18078	0.54741	1.01862	1.16686	1.492	3.203	0.5271	0.54741	12.3199861	1.011025582	0.000106	0.061463	0.699585	0.450532	3.734906	3.72230622	14.5553
4648	495363.09	3859877.25	1.13616	0.47538	0.90726	1.04116	1.757	2.375	0.459	0.47538	11.8544313	0.877991526	9.445E-05	0.054842	0.823689	0.334112	3.251968	3.23251298	13.96462
4649	495863.09	3859877.25	1.09422	0.41536	0.82114	0.94763	1.382	1.927	0.4012	0.41536	11.416839	0.767139047	8.549E-05	0.049916	0.647967	0.271016	2.842292	2.82438595	13.17087
4650	496363.09	3859877.25	1.05124	0.33279	0.67198	0.7903	1.197	1.421	0.3264	0.33279	10.9683956	0.614638394	6.996E-05	0.041628	0.561263	0.19985	2.312662	2.26292229	12.43558
4651	496863.09	3859877.25	0.89192	0.19225	0.46275	0.60627	0.995	0.917	0.2256	0.19225	9.30608749	0.35507146	4.818E-05	0.031935	0.466767	0.129049	1.598245	1.30727128	10.57993
4652	497363.09	3859877.25	0.91224	0.26571	0.511	0.70748	1.147	1.121	0.2637	0.26571	9.51810168	0.49074662	5.32E-05	0.037266	0.537888	0.157678	1.868126	1.80678831	10.80307
4653	497863.09	3859877.25	0.89694	0.35173	0.58287	0.92077	1.236	1.286	0.3363	0.35173	9.35846501	0.649619167	6.068E-05	0.048501	0.57979	0.180955	2.382665	2.39171146	10.80835
4654	498363.09	3859877.25	0.84477	0.3675	0.63231	0.93329	1.122	1.316	0.3509	0.3675	8.81413526	0.678745185	6.583E-05	0.04916	0.526005	0.185146	2.486182	2.4989451	10.2405
4655	471363.09	3860377.25	0.31919	0.1641	0.10565	0.18194	0.138	0.234	0.1609	0.1641	3.33035481	0.303080503	1.1E-05	0.009584	0.064748	0.032918	1.139893	1.11585549	3.764734
4656	471863.09	3860377.25	0.32701	0.16731	0.07688	0.18271	0.161	0.234	0.1636	0.16731	3.41194689	0.309009134	8.004E-06	0.009624	0.075477	0.032972	1.158952	1.13768301	3.860306
4657	472363.09	3860377.25	0.33596	0.16807	0.08924	0.1845	0.19	0.242	0.1646	0.16807	3.50532912	0.310412798	9.29E-06	0.009718	0.08887	0.034111	1.166321	1.14285089	3.971921

4658	472863.09	3860377.25	0.34876	0.17237	0.10209	0.19125	0.193	0.277	0.1671	0.17237
4659	473363.09	3860377.25	0.37563	0.17848	0.11953	0.20751	0.214	0.288	0.1728	0.17848
4660	473863.09	3860377.25	0.41634	0.18484	0.1198	0.22309	0.232	0.302	0.1771	0.18484
4661	474363.09	3860377.25	0.49142	0.18279	0.12349	0.23827	0.205	0.299	0.1822	0.18279
4662	474863.09	3860377.25	0.53571	0.1809	0.12185	0.23609	0.219	0.288	0.1794	0.1809
4663	475363.09	3860377.25	0.54562	0.15968	0.08052	0.24776	0.225	0.278	0.1657	0.15968
4664	475863.09	3860377.25	0.54839	0.14014	0.07575	0.2345	0.234	0.25	0.1561	0.14014
4665	476363.09	3860377.25	0.53812	0.12258	0.08181	0.21983	0.258	0.218	0.1303	0.12258
4666	476863.09	3860377.25	0.54539	0.11509	0.10045	0.19612	0.243	0.201	0.1249	0.11509
4667	477363.09	3860377.25	0.33163	0.09508	0.08956	0.16051	0.256	0.179	0.0979	0.09508
4668	477863.09	3860377.25	0.43248	0.10322	0.07512	0.17658	0.299	0.191	0.1105	0.10322
4669	478363.09	3860377.25	0.57194	0.12967	0.09876	0.25026	0.307	0.24	0.1443	0.12967
4670	478863.09	3860377.25	0.66984	0.1643	0.09747	0.29636	0.355	0.324	0.1738	0.1643
4671	479363.09	3860377.25	0.75911	0.21625	0.19734	0.36926	0.32	0.397	0.2324	0.21625
4672	479863.09	3860377.25	0.76949	0.26786	0.22617	0.41117	0.329	0.483	0.2548	0.26786
4673	480363.09	3860377.25	0.79763	0.28547	0.25251	0.42381	0.41	0.495	0.2605	0.28547
4674	480863.09	3860377.25	0.81452	0.30467	0.22691	0.46385	0.52	0.52	0.2788	0.30467
4675	481363.09	3860377.25	0.81386	0.31941	0.28699	0.48702	0.619	0.563	0.2818	0.31941
4676	481863.09	3860377.25	0.83253	0.3267	0.36855	0.50019	0.819	0.681	0.2912	0.3267
4677	482363.09	3860377.25	0.85975	0.33669	0.38936	0.55016	0.764	0.781	0.2959	0.33669
4678	482863.09	3860377.25	0.86598	0.34928	0.29227	0.58387	0.786	0.861	0.3094	0.34928
4679	483363.09	3860377.25	0.92076	0.38457	0.26309	0.5969	0.743	0.946	0.3305	0.38457
4680	483863.09	3860377.25	0.9777	0.39718	0.31774	0.6473	0.714	1.057	0.3578	0.39718
4681	484363.09	3860377.25	0.99038	0.39573	0.34189	0.69124	0.762	1.125	0.3602	0.39573
4682	484863.09	3860377.25	1.01718	0.41269	0.34944	0.76916	0.777	1.278	0.3829	0.41269
4683	485363.09	3860377.25	1.13334	0.44273	0.362	0.83949	0.43	1.42	0.3982	0.44273
4684	485863.09	3860377.25	1.31588	0.47555	0.59747	0.95069	0.393	1.564	0.4285	0.47555
4685	486363.09	3860377.25	1.58743	0.5281	0.38536	0.9716	0.223	1.858	0.4704	0.5281
4686	486863.09	3860377.25	1.73767	0.5689	0.40226	1.22646	0.275	2.215	0.521	0.5689
4687	487363.09	3860377.25	2.45964	0.66059	0.41922	1.33025	0.169	3.473	0.562	0.66059
4688	487863.09	3860377.25	3.4692	0.74636	0.42131	1.52599	0.135	3.448	0.6881	0.74636
4689	488363.09	3860377.25	3.26353	0.79771	0.59148	2.0226	0.214	5.802	0.7861	0.79771
4690	488863.09	3860377.25	3.82815	0.93887	0.62402	3.1524	0.223	3.384	0.8817	0.93887
4691	489363.09	3860377.25	3.39196	1.1402	0.62262	5.20421	0.478	2.526	1.0034	1.1402
4692	489863.09	3860377.25	2.21471	1.26829	0.49737	2.90025	1.052	2.198	1.239	1.26829
4693	490363.09	3860377.25	1.71875	1.53753	0.54763	2.5103	0.741	1.868	1.5869	1.53753
4694	490863.09	3860377.25	1.49578	2.02823	0.66938	2.67803	0.584	1.962	1.9755	2.02823
4695	491363.09	3860377.25	1.45744	3.51339	0.7894	2.73997	0.694	2.322	3.6186	3.51339
4696	491863.09	3860377.25	2.0462	3.80445	1.21762	2.74561	0.663	2.844	3.7069	3.80445
4697	492363.09	3860377.25	1.60771	2.00231	1.34971	3.1441	0.779	5.929	2.0291	2.00231
4698	492863.09	3860377.25	1.42209	1.54478	1.47711	2.53005	0.607	10.52	1.5193	1.54478
4699	493363.09	3860377.25	1.29033	1.16361	1.40347	2.31294	0.824	6.712	1.1881	1.16361
4700	493863.09	3860377.25	1.18106	0.99011	1.17933	1.91744	0.821	6.211	0.966	0.99011
4701	494363.09	3860377.25	1.15987	0.81973	1.0137	1.59544	0.92	5.795	0.792	0.81973
4702	494863.09	3860377.25	1.08022	0.74066	0.94161	1.40313	0.911	4.343	0.707	0.74066
4703	495363.09	3860377.25	1.07166	0.65153	0.87637	1.28802	0.957	2.984	0.6159	0.65153
4704	495863.09	3860377.25	1.06885	0.54464	0.82123	1.11794	1.122	2.137	0.5042	0.54464
4705	496363.09	3860377.25	1.04337	0.44767	0.77841	0.90631	1.116	1.596	0.4255	0.44767
4706	496863.09	3860377.25	0.99919	0.37451	0.70733	0.76876	1.135	1.266	0.3587	0.37451
4707	497363.09	3860377.25	0.96372	0.29	0.5443	0.6427	0.938	0.949	0.2829	0.29
4708	497863.09	3860377.25	0.90634	0.36204	0.6527	0.82537	0.966	1.197	0.3442	0.36204
4709	498363.09	3860377.25	0.84056	0.41052	0.70417	0.9104	1.188	1.261	0.3845	0.41052
4710	471363.09	3860877.25	0.3109	0.1608	0.09268	0.17158	0.188	0.219	0.1581	0.1608
4711	471863.09	3860877.25	0.32397	0.1637	0.09708	0.18233	0.174	0.239	0.1621	0.1637
4712	472363.09	3860877.25	0.34293	0.16673	0.11282	0.19685	0.181	0.262	0.1621	0.16673
4713	472863.09	3860877.25	0.37185	0.17045	0.12142	0.2128	0.193	0.276	0.1623	0.17045
4714	473363.09	3860877.25	0.42709	0.17376	0.11034	0.22645	0.197	0.284	0.1697	0.17376
4715	473863.09	3860877.25	0.45649	0.17812	0.09901	0.23142	0.212	0.295	0.1737	0.17812
4716	474363.09	3860877.25	0.4741	0.1806	0.12157	0.23664	0.237	0.314	0.1798	0.1806

3.63888137	0.318354578	1.063E-05	0.010074	0.090417	0.038898	1.18368	1.17209025	4.108226
3.91923675	0.329639294	1.244E-05	0.01093	0.100264	0.040484	1.223996	1.21363734	4.410926
4.3439955	0.341385741	1.247E-05	0.011751	0.108944	0.042523	1.255101	1.25688439	4.846829
5.12736289	0.337599544	1.286E-05	0.012551	0.096302	0.042055	1.290953	1.24294469	5.663891
5.58947453	0.334108854	1.269E-05	0.012436	0.102848	0.040567	1.271255	1.23009298	6.120609
5.69287319	0.294917091	8.383E-06	0.013051	0.10538	0.039109	1.174044	1.08580015	6.233583
5.72177473	0.258828164	7.886E-06	0.012352	0.109713	0.035113	1.105954	0.95293106	6.290811
5.61461992	0.226396149	8.517E-06	0.011579	0.121089	0.030639	0.923223	0.83352569	6.094029
5.69047342	0.212562676	1.046E-05	0.01033	0.114083	0.028279	0.885174	0.78259481	6.158318
3.4601509	0.175605693	9.324E-06	0.008455	0.120151	0.025163	0.693799	0.6465298	3.836803
4.51239653	0.190639668	7.82E-06	0.009301	0.140235	0.026816	0.782862	0.70188058	4.960377
5.96748999	0.239490852	1.028E-05	0.013182	0.143808	0.033795	1.022488	0.88173663	6.538528
6.98895601	0.303449888	1.015E-05	0.01561	0.16664	0.045538	1.231648	1.11721546	7.634637
7.92037859	0.399397677	2.054E-05	0.01945	0.150275	0.055781	1.646284	1.47046769	8.721118
8.02868111	0.494717511	2.355E-05	0.021658	0.154045	0.067984	1.805421	1.82140798	8.751122
8.32228738	0.527241872	2.629E-05	0.022324	0.192229	0.069601	1.845595	1.94115335	9.03815
8.49851374	0.562702845	2.362E-05	0.024433	0.243608	0.073098	1.975044	2.07171049	9.305713
8.49162746	0.589926529	2.988E-05	0.025653	0.290252	0.079243	1.9963	2.17194028	9.301092
8.68642593	0.603390617	3.837E-05	0.026347	0.384068	0.095861	2.063186	2.22151119	9.637806
8.97043313	0.621841405	4.053E-05	0.028979	0.358432	0.109928	2.0967	2.2894417	9.896913
9.03543551	0.645094199	3.043E-05	0.030755	0.368369	0.121171	2.192281	2.37505182	10.01808
9.60699739	0.710272206	2.739E-05	0.031441	0.348238	0.133046	2.341853	2.61501855	10.55686
10.2010962	0.733561939	3.308E-05	0.034096	0.334996	0.148763	2.535213	2.70076467	11.28699
10.3333964	0.730883896	3.559E-05	0.03641	0.357312	0.158273	2.55243	2.69090488	11.47784
10.6130214	0.762207756	3.638E-05	0.040515	0.364195	0.17973	2.71263	2.80623035	11.86611
11.8250081	0.817689403	3.769E-05	0.044219	0.201579	0.199731	2.821036	3.01049786	12.8988
13.7295883	0.878305503	6.22E-05	0.050077	0.18406	0.220082	3.035865	3.23366896	14.86437
16.5628783	0.975361448	4.012E-05	0.051178	0.104691	0.261428	3.333095	3.59100111	17.69767
18.1304478	1.050716015	4.188E-05	0.064603	0.128723	0.311626	3.691686	3.86843501	19.50941
25.6633162	1.22006063	4.364E-05	0.07007	0.079388	0.48855	3.981689	4.49191332	27.0112
36.1968323	1.378471445	4.386E-05	0.08038	0.063281	0.485109	4.875153	5.0751365	38.00413
34.050919	1.473311078	6.158E-05	0.106539	0.100414	0.816194	5.56966	5.42430883	36.69279
39.9420338	1.734023106	6.496E-05	0.16605	0.104639	0.476088	6.24695	6.38417574	42.28567
35.390928	2.105864651	6.482E-05	0.274127	0.224336	0.355381	7.109734	7.75318967	37.70725
23.1077731	2.342437361	5.178E-05	0.152768	0.493387	0.309152	8.778549	8.62418253	26.55994
17.9330409	2.839703629	5.701E-05	0.132228	0.347549	0.262817	11.24404	10.4549743	22.30446
15.6066234	3.745990056	6.969E-05	0.141063	0.273793	0.276038	13.99706	13.791661	20.24898
15.2065927	6.488970188	8.218E-05	0.144325	0.32565	0.326708	25.63909	23.8905271	24.24089
21.3495787	7.026536374	0.0001268	0.144622	0.31087	0.400051	26.26501	25.8696917	29.6271
16.7744752	3.698117743	0.0001405	0.165613	0.365513	0.834086	14.37698	13.6154089	22.59951
14.8377589	2.85309384	0.0001538	0.133268	0.284414	1.480607	10.765	10.5042732	19.85002
13.4630055	2.149101181	0.0001461	0.121832	0.386446	0.944173	8.418259	7.91237417	17.57059
12.3229075	1.828659577	0.0001228	0.100999	0.385212	0.873686	6.844388	6.73260009	15.62338
12.101816	1.513980381	0.0001055	0.084038	0.431462	0.815154	5.611535	5.57404154	14.98405
11.2707662	1.367943968	9.803E-05	0.073909	0.427012	0.610986	5.00935	5.03637735	13.72369
11.1814532	1.203327483	9.124E-05	0.067845	0.448981	0.41983	4.363661	4.43030667	13.25488
11.1521343	1.005909598	8.55E-05	0.058886	0.526034	0.300678	3.572651	3.70347064	12.91291
10.8862818	0.826813216	8.104E-05	0.047739	0.523253	0.224476	3.015104	3.04408912	12.47966
10.4253179	0.691692134	7.364E-05	0.040494	0.532083	0.178148	2.541377	2.54661205	11.86257
10.0552321	0.535608445	5.666E-05	0.033854	0.439762	0.133446	2.004519	1.97195668	11.23052
9.45654244	0.66866097	6.795E-05	0.043476	0.453056	0.168396	2.438852	2.46181792	10.76723
8.7702091	0.758199927	7.331E-05	0.047954	0.557053	0.17743	2.724038	2.79147467	10.24348
3.24385887	0.296985648	9.649E-06	0.009038	0.087969	0.030843	1.120196	1.09341598	3.695484
3.38022823	0.302341733	1.011E-05	0.009604	0.081475	0.033581	1.148395	1.11313555	3.842499
3.57805249	0.307937917	1.175E-05	0.010369	0.084851	0.036891	1.148395	1.13373909	4.032769
3.8797971	0.314808481	1.264E-05	0.011209	0.090717	0.038862	1.150237	1.15903454	4.326609
4.45615852	0.320921805	1.149E-05	0.011928	0.092349	0.039897	1.202527	1.18154204	4.942251
4.76291133	0.328974401	1.031E-05	0.01219	0.099364	0.041459	1.231011	1.21118939	5.26473
4.94665001	0.333554776	1.266E-05	0.012465	0.111124	0.044182	1.274231	1.22805302	5.494167

4717	474863.09	3860877.25	0.4953	0.18425	0.13878	0.25579	0.243	0.325	0.182	0.18425	5.16784592	0.340296055	1.445E-05	0.013474	0.114065	0.045717	1.289677	1.25287248	5.718216
4718	475363.09	3860877.25	0.53576	0.18163	0.13834	0.26653	0.244	0.34	0.1824	0.18163	5.58999622	0.33545711	1.44E-05	0.014039	0.114313	0.047819	1.292228	1.23505687	6.15881
4719	475863.09	3860877.25	0.5682	0.16987	0.14519	0.27941	0.258	0.331	0.175	0.16987	5.9284677	0.313737264	1.512E-05	0.014718	0.121173	0.046628	1.24008	1.15509062	6.509729
4720	476363.09	3860877.25	0.58768	0.16217	0.11937	0.28289	0.271	0.297	0.1713	0.16217	6.13171752	0.299515936	1.243E-05	0.014901	0.127119	0.041827	1.213722	1.10273177	6.726084
4721	476863.09	3860877.25	0.58491	0.151	0.12261	0.27819	0.257	0.288	0.1613	0.151	6.10281598	0.278885777	1.276E-05	0.014653	0.120569	0.040581	1.14301	1.02677744	6.67375
4722	477363.09	3860877.25	0.58804	0.14959	0.11843	0.27642	0.281	0.288	0.1605	0.14959	6.13547368	0.276281611	1.233E-05	0.01456	0.131907	0.040479	1.136988	1.01718965	6.718512
4723	477863.09	3860877.25	0.59814	0.13188	0.12316	0.2561	0.282	0.257	0.1467	0.13188	6.24085475	0.243572558	1.282E-05	0.01349	0.132343	0.03618	1.039068	0.8967643	6.808757
4724	478363.09	3860877.25	0.4656	0.11025	0.08158	0.19575	0.265	0.218	0.1193	0.11025	4.85796297	0.203623555	8.493E-06	0.010311	0.124062	0.030646	0.845425	0.74968353	5.322356
4725	478863.09	3860877.25	0.66132	0.15846	0.16437	0.30359	0.304	0.31	0.1694	0.15846	6.90006029	0.292663842	1.711E-05	0.015991	0.142481	0.043628	1.200048	1.07750433	7.517385
4726	479363.09	3860877.25	0.70448	0.21567	0.20277	0.35542	0.346	0.424	0.2252	0.21567	7.35038177	0.39832646	2.111E-05	0.018721	0.16242	0.059616	1.595907	1.46652378	8.118869
4727	479863.09	3860877.25	0.75834	0.25454	0.27385	0.40096	0.408	0.473	0.2382	0.25454	7.91234459	0.470116461	2.851E-05	0.02112	0.191108	0.066549	1.687804	1.73083397	8.618237
4728	480363.09	3860877.25	0.7522	0.26858	0.23643	0.43189	0.455	0.52	0.2527	0.26858	7.84828124	0.496047297	2.461E-05	0.022749	0.213508	0.073097	1.790187	1.82630388	8.617591
4729	480863.09	3860877.25	0.74419	0.28121	0.21168	0.45103	0.661	0.552	0.2617	0.28121	7.76470675	0.519373968	2.204E-05	0.023758	0.309974	0.077611	1.854451	1.91218599	8.637711
4730	481363.09	3860877.25	0.76314	0.29817	0.24269	0.47647	0.58	0.626	0.2703	0.29817	7.96242668	0.550697828	2.527E-05	0.025098	0.272189	0.088086	1.915102	2.02751146	8.786112
4731	481863.09	3860877.25	0.77934	0.31013	0.2347	0.49061	0.625	0.737	0.2772	0.31013	8.13145374	0.572787059	2.443E-05	0.025842	0.293065	0.10364	1.964275	2.10883767	8.98225
4732	482363.09	3860877.25	0.80367	0.32344	0.26049	0.55405	0.607	0.788	0.2901	0.32344	8.38530735	0.597369639	2.712E-05	0.029184	0.284568	0.110833	2.055747	2.19934368	9.263692
4733	482863.09	3860877.25	0.81463	0.33498	0.24109	0.57159	0.606	0.843	0.2967	0.33498	8.49966146	0.618683162	2.51E-05	0.030108	0.284339	0.118592	2.102368	2.27781396	9.375963
4734	483363.09	3860877.25	0.87011	0.3492	0.20763	0.60075	0.424	0.889	0.3163	0.3492	9.07852698	0.644946445	2.162E-05	0.031644	0.19885	0.125103	2.240816	2.37450783	9.9454
4735	483863.09	3860877.25	0.86934	0.3714	0.24817	0.66182	0.612	0.893	0.3311	0.3714	9.07049298	0.685948195	2.584E-05	0.034861	0.28711	0.125664	2.345609	2.52546452	10.02425
4736	484363.09	3860877.25	0.89397	0.37019	0.28833	0.694	0.563	0.983	0.3412	0.37019	9.32747671	0.683713415	3.002E-05	0.036556	0.264025	0.138301	2.417667	2.5172367	10.35053
4737	484863.09	3860877.25	0.92113	0.37977	0.28092	0.75121	0.35	1.092	0.3523	0.37977	9.61085789	0.701406963	2.925E-05	0.039569	0.164112	0.153557	2.496173	2.58237927	10.58333
4738	485363.09	3860877.25	0.94993	0.40488	0.29815	0.79818	0.248	1.146	0.372	0.40488	9.91135044	0.747783266	3.104E-05	0.042043	0.116269	0.161236	2.635825	2.75312352	10.86141
4739	485863.09	3860877.25	1.13936	0.4386	0.29108	0.88169	0.239	1.263	0.3964	0.4386	11.8878194	0.8100616	3.03E-05	0.046442	0.112095	0.177638	2.808637	2.98241448	12.86031
4740	486363.09	3860877.25	1.3288	0.47469	0.35022	0.93172	0.184	1.429	0.4423	0.47469	13.8643926	0.876717147	3.646E-05	0.049077	0.086112	0.201048	3.133926	3.22782109	14.98349
4741	486863.09	3860877.25	1.5078	0.4931	0.32019	1.05219	0.166	1.682	0.4774	0.4931	15.7320373	0.910719049	3.333E-05	0.055423	0.077906	0.236576	3.382764	3.35300634	17.04245
4742	487363.09	3860877.25	1.88086	0.53811	0.35486	1.11718	0.13	2.288	0.5056	0.53811	19.6244593	0.993849173	3.694E-05	0.058846	0.061072	0.321821	3.582004	3.65906761	20.98302
4743	487863.09	3860877.25	2.38786	0.62791	0.23994	1.33667	0.108	3.223	0.5491	0.62791	24.9143803	1.159703099	2.498E-05	0.070408	0.050742	0.453381	3.890501	4.2696942	26.26945
4744	488363.09	3860877.25	2.17391	0.68851	0.36608	1.73793	0.118	3.151	0.6357	0.68851	22.6820753	1.271626795	3.811E-05	0.091544	0.05544	0.443276	4.50381	4.68176514	24.36605
4745	488863.09	3860877.25	2.22764	0.69766	0.40471	2.84015	0.162	2.884	0.6792	0.69766	23.2426818	1.288526165	4.213E-05	0.149602	0.076185	0.405653	4.812519	4.74398378	25.23123
4746	489363.09	3860877.25	2.31567	0.79343	0.43666	4.54859	0.241	2.301	0.7656	0.79343	24.1611665	1.465406236	4.546E-05	0.239593	0.113056	0.323674	5.42434	5.39520547	26.33208
4747	489863.09	3860877.25	1.64092	0.93032	0.29193	2.32729	0.663	1.776	0.8438	0.93032	17.1209807	1.718231891	3.039E-05	0.122588	0.310748	0.249774	5.978698	6.32603702	19.17501
4748	490363.09	3860877.25	1.43762	1.02818	0.26133	1.93785	0.633	1.532	0.9852	1.02818	14.9997954	1.898972038	2.721E-05	0.102074	0.296891	0.215462	6.980497	6.9914704	17.50225
4749	490863.09	3860877.25	1.26437	1.21157	0.35141	1.63044	0.558	1.379	1.2669	1.21157	13.1921448	2.237679737	3.658E-05	0.085882	0.261554	0.19403	8.976727	8.23849501	16.70956
4750	491363.09	3860877.25	1.15495	1.64689	0.35986	1.66136	0.465	1.46	1.557	1.64689	12.0504818	3.04168342	3.746E-05	0.087511	0.217888	0.205366	11.03198	11.198606	15.43634
4751	491863.09	3860877.25	1.09371	2.82513	0.29996	1.59998	0.524	1.453	2.8111	2.82513	11.4115178	5.217805124	3.123E-05	0.084277	0.245578	0.204453	19.91745	19.210462	17.87065
4752	492363.09	3860877.25	0.96469	4.14202	0.44489	1.32663	0.543	1.454	4.1604	4.14202	10.0653529	7.650003073	4.632E-05	0.069879	0.254497	0.204528	29.47758	28.1651172	19.55677
4753	492863.09	3860877.25	1.02921	2.38141	0.6474	1.06761	0.7	1.593	2.3589	2.38141	10.7385397	4.398287265	6.74E-05	0.056235	0.328389	0.22408	16.71345	16.1932322	16.26581
4754	493363.09	3860877.25	1.02299	1.80477	0.78282	1.15548	0.548	1.753	1.7889	1.80477	10.6736416	3.333276046	8.15E-05	0.060864	0.25685	0.246602	12.67529	12.2721664	14.97443
4755	493863.09	3860877.25	1.04525	1.45729	0.85158	1.387	0.508	2.338	1.4578	1.45729	10.9058973	2.691506313	8.865E-05	0.073059	0.238394	0.32888	10.32918	9.9093543	14.65765
4756	494363.09	3860877.25	0.97083	1.28325	0.87322	1.18096	0.671	1.969	1.3203	1.28325	10.1294162	2.370067369	9.091E-05	0.062206	0.314523	0.276982	9.354589	8.7259083	13.78197
4757	494863.09	3860877.25	0.94142	1.05847	0.8704	1.19683	0.608	1.848	1.0728	1.05847	9.82255906	1.954915416	9.061E-05	0.063042	0.284901	0.259922	7.601317	7.19743788	12.78931
4758	495363.09	3860877.25	0.91184	0.9332	0.82849	1.02691	0.676	1.783	0.9309	0.9332	9.51392817	1.723551037	8.625E-05	0.054092	0.317149	0.250831	6.595904	6.34562059	12.10992
4759	495863.09	3860877.25	0.83584	0.82449	0.75237	0.99975	0.673	1.695	0.8356	0.82449	8.7209617	1.522771748	7.833E-05	0.052661	0.315442	0.238436	5.920244	5.60640883	11.16419
4760	496363.09	3860877.25	0.86583	0.66775	0.72015	0.97207	0.719	1.598	0.6383	0.66775	9.03387044	1.233284618	7.497E-05	0.051203	0.337172	0.224849	4.522302	4.54060025	10.86216
4761	496863.09	3860877.25	0.92639	0.49825	0.67463	0.86965	0.848	1.463	0.4914	0.49825	9.66573951	0.920230716	7.023E-05	0.045808	0.397751	0.20582	3.481817	3.38802557	11.32921
4762	497363.09	3860877.25	0.90067	0.48703	0.64909	0.84303	0.931	1.354	0.4619	0.48703	9.39738297	0.89950821	6.757E-05	0.044406	0.436564	0.190423	3.272586	3.31173124	10.92921
4763	497863.09	3860877.25	0.88598	0.4525	0.60498	0.78813	0.968	1.277	0.4011	0.4525	9.2441109	0.835733867	6.298E-05	0.041514	0.453979	0.179573	2.841655	3.0769324	10.5197
4764	498363.09	3860877.25	0.83333	0.45776	0.58403	0.77868	1.063	1.283	0.4254	0.45776	8.69477294	0.845448696	6.08E-05	0.041016	0.498574	0.180424	3.014254	3.11269962	10.16185
4765	471363.09	3861377.25	0.29694	0.16801	0.10217	0.1747	0.175	0.241	0.1547	0.16801	3.09820345	0.310301982	1.064E-05	0.009202	0.081939	0.033908	1.095964	1.1424429	3.487086
4766	471863.09	3861377.25	0.32912	0.1703	0.09563	0.18982	0.182	0.258	0.1556	0.1703	3.43396214	0.314531442	9.956E-06	0.009999	0.085428	0.036339	1.10234	1.15801456	3.824595
4767	472363.09	3861377.25	0.3851	0.17379	0.11357	0.205	0.202	0.27	0.1593	0.17379	4.01804454	0.320977213	1.182E-05	0.010798	0.094684	0.037991	1.128627	1.18174604	4.429388
4768	472863.09	3861377.25	0.41634	0.17768	0.13766	0.21578	0.233	0.274	0.1633	0.17768	4.3439955	0.328161753	1.433E-05	0.011366	0.109422	0.03852	1.15711	1.20819746	4.780393
4769	473363.09	3861377.25	0.44121	0.18247	0.14606	0.21977	0.246	0.277	0.1695	0.18247	4.60348334	0.337008527	1.521E-05	0.011576	0.115392	0.038985	1.200756	1.24076874	5.066448
4770	473863.09	3861377.25	0.46179	0.18563	0.14405	0.22361	0.227	0.282	0.1731	0.18563	4.81821031	0.342844813	1.5E-05	0.011778	0.106238	0.03963	1.226618	1.26225627	5.283078
4771	474363.09	3861377.25	0.46359	0.19004	0.14483	0.237	0.274	0.298	0.176	0.19004	4.83699109	0.350989755	1.508E-05	0.012484	0.128714	0.041947	1.24674	1.29224361	5.325636
4772	474863.09	3861377.25	0.48628	0.19207	0.14847	0.25239	0.252	0.314	0.1767	0.19207	5.07373332	0.354739014	1.546E-05	0.013294	0.118233	0.044198	1.251983	1.30604731	5.550149
4773	475363.09	3861377.25	0.53309	0.19563	0.14289	0.268	0.242	0.321	0.1802	0.19563	5.56213806	0.361314069	1.488E-05	0.014117	0.113469	0.045108	1.276924	1.33025478	6.042829
4774	475863.09	3861377.25	0.55624	0.19553	0.13966	0.27981	0.269	0.32	0.1804	0.19553	5.80367982	0.361129377	1.454E-05	0.014739	0.126341	0.044963	1.27827	1.32957479	6.299561
4775	476363.09	3861377.25	0.54976	0.19004	0.12248	0.29168	0.258	0.334	0.1857	0.19004	5.73606899	0.350989755	1.275E-05	0.015364	0.120976	0.046927	1.315397	1.29224361	6.293492

4776	476863.09	3861377.25	0.57836	0.18649	0.15551	0.30858	0.235	0.332	0.1886	0.18649	6.03447479	0.344433169	1.619E-05	0.016254	0.110346	0.046697	1.335945	1.26810414	6.620062
4777	477363.09	3861377.25	0.6234	0.18266	0.14352	0.31338	0.255	0.339	0.1912	0.18266	6.50441176	0.337359443	1.494E-05	0.016507	0.119518	0.047736	1.35465	1.24206071	7.138136
4778	477863.09	3861377.25	0.60178	0.16423	0.10851	0.29428	0.264	0.302	0.1697	0.16423	6.27883367	0.303320603	1.13E-05	0.015501	0.123696	0.042512	1.202457	1.11673947	6.849592
4779	478363.09	3861377.25	0.51124	0.11897	0.11299	0.21925	0.307	0.225	0.1279	0.11897	5.3341602	0.219728747	1.176E-05	0.011549	0.143752	0.031663	0.906005	0.80897823	5.837892
4780	478863.09	3861377.25	0.57066	0.13075	0.14326	0.24526	0.264	0.263	0.1368	0.13075	5.95413477	0.241485532	1.491E-05	0.012919	0.123893	0.036971	0.969277	0.88908047	6.449615
4781	479363.09	3861377.25	0.71851	0.19871	0.21541	0.3458	0.265	0.424	0.2107	0.19871	7.49676756	0.3670026	2.243E-05	0.018215	0.124029	0.059597	1.493098	1.35119832	8.207533
4782	479863.09	3861377.25	0.72364	0.23897	0.25004	0.37913	0.477	0.492	0.2272	0.23897	7.55029279	0.441359828	2.603E-05	0.01997	0.223778	0.06925	1.609936	1.6249603	8.289652
4783	480363.09	3861377.25	0.67938	0.25919	0.24987	0.39947	0.465	0.538	0.2373	0.25919	7.08849416	0.478704665	2.601E-05	0.021042	0.218047	0.075689	1.681285	1.76245328	7.800835
4784	480863.09	3861377.25	0.6764	0.2704	0.26455	0.43889	0.459	0.617	0.2395	0.2704	7.05740153	0.499408702	2.754E-05	0.023118	0.215135	0.086794	1.697227	1.83867961	7.740433
4785	481363.09	3861377.25	0.69938	0.28159	0.23984	0.44453	0.518	0.616	0.258	0.28159	7.29716955	0.5200758	2.497E-05	0.023415	0.243027	0.086653	1.827881	1.91476993	8.083477
4786	481863.09	3861377.25	0.73756	0.30409	0.22982	0.45303	0.518	0.686	0.2747	0.30409	7.69553086	0.561631628	2.393E-05	0.023863	0.243106	0.096433	1.946207	2.06776657	8.499029
4787	482363.09	3861377.25	0.74138	0.31717	0.21369	0.52868	0.502	0.756	0.2851	0.31717	7.73538786	0.585789415	2.225E-05	0.027848	0.235449	0.10631	2.020107	2.15670862	8.554205
4788	482863.09	3861377.25	0.75923	0.32481	0.20747	0.58487	0.321	0.787	0.2859	0.32481	7.92163064	0.599899928	2.16E-05	0.030807	0.150631	0.110755	2.025563	2.20865948	8.630649
4789	483363.09	3861377.25	0.76364	0.33486	0.25997	0.58958	0.485	0.815	0.2931	0.33486	7.96764356	0.618461531	2.706E-05	0.031056	0.227262	0.114594	2.076932	2.27699798	8.758978
4790	483863.09	3861377.25	0.8036	0.33101	0.18833	0.64407	0.42	0.884	0.3083	0.33101	8.38457698	0.611350867	1.961E-05	0.033926	0.19704	0.124311	2.184346	2.25081855	9.284751
4791	484363.09	3861377.25	0.84999	0.33643	0.14302	0.71432	0.244	0.956	0.323	0.33643	8.86859954	0.621361204	1.489E-05	0.037626	0.114243	0.134465	2.288288	2.28767374	9.776924
4792	484863.09	3861377.25	0.83951	0.35521	0.1973	0.66805	0.18	1.025	0.3421	0.35521	8.75925364	0.656046468	2.054E-05	0.035189	0.084241	0.144219	2.423902	2.41537494	9.687497
4793	485363.09	3861377.25	0.81145	0.3678	0.22026	0.71117	0.193	1.067	0.3574	0.3678	8.46648207	0.679299262	2.293E-05	0.03746	0.090267	0.150135	2.532237	2.50098506	9.454918
4794	485863.09	3861377.25	0.93076	0.40079	0.30124	0.74707	0.124	1.161	0.3646	0.40079	9.71133508	0.74022934	3.136E-05	0.039351	0.058165	0.16336	2.582968	2.72531213	10.57013
4795	486363.09	3861377.25	1.03223	0.42285	0.23701	0.80267	0.146	1.191	0.3936	0.42285	10.7700497	0.780972521	2.467E-05	0.04228	0.068608	0.167507	2.788727	2.87531683	11.74285
4796	486863.09	3861377.25	1.20787	0.44822	0.19508	0.85382	0.114	1.349	0.4362	0.44822	12.6026369	0.827829025	2.031E-05	0.044974	0.053358	0.189752	3.090705	3.04782904	13.76145
4797	487363.09	3861377.25	1.19408	0.46319	0.24034	1.05337	0.111	1.317	0.4477	0.46319	12.4587552	0.855477502	2.502E-05	0.055485	0.0522	0.185221	3.172187	3.14962281	13.62973
4798	487863.09	3861377.25	1.11658	0.53808	0.24407	1.25176	0.092	1.451	0.4869	0.53808	11.6501381	0.993793766	2.541E-05	0.065935	0.043338	0.204143	3.44972	3.65886362	12.74823
4799	488363.09	3861377.25	1.28619	0.59425	0.24138	1.51211	0.093	1.545	0.5275	0.59425	13.4198097	1.097535581	2.513E-05	0.079649	0.043581	0.217395	3.73774	4.04081123	14.55492
4800	488863.09	3861377.25	1.14374	0.60192	0.32929	2.8157	0.12	1.462	0.5795	0.60192	11.9335193	1.111701501	3.428E-05	0.148314	0.056125	0.205616	4.106108	4.09296608	13.46845
4801	489363.09	3861377.25	1.28647	0.63691	0.37807	5.03021	0.149	1.51	0.6239	0.63691	13.4227311	1.17632543	3.936E-05	0.264962	0.069949	0.212356	4.420698	4.33089285	15.23617
4802	489863.09	3861377.25	1.42528	0.73315	0.17487	2.23932	0.236	1.347	0.6849	0.73315	14.8710427	1.354073557	1.821E-05	0.117954	0.110712	0.189532	4.852551	4.98531048	16.51057
4803	490363.09	3861377.25	1.0583	0.82903	0.18207	1.71293	0.739	1.154	0.7605	0.82903	11.042058	1.53115679	1.895E-05	0.090227	0.346334	0.162376	5.388346	5.63728015	12.92324
4804	490863.09	3861377.25	0.95118	0.94303	0.19563	1.4523	0.565	1.146	0.8951	0.94303	9.92439265	1.741706317	2.037E-05	0.076499	0.264907	0.161224	6.341965	6.41246312	12.09825
4805	491363.09	3861377.25	0.94358	1.04024	0.24078	1.28375	0.408	1.138	1.0742	1.04024	9.84509601	1.921245961	2.507E-05	0.06762	0.191357	0.160058	7.610882	7.0734766	12.72281
4806	491863.09	3861377.25	0.91539	1.43946	0.22218	1.19621	0.393	1.19	1.4152	1.43946	9.55096805	2.658575628	2.313E-05	0.063009	0.184271	0.167407	10.02706	9.78811296	12.8632
4807	492363.09	3861377.25	0.8728	2.22361	0.20506	1.18209	0.397	1.115	2.2963	2.22361	9.10659382	4.106842394	2.135E-05	0.062265	0.186105	0.156852	16.2704	15.1202158	14.76886
4808	492863.09	3861377.25	0.77504	4.71492	0.2803	0.97055	0.46	0.994	4.552	4.71492	8.08658853	8.708106791	2.918E-05	0.051123	0.215712	0.139788	32.25228	32.0607516	17.39287
4809	493363.09	3861377.25	0.79995	7.10291	0.30742	0.83252	0.489	1.066	6.8979	7.10291	8.34649373	13.11854683	3.2E-05	0.043852	0.229362	0.149938	48.87439	48.2987269	22.46389
4810	493863.09	3861377.25	0.81051	3.89576	0.35105	0.7822	0.475	1.049	3.8024	3.89576	8.45667433	7.195179157	3.655E-05	0.041202	0.222718	0.147513	26.94116	26.490586	16.5139
4811	494363.09	3861377.25	0.80511	2.83744	0.50148	0.79896	0.401	1.029	2.7915	2.83744	8.40033197	5.240540779	5.221E-05	0.042084	0.187807	0.144786	19.77878	19.2941681	14.50022
4812	494863.09	3861377.25	0.78561	2.20206	0.5747	0.88936	0.454	1.111	2.1881	2.20206	8.19687347	4.067041146	5.983E-05	0.046846	0.212758	0.156234	15.50355	14.973679	13.20968
4813	495363.09	3861377.25	0.80098	1.8723	0.5498	0.91585	0.544	1.156	1.822	1.8723	8.35724051	3.457998936	5.724E-05	0.048242	0.255167	0.162687	12.90931	12.7313603	12.45935
4814	495863.09	3861377.25	0.74379	1.6666	0.60519	0.83241	0.454	1.127	1.6398	1.6666	7.76053324	3.078086325	6.3E-05	0.043846	0.213039	0.158499	11.6185	11.332631	11.53994
4815	496363.09	3861377.25	0.75053	1.28836	0.58819	0.75937	0.502	1.156	1.2998	1.28836	7.83085685	2.379505159	6.123E-05	0.039999	0.235623	0.162632	9.209765	8.76065553	11.09779
4816	496863.09	3861377.25	0.72001	0.82303	0.60992	0.81267	0.526	1.134	0.838	0.82303	7.51241821	1.520075236	6.35E-05	0.042807	0.246562	0.159566	5.937249	5.59648105	9.82226
4817	497363.09	3861377.25	0.69412	0.72379	0.593	0.78075	0.575	1.086	0.7302	0.72379	7.24228792	1.336786332	6.173E-05	0.041125	0.26961	0.152749	5.173376	4.92166387	9.294332
4818	497863.09	3861377.25	0.70313	0.65477	0.60278	0.71664	0.646	1.031	0.6487	0.65477	7.33629619	1.209311522	6.275E-05	0.037748	0.302828	0.145035	4.596415	4.45233819	9.175359
4819	498363.09	3861377.25	0.72527	0.5862	0.54937	0.74065	0.723	0.952	0.5811	0.5862	7.56729984	1.082667829	5.719E-05	0.039013	0.33901	0.133957	4.11702	3.98607243	9.292952
4820	471363.09	3861877.25	0.33449	0.16146	0.14103	0.19374	0.221	0.243	0.1533	0.16146	3.48999148	0.298204619	1.468E-05	0.010205	0.103636	0.03415	1.086257	1.09790388	3.924555
4821	471863.09	3861877.25	0.38622	0.16417	0.13955	0.20584	0.208	0.247	0.1572	0.16417	4.02973037	0.303209788	1.453E-05	0.010842	0.09747	0.03474	1.113535	1.11633147	4.47321
4822	472363.09	3861877.25	0.41901	0.16813	0.13716	0.21061	0.217	0.25	0.1612	0.16813	4.37185366	0.310523613	1.428E-05	0.011094	0.101868	0.03512	1.142373	1.14325888	4.829587
4823	472863.09	3861877.25	0.43786	0.17379	0.12646	0.21488	0.23	0.261	0.1658	0.17379	4.56853021	0.320977213	1.317E-05	0.011319	0.107659	0.036716	1.17454	1.18174604	5.038009
4824	473363.09	3861877.25	0.44091	0.17734	0.13304	0.22323	0.232	0.267	0.169	0.17734	4.60035321	0.327533799	1.385E-05	0.011758	0.108625	0.037612	1.197355	1.20588551	5.077367
4825	473863.09	3861877.25	0.44363	0.18057	0.12671	0.23219	0.24	0.295	0.1716	0.18057	4.62873306	0.333499369	1.319E-05	0.01223	0.112742	0.041505	1.215919	1.22784903	5.116793
4826	474363.09	3861877.25	0.465	0.1855	0.12483	0.25093	0.245	0.318	0.1745	0.1855	4.85170271	0.342604712	1.3E-05	0.013218	0.114951	0.044712	1.236254	1.26137229	5.342083
4827	474863.09	3861877.25	0.48913	0.18767	0.12618	0.27226	0.26	0.321	0.1764	0.18767	5.10346956	0.346612541	1.314E-05	0.014341	0.121783	0.045193	1.249929	1.27612796	5.605213
4828	475363.09	3861877.25	0.49719	0.18965	0.1277	0.28342	0.22	0.326	0.1794	0.18965	5.18756574	0.350269454	1.329E-05	0.014929	0.103242	0.045881	1.270901	1.28959167	5.68321
4829	475863.09	3861877.25	0.489	0.19208	0.13187	0.29175	0.228	0.343	0.1822	0.19208	5.10211317	0.354757483	1.373E-05	0.015368	0.107092	0.048294	1.291024	1.30611531	5.612546
4830	476363.09	3861877.25	0.52734	0.19451	0.13661	0.29593	0.235	0.359	0.1866	0.19451	5.50214389	0.359245513	1.422E-05	0.015588	0.110149	0.050479	1.322057	1.32263894	6.037038
4831	476863.09	3861877.25	0.57527	0.1965	0.13609	0.30866	0.247	0.378	0.1947	0.1965	6.00223445	0.362920895	1.417E-05	0.016258	0.115654	0.053191	1.379165	1.33617065	6.593268
4832	477363.09	3861877.25	0.56371	0.20216	0.12901	0.32106	0.283	0.405	0.1961	0.20216	5.88162007	0.373374494	1.343E-05	0.016912	0.132807	0.056986	1.389227	1.3746578	6.476282
4833	477863.09	3861877.25	0.5605	0.16528	0.10735	0.28977	0.24	0.353	0.1714	0.16528	5.84812767	0.305259875	1.118E-05	0.015263	0.112316	0.049643	1.214289	1.12387931	6.421031
4834	478363.09	3861877.25	0.43887	0.1117	0.08535	0.19816	0.202	0.214	0.1183	0.1117	4.57906832	0.206301598	8.885E-06	0.010438	0.094712	0.030091	0.838411	0.75954331	4.999487

4835	478863.09	3861877.25	0.58882	0.13748	0.16198	0.26851	0.275	0.293	0.1498	0.13748	6.14361202	0.253915341	1.686E-05	0.014144	0.128878	0.041197	1.061245	0.93484346	6.708164
4836	479363.09	3861877.25	0.58278	0.12881	0.13707	0.25656	0.273	0.277	0.142	0.12881	6.08059205	0.237902496	1.427E-05	0.013514	0.127921	0.039001	1.006263	0.87588876	6.629319
4837	479863.09	3861877.25	0.64162	0.22829	0.18906	0.38664	0.355	0.488	0.2162	0.22829	6.69451504	0.421634662	1.968E-05	0.020366	0.166377	0.068603	1.531572	1.5523379	7.35075
4838	480363.09	3861877.25	0.63317	0.24962	0.21515	0.41647	0.403	0.523	0.2267	0.24962	6.60634969	0.461029586	2.24E-05	0.021937	0.18897	0.073533	1.606464	1.69737871	7.260926
4839	480863.09	3861877.25	0.65963	0.25864	0.22935	0.42379	0.471	0.534	0.2314	0.25864	6.88242722	0.477688856	2.388E-05	0.022323	0.220819	0.075062	1.639198	1.75871336	7.558828
4840	481363.09	3861877.25	0.66484	0.263	0.19859	0.44258	0.472	0.591	0.2393	0.263	6.93678716	0.485741452	2.067E-05	0.023312	0.221274	0.083183	1.695669	1.78836071	7.657626
4841	481863.09	3861877.25	0.68309	0.28276	0.19056	0.46377	0.342	0.611	0.2576	0.28276	7.12720345	0.522236703	1.984E-05	0.024429	0.160277	0.086012	1.824976	1.92272576	7.822428
4842	482363.09	3861877.25	0.67992	0.29415	0.21734	0.47164	0.266	0.691	0.2627	0.29415	7.0941284	0.543273186	2.263E-05	0.024843	0.124526	0.097266	1.861324	2.00017606	7.745208
4843	482863.09	3861877.25	0.68852	0.29798	0.23383	0.52256	0.362	0.707	0.2755	0.29798	7.18385882	0.550346912	2.434E-05	0.027525	0.169768	0.099458	1.952229	2.02621949	7.956991
4844	483363.09	3861877.25	0.69676	0.32053	0.2031	0.54213	0.304	0.757	0.2806	0.32053	7.26983307	0.591995086	2.114E-05	0.028556	0.142767	0.106499	1.988011	2.17955612	7.948126
4845	483863.09	3861877.25	0.72299	0.31219	0.1835	0.56499	0.205	0.827	0.2971	0.31219	7.54351084	0.576591726	1.91E-05	0.02976	0.096058	0.116298	2.104919	2.12284536	8.344312
4846	484363.09	3861877.25	0.71438	0.32271	0.2305	0.58638	0.141	0.892	0.3114	0.32271	7.45367609	0.596021384	2.4E-05	0.030887	0.066263	0.125462	2.206452	2.19437979	8.284406
4847	484863.09	3861877.25	0.73502	0.33633	0.18704	0.65727	0.15	0.911	0.3282	0.33633	7.66902909	0.621176511	1.947E-05	0.034621	0.070141	0.128123	2.325132	2.28699376	8.561249
4848	485363.09	3861877.25	0.76834	0.34639	0.19644	0.67867	0.122	0.904	0.3409	0.34639	8.01668228	0.639756584	2.045E-05	0.035748	0.057119	0.127103	2.415399	2.35540025	8.936429
4849	485863.09	3861877.25	0.70533	0.36476	0.18785	0.71094	0.113	0.909	0.3456	0.36476	7.35925048	0.673684608	1.956E-05	0.037448	0.052908	0.127888	2.448417	2.48031351	8.219303
4850	486363.09	3861877.25	0.73446	0.38735	0.14852	0.74486	0.11	0.883	0.3588	0.38735	7.66318618	0.715406659	1.546E-05	0.039235	0.051745	0.124238	2.541944	2.63392213	8.501848
4851	486863.09	3861877.25	0.82347	0.42312	0.13927	0.80977	0.087	0.9	0.4001	0.42312	8.59189598	0.78147119	1.45E-05	0.042654	0.040843	0.126552	2.834924	2.87715279	9.541201
4852	487363.09	3861877.25	0.84032	0.43632	0.16787	0.95463	0.099	0.921	0.4316	0.43632	8.76770499	0.805850609	1.748E-05	0.050284	0.046446	0.129498	3.057687	2.96691082	9.890578
4853	487863.09	3861877.25	0.79846	0.46188	0.23498	1.16878	0.08	0.78	0.4389	0.46188	8.33094741	0.853058029	2.446E-05	0.061564	0.03734	0.109789	3.109694	3.140715	9.361702
4854	488363.09	3861877.25	0.78605	0.51129	0.14646	1.44782	0.075	0.826	0.4605	0.51129	8.20146433	0.944314627	1.525E-05	0.076263	0.035385	0.116259	3.262667	3.47669562	9.159671
4855	488863.09	3861877.25	0.8571	0.56496	0.28399	2.62748	0.097	0.943	0.522	0.56496	8.94278364	1.043439128	2.957E-05	0.1384	0.045546	0.132685	3.698629	3.8416436	10.15987
4856	489363.09	3861877.25	0.65024	0.58021	0.26773	4.68432	0.092	0.979	0.5648	0.58021	6.78445413	1.071604744	2.787E-05	0.246742	0.043244	0.137662	4.001883	3.94534132	8.340276
4857	489863.09	3861877.25	0.9054	0.6257	0.17206	2.14215	0.141	1.186	0.6107	0.6257	9.44673469	1.155621393	1.791E-05	0.112836	0.066043	0.166792	4.327101	4.25466653	11.02048
4858	490363.09	3861877.25	0.91239	0.70798	0.14021	1.55055	0.352	0.983	0.6508	0.70798	9.51966674	1.307586437	1.46E-05	0.081674	0.165144	0.138272	4.611224	4.81415824	11.00942
4859	490863.09	3861877.25	0.80441	0.7801	0.18334	1.36613	0.483	0.94	0.7159	0.7801	8.39302834	1.440786717	1.909E-05	0.07196	0.226493	0.13219	5.072552	5.30456346	10.03246
4860	491363.09	3861877.25	0.6987	0.87711	0.17033	1.21862	0.381	0.935	0.8746	0.87711	7.29007459	1.619956976	1.773E-05	0.06419	0.178452	0.131485	6.19714	5.96421697	9.517099
4861	491863.09	3861877.25	0.68746	1.01713	0.19502	1.01098	0.322	0.899	1.0723	1.01713	7.17279902	1.878563509	2.03E-05	0.053252	0.150912	0.126458	7.597774	6.91633205	10.06345
4862	492363.09	3861877.25	0.7135	1.24611	0.15862	0.97782	0.311	0.829	1.2953	1.24611	7.44449437	2.301472549	1.651E-05	0.051506	0.145735	0.116602	9.17781	8.47336185	10.76427
4863	492863.09	3861877.25	0.74571	1.6113	0.15045	0.91324	0.288	0.854	1.5712	1.6113	7.78056608	2.975951336	1.566E-05	0.048104	0.135175	0.120205	11.13216	10.9565993	11.23558
4864	493363.09	3861877.25	0.63626	1.92987	0.15657	0.77657	0.417	0.888	1.9976	1.92987	6.63859003	3.564326447	1.63E-05	0.040905	0.195567	0.124926	14.15336	13.1228277	11.59487
4865	493863.09	3861877.25	0.62506	2.305	0.19924	0.75754	0.397	0.783	2.4062	2.305	6.52173182	4.257163675	2.074E-05	0.039903	0.186114	0.11016	17.04858	15.6736557	12.49002
4866	494363.09	3861877.25	0.6755	3.09638	0.243	0.61434	0.393	0.722	3.1387	3.09638	7.04801114	5.718783713	2.53E-05	0.03236	0.184351	0.101538	22.23903	21.0549214	14.26918
4867	494863.09	3861877.25	0.65368	7.71567	0.26106	0.61574	0.366	0.767	7.837	7.71567	6.82034629	14.250269	2.718E-05	0.032434	0.171399	0.107869	55.52776	52.4654034	24.4447
4868	495363.09	3861877.25	0.65231	6.28227	0.3814	0.61793	0.335	0.763	6.2494	6.28227	6.80605203	11.60288574	3.971E-05	0.032549	0.156938	0.107337	44.27904	42.7184975	20.26635
4869	495863.09	3861877.25	0.64533	3.75367	0.40334	0.61965	0.377	0.805	3.7631	3.75367	6.73322432	6.932749488	4.199E-05	0.032639	0.176548	0.113264	26.66306	25.5243952	15.12713
4870	496363.09	3861877.25	0.65597	2.7295	0.40587	0.71347	0.456	0.848	2.7395	2.7295	6.84423963	5.041183622	4.225E-05	0.037581	0.214029	0.119235	19.41049	18.5601922	13.10661
4871	496863.09	3861877.25	0.68794	0.96618	0.40618	0.7377	0.391	0.951	0.9691	0.96618	7.17780723	1.784462646	4.229E-05	0.038858	0.183526	0.133788	6.86614	6.56987966	9.614744
4872	497363.09	3861877.25	0.64434	1.47432	0.4733	0.68623	0.425	0.833	1.4794	1.47432	6.72289489	2.722959457	4.927E-05	0.036147	0.199056	0.117196	10.48215	10.0251558	10.2553
4873	497863.09	3861877.25	0.62529	1.54153	0.42639	0.62314	0.416	0.816	1.5501	1.54153	6.52413159	2.847091332	4.439E-05	0.032823	0.195136	0.114752	10.98281	10.4821737	10.21461
4874	498363.09	3861877.25	0.60078	1.40379	0.43824	0.61976	0.461	0.8	1.4129	1.40379	6.2683999	2.592695789	4.562E-05	0.032645	0.216228	0.112508	10.01098	9.54556229	9.687938
4875	471363.09	3862377.25	0.39503	0.1622	0.11309	0.20657	0.207	0.235	0.155	0.1622	4.12165187	0.299571344	1.177E-05	0.010881	0.09716	0.033102	1.097948	1.10293577	4.55739
4876	471863.09	3862377.25	0.40343	0.16486	0.10665	0.21654	0.204	0.239	0.1581	0.16486	4.20929554	0.304484166	1.11E-05	0.011406	0.095702	0.033688	1.120408	1.12102337	4.653971
4877	472363.09	3862377.25	0.39349	0.16802	0.11217	0.21882	0.207	0.251	0.1608	0.16802	4.10558387	0.310320451	1.168E-05	0.011526	0.097141	0.035305	1.139184	1.1425109	4.556562
4878	472863.09	3862377.25	0.3843	0.17144	0.11221	0.22348	0.22	0.261	0.164	0.17144	4.00969753	0.316636937	1.168E-05	0.011772	0.103247	0.036657	1.162212	1.16576639	4.474467
4879	473363.09	3862377.25	0.40747	0.17644	0.11578	0.22955	0.231	0.289	0.1662	0.17644	4.25144796	0.325871566	1.205E-05	0.012091	0.108433	0.040717	1.177445	1.19976564	4.716253
4880	473863.09	3862377.25	0.44754	0.18147	0.11702	0.23665	0.202	0.313	0.1687	0.18147	4.6695291	0.335161602	1.218E-05	0.012465	0.094712	0.04401	1.195159	1.23396889	5.117081
4881	474363.09	3862377.25	0.4609	0.18632	0.11381	0.25042	0.211	0.318	0.1721	0.18632	4.80892426	0.344119191	1.185E-05	0.013191	0.098815	0.044724	1.219249	1.26694817	5.262086
4882	474863.09	3862377.25	0.46708	0.18806	0.11616	0.28017	0.219	0.327	0.1775	0.18806	4.87340495	0.347332842	1.209E-05	0.014758	0.102482	0.046023	1.257935	1.27877991	5.363168
4883	475363.09	3862377.25	0.46907	0.19152	0.11475	0.28965	0.208	0.345	0.1787	0.19152	4.89416815	0.353723205	1.195E-05	0.015257	0.097343	0.048505	1.266367	1.30230739	5.373067
4884	475863.09	3862377.25	0.4932	0.19372	0.13224	0.29519	0.231	0.364	0.1809	0.19372	5.145935	0.357786441	1.377E-05	0.015549	0.108339	0.051266	1.281529	1.31726706	5.643152
4885	476363.09	3862377.25	0.51487	0.19754	0.15602	0.29762	0.259	0.376	0.1891	0.19754	5.37203478	0.364841697	1.624E-05	0.015677	0.121403	0.052832	1.339983	1.34324249	5.923546
4886	476863.09	3862377.25	0.50521	0.20388	0.1727	0.31373	0.247	0.39	0.2012	0.20388	5.27124457	0.376551206	1.798E-05	0.016525	0.115776	0.054903	1.425575	1.38635354	5.874239
4887	477363.09	3862377.25	0.50119	0.20523	0.18371	0.32329	0.207	0.388	0.2045	0.20523	5.22930082	0.379044556	1.913E-05	0.017029	0.097038	0.054603	1.448602	1.39553334	5.830104
4888	477863.09	3862377.25	0.54033	0.17466	0.18537	0.31643	0.239	0.353	0.1804	0.17466	5.63767855	0.322584038	1.93E-05	0.016668	0.112301	0.049681	1.278057	1.18766191	6.229328
4889	478363.09	3862377.25	0.5628	0.14628	0.1777	0.27224	0.284	0.305	0.1558	0.14628	5.87212534	0.270168287	1.85E-05	0.01434	0.133042	0.042899	1.10397	0.99468215	6.441881
4890	478863.09	3862377.25	0.58295	0.14985	0.16887	0.28813	0.25	0.322	0.1582	0.14985	6.08236579	0.276761812	1.758E-05	0.015177	0.117253	0.045299	1.120975	1.01895761	6.638892
4891	479363.09	3862377.25	0.60665	0.16432	0.14988	0.3195	0.263	0.371	0.1705	0.16432	6.32964613	0.303486826	1.56E-05	0.016829	0.123115	0.05214	1.207841	1.11735145	6.915723
4892	479863.09	3862377.25	0.59957	0.22665	0.16501	0.36856	0.371	0.445	0.2109	0.22665	6.25577504	0.418605704	1.718E-05	0.019414	0.173871	0.062599	1.493948	1.54118614	6.883044
4893	480363.09	3862377.25	0.59319	0.2392	0.19744	0.36706	0.4	0.477	0.2173	0.2392	6.18920759	0.441784621	2.055E-05	0.019335	0.187582	0.067055	1.539295	1.62652427	6.817754

4894	480863.09	3862377.25	0.59244	0.2435	0.18122	0.36998	0.44	0.527	0.2228	0.2435
4895	481363.09	3862377.25	0.62881	0.24764	0.20983	0.3712	0.299	0.542	0.2308	0.24764
4896	481863.09	3862377.25	0.62761	0.25933	0.1762	0.39247	0.229	0.609	0.2404	0.25933
4897	482363.09	3862377.25	0.62942	0.27752	0.21648	0.4112	0.302	0.64	0.25	0.27752
4898	482863.09	3862377.25	0.61633	0.27987	0.19044	0.44239	0.24	0.647	0.2613	0.27987
4899	483363.09	3862377.25	0.6305	0.29363	0.21393	0.46386	0.172	0.694	0.2699	0.29363
4900	483863.09	3862377.25	0.68076	0.29557	0.20878	0.50734	0.129	0.703	0.2771	0.29557
4901	484363.09	3862377.25	0.63169	0.30475	0.17302	0.54944	0.134	0.721	0.2969	0.30475
4902	484863.09	3862377.25	0.60214	0.31445	0.15885	0.62192	0.13	0.752	0.3069	0.31445
4903	485363.09	3862377.25	0.55614	0.31987	0.15209	0.59901	0.094	0.766	0.3176	0.31987
4904	485863.09	3862377.25	0.52939	0.32609	0.10211	0.63001	0.098	0.679	0.3246	0.32609
4905	486363.09	3862377.25	0.55824	0.35311	0.10335	0.67123	0.092	0.662	0.3351	0.35311
4906	486863.09	3862377.25	0.64552	0.38032	0.10467	0.78853	0.075	0.679	0.3613	0.38032
4907	487363.09	3862377.25	0.6282	0.40383	0.13459	0.90386	0.086	0.723	0.3956	0.40383
4908	487863.09	3862377.25	0.59064	0.4154	0.13674	1.10057	0.071	0.582	0.4034	0.4154
4909	488363.09	3862377.25	0.59407	0.4532	0.2173	1.4076	0.063	0.628	0.413	0.4532
4910	488863.09	3862377.25	0.663	0.51569	0.17132	2.37062	0.067	0.734	0.4464	0.51569
4911	489363.09	3862377.25	0.59458	0.53218	0.133	4.79615	0.074	0.854	0.5089	0.53218
4912	489863.09	3862377.25	0.56107	0.55474	0.14867	2.15477	0.092	0.828	0.5552	0.55474
4913	490363.09	3862377.25	0.67671	0.59989	0.1187	1.50398	0.138	0.942	0.6026	0.59989
4914	490863.09	3862377.25	0.64313	0.66967	0.14669	1.25195	0.407	0.903	0.6571	0.66967
4915	491363.09	3862377.25	0.62029	0.76455	0.14821	1.14093	0.289	0.733	0.7087	0.76455
4916	491863.09	3862377.25	0.56156	0.83439	0.1557	0.98706	0.244	0.702	0.8148	0.83439
4917	492363.09	3862377.25	0.52117	0.92172	0.16659	0.88694	0.257	0.678	0.9331	0.92172
4918	492863.09	3862377.25	0.56924	1.04762	0.12064	0.85732	0.25	0.651	1.0878	1.04762
4919	493363.09	3862377.25	0.59214	1.18978	0.11344	0.73801	0.232	0.683	1.2214	1.18978
4920	493863.09	3862377.25	0.52179	1.31977	0.11595	0.68139	0.328	0.658	1.3568	1.31977
4921	494363.09	3862377.25	0.48894	1.43279	0.14412	0.58985	0.356	0.624	1.4692	1.43279
4922	494863.09	3862377.25	0.51624	1.65636	0.16179	0.53433	0.373	0.573	1.6794	1.65636
4923	495363.09	3862377.25	0.54849	1.90805	0.18781	0.49339	0.3	0.56	1.8982	1.90805
4924	495863.09	3862377.25	0.52971	2.60725	0.22778	0.48747	0.322	0.597	2.6548	2.60725
4925	496363.09	3862377.25	0.52605	4.07476	0.27429	0.46707	0.29	0.595	4.0686	4.07476
4926	496863.09	3862377.25	0.54804	16.56912	0.30643	0.47956	0.321	0.593	16.241	16.56912
4927	497363.09	3862377.25	0.54343	7.18294	0.31991	0.47542	0.368	0.627	7.2434	7.18294
4928	497863.09	3862377.25	0.53656	19.48243	0.31127	0.53994	0.32	0.687	20.134	19.48243
4929	498363.09	3862377.25	0.52935	6.42197	0.30113	0.55228	0.362	0.636	6.4127	6.42197
4930	471363.09	3862877.25	0.35871	0.1565	0.10701	0.20588	0.204	0.235	0.1521	0.1565
4931	471863.09	3862877.25	0.3605	0.15661	0.1058	0.20706	0.203	0.234	0.1532	0.15661
4932	472363.09	3862877.25	0.35871	0.15804	0.1102	0.21014	0.189	0.256	0.1549	0.15804
4933	472863.09	3862877.25	0.36402	0.16382	0.10695	0.21827	0.178	0.273	0.1592	0.16382
4934	473363.09	3862877.25	0.42121	0.16473	0.11082	0.23132	0.195	0.297	0.1589	0.16473
4935	473863.09	3862877.25	0.44427	0.16505	0.11198	0.24137	0.194	0.322	0.158	0.16505
4936	474363.09	3862877.25	0.43731	0.166	0.1297	0.25946	0.188	0.338	0.1589	0.166
4937	474863.09	3862877.25	0.45604	0.16995	0.1438	0.26851	0.217	0.359	0.1604	0.16995
4938	475363.09	3862877.25	0.47386	0.172	0.16017	0.2777	0.233	0.37	0.1638	0.172
4939	475863.09	3862877.25	0.48212	0.17897	0.1862	0.28996	0.216	0.366	0.1663	0.17897
4940	476363.09	3862877.25	0.46797	0.18536	0.17901	0.2984	0.209	0.353	0.1738	0.18536
4941	476863.09	3862877.25	0.46311	0.19969	0.18442	0.29338	0.274	0.361	0.1873	0.19969
4942	477363.09	3862877.25	0.47726	0.20352	0.18444	0.29546	0.327	0.365	0.1868	0.20352
4943	477863.09	3862877.25	0.50604	0.19432	0.15633	0.29504	0.238	0.369	0.1896	0.19432
4944	478363.09	3862877.25	0.55423	0.16567	0.14266	0.27824	0.225	0.362	0.1673	0.16567
4945	478863.09	3862877.25	0.57314	0.16726	0.13991	0.28557	0.256	0.374	0.1675	0.16726
4946	479363.09	3862877.25	0.57331	0.17123	0.11489	0.29911	0.369	0.384	0.1688	0.17123
4947	479863.09	3862877.25	0.54744	0.22247	0.17112	0.31207	0.36	0.438	0.2028	0.22247
4948	480363.09	3862877.25	0.5275	0.22603	0.20159	0.31647	0.295	0.485	0.2053	0.22603
4949	480863.09	3862877.25	0.55648	0.22639	0.18554	0.34242	0.261	0.49	0.212	0.22639
4950	481363.09	3862877.25	0.58186	0.22993	0.15845	0.3542	0.214	0.516	0.2196	0.22993
4951	481863.09	3862877.25	0.57402	0.24769	0.1843	0.39541	0.255	0.528	0.2331	0.24769
4952	482363.09	3862877.25	0.57273	0.26112	0.17874	0.40117	0.204	0.522	0.2366	0.26112

6.18138226	0.449726401	1.887E-05	0.019488	0.206362	0.074085	1.578548	1.65576362	6.853847
6.56085845	0.457372673	2.184E-05	0.019553	0.140146	0.076266	1.635443	1.68391501	7.205745
6.54833793	0.478963235	1.834E-05	0.020673	0.107261	0.08567	1.703604	1.76340526	7.181122
6.56722305	0.512558813	2.254E-05	0.02166	0.141684	0.089978	1.770986	1.88709454	7.217017
6.43064501	0.516899088	1.983E-05	0.023302	0.112597	0.090985	1.851334	1.90307419	7.122708
6.57849152	0.542312785	2.227E-05	0.024433	0.080546	0.097664	1.912551	1.99664014	7.239382
7.10289277	0.545895821	2.174E-05	0.026724	0.060641	0.098851	1.963566	2.00983185	7.78876
6.59090771	0.562850599	1.801E-05	0.028941	0.062605	0.101415	2.103785	2.07225447	7.378268
6.28258983	0.580765778	1.654E-05	0.032759	0.060856	0.10573	2.174285	2.13821302	7.09879
5.80263644	0.590776115	1.583E-05	0.031552	0.0439	0.107807	2.249956	2.17506822	6.651576
5.52353311	0.602263992	1.063E-05	0.033185	0.045738	0.09551	2.299766	2.21736329	6.382645
5.82454736	0.652167924	1.076E-05	0.035356	0.043206	0.093163	2.374588	2.40109525	6.621944
6.73520674	0.702422772	1.09E-05	0.041535	0.034995	0.095543	2.560224	2.58611918	7.583819
6.55449385	0.745843994	1.401E-05	0.04761	0.040332	0.101645	2.802827	2.74598367	7.546782
6.16260148	0.767212924	1.424E-05	0.057972	0.033312	0.081875	2.858305	2.82465794	7.136634
6.19838931	0.837026715	2.262E-05	0.074144	0.029645	0.088337	2.926537	3.0816923	7.07241
6.91758902	0.9524411	1.784E-05	0.12487	0.031291	0.103207	3.163047	3.50661496	7.785848
6.20371053	0.982896904	1.385E-05	0.252633	0.034658	0.1202	3.605386	3.6187445	7.580754
5.85407492	1.024563547	1.548E-05	0.113501	0.043155	0.116541	3.933509	3.77214913	7.31321
7.060636	1.107952242	1.236E-05	0.079221	0.064814	0.132481	4.269355	4.07916238	8.635309
6.71027003	1.236830715	1.527E-05	0.065945	0.190747	0.126981	4.655578	4.55365596	8.432711
6.47196274	1.412067023	1.543E-05	0.060097	0.135354	0.103128	5.021608	5.19882579	8.005406
5.85918747	1.541056312	1.621E-05	0.051992	0.114594	0.098716	5.773435	5.67372735	7.765271
5.43776753	1.702348331	1.734E-05	0.046719	0.120395	0.095351	6.610996	6.26755831	7.746036
5.93931882	1.934876273	1.256E-05	0.045159	0.11746	0.091529	7.707739	7.1236595	8.712434
6.17825213	2.197435226	1.181E-05	0.038874	0.108695	0.096065	8.653705	8.09032626	9.182712
5.44423647	2.437517094	1.207E-05	0.035892	0.154007	0.092607	9.613276	8.97423884	8.803308
5.10148715	2.646256634	1.5E-05	0.03107	0.167099	0.087821	10.40995	9.74275796	8.700945
5.38632905	3.059173806	1.684E-05	0.028145	0.174701	0.080649	11.89944	11.2630006	9.365453
5.72281811	3.524026529	1.955E-05	0.025989	0.140802	0.078726	13.44972	12.974455	9.967642
5.52687192	4.815396959	2.371E-05	0.025677	0.15094	0.083924	18.81043	17.7289105	11.68435
5.48868432	7.525778852	2.856E-05	0.024602	0.136146	0.083703	28.82764	27.7077593	14.37883
5.71812291	30.60193309	3.19E-05	0.02526	0.150523	0.083429	115.0707	112.667541	38.98241
5.67002323	13.26635629	3.33E-05	0.025042	0.172567	0.088205	51.32196	48.842919	21.70127
5.59834324	35.98260012	3.241E-05	0.028441	0.149834	0.096574	142.6542	132.477614	52.03239
5.52311576	11.86090126	3.135E-05	0.029091	0.169777	0.089489	45.43658	43.6684366	19.44055
3.74269737	0.289043868	1.114E-05	0.010845	0.095711	0.033086	1.077754	1.06417662	4.184971
3.76137382	0.28924703	1.101E-05	0.010907	0.094975	0.032987	1.085194	1.0649246	4.20977
3.74269737	0.291888133	1.147E-05	0.011069	0.088391	0.03595	1.097522	1.07464839	4.192881
3.79810069	0.302563364	1.113E-05	0.011497	0.083332	0.038369	1.127777	1.11395153	4.247699
4.39480795	0.304244066	1.154E-05	0.012185	0.091284	0.04173	1.126147	1.12013939	4.850271
4.63541067	0.304835082	1.166E-05	0.012714	0.091144	0.045288	1.1197	1.12231534	5.086787
4.56279164	0.306589662	1.35E-05	0.013667	0.08833	0.047498	1.125793	1.1287752	5.015907
4.75821614	0.313885018	1.497E-05	0.014144	0.101896	0.050525	1.136775	1.15563461	5.219822
4.94414591	0.317671216	1.667E-05	0.014628	0.109197	0.052077	1.160795	1.16957431	5.428956
5.03032884	0.330544288	1.938E-05	0.015273	0.101408	0.051444	1.178012	1.21696926	5.490061
4.882691	0.342346143	1.864E-05	0.015718	0.097906	0.049616	1.231577	1.26042031	5.359453
4.83198289	0.368812587	1.92E-05	0.015454	0.128554	0.050825	1.327017	1.35786217	5.364802
4.97962072	0.375886313	1.92E-05	0.015563	0.15351	0.051344	1.323758	1.3839056	5.515796
5.2799046	0.358894597	1.627E-05	0.015541	0.111776	0.051918	1.343668	1.32134697	5.840371
5.78270794	0.305980176	1.485E-05	0.014656	0.10554	0.05097	1.185097	1.12653125	6.318434
5.98001052	0.308916788	1.457E-05	0.015042	0.120137	0.052676	1.186727	1.13734301	6.526181
5.98178426	0.316249083	1.196E-05	0.015755	0.172867	0.054084	1.19608	1.16433842	6.572493
5.71186265	0.410885554	1.781E-05	0.016438	0.168703	0.061591	1.436699	1.51276277	6.293434
5.50381329	0.41746061	2.099E-05	0.01667	0.138481	0.068201	1.454908	1.53697023	6.062585
5.80618392	0.418125503	1.932E-05	0.018037	0.122186	0.06888	1.502167	1.53941818	6.396181
6.07099299	0.42466362	1.65E-05	0.018657	0.100541	0.072556	1.556229	1.56348965	6.680167
5.98919223	0.45746502	1.919E-05	0.020828	0.119523	0.074223	1.651243	1.684255	6.628239
5.97573267	0.482269232	1.861E-05	0.021131	0.095584	0.073386	1.67668	1.77557699	6.549225

4953	482863.09	3862877.25	0.54979	0.27141	0.19198	0.44911	0.145	0.522	0.2515	0.27141
4954	483363.09	3862877.25	0.56511	0.282	0.1622	0.46394	0.122	0.609	0.2559	0.282
4955	483863.09	3862877.25	0.55172	0.28218	0.13579	0.46682	0.121	0.624	0.2633	0.28218
4956	484363.09	3862877.25	0.53672	0.28345	0.15053	0.53554	0.115	0.612	0.2786	0.28345
4957	484863.09	3862877.25	0.50364	0.28435	0.10882	0.48366	0.086	0.58	0.2816	0.28435
4958	485363.09	3862877.25	0.47321	0.28993	0.0885	0.49795	0.087	0.562	0.2881	0.28993
4959	485863.09	3862877.25	0.43713	0.30111	0.08815	0.56032	0.085	0.541	0.3007	0.30111
4960	486363.09	3862877.25	0.40744	0.3203	0.10156	0.63599	0.08	0.583	0.3099	0.3203
4961	486863.09	3862877.25	0.48725	0.35242	0.09803	0.72264	0.063	0.565	0.3319	0.35242
4962	487363.09	3862877.25	0.41885	0.3736	0.10604	0.80053	0.078	0.515	0.3489	0.3736
4963	487863.09	3862877.25	0.37686	0.39285	0.11629	0.97087	0.064	0.504	0.3622	0.39285
4964	488363.09	3862877.25	0.48573	0.40535	0.10379	1.37589	0.053	0.564	0.3875	0.40535
4965	488863.09	3862877.25	0.53725	0.45531	0.11549	2.37678	0.054	0.543	0.4092	0.45531
4966	489363.09	3862877.25	0.48441	0.49119	0.11435	4.91215	0.05	0.711	0.4434	0.49119
4967	489863.09	3862877.25	0.48282	0.50217	0.13047	2.11505	0.067	0.775	0.488	0.50217
4968	490363.09	3862877.25	0.50798	0.51253	0.10134	1.48478	0.099	0.702	0.5228	0.51253
4969	490863.09	3862877.25	0.54894	0.57193	0.11398	1.22001	0.208	0.683	0.5717	0.57193
4970	491363.09	3862877.25	0.54993	0.63157	0.11985	1.05519	0.405	0.69	0.6142	0.63157
4971	491863.09	3862877.25	0.46694	0.68492	0.1347	0.90987	0.297	0.605	0.6607	0.68492
4972	492363.09	3862877.25	0.4734	0.73138	0.12092	0.83403	0.224	0.612	0.7205	0.73138
4973	492863.09	3862877.25	0.39306	0.81604	0.14656	0.73369	0.225	0.615	0.8128	0.81604
4974	493363.09	3862877.25	0.42835	0.92519	0.09236	0.66532	0.224	0.558	0.9471	0.92519
4975	493863.09	3862877.25	0.47817	0.98579	0.09805	0.62556	0.209	0.55	0.9703	0.98579
4976	494363.09	3862877.25	0.45608	1.04073	0.10081	0.56706	0.266	0.527	1.0711	1.04073
4977	494863.09	3862877.25	0.39323	1.08814	0.10848	0.48963	0.331	0.502	1.1256	1.08814
4978	495363.09	3862877.25	0.41028	1.16256	0.12634	0.46694	0.309	0.473	1.1705	1.16256
4979	495863.09	3862877.25	0.39654	1.24845	0.12093	0.42301	0.244	0.441	1.2774	1.24845
4980	496363.09	3862877.25	0.41656	1.34305	0.1529	0.42401	0.263	0.474	1.3519	1.34305
4981	496863.09	3862877.25	0.44333	1.50448	0.1984	0.39989	0.26	0.483	1.5131	1.50448
4982	497363.09	3862877.25	0.44527	1.70222	0.19592	0.40697	0.263	0.474	1.7091	1.70222
4983	497863.09	3862877.25	0.47022	1.83961	0.24494	0.40564	0.249	0.463	1.8557	1.83961
4984	498363.09	3862877.25	0.49063	1.88667	0.25268	0.40491	0.296	0.487	1.9082	1.88667
4985	471363.09	3863377.25	0.34031	0.1529	0.10292	0.19787	0.166	0.235	0.1492	0.1529
4986	471863.09	3863377.25	0.35111	0.15399	0.10968	0.20221	0.171	0.255	0.151	0.15399
4987	472363.09	3863377.25	0.36434	0.15562	0.11046	0.20708	0.185	0.267	0.1531	0.15562
4988	472863.09	3863377.25	0.41744	0.15756	0.11009	0.21562	0.175	0.284	0.1543	0.15756
4989	473363.09	3863377.25	0.42631	0.15854	0.1231	0.22832	0.172	0.303	0.1543	0.15854
4990	473863.09	3863377.25	0.43225	0.1594	0.15004	0.24707	0.205	0.317	0.1544	0.1594
4991	474363.09	3863377.25	0.43811	0.1599	0.14061	0.26323	0.205	0.334	0.1546	0.1599
4992	474863.09	3863377.25	0.4356	0.16148	0.15991	0.2605	0.188	0.331	0.1557	0.16148
4993	475363.09	3863377.25	0.41749	0.16487	0.15931	0.26663	0.17	0.331	0.1579	0.16487
4994	475863.09	3863377.25	0.41463	0.17262	0.14695	0.25828	0.221	0.334	0.1595	0.17262
4995	476363.09	3863377.25	0.41247	0.17734	0.13709	0.2629	0.292	0.347	0.1646	0.17734
4996	476863.09	3863377.25	0.43057	0.18097	0.15049	0.26612	0.236	0.353	0.1677	0.18097
4997	477363.09	3863377.25	0.45149	0.18646	0.14703	0.27382	0.245	0.371	0.171	0.18646
4998	477863.09	3863377.25	0.47432	0.19775	0.14753	0.28251	0.268	0.374	0.1813	0.19775
4999	478363.09	3863377.25	0.52378	0.18734	0.13963	0.26632	0.283	0.366	0.1826	0.18734
5000	478863.09	3863377.25	0.52744	0.1953	0.11171	0.28018	0.345	0.379	0.1853	0.1953
5001	479363.09	3863377.25	0.51833	0.20438	0.1506	0.30064	0.336	0.418	0.1886	0.20438
5002	479863.09	3863377.25	0.48807	0.21315	0.16672	0.30684	0.252	0.427	0.1996	0.21315
5003	480363.09	3863377.25	0.47636	0.21723	0.19195	0.32082	0.216	0.428	0.2004	0.21723
5004	480863.09	3863377.25	0.53487	0.21726	0.15721	0.35048	0.183	0.42	0.2054	0.21726
5005	481363.09	3863377.25	0.51405	0.22093	0.14095	0.36607	0.226	0.421	0.2086	0.22093
5006	481863.09	3863377.25	0.48002	0.23702	0.21384	0.38499	0.175	0.435	0.222	0.23702
5007	482363.09	3863377.25	0.47562	0.24569	0.20127	0.40408	0.12	0.478	0.2287	0.24569
5008	482863.09	3863377.25	0.4744	0.25621	0.12296	0.4095	0.116	0.498	0.241	0.25621
5009	483363.09	3863377.25	0.43909	0.26572	0.1262	0.42591	0.105	0.497	0.2446	0.26572
5010	483863.09	3863377.25	0.47583	0.26253	0.11282	0.46939	0.111	0.509	0.2519	0.26253
5011	484363.09	3863377.25	0.4343	0.26236	0.09534	0.41651	0.078	0.492	0.259	0.26236

5.73638201	0.501274097	1.999E-05	0.023656	0.067932	0.073489	1.782252	1.84554745	6.339458
5.89622735	0.52083304	1.689E-05	0.024438	0.057424	0.08561	1.81279	1.91755787	6.47978
5.75651918	0.521165486	1.414E-05	0.024589	0.056781	0.087769	1.865505	1.91878185	6.393561
5.60001264	0.523511082	1.567E-05	0.028209	0.053987	0.086025	1.973698	1.92741766	6.33804
5.25486355	0.525173315	1.133E-05	0.025476	0.040444	0.081595	1.994883	1.93353752	5.988909
4.93736396	0.53547916	9.213E-06	0.026229	0.040632	0.079022	2.041505	1.97148069	5.688759
4.56091356	0.556127789	9.177E-06	0.029514	0.040055	0.076125	2.130639	2.04750302	5.345881
4.25113495	0.591570293	1.057E-05	0.0335	0.037443	0.082079	2.196037	2.17799215	5.013782
5.08385408	0.650893545	1.021E-05	0.038064	0.029711	0.079466	2.351702	2.39640335	5.837298
4.37018426	0.690011431	1.104E-05	0.042167	0.036674	0.072379	2.47187	2.54042419	5.142873
3.93207029	0.72556475	1.211E-05	0.05114	0.030152	0.07095	2.565963	2.67132131	4.70453
5.06799475	0.748651321	1.081E-05	0.072474	0.024876	0.079348	2.745648	2.75631945	5.982684
5.60554254	0.840923728	1.202E-05	0.125195	0.025425	0.07644	2.898975	3.09603998	6.476474
5.05422217	0.907191421	1.19E-05	0.258743	0.023357	0.10008	3.141366	3.34001862	6.144952
5.03763248	0.927470665	1.358E-05	0.111408	0.031638	0.108998	3.457302	3.41468098	6.259782
5.30014611	0.946604815	1.055E-05	0.078209	0.046189	0.098788	3.70451	3.48512743	6.68933
5.7275133	1.0563122	1.187E-05	0.064263	0.097423	0.096101	4.050701	3.88903856	7.203286
5.73784273	1.166462847	1.248E-05	0.055581	0.1898	0.097007	4.351829	4.29458165	7.303953
4.87194422	1.264996331	1.402E-05	0.047927	0.139307	0.085074	4.681298	4.65735368	6.433206
4.93934637	1.350804498	1.259E-05	0.043932	0.105263	0.08607	5.105144	4.97327474	6.657297
4.10109735	1.507165226	1.526E-05	0.038646	0.105619	0.08651	5.75884	5.54895009	6.048943
4.46930507	1.708757163	9.615E-06	0.035045	0.105033	0.078483	6.710687	6.29115379	6.816166
4.98911545	1.820680858	1.021E-05	0.032951	0.098135	0.077396	6.875067	6.70322473	7.190131
4.75863349	1.922150955	1.049E-05	0.029869	0.124634	0.074197	7.589343	7.07680853	7.422029
4.10287109	2.009713701	1.129E-05	0.025791	0.155034	0.070581	7.975211	7.39918945	6.940024
4.28076686	2.14716191	1.315E-05	0.024596	0.145013	0.066586	8.293273	7.90523433	7.052176
4.13740687	2.305794356	1.259E-05	0.022282	0.114496	0.062091	9.051123	8.4892735	7.203933
4.34629093	2.480513524	1.592E-05	0.022334	0.123485	0.066677	9.578558	9.13253936	7.485336
4.62560293	2.778662735	2.065E-05	0.021064	0.121694	0.067959	10.72065	10.2302392	8.105411
4.64584444	3.143873818	2.04E-05	0.021437	0.123204	0.066645	12.10952	11.5748417	8.535702
4.90616698	3.397622936	2.55E-05	0.021367	0.116836	0.065115	13.1483	12.5090732	9.146363
5.11912022	3.484539258	2.631E-05	0.021328	0.138641	0.06853	13.52007	12.8290742	9.523184
3.55071602	0.282394935	1.071E-05	0.010423	0.077761	0.033111	1.056994	1.03969716	3.971713
3.66340073	0.284408084	1.142E-05	0.010651	0.080406	0.035927	1.070173	1.047109	4.097868
3.80143949	0.287418573	1.15E-05	0.010908	0.086881	0.037548	1.08491	1.05819275	4.250924
4.35547264	0.291001609	1.146E-05	0.011358	0.081976	0.039979	1.092917	1.07138446	4.801331
4.44802018	0.292811596	1.282E-05	0.012027	0.080785	0.04268	1.093271	1.07804832	4.891559
4.50999677	0.294399952	1.562E-05	0.013014	0.096321	0.044556	1.093625	1.08389619	4.968033
4.57113865	0.295323415	1.464E-05	0.013865	0.095908	0.047038	1.095538	1.08729611	5.03153
4.54494989	0.298241558	1.665E-05	0.013722	0.08795	0.046568	1.103474	1.09803988	4.996882
4.35599433	0.304502636	1.659E-05	0.014044	0.079491	0.046606	1.118566	1.12109137	4.79813
4.32615375	0.31881631	1.53E-05	0.013605	0.103856	0.046991	1.129902	1.17379021	4.76555
4.30361681	0.327533799	1.427E-05	0.013848	0.136737	0.048844	1.166321	1.20588551	4.791029
4.49246803	0.334238139	1.567E-05	0.014018	0.110857	0.049671	1.188357	1.23056897	4.959056
4.71074249	0.344377761	1.531E-05	0.014423	0.114805	0.052132	1.211597	1.26790015	5.180192
4.94894544	0.365229552	1.536E-05	0.014881	0.1259	0.052645	1.284718	1.34467046	5.447664
5.46499967	0.346003055	1.454E-05	0.014028	0.132676	0.051486	1.293716	1.27388401	6.029039
5.50318726	0.360704584	1.163E-05	0.014758	0.161876	0.053312	1.313059	1.32801082	6.078897
5.40813562	0.377474669	1.568E-05	0.015836	0.15759	0.058829	1.33637	1.38975347	5.964497
5.09240977	0.393672207	1.736E-05	0.016163	0.11836	0.060123	1.414451	1.44938816	5.645808
4.97023033	0.401207664	1.998E-05	0.016899	0.101455	0.060251	1.419906	1.47713155	5.492838
5.58071017	0.401263072	1.637E-05	0.018461	0.085789	0.059071	1.455262	1.47733554	6.123237
5.36347909	0.408041289	1.467E-05	0.019282	0.105994	0.059233	1.477935	1.502291	5.931689
5.00841792	0.437758323	2.226E-05	0.020279	0.08208	0.061131	1.572596	1.61170059	5.570583
4.96250934	0.453771168	2.095E-05	0.021285	0.056416	0.067218	1.620564	1.6706553	5.511128
4.94978014	0.473200826	1.28E-05	0.02157	0.054259	0.070114	1.707359	1.74218973	5.534106
4.58136375	0.49076509	1.314E-05	0.022434	0.049466	0.069869	1.733079	1.8068563	5.140135
4.96470043	0.484873397	1.175E-05	0.024725	0.052233	0.071628	1.784873	1.78516478	5.597879
4.53138599	0.484559419	9.925E-06	0.021939	0.036402	0.069183	1.835321	1.78400881	5.194792

5012	484863.09	3863377.25	0.44463	0.26942	0.09992	0.44251	0.077	0.484	0.2672	0.26942	4.63916683	0.497598715	1.04E-05	0.023309	0.035971	0.068094	1.893067	1.83201575	5.325201
5013	485363.09	3863377.25	0.41443	0.27494	0.09468	0.47	0.073	0.499	0.2746	0.27494	4.324067	0.507793744	9.857E-06	0.024757	0.03433	0.070134	1.945498	1.86955093	5.037038
5014	485863.09	3863377.25	0.36616	0.28389	0.07358	0.52294	0.066	0.496	0.2847	0.28389	3.82042895	0.524323729	7.66E-06	0.027545	0.031038	0.069722	2.017486	1.93040959	4.560141
5015	486363.09	3863377.25	0.33102	0.30157	0.08617	0.58256	0.064	0.53	0.2967	0.30157	3.4537863	0.556977375	8.971E-06	0.030686	0.029987	0.074578	2.102156	2.05063095	4.197548
5016	486863.09	3863377.25	0.32491	0.32554	0.08274	0.61639	0.06	0.502	0.3119	0.32554	3.39003597	0.601248183	8.614E-06	0.032468	0.02821	0.070661	2.210137	2.21362337	4.119145
5017	487363.09	3863377.25	0.3112	0.34235	0.09834	0.68831	0.068	0.412	0.3319	0.34235	3.246989	0.632295004	1.024E-05	0.036256	0.031915	0.057978	2.351844	2.32792886	4.029358
5018	487863.09	3863377.25	0.27685	0.37419	0.11139	0.79627	0.057	0.431	0.354	0.37419	2.88858902	0.691101117	1.16E-05	0.041943	0.026944	0.060565	2.508359	2.5444361	3.673077
5019	488363.09	3863377.25	0.36972	0.37838	0.11024	0.97262	0.047	0.443	0.3653	0.37838	3.85757317	0.698839736	1.148E-05	0.051232	0.022053	0.06237	2.588424	2.57292747	4.707576
5020	488863.09	3863377.25	0.42098	0.39132	0.08996	1.82893	0.045	0.461	0.3759	0.39132	4.39240819	0.722738954	9.365E-06	0.096337	0.021144	0.064788	2.663175	2.66091754	5.299683
5021	489363.09	3863377.25	0.34384	0.43391	0.08751	4.73194	0.054	0.563	0.3967	0.43391	3.58754722	0.801399518	9.11E-06	0.249251	0.025439	0.079233	2.810621	2.95052318	4.602976
5022	489863.09	3863377.25	0.45608	0.45911	0.11351	1.70168	0.06	0.619	0.4281	0.45911	4.75863349	0.847942045	1.182E-05	0.089634	0.028055	0.087059	3.033456	3.12187941	5.722912
5023	490363.09	3863377.25	0.46286	0.48993	0.09352	1.04373	0.061	0.547	0.4823	0.48993	4.82937444	0.904864295	9.736E-06	0.054978	0.028567	0.076972	3.417128	3.33145081	5.980442
5024	490863.09	3863377.25	0.44993	0.51309	0.07756	0.91988	0.093	0.526	0.5174	0.51309	4.69446581	0.947639093	8.074E-06	0.048454	0.043605	0.07395	3.666178	3.48893535	5.985365
5025	491363.09	3863377.25	0.43536	0.54302	0.097	0.8108	0.252	0.541	0.5468	0.54302	4.54244579	1.002917579	1.01E-05	0.042708	0.118332	0.076122	3.874063	3.69245488	5.964144
5026	491863.09	3863377.25	0.47953	0.57029	0.10946	0.74571	0.247	0.549	0.5592	0.57029	5.00330538	1.053283242	1.14E-05	0.03928	0.115771	0.077214	3.962417	3.87788681	6.373396
5027	492363.09	3863377.25	0.39977	0.61315	0.12402	0.7384	0.243	0.54	0.595	0.61315	4.17110794	1.132442476	1.291E-05	0.038895	0.113961	0.076003	4.215648	4.1693284	5.578742
5028	492863.09	3863377.25	0.39638	0.56577	0.11229	0.70944	0.189	0.547	0.569	0.56577	4.13573746	1.044935138	1.169E-05	0.037369	0.088523	0.077	4.031358	3.84715148	5.567782
5029	493363.09	3863377.25	0.37087	0.47891	0.11331	0.6534	0.211	0.569	0.4824	0.47891	3.86957201	0.884511174	1.18E-05	0.034417	0.098834	0.079991	3.41812	3.25651646	5.128941
5030	493863.09	3863377.25	0.33573	0.56765	0.07809	0.60798	0.212	0.485	0.5721	0.56765	3.50292936	1.048407358	8.13E-06	0.032025	0.099247	0.068233	4.053818	3.8599352	4.944733
5031	494363.09	3863377.25	0.39848	0.62642	0.09075	0.54721	0.195	0.481	0.6326	0.62642	4.15764838	1.15695118	9.448E-06	0.028824	0.091439	0.067598	4.482341	4.25956242	5.725248
5032	494863.09	3863377.25	0.4196	0.6609	0.07828	0.48672	0.223	0.478	0.6688	0.6609	4.37800958	1.220633177	8.149E-06	0.025638	0.104752	0.067181	4.738335	4.49402127	6.040535
5033	495363.09	3863377.25	0.34304	0.6179	0.09027	0.49823	0.317	0.454	0.6039	0.6179	3.57920021	1.141215373	9.398E-06	0.026244	0.148854	0.063812	4.279133	4.20162769	5.03684
5034	495863.09	3863377.25	0.32975	0.48597	0.09338	0.46502	0.299	0.438	0.4875	0.48597	3.44053542	0.897550469	9.721E-06	0.024494	0.140333	0.061606	3.454113	3.3045234	4.71412
5035	496363.09	3863377.25	0.34458	0.89856	0.11935	0.39966	0.235	0.398	0.9067	0.89856	3.59526821	1.659573532	1.243E-05	0.021052	0.110262	0.056018	6.423942	6.11007377	5.756055
5036	496863.09	3863377.25	0.35198	0.8975	0.10712	0.36699	0.212	0.36	0.9138	0.8975	3.67247811	1.657615791	1.115E-05	0.019331	0.099631	0.050676	6.474744	6.10286592	5.871621
5037	497363.09	3863377.25	0.35221	0.89828	0.12627	0.35374	0.256	0.366	0.8711	0.89828	3.67487787	1.659056393	1.315E-05	0.018633	0.120268	0.051492	6.171774	6.10816981	5.587945
5038	497863.09	3863377.25	0.36788	0.90213	0.16778	0.34204	0.218	0.399	0.8895	0.90213	3.83837504	1.666167057	1.747E-05	0.018017	0.102131	0.056166	6.302499	6.13434923	5.849023
5039	498363.09	3863377.25	0.35998	0.86449	0.17107	0.35199	0.244	0.385	0.8785	0.86449	3.75594826	1.596648774	1.781E-05	0.018541	0.114252	0.054226	6.224277	5.87840286	5.885508
5040	471363.09	3863877.25	0.34386	0.14455	0.11054	0.19253	0.167	0.252	0.1418	0.14455	3.5877559	0.266973106	1.151E-05	0.010141	0.078483	0.035435	1.004846	0.98291841	4.000727
5041	471863.09	3863877.25	0.35212	0.14678	0.10727	0.2018	0.162	0.269	0.1424	0.14678	3.67393883	0.27109175	1.117E-05	0.01063	0.075927	0.037835	1.008601	0.99808207	4.079953
5042	472363.09	3863877.25	0.39069	0.14881	0.1175	0.21374	0.159	0.292	0.1442	0.14881	4.07636932	0.274841009	1.223E-05	0.011259	0.074624	0.041124	1.021426	1.01188577	4.487769
5043	472863.09	3863877.25	0.3935	0.1505	0.12045	0.23517	0.194	0.303	0.1456	0.1505	4.10568821	0.277962314	1.254E-05	0.012387	0.09075	0.042635	1.031699	1.02337752	4.537757
5044	473363.09	3863877.25	0.38158	0.15164	0.13602	0.23609	0.18	0.307	0.1469	0.15164	3.98131768	0.280067809	1.416E-05	0.012436	0.084556	0.043117	1.04091	1.03112935	4.411289
5045	473863.09	3863877.25	0.38413	0.15238	0.1356	0.24405	0.171	0.303	0.1485	0.15238	4.00792379	0.281434534	1.412E-05	0.012855	0.080054	0.042554	1.052034	1.03616124	4.440709
5046	474363.09	3863877.25	0.38781	0.1556	0.13303	0.24511	0.145	0.302	0.1487	0.1556	4.04632006	0.287381635	1.385E-05	0.012911	0.068214	0.042497	1.053735	1.05805676	4.453015
5047	474863.09	3863877.25	0.38612	0.15832	0.12342	0.24268	0.175	0.291	0.1514	0.15832	4.02868699	0.292405272	1.285E-05	0.012783	0.082277	0.040901	1.072511	1.07655235	4.453025
5048	475363.09	3863877.25	0.37844	0.16359	0.12223	0.25318	0.262	0.298	0.1552	0.16359	3.94855564	0.302138571	1.272E-05	0.013336	0.122669	0.041985	1.099435	1.11238756	4.415745
5049	475863.09	3863877.25	0.36134	0.1679	0.12466	0.25299	0.214	0.308	0.1608	0.1679	3.77013819	0.31009882	1.298E-05	0.013326	0.100227	0.04336	1.139043	1.14169492	4.234511
5050	476363.09	3863877.25	0.3777	0.17875	0.13646	0.25821	0.206	0.334	0.1684	0.17875	3.94083465	0.330137964	1.421E-05	0.013601	0.096602	0.047011	1.192891	1.2154733	4.405619
5051	476863.09	3863877.25	0.40562	0.18347	0.13897	0.26089	0.209	0.344	0.1729	0.18347	4.23214549	0.338855453	1.447E-05	0.013742	0.097882	0.048394	1.224988	1.24756859	4.708453
5052	477363.09	3863877.25	0.43103	0.18733	0.12657	0.26499	0.26	0.341	0.1774	0.18733	4.49726757	0.345984586	1.318E-05	0.013958	0.121952	0.047994	1.257226	1.27381602	5.01058
5053	477863.09	3863877.25	0.45194	0.19739	0.13519	0.27332	0.293	0.348	0.1818	0.19739	4.71543768	0.364564658	1.407E-05	0.014397	0.13745	0.048943	1.287835	1.34222251	5.226418
5054	478363.09	3863877.25	0.46271	0.1942	0.11756	0.28001	0.323	0.341	0.1824	0.1942	4.82780938	0.358672966	1.224E-05	0.014749	0.151522	0.047932	1.292512	1.32053099	5.372679
5055	478863.09	3863877.25	0.46132	0.19999	0.13931	0.28812	0.273	0.364	0.1831	0.19999	4.81330644	0.369366665	1.45E-05	0.015176	0.127968	0.051181	1.297471	1.35990212	5.314582
5056	479363.09	3863877.25	0.47318	0.19629	0.14595	0.29917	0.22	0.375	0.1885	0.19629	4.93705094	0.36253304	1.519E-05	0.015759	0.103336	0.052732	1.335591	1.33474268	5.472274
5057	479863.09	3863877.25	0.43766	0.20583	0.1465	0.31684	0.185	0.379	0.1914	0.20583	4.56644346	0.380152711	1.525E-05	0.016689	0.086839	0.053254	1.356209	1.39961325	5.05999
5058	480363.09	3863877.25	0.44276	0.2072	0.16882	0.34179	0.162	0.387	0.1932	0.2072	4.61965568	0.382682999	1.758E-05	0.018003	0.076171	0.054375	1.369033	1.40892905	5.111011
5059	480863.09	3863877.25	0.44317	0.20983	0.1511	0.34986	0.194	0.386	0.1974	0.20983	4.62393353	0.387540414	1.573E-05	0.018429	0.090984	0.054233	1.398579	1.42681265	5.146903
5060	481363.09	3863877.25	0.40602	0.21631	0.14916	0.35815	0.147	0.385	0.2042	0.21631	4.236319	0.399508492	1.553E-05	0.018865	0.068786	0.054229	1.446618	1.47087569	4.753466
5061	481863.09	3863877.25	0.403	0.23069	0.18337	0.36727	0.109	0.411	0.2156	0.23069	4.20480901	0.426067283	1.909E-05	0.019346	0.051243	0.057801	1.52732	1.56865754	4.717948
5062	482363.09	3863877.25	0.40396	0.2418	0.11879	0.36996	0.11	0.444	0.2248	0.2418	4.21482543	0.446586628	1.237E-05	0.019487	0.051576	0.062391	1.592789	1.64420388	4.743464
5063	482863.09	3863877.25	0.39126	0.25523	0.1224	0.39696	0.101	0.45	0.2358	0.25523	4.08231656	0.471390839	1.274E-05	0.02091	0.047403	0.06336	1.670941	1.73552587	4.620808
5064	483363.09	3863877.25	0.38553	0.25811	0.10467	0.40801	0.097	0.457	0.2371	0.25811	4.02253107	0.476709985	1.09E-05	0.021492	0.045523	0.064285	1.679797	1.75510944	4.555239
5065	483863.09	3863877.25	0.42285	0.25138	0.08228	0.3825	0.088	0.462	0.2434	0.25138	4.41191933	0.464280175	8.566E-06	0.020148	0.041265	0.064925	1.724293	1.70934645	5.017492
5066	484363.09	3863877.25	0.41005	0.25019	0.08055	0.39604	0.07	0.468	0.2504	0.25019	4.27836709	0.462082334	8.386E-06	0.020861	0.032876	0.065794	1.774103	1.70125462	4.932838
5067	484863.09	3863877.25	0.38822	0.26101	0.0881	0.42132	0.074	0.433	0.2612	0.26101	4.05059791	0.48206607	9.172E-06	0.022193	0.034681	0.06098	1.850838	1.77482901	4.726536
5068	485363.09	3863877.25	0.35156	0.26951	0.07555	0.45491	0.064	0.433	0.27	0.26951	3.66809592	0.497764938	7.865E-06	0.023962	0.030137	0.060959	1.913118	1.83262774	4.361418
5069	485863.09	3863877.25	0.31114	0.27703	0.07318	0.47444	0.06	0.442	0.2777	0.27703	3.24636297	0.511653819	7.618E-06	0.024991	0.028149	0.062204	1.967746	1.88376262	3.957352
5070	486363.09	3863877.25	0.24559	0.28249	0.06903	0.49312	0.054	0.454	0.2832	0.28249	2.56242939	0.521738033	7.186E-06	0.025975	0.025467	0.06383	2.006362	1.9208898	3.284918

5071	486863.09	3863877.25	0.26273	0.297	0.0771	0.5557	0.053	0.394	0.2866	0.297	2.7412642	0.548536925	8.027E-06	0.029271	0.024825	0.055411	2.030452	2.01955563	3.410212
5072	487363.09	3863877.25	0.2533	0.31331	0.07862	0.6025	0.058	0.328	0.3054	0.31331	2.64287376	0.578660282	8.185E-06	0.031736	0.027089	0.046139	2.163798	2.1304612	3.359844
5073	487863.09	3863877.25	0.22233	0.341	0.11131	0.59677	0.052	0.358	0.3202	0.341	2.31973992	0.629801654	1.159E-05	0.031434	0.024388	0.050417	2.268591	2.31874906	3.005635
5074	488363.09	3863877.25	0.26807	0.3563	0.10845	0.46766	0.043	0.388	0.3401	0.3563	2.79698053	0.658059617	1.129E-05	0.024634	0.020145	0.05452	2.40959	2.42278677	3.541153
5075	488863.09	3863877.25	0.31875	0.36595	0.07041	0.39143	0.039	0.394	0.3617	0.36595	3.32576395	0.67588245	7.33E-06	0.020618	0.018175	0.055487	2.562775	2.48840533	4.170304
5076	489363.09	3863877.25	0.30331	0.37669	0.08413	0.39366	0.044	0.385	0.3648	0.37669	3.16466656	0.695718431	8.758E-06	0.020736	0.020853	0.054225	2.584598	2.56143573	3.979369
5077	489863.09	3863877.25	0.31453	0.42767	0.09353	0.66465	0.039	0.432	0.3861	0.42767	3.28173345	0.789874702	9.737E-06	0.03501	0.018499	0.060818	2.735304	2.90809211	4.013156
5078	490363.09	3863877.25	0.39493	0.44507	0.08613	0.62072	0.054	0.499	0.4077	0.44507	4.1206085	0.822011209	8.967E-06	0.032696	0.02534	0.070128	2.888347	3.02640951	4.932731
5079	490863.09	3863877.25	0.41788	0.45222	0.0663	0.62691	0.074	0.496	0.429	0.45222	4.3600635	0.835216728	6.902E-06	0.033022	0.034906	0.069755	3.039266	3.07502844	5.297208
5080	491363.09	3863877.25	0.38477	0.45463	0.07254	0.63883	0.132	0.441	0.4549	0.45463	4.0146014	0.839667818	7.552E-06	0.03365	0.061794	0.062031	3.223201	3.09141608	5.143537
5081	491863.09	3863877.25	0.36487	0.45885	0.08894	0.62276	0.29	0.5	0.4768	0.45885	3.80696939	0.847461845	9.259E-06	0.032803	0.136104	0.070384	3.378371	3.12011145	5.151991
5082	492363.09	3863877.25	0.42716	0.35896	0.1037	0.60067	0.176	0.5	0.3499	0.35896	4.45688888	0.662972439	1.08E-05	0.03164	0.082647	0.070328	2.479239	2.44087438	5.342851
5083	492863.09	3863877.25	0.37031	0.28695	0.11273	0.47665	0.191	0.511	0.2771	0.28695	3.8637291	0.529975322	1.174E-05	0.025107	0.089714	0.071832	1.963353	1.95121713	4.592505
5084	493363.09	3863877.25	0.38021	0.33338	0.09642	0.47643	0.153	0.491	0.2866	0.33338	3.96702341	0.615728081	1.004E-05	0.025096	0.071923	0.069115	2.030806	2.2669342	4.512767
5085	493863.09	3863877.25	0.36039	0.35352	0.07462	0.49981	0.181	0.441	0.3158	0.35352	3.76022611	0.652925164	7.768E-06	0.026327	0.08487	0.062007	2.23777	2.40388319	4.420249
5086	494363.09	3863877.25	0.29939	0.41664	0.06122	0.46326	0.197	0.456	0.4187	0.41664	3.12376618	0.769503112	6.373E-06	0.024402	0.092588	0.064081	2.966924	2.83308976	4.20818
5087	494863.09	3863877.25	0.31837	0.41671	0.08157	0.42312	0.181	0.433	0.3931	0.41671	3.32179912	0.769632397	8.492E-06	0.022287	0.084837	0.060921	2.784901	2.83356575	4.210821
5088	495363.09	3863877.25	0.38998	0.42669	0.06653	0.38249	0.176	0.376	0.3915	0.42669	4.06896134	0.788064715	6.926E-06	0.020147	0.082436	0.052874	2.773919	2.90142826	4.884981
5089	495863.09	3863877.25	0.32492	0.42235	0.07479	0.4115	0.253	0.39	0.4041	0.42235	3.39014031	0.780049058	7.786E-06	0.021675	0.118758	0.054811	2.863194	2.87191691	4.35672
5090	496363.09	3863877.25	0.27718	0.5449	0.07081	0.38105	0.279	0.368	0.5559	0.5449	2.89203217	1.006389799	7.372E-06	0.020071	0.130997	0.051764	3.938965	3.7052386	4.334989
5091	496863.09	3863877.25	0.29696	0.61948	0.08629	0.35796	0.246	0.322	0.6244	0.61948	3.09841212	1.144133515	8.983E-06	0.018855	0.115514	0.045227	4.423958	4.21237146	4.633737
5092	497363.09	3863877.25	0.29326	0.56662	0.10235	0.30976	0.178	0.314	0.565	0.56662	3.05980718	1.046505024	1.066E-05	0.016316	0.083383	0.044223	4.002945	3.85293135	4.400259
5093	497863.09	3863877.25	0.317	0.55254	0.10028	0.32625	0.201	0.323	0.5665	0.55254	3.30750486	1.020500311	1.044E-05	0.017185	0.094272	0.045389	4.013715	3.75718946	4.741387
5094	498363.09	3863877.25	0.31668	0.59538	0.10773	0.31553	0.218	0.328	0.587	0.59538	3.30416605	1.099622607	1.122E-05	0.01662	0.102131	0.046121	4.159319	4.04849506	4.679496
5095	471363.09	3864377.25	0.32226	0.14323	0.10608	0.19515	0.15	0.27	0.1366	0.14323	3.36238648	0.264535164	1.104E-05	0.010279	0.070258	0.03805	0.968144	0.9739426	3.739721
5096	471863.09	3864377.25	0.3453	0.14539	0.11089	0.21275	0.18	0.274	0.1391	0.14539	3.60278053	0.268524523	1.154E-05	0.011206	0.084476	0.038568	0.985786	0.98863028	4.002722
5097	472363.09	3864377.25	0.34073	0.14788	0.1098	0.2219	0.157	0.275	0.1412	0.14788	3.5550982	0.273123368	1.143E-05	0.011688	0.073677	0.03862	1.000382	1.00556191	3.947038
5098	472863.09	3864377.25	0.35288	0.15068	0.10906	0.23023	0.154	0.281	0.1448	0.15068	3.6818685	0.27829476	1.135E-05	0.012127	0.072017	0.039576	1.026031	1.02460149	4.085324
5099	473363.09	3864377.25	0.35953	0.15354	0.10477	0.23339	0.133	0.282	0.1484	0.15354	3.75125306	0.283576968	1.091E-05	0.012294	0.062155	0.039693	1.051255	1.04404906	4.156189
5100	473863.09	3864377.25	0.35705	0.15708	0.11082	0.23505	0.15	0.276	0.1522	0.15708	3.72537732	0.290115085	1.154E-05	0.012381	0.070394	0.038827	1.07825	1.06812053	4.147235
5101	474363.09	3864377.25	0.34851	0.16048	0.10978	0.23313	0.232	0.282	0.1537	0.16048	3.63627293	0.296394632	1.143E-05	0.01228	0.108738	0.039604	1.088949	1.09124003	4.09101
5102	474863.09	3864377.25	0.33352	0.15976	0.12061	0.24303	0.196	0.286	0.1539	0.15976	3.47987073	0.295064845	1.256E-05	0.012801	0.09196	0.040267	1.090295	1.08634413	3.923927
5103	475363.09	3864377.25	0.32879	0.16339	0.12732	0.24682	0.192	0.295	0.1585	0.16339	3.430519	0.301769186	1.325E-05	0.013001	0.089995	0.04146	1.123313	1.11102759	3.889043
5104	475863.09	3864377.25	0.33994	0.17048	0.12862	0.249	0.187	0.302	0.1613	0.17048	3.54685552	0.314863889	1.339E-05	0.013116	0.087618	0.042529	1.142514	1.15923853	3.988271
5105	476363.09	3864377.25	0.36211	0.17425	0.13597	0.25198	0.212	0.296	0.1633	0.17425	3.77817219	0.321826798	1.416E-05	0.013273	0.099406	0.041584	1.157252	1.18487397	4.226654
5106	476863.09	3864377.25	0.39959	0.17752	0.12907	0.25642	0.244	0.308	0.1657	0.17752	4.16922986	0.327866245	1.344E-05	0.013507	0.114346	0.043369	1.174115	1.20710948	4.635337
5107	477363.09	3864377.25	0.37963	0.18301	0.13754	0.25968	0.287	0.308	0.1724	0.18301	3.96097183	0.338005867	1.432E-05	0.013678	0.134547	0.043323	1.221233	1.24444066	4.467332
5108	477863.09	3864377.25	0.39051	0.18596	0.17863	0.25241	0.26	0.317	0.1748	0.18596	4.07449124	0.343454298	1.86E-05	0.013295	0.121731	0.044556	1.238804	1.26450022	4.571852
5109	478363.09	3864377.25	0.41575	0.18676	0.15216	0.26738	0.236	0.324	0.175	0.18676	4.33783957	0.344931839	1.584E-05	0.014084	0.110834	0.045569	1.239584	1.2699401	4.822918
5110	478863.09	3864377.25	0.4063	0.18574	0.14621	0.28361	0.186	0.352	0.1786	0.18574	4.23924045	0.343047974	1.522E-05	0.014939	0.08713	0.049529	1.265375	1.26300425	4.736272
5111	479363.09	3864377.25	0.38788	0.19018	0.1364	0.313	0.162	0.354	0.1807	0.19018	4.04705042	0.351248324	1.42E-05	0.016487	0.075759	0.049857	1.280537	1.29319559	4.527757
5112	479863.09	3864377.25	0.38084	0.19656	0.1835	0.31583	0.145	0.355	0.1814	0.19656	3.97359669	0.36303171	1.91E-05	0.016636	0.067984	0.049912	1.285214	1.33657864	4.419814
5113	480363.09	3864377.25	0.37553	0.19631	0.16628	0.32027	0.171	0.346	0.1857	0.19631	3.91819337	0.362569979	1.731E-05	0.01687	0.080115	0.048641	1.316035	1.33487867	4.407563
5114	480863.09	3864377.25	0.37742	0.19992	0.16882	0.33255	0.124	0.363	0.1885	0.19992	3.9379132	0.36923738	1.758E-05	0.017517	0.057921	0.051036	1.335236	1.35942613	4.409452
5115	481363.09	3864377.25	0.35199	0.20727	0.14779	0.33366	0.096	0.364	0.1954	0.20727	3.67258244	0.382812284	1.539E-05	0.017575	0.045016	0.051237	1.384763	1.40940504	4.144596
5116	481863.09	3864377.25	0.33358	0.21234	0.11745	0.32819	0.09	0.38	0.2023	0.21234	3.48049675	0.392176197	1.223E-05	0.017287	0.04225	0.053396	1.433652	1.44388028	3.97539
5117	482363.09	3864377.25	0.35375	0.22565	0.11256	0.34148	0.095	0.417	0.2156	0.22565	3.69094588	0.416758778	1.172E-05	0.017987	0.044735	0.058714	1.527462	1.53438629	4.222228
5118	482863.09	3864377.25	0.32939	0.23661	0.12212	0.33289	0.095	0.415	0.2179	0.23661	3.43677926	0.437001083	1.271E-05	0.017535	0.044322	0.058404	1.544184	1.60891265	3.929325
5119	483363.09	3864377.25	0.3649	0.24223	0.08634	0.31132	0.091	0.414	0.2247	0.24223	3.80728241	0.447380806	8.989E-06	0.016398	0.042859	0.058259	1.59201	1.64712781	4.317071
5120	483863.09	3864377.25	0.37105	0.24134	0.08018	0.31058	0.06	0.413	0.2366	0.24134	3.87145009	0.445737042	8.347E-06	0.01636	0.028088	0.058093	1.676467	1.64107595	4.455128
5121	484363.09	3864377.25	0.35045	0.24402	0.07875	0.33898	0.065	0.392	0.244	0.24402	3.65651444	0.450686803	8.198E-06	0.017855	0.030339	0.055212	1.728828	1.65929955	4.280145
5122	484863.09	3864377.25	0.29293	0.24663	0.09258	0.36947	0.058	0.396	0.2468	0.24663	3.05636403	0.455507279	9.638E-06	0.019461	0.026968	0.055668	1.74888	1.67704716	3.685811
5123	485363.09	3864377.25	0.2929	0.25123	0.06407	0.38804	0.049	0.375	0.2518	0.25123	3.05605102	0.464003137	6.67E-06	0.02044	0.022883	0.052808	1.784023	1.70832647	3.691889
5124	485863.09	3864377.25	0.22907	0.253	0.06353	0.40139	0.058	0.389	0.2538	0.253	2.39006353	0.467272195	6.614E-06	0.021143	0.027422	0.054776	1.798194	1.7203622	3.038515
5125	486363.09	3864377.25	0.20525	0.25669	0.06413	0.37575	0.044	0.347	0.2581	0.25669	2.14153114	0.474087351	6.676E-06	0.019792	0.020778	0.048767	1.82859	1.74545365	2.788098
5126	486863.09	3864377.25	0.20845	0.27125	0.06125	0.40981	0.05	0.307	0.2677	0.27125	2.1749192	0.500978589	6.376E-06	0.021586	0.023329	0.043168	1.896539	1.84445948	2.816066
5127	487363.09	3864377.25	0.19342	0.28793	0.10177	0.33085	0.051	0.283	0.2754	0.28793	2.01809965	0.531785309	1.059E-05	0.017427	0.024121	0.039876	1.951592	1.95788099	2.625031
5128	487863.09	3864377.25	0.17157	0.30465	0.11767	0.34707	0.048	0.297	0.2916	0.30465	1.79012179	0.562665906	1.225E-05	0.018282	0.022363	0.041795	2.065737	2.07157449	2.429402
5129	488363.09	3864377.25	0.20273	0.32123	0.07167	0.27424	0.04	0.327	0.3119	0.32123	2.11523804	0.593287934	7.461E-06	0.014445	0.018583	0.045995	2.209641	2.18431601	2.812882

5130	488863.09	3864377.25	0.24389	0.32675	0.06118	0.29923	0.032	0.333	0.319	0.32675	2.54469199	0.603482963	6.369E-06	0.015762	0.014902	0.04682	2.260443	2.22185119	3.264256
5131	489363.09	3864377.25	0.23696	0.34381	0.07305	0.2533	0.038	0.295	0.332	0.34381	2.47238597	0.634991515	7.605E-06	0.013342	0.017847	0.041482	2.352056	2.33785664	3.194257
5132	489863.09	3864377.25	0.24429	0.35514	0.08494	0.28384	0.028	0.324	0.3367	0.35514	2.54886549	0.655917183	8.843E-06	0.014951	0.012914	0.045611	2.385499	2.41489895	3.248868
5133	490363.09	3864377.25	0.31988	0.38184	0.07547	0.41318	0.05	0.413	0.3599	0.38184	3.33755411	0.705230099	7.857E-06	0.021764	0.023662	0.058041	2.550234	2.59645496	4.100038
5134	490863.09	3864377.25	0.34357	0.40128	0.0681	0.43415	0.05	0.431	0.3837	0.40128	3.58473011	0.741134334	7.09E-06	0.022868	0.023474	0.060562	2.718724	2.72864405	4.422856
5135	491363.09	3864377.25	0.37042	0.38504	0.0574	0.48993	0.071	0.418	0.3814	0.38504	3.86487681	0.711140261	5.976E-06	0.025807	0.033237	0.058826	2.702073	2.61821448	4.777752
5136	491863.09	3864377.25	0.36517	0.15216	0.04824	0.28966	0.064	0.306	0.1828	0.15216	3.81009952	0.28102821	5.022E-06	0.015258	0.029786	0.0431	1.295133	1.03466527	4.439744
5137	492363.09	3864377.25	0.31135	0.21461	0.06761	0.34318	0.115	0.409	0.2518	0.21461	3.24855406	0.396368719	7.039E-06	0.018077	0.053827	0.057518	1.784236	1.45931594	4.099271
5138	492863.09	3864377.25	0.2875	0.16005	0.05302	0.26775	0.089	0.282	0.1723	0.16005	2.99970866	0.295600454	5.52E-06	0.014103	0.041743	0.039718	1.220949	1.08831609	3.523513
5139	493363.09	3864377.25	0.31058	0.19557	0.0979	0.30325	0.108	0.335	0.1999	0.19557	3.24052006	0.361203254	1.019E-05	0.015973	0.050789	0.047173	1.416576	1.32984678	3.802398
5140	493863.09	3864377.25	0.35103	0.25771	0.0871	0.3408	0.109	0.367	0.232	0.25771	3.66256603	0.475971215	9.068E-06	0.017951	0.050911	0.051559	1.643875	1.7523895	4.150452
5141	494363.09	3864377.25	0.33626	0.28953	0.06591	0.38812	0.149	0.391	0.2753	0.28953	3.50845925	0.53474039	6.862E-06	0.020444	0.06978	0.054966	1.950883	1.96876075	4.170519
5142	494863.09	3864377.25	0.27882	0.32743	0.05072	0.37709	0.18	0.383	0.3007	0.32743	2.90914355	0.604738873	5.28E-06	0.019863	0.084326	0.053929	2.130568	2.22647509	3.576099
5143	495363.09	3864377.25	0.25756	0.32073	0.06658	0.36256	0.167	0.387	0.303	0.32073	2.68732161	0.592364471	6.931E-06	0.019098	0.0783	0.054387	2.14651	2.18091609	3.397071
5144	495863.09	3864377.25	0.32736	0.31173	0.06126	0.33842	0.16	0.333	0.3003	0.31173	3.41559871	0.57574214	6.378E-06	0.017826	0.075116	0.046783	2.127521	2.11971743	4.138876
5145	496363.09	3864377.25	0.28619	0.3771	0.0653	0.37882	0.201	0.336	0.3383	0.3771	2.98604043	0.696475671	6.798E-06	0.019954	0.094084	0.047313	2.397119	2.56422367	3.67677
5146	496863.09	3864377.25	0.27026	0.4358	0.07467	0.35651	0.269	0.315	0.4419	0.4358	2.81983048	0.804890208	7.774E-06	0.018779	0.126027	0.044321	3.131092	2.9633749	3.981572
5147	497363.09	3864377.25	0.25844	0.42787	0.06716	0.3213	0.243	0.284	0.4463	0.42787	2.69650333	0.790244087	6.992E-06	0.016924	0.11398	0.039903	3.162267	2.90945208	3.910377
5148	497863.09	3864377.25	0.2814	0.3881	0.08121	0.297	0.165	0.273	0.3949	0.3881	2.93606267	0.716791853	8.454E-06	0.015644	0.077522	0.038419	2.797867	2.63902202	3.943293
5149	498363.09	3864377.25	0.26151	0.44902	0.07974	0.26595	0.163	0.278	0.4295	0.44902	2.728535	0.829306565	8.301E-06	0.014009	0.076659	0.039105	3.042808	3.05326892	3.677162
5150	471363.09	3864877.25	0.33455	0.14898	0.08506	0.20721	0.137	0.261	0.1387	0.14898	3.49061751	0.275154987	8.855E-06	0.010915	0.064467	0.03675	0.983023	1.01304174	3.847894
5151	471863.09	3864877.25	0.33411	0.1499	0.09739	0.21193	0.139	0.266	0.1419	0.1499	3.48602665	0.276854158	1.014E-05	0.011163	0.065044	0.037427	1.005129	1.01929761	3.862356
5152	472363.09	3864877.25	0.33673	0.14924	0.0974	0.21688	0.124	0.258	0.1445	0.14924	3.51336313	0.275635187	1.014E-05	0.011424	0.058132	0.036263	1.023764	1.01480971	3.903782
5153	472863.09	3864877.25	0.34342	0.14903	0.09502	0.22142	0.131	0.256	0.1448	0.14903	3.58316504	0.275247333	9.892E-06	0.011663	0.06156	0.035971	1.026244	1.01338174	3.980478
5154	473363.09	3864877.25	0.33516	0.1511	0.09826	0.22936	0.195	0.257	0.1451	0.1511	3.49698211	0.279070469	1.023E-05	0.012081	0.091256	0.036161	1.027802	1.02745743	3.915906
5155	473863.09	3864877.25	0.32308	0.15184	0.10919	0.23528	0.18	0.267	0.1452	0.15184	3.37094217	0.280437194	1.137E-05	0.012393	0.08442	0.037563	1.028582	1.03248932	3.781859
5156	474363.09	3864877.25	0.30484	0.1525	0.11891	0.23775	0.176	0.267	0.1477	0.1525	3.18063022	0.281656165	1.238E-05	0.012523	0.082464	0.03758	1.046508	1.03697722	3.604397
5157	474863.09	3864877.25	0.29523	0.15606	0.11275	0.23924	0.164	0.271	0.1497	0.15606	3.0803617	0.28823122	1.174E-05	0.012602	0.076978	0.038171	1.060962	1.06118469	3.496132
5158	475363.09	3864877.25	0.31025	0.16034	0.11017	0.2409	0.161	0.279	0.1522	0.16034	3.23707692	0.296136062	1.147E-05	0.012689	0.075383	0.039208	1.078321	1.09028805	3.648538
5159	475863.09	3864877.25	0.32244	0.1634	0.11904	0.24034	0.224	0.284	0.154	0.1634	3.36426456	0.301787655	1.239E-05	0.01266	0.10515	0.039973	1.091429	1.11109559	3.804181
5160	476363.09	3864877.25	0.34888	0.16405	0.11216	0.24175	0.243	0.289	0.1565	0.16405	3.64013342	0.302988157	1.168E-05	0.012734	0.114121	0.04064	1.108576	1.11551549	4.103688
5161	476863.09	3864877.25	0.35479	0.17108	0.12304	0.23928	0.267	0.292	0.1615	0.17108	3.701797	0.315972044	1.281E-05	0.012604	0.125366	0.041014	1.144427	1.16331844	4.177874
5162	477363.09	3864877.25	0.35262	0.17823	0.16054	0.24595	0.202	0.293	0.1674	0.17823	3.67915572	0.329177563	1.671E-05	0.012955	0.094811	0.041221	1.186231	1.21193737	4.13163
5163	477863.09	3864877.25	0.35819	0.18117	0.13802	0.25182	0.209	0.302	0.1699	0.18117	3.73727181	0.334607524	1.437E-05	0.013264	0.097934	0.042477	1.203519	1.23192894	4.197159
5164	478363.09	3864877.25	0.37262	0.1811	0.13484	0.28021	0.165	0.318	0.1711	0.1811	3.8878311	0.334478239	1.404E-05	0.01476	0.077381	0.044739	1.212093	1.23145295	4.339843
5165	478863.09	3864877.25	0.36487	0.18355	0.13059	0.29151	0.13	0.322	0.175	0.18355	3.80696939	0.339003207	1.36E-05	0.015355	0.061119	0.045344	1.239796	1.24811258	4.259488
5166	479363.09	3864877.25	0.34628	0.18495	0.1541	0.28945	0.125	0.32	0.178	0.18495	3.61300562	0.341588903	1.604E-05	0.015247	0.058751	0.045049	1.260982	1.25763237	4.077006
5167	479863.09	3864877.25	0.34164	0.18823	0.15969	0.29505	0.15	0.31	0.1789	0.18823	3.56459293	0.347646819	1.662E-05	0.015541	0.070141	0.043618	1.267217	1.27993588	4.028838
5168	480363.09	3864877.25	0.32549	0.19201	0.13342	0.2866	0.105	0.325	0.1842	0.19201	3.39608756	0.354628198	1.389E-05	0.015096	0.049438	0.045707	1.30484	1.30563932	3.860172
5169	480863.09	3864877.25	0.31927	0.19961	0.11395	0.28889	0.089	0.346	0.1883	0.19961	3.33118951	0.368664833	1.186E-05	0.015217	0.04172	0.048667	1.334244	1.35731818	3.782396
5170	481363.09	3864877.25	0.29836	0.20532	0.11766	0.28954	0.086	0.346	0.1939	0.20532	3.1130194	0.379210779	1.225E-05	0.015251	0.040172	0.048622	1.373993	1.39614533	3.574136
5171	481863.09	3864877.25	0.30363	0.2105	0.09556	0.30848	0.09	0.364	0.2023	0.2105	3.16800536	0.388777854	9.948E-06	0.016249	0.042428	0.051244	1.433085	1.43136855	3.66843
5172	482363.09	3864877.25	0.32045	0.21523	0.10365	0.28749	0.078	0.39	0.2094	0.21523	3.34350136	0.397513812	1.079E-05	0.015143	0.036393	0.054837	1.483604	1.46353185	3.867471
5173	482863.09	3864877.25	0.32234	0.22019	0.0943	0.2762	0.085	0.392	0.2109	0.22019	3.36322119	0.406674564	9.817E-06	0.014549	0.039839	0.055108	1.494586	1.49725911	3.876729
5174	483363.09	3864877.25	0.29736	0.22483	0.079	0.28317	0.054	0.369	0.2143	0.22483	3.10258563	0.415244299	8.224E-06	0.014916	0.025411	0.051973	1.51818	1.52881041	3.599507
5175	483863.09	3864877.25	0.32642	0.22839	0.07764	0.30592	0.059	0.339	0.2238	0.22839	3.40579096	0.421819354	8.083E-06	0.016114	0.027577	0.047733	1.585633	1.55301788	3.951657
5176	484363.09	3864877.25	0.27095	0.22652	0.07863	0.33728	0.064	0.341	0.2251	0.22652	2.82702978	0.418365603	8.186E-06	0.017766	0.03018	0.047965	1.595198	1.54030216	3.39621
5177	484863.09	3864877.25	0.23262	0.22447	0.08724	0.32421	0.051	0.316	0.2253	0.22447	2.42710341	0.414579406	9.082E-06	0.017077	0.023835	0.044397	1.596048	1.52636247	2.996688
5178	485363.09	3864877.25	0.22262	0.22775	0.05523	0.30348	0.039	0.349	0.229	0.22775	2.32276571	0.420637322	5.75E-06	0.015986	0.018504	0.049031	1.62276	1.54866598	2.901023
5179	485863.09	3864877.25	0.18728	0.23087	0.06027	0.31768	0.045	0.325	0.2322	0.23087	1.95403631	0.42639973	6.274E-06	0.016734	0.021073	0.045744	1.645504	1.56988151	2.539615
5180	486363.09	3864877.25	0.19559	0.24083	0.05671	0.3089	0.04	0.295	0.2415	0.24083	2.04074093	0.44479511	5.904E-06	0.016271	0.018593	0.041509	1.711256	1.63760802	2.635563
5181	486863.09	3864877.25	0.16002	0.24935	0.05529	0.27292	0.045	0.245	0.2501	0.24935	1.66961176	0.460530916	5.756E-06	0.014376	0.021092	0.034416	1.77212	1.69554275	2.276609
5182	487363.09	3864877.25	0.15469	0.26344	0.09033	0.29087	0.047	0.235	0.2568	0.26344	1.61399977	0.486554099	9.404E-06	0.015321	0.02217	0.033003	1.819804	1.79135265	2.199509
5183	487863.09	3864877.25	0.16099	0.26486	0.11458	0.23831	0.044	0.23	0.2607	0.26486	1.67973251	0.489176734	1.193E-05	0.012553	0.020712	0.032355	1.846799	1.80100843	2.280332
5184	488363.09	3864877.25	0.16573	0.28641	0.07003	0.22607	0.037	0.268	0.2701	0.28641	1.72918858	0.528977982	7.291E-06	0.011908	0.017261	0.037732	1.913614	1.94754521	2.291144
5185	488863.09	3864877.25	0.19377	0.29495	0.05514	0.1866	0.029	0.269	0.2904	0.29495	2.02175147	0.544750727	5.74E-06	0.009829	0.013636	0.037856	2.057872	2.00561594	2.680085
5186	489363.09	3864877.25	0.20201	0.28748	0.05534	0.19397	0.036	0.276	0.2873	0.28748	2.10772573	0.530954192	5.761E-06	0.010217	0.017073	0.038762	2.035341	1.95482105	2.785258
5187	489863.09	3864877.25	0.20771	0.31193	0.07199	0.17972	0.022	0.276	0.3016	0.31193	2.16719821	0.576111525	7.495E-06	0.009467	0.010161	0.038803	2.136591	2.1210774	2.817261
5188	490363.09	3864877.25	0.23303	0.34246	0.07234	0.23864	0.034	0.334	0.3221	0.34246	2.43138125	0.632498166	7.531E-06	0.01257	0.016075	0.046997	2.28184	2.32867684	3.092692

5189	490863.09	3864877.25	0.34512	0.26828	0.05879	0.26085	0.037	0.4	0.2553	0.26828	3.60090245	0.495493219	6.12E-06	0.01374	0.017519	0.056207	1.808822	1.82426392	4.168425
5190	491363.09	3864877.25	0.31595	0.33402	0.05277	0.3886	0.059	0.421	0.3432	0.33402	3.2965494	0.616910113	5.494E-06	0.020469	0.027507	0.059181	2.431908	2.2712861	4.181244
5191	491863.09	3864877.25	0.31117	0.22888	0.05193	0.36838	0.094	0.437	0.2457	0.22888	3.24667598	0.422724348	5.406E-06	0.019404	0.044308	0.061419	1.741086	1.55634981	3.979273
5192	492363.09	3864877.25	0.25436	0.11516	0.04535	0.16198	0.064	0.242	0.1475	0.11516	2.65393355	0.21269196	4.721E-06	0.008532	0.030091	0.034056	1.045091	0.7830708	3.201329
5193	492863.09	3864877.25	0.2359	0.12937	0.05034	0.19131	0.081	0.234	0.1528	0.12937	2.46132617	0.238936774	5.241E-06	0.010077	0.038062	0.032873	1.082289	0.87969667	2.983873
5194	493363.09	3864877.25	0.18148	0.11924	0.03469	0.18436	0.085	0.188	0.136	0.11924	1.89352045	0.220227417	3.611E-06	0.009711	0.039957	0.026496	0.963255	0.81081419	2.342356
5195	493863.09	3864877.25	0.24982	0.19713	0.09028	0.28063	0.101	0.313	0.1772	0.19713	2.60656424	0.364084458	9.399E-06	0.014782	0.047262	0.044068	1.255455	1.34045455	2.991771
5196	494363.09	3864877.25	0.31161	0.25641	0.07983	0.30489	0.101	0.337	0.2203	0.25641	3.25126684	0.473570212	8.311E-06	0.01606	0.047314	0.047378	1.560976	1.7435497	3.653023
5197	494863.09	3864877.25	0.29194	0.26781	0.05861	0.31398	0.124	0.322	0.2544	0.26781	3.0460346	0.494625164	6.102E-06	0.016539	0.057991	0.045316	1.802232	1.82106799	3.641676
5198	495363.09	3864877.25	0.26498	0.23992	0.04584	0.29484	0.163	0.328	0.2271	0.23992	2.76474018	0.443114407	4.772E-06	0.01553	0.076349	0.046132	1.608944	1.63142016	3.323395
5199	495863.09	3864877.25	0.23238	0.28928	0.0583	0.31275	0.154	0.341	0.2858	0.28928	2.4245993	0.534278658	6.069E-06	0.016474	0.072129	0.048032	2.025209	1.96706079	3.153667
5200	496363.09	3864877.25	0.26928	0.26619	0.05497	0.30336	0.145	0.294	0.2438	0.26619	2.80960539	0.491633145	5.723E-06	0.015979	0.06812	0.041307	1.727128	1.81005223	3.343725
5201	496863.09	3864877.25	0.27482	0.30809	0.05673	0.30365	0.165	0.281	0.2744	0.30809	2.86740847	0.56901933	5.906E-06	0.015994	0.077236	0.039569	1.944436	2.09496598	3.418703
5202	497363.09	3864877.25	0.2367	0.35992	0.06202	0.3213	0.249	0.29	0.3483	0.35992	2.46967319	0.664745488	6.457E-06	0.016924	0.116977	0.040775	2.467477	2.44740223	3.329175
5203	497863.09	3864877.25	0.22223	0.33961	0.05898	0.28706	0.237	0.264	0.3379	0.33961	2.31869654	0.627234428	6.14E-06	0.015121	0.111082	0.037168	2.39386	2.30929727	3.193871
5204	498363.09	3864877.25	0.2387	0.35448	0.06115	0.26977	0.172	0.247	0.348	0.35448	2.49054072	0.654698212	6.366E-06	0.01421	0.080701	0.034719	2.465493	2.41041104	3.329957
5205	471363.09	3865377.25	0.30972	0.1442	0.09083	0.19969	0.117	0.249	0.1376	0.1442	3.23154702	0.266326682	9.456E-06	0.010518	0.054704	0.034996	0.975087	0.98053846	3.592651
5206	471863.09	3865377.25	0.31448	0.14374	0.0875	0.2106	0.116	0.243	0.1384	0.14374	3.28121176	0.265477096	9.109E-06	0.011093	0.054287	0.034225	0.980826	0.97741053	3.649719
5207	472363.09	3865377.25	0.3186	0.14531	0.077	0.22802	0.166	0.236	0.1383	0.14531	3.32419889	0.268376769	8.016E-06	0.012011	0.078005	0.03326	0.979764	0.98808629	3.707536
5208	472863.09	3865377.25	0.30501	0.14641	0.08163	0.23223	0.173	0.25	0.1403	0.14641	3.18240396	0.270408388	8.498E-06	0.012233	0.081287	0.035218	0.994005	0.99556613	3.579998
5209	473363.09	3865377.25	0.28889	0.14839	0.08876	0.22734	0.162	0.254	0.1421	0.14839	3.0142116	0.274065301	9.24E-06	0.011975	0.076082	0.035661	1.007042	1.00902983	3.410017
5210	473863.09	3865377.25	0.26926	0.15	0.10468	0.22177	0.156	0.254	0.1428	0.15	2.80939671	0.277038851	1.09E-05	0.011682	0.073081	0.035687	1.01179	1.01997759	3.198708
5211	474363.09	3865377.25	0.26939	0.15051	0.10251	0.21738	0.144	0.261	0.1434	0.15051	2.8107531	0.277980783	1.067E-05	0.01145	0.067417	0.036671	1.016324	1.02344552	3.197161
5212	474863.09	3865377.25	0.27114	0.15409	0.09634	0.21732	0.176	0.275	0.1466	0.15409	2.8290122	0.284592777	1.003E-05	0.011447	0.082722	0.038722	1.038856	1.04778898	3.237573
5213	475363.09	3865377.25	0.29487	0.15725	0.10661	0.21658	0.202	0.272	0.1492	0.15725	3.07660554	0.290429062	1.11E-05	0.011408	0.094726	0.038285	1.056852	1.06927651	3.499041
5214	475863.09	3865377.25	0.31775	0.1612	0.09497	0.21926	0.241	0.271	0.1532	0.1612	3.31533018	0.297724418	9.887E-06	0.011549	0.112995	0.038058	1.085336	1.09613592	3.764867
5215	476363.09	3865377.25	0.33354	0.16485	0.10873	0.22581	0.228	0.278	0.1577	0.16485	3.4800794	0.304465697	1.132E-05	0.011894	0.106712	0.039105	1.117574	1.12095537	3.938886
5216	476863.09	3865377.25	0.35555	0.1755	0.07505	0.23583	0.187	0.285	0.1625	0.1755	3.70972666	0.324135455	7.813E-06	0.012422	0.087772	0.04009	1.151017	1.19337378	4.131797
5217	477363.09	3865377.25	0.32522	0.1772	0.11374	0.25317	0.186	0.285	0.1646	0.1772	3.39327044	0.327275229	1.184E-05	0.013335	0.087327	0.040074	1.166038	1.20493353	3.822398
5218	477863.09	3865377.25	0.34541	0.1786	0.13691	0.2732	0.162	0.298	0.1652	0.1786	3.60392824	0.329860925	1.425E-05	0.014391	0.07611	0.041857	1.170218	1.21445332	4.021926
5219	478363.09	3865377.25	0.34784	0.17786	0.12326	0.26266	0.106	0.284	0.1679	0.17786	3.6292823	0.3284942	1.283E-05	0.013835	0.049771	0.039977	1.189561	1.20942143	4.041513
5220	478863.09	3865377.25	0.3353	0.17725	0.12095	0.26496	0.107	0.285	0.1687	0.17725	3.49844284	0.327367575	1.259E-05	0.013957	0.050034	0.040135	1.195584	1.20527352	3.920258
5221	479363.09	3865377.25	0.31208	0.1761	0.1251	0.25625	0.133	0.279	0.1682	0.1761	3.25617071	0.325243611	1.302E-05	0.013498	0.062563	0.039211	1.191616	1.19745369	3.690861
5222	479863.09	3865377.25	0.29984	0.181	0.12729	0.25548	0.091	0.292	0.1686	0.181	3.12846138	0.334293547	1.325E-05	0.013457	0.042573	0.04108	1.194663	1.23077296	3.523768
5223	480363.09	3865377.25	0.27355	0.1815	0.09423	0.26162	0.083	0.305	0.1716	0.1815	2.85415758	0.33521701	9.81E-06	0.013781	0.038883	0.042955	1.21599	1.23417289	3.26682
5224	480863.09	3865377.25	0.27161	0.18744	0.08785	0.26783	0.082	0.316	0.1762	0.18744	2.83391607	0.346187748	9.146E-06	0.014108	0.038315	0.044449	1.248653	1.274564	3.251075
5225	481363.09	3865377.25	0.26327	0.19481	0.0944	0.28142	0.08	0.334	0.1844	0.19481	2.74689844	0.35979959	9.828E-06	0.014824	0.037321	0.046928	1.306824	1.3246789	3.187926
5226	481863.09	3865377.25	0.28621	0.19558	0.0916	0.25602	0.071	0.358	0.1854	0.19558	2.9862491	0.361221723	9.536E-06	0.013486	0.033251	0.050301	1.313909	1.32991478	3.428513
5227	482363.09	3865377.25	0.28388	0.1951	0.10246	0.2472	0.081	0.35	0.1843	0.1951	2.96193842	0.360335199	1.067E-05	0.013021	0.038184	0.049273	1.305478	1.32665085	3.401589
5228	482863.09	3865377.25	0.26859	0.20615	0.09106	0.25835	0.065	0.335	0.1932	0.20615	2.80240609	0.380743727	9.48E-06	0.013608	0.030658	0.047086	1.369104	1.4017892	3.241826
5229	483363.09	3865377.25	0.26923	0.21222	0.07353	0.27328	0.049	0.312	0.1963	0.21222	2.8090837	0.391954566	7.655E-06	0.014395	0.022818	0.043877	1.390927	1.4430643	3.229998
5230	483863.09	3865377.25	0.25946	0.21306	0.06807	0.28341	0.057	0.301	0.2029	0.21306	2.70714577	0.393505984	7.087E-06	0.014928	0.026616	0.042322	1.437903	1.44877617	3.173652
5231	484363.09	3865377.25	0.23295	0.2088	0.07372	0.27687	0.05	0.301	0.2087	0.2088	2.43054655	0.38563808	7.675E-06	0.014584	0.023488	0.042408	1.478361	1.41980881	2.955224
5232	484863.09	3865377.25	0.19545	0.2113	0.07939	0.26559	0.043	0.28	0.2126	0.2113	2.0392802	0.390255395	8.265E-06	0.01399	0.020379	0.039371	1.50656	1.43680843	2.573036
5233	485363.09	3865377.25	0.17652	0.2184	0.05213	0.2854	0.037	0.294	0.2207	0.2184	1.84176895	0.403368567	5.427E-06	0.015033	0.017134	0.041426	1.563881	1.48508737	2.39753
5234	485863.09	3865377.25	0.18091	0.21915	0.05675	0.2672	0.046	0.298	0.2198	0.21915	1.8875732	0.404753761	5.908E-06	0.014075	0.021467	0.041937	1.557362	1.49018726	2.436986
5235	486363.09	3865377.25	0.16669	0.22436	0.04514	0.24668	0.036	0.25	0.2243	0.22436	1.739205	0.414376244	4.699E-06	0.012994	0.017055	0.035137	1.589246	1.52561448	2.282403
5236	486863.09	3865377.25	0.12024	0.22789	0.05231	0.24006	0.039	0.2	0.2295	0.22789	1.25455642	0.420895891	5.446E-06	0.012645	0.018475	0.0282	1.625736	1.54961796	1.810896
5237	487363.09	3865377.25	0.12554	0.23502	0.10362	0.21554	0.044	0.205	0.2382	0.23502	1.30985539	0.434064471	1.079E-05	0.011353	0.020511	0.02881	1.687662	1.59810089	1.894166
5238	487863.09	3865377.25	0.15174	0.24601	0.06998	0.20422	0.042	0.212	0.2425	0.24601	1.58322015	0.454362185	7.285E-06	0.010757	0.01946	0.029868	1.718271	1.67283125	2.143115
5239	488363.09	3865377.25	0.13796	0.25574	0.06067	0.19931	0.034	0.232	0.2527	0.25574	1.43944281	0.472332771	6.316E-06	0.010498	0.015962	0.032703	1.790187	1.7389938	2.022139
5240	488863.09	3865377.25	0.14663	0.27186	0.04816	0.14124	0.024	0.241	0.2652	0.27186	1.52990359	0.502105213	5.014E-06	0.00744	0.011165	0.033835	1.879321	1.84860739	2.115168
5241	489363.09	3865377.25	0.16711	0.26982	0.05155	0.15124	0.028	0.253	0.2701	0.26982	1.74358718	0.498337485	5.367E-06	0.007966	0.013331	0.03563	1.913543	1.83473569	2.377666
5242	489863.09	3865377.25	0.17038	0.27958	0.05783	0.15566	0.023	0.246	0.279	0.27958	1.77770561	0.516363479	6.02E-06	0.008199	0.010574	0.034632	1.977099	1.90110223	2.423477
5243	490363.09	3865377.25	0.21922	0.26387	0.06501	0.14479	0.027	0.269	0.2533	0.26387	2.2872909	0.487348277	6.768E-06	0.007627	0.012651	0.037791	1.795005	1.79427658	2.833444
5244	490863.09	3865377.25	0.24979	0.24239	0.05407	0.18363	0.044	0.324	0.2283	0.24239	2.60625123	0.447676314	5.629E-06	0.009673	0.020525	0.045558	1.617234	1.64821579	3.098706
5245	491363.09	3865377.25	0.32188	0.22619	0.04508	0.28058	0.041	0.413	0.2125	0.22619	3.35842165	0.417756118	4.693E-06	0.014779	0.019193	0.058067	1.505427	1.53805821	3.83559
5246	491863.09	3865377.25	0.31057	0.2161	0.05057	0.30295	0.054	0.357	0.2221	0.2161	3.24041572	0.399120638	5.265E-06	0.015958	0.025533	0.050178	1.573375	1.46944772	3.835137
5247	492363.09	3865377.25	0.30746	0.16441	0.04208	0.25236	0.047	0.302	0.1812	0.16441	3.2079667	0.30365305	4.381E-06	0.013293	0.02211	0.042535	1.283726	1.11796344	3.755323

5248	492863.09	3865377.25	0.25042	0.14095	0.0495	0.22272	0.072	0.218	0.1595	0.14095	2.6128245	0.260324174	5.153E-06	0.011732	0.033879	0.030698	1.130044	0.95843894	3.121068
5249	493363.09	3865377.25	0.18427	0.11046	0.03866	0.17319	0.073	0.153	0.1316	0.11046	1.92263066	0.20401141	4.025E-06	0.009123	0.034409	0.021498	0.932575	0.7511115	2.37314
5250	493863.09	3865377.25	0.21602	0.13407	0.04353	0.24049	0.093	0.227	0.1431	0.13407	2.25390284	0.247617325	4.532E-06	0.012668	0.043638	0.031908	1.013561	0.91165597	2.691643
5251	494363.09	3865377.25	0.21262	0.18081	0.08375	0.26764	0.097	0.288	0.1611	0.18081	2.21842802	0.333942631	8.719E-06	0.014098	0.045466	0.04054	1.141452	1.22948099	2.564454
5252	494863.09	3865377.25	0.26185	0.20416	0.07306	0.26644	0.08	0.259	0.194	0.20416	2.73208248	0.377068345	7.606E-06	0.014034	0.037481	0.036477	1.37456	1.3882575	3.183453
5253	495363.09	3865377.25	0.25575	0.20629	0.04286	0.26428	0.108	0.275	0.2055	0.20629	2.66843649	0.381002297	4.462E-06	0.013921	0.050484	0.038742	1.455829	1.40274118	3.205678
5254	495863.09	3865377.25	0.24759	0.22605	0.04233	0.2607	0.148	0.267	0.2164	0.22605	2.58329693	0.417497548	4.407E-06	0.013732	0.069241	0.037553	1.532918	1.53710623	3.117137
5255	496363.09	3865377.25	0.22823	0.21158	0.04572	0.26515	0.145	0.312	0.1871	0.21158	2.38129916	0.390772534	4.76E-06	0.013967	0.067857	0.043864	1.325529	1.43871239	2.784581
5256	496863.09	3865377.25	0.22634	0.18835	0.04874	0.2592	0.125	0.295	0.1728	0.18835	2.36157934	0.34786845	5.074E-06	0.013653	0.058742	0.041553	1.224138	1.28075186	2.766786
5257	497363.09	3865377.25	0.26143	0.26213	0.05196	0.24068	0.137	0.258	0.249	0.26213	2.7277003	0.484134626	5.409E-06	0.012678	0.064129	0.036314	1.764184	1.78244484	3.306701
5258	497863.09	3865377.25	0.20839	0.30704	0.05412	0.29345	0.206	0.261	0.2789	0.30704	2.17429318	0.567080058	5.634E-06	0.015457	0.096518	0.036646	1.975895	2.08782613	2.778068
5259	498363.09	3865377.25	0.21767	0.26122	0.05633	0.23107	0.228	0.253	0.2512	0.26122	2.27111856	0.482453924	5.864E-06	0.012171	0.107106	0.035553	1.780055	1.77625698	2.912207
5260	471363.09	3865877.25	0.28544	0.14268	0.07045	0.20512	0.14	0.224	0.1324	0.14268	2.9782151	0.263519355	7.334E-06	0.010805	0.065438	0.031503	0.938385	0.97020269	3.317669
5261	471863.09	3865877.25	0.28417	0.1437	0.077	0.207	0.164	0.236	0.1342	0.1437	2.96496421	0.265403219	8.016E-06	0.010904	0.076748	0.033264	0.950855	0.97713853	3.325008
5262	472363.09	3865877.25	0.27045	0.14574	0.08492	0.20411	0.148	0.249	0.1359	0.14574	2.8218129	0.269170947	8.841E-06	0.010751	0.069311	0.034973	0.962971	0.99101023	3.177989
5263	472863.09	3865877.25	0.25871	0.147	0.08627	0.20367	0.148	0.246	0.1378	0.147	2.69932045	0.271498074	8.981E-06	0.010728	0.069409	0.034672	0.976363	0.99957804	3.062422
5264	473363.09	3865877.25	0.24839	0.14739	0.09174	0.20161	0.128	0.242	0.1384	0.14739	2.59164395	0.272218375	9.551E-06	0.01062	0.059801	0.034076	0.980685	1.00222998	2.946823
5265	473863.09	3865877.25	0.24224	0.14688	0.09621	0.19861	0.143	0.247	0.1411	0.14688	2.52747627	0.271276443	1.002E-05	0.010462	0.066929	0.034812	0.999886	0.99876206	2.912089
5266	474363.09	3865877.25	0.25426	0.14977	0.08692	0.19824	0.193	0.256	0.144	0.14977	2.65289017	0.276614058	9.049E-06	0.010442	0.090455	0.035996	1.019938	1.01841363	3.06793
5267	474863.09	3865877.25	0.27354	0.1536	0.0994	0.19751	0.211	0.251	0.1484	0.1536	2.85405325	0.283687783	1.035E-05	0.010404	0.099073	0.035303	1.051538	1.04445705	3.289612
5268	475363.09	3865877.25	0.28581	0.1564	0.09478	0.19951	0.231	0.242	0.1516	0.1564	2.98207559	0.288859175	9.867E-06	0.010509	0.108184	0.034098	1.074424	1.06349664	3.434664
5269	475863.09	3865877.25	0.28889	0.15554	0.08352	0.19979	0.173	0.248	0.1507	0.15554	3.0142116	0.287270819	8.695E-06	0.010524	0.081259	0.034921	1.067835	1.05764876	3.438381
5270	476363.09	3865877.25	0.30433	0.16277	0.08211	0.21342	0.204	0.264	0.1532	0.16277	3.175309	0.300624092	8.548E-06	0.011242	0.095716	0.037141	1.085194	1.10681168	3.598423
5271	476863.09	3865877.25	0.32265	0.17218	0.0903	0.22162	0.155	0.284	0.161	0.17218	3.36645565	0.318003662	9.401E-06	0.011674	0.072772	0.039917	1.141027	1.17079828	3.779059
5272	477363.09	3865877.25	0.32192	0.16524	0.12764	0.24411	0.147	0.275	0.1527	0.16524	3.358839	0.305185998	1.329E-05	0.012858	0.068711	0.038715	1.081935	1.12360732	3.74265
5273	477863.09	3865877.25	0.32189	0.16105	0.10049	0.24631	0.092	0.262	0.1531	0.16105	3.35852599	0.29744738	1.046E-05	0.012974	0.043248	0.036858	1.084414	1.09511594	3.738363
5274	478363.09	3865877.25	0.29874	0.16313	0.09948	0.24427	0.094	0.263	0.1564	0.16313	3.11698423	0.301288985	1.036E-05	0.012867	0.043849	0.037053	1.108009	1.10925963	3.510801
5275	478863.09	3865877.25	0.28216	0.16515	0.09894	0.23462	0.12	0.27	0.1575	0.16515	2.94399234	0.305019775	1.03E-05	0.012358	0.056369	0.038035	1.115661	1.12299533	3.34845
5276	479363.09	3865877.25	0.27541	0.17112	0.10923	0.2285	0.08	0.275	0.1581	0.17112	2.87356439	0.316045921	1.137E-05	0.012036	0.037298	0.038617	1.120125	1.16359044	3.234107
5277	479863.09	3865877.25	0.25015	0.16954	0.0868	0.24555	0.079	0.276	0.1611	0.16954	2.61000738	0.313127778	9.036E-06	0.012934	0.037218	0.038812	1.141381	1.15284667	3.000643
5278	480363.09	3865877.25	0.24053	0.17198	0.07796	0.25479	0.077	0.283	0.1615	0.17198	2.50963452	0.317634277	8.116E-06	0.013421	0.036079	0.039799	1.144357	1.16943831	2.891493
5279	480863.09	3865877.25	0.24237	0.17586	0.0735	0.23745	0.063	0.304	0.1643	0.17586	2.52883266	0.324800349	7.652E-06	0.012507	0.029331	0.042809	1.164337	1.19582173	2.906804
5280	481363.09	3865877.25	0.25172	0.18078	0.0878	0.22905	0.069	0.315	0.1724	0.18078	2.6263884	0.333887223	9.141E-06	0.012065	0.032309	0.044323	1.221304	1.22927699	3.041008
5281	481863.09	3865877.25	0.24763	0.18224	0.09189	0.22605	0.073	0.312	0.1765	0.18224	2.58371428	0.336583735	9.566E-06	0.011907	0.03409	0.043954	1.250495	1.23920478	3.02155
5282	482363.09	3865877.25	0.25215	0.18902	0.07447	0.23203	0.074	0.299	0.1797	0.18902	2.63087492	0.349105891	7.753E-06	0.012222	0.034639	0.042011	1.273239	1.28530776	3.056793
5283	482863.09	3865877.25	0.23303	0.19251	0.07149	0.24591	0.04	0.289	0.1827	0.19251	2.43138125	0.355551661	7.443E-06	0.012953	0.01893	0.040671	1.294141	1.30903924	2.844596
5284	483363.09	3865877.25	0.22978	0.19841	0.06686	0.25156	0.05	0.281	0.1879	0.19841	2.3974715	0.366448523	6.961E-06	0.013251	0.023324	0.039527	1.331623	1.34915836	2.822493
5285	483863.09	3865877.25	0.2265	0.20142	0.0572	0.24369	0.057	0.281	0.1945	0.20142	2.36324874	0.372007769	5.955E-06	0.012836	0.026686	0.039561	1.378315	1.36962591	2.823035
5286	484363.09	3865877.25	0.19187	0.20026	0.0707	0.22033	0.043	0.277	0.1958	0.20026	2.00192731	0.369865335	7.36E-06	0.011606	0.020093	0.038993	1.387455	1.36173808	2.468209
5287	484863.09	3865877.25	0.15463	0.20278	0.05834	0.23423	0.028	0.283	0.2001	0.20278	1.61337374	0.374519588	6.074E-06	0.012338	0.013177	0.039872	1.417426	1.37887371	2.091838
5288	485363.09	3865877.25	0.15912	0.20819	0.04702	0.23173	0.035	0.27	0.2063	0.20819	1.66022137	0.384511456	4.895E-06	0.012206	0.016187	0.037964	1.461497	1.4156609	2.156932
5289	485863.09	3865877.25	0.17208	0.2035	0.0481	0.22163	0.039	0.221	0.2072	0.2035	1.79544302	0.375849374	5.008E-06	0.011674	0.018227	0.031095	1.468158	1.3837696	2.316681
5290	486363.09	3865877.25	0.11613	0.20513	0.04224	0.20904	0.036	0.194	0.2105	0.20513	1.21167363	0.378859863	4.397E-06	0.011011	0.0169	0.027267	1.491752	1.39485336	1.742614
5291	486863.09	3865877.25	0.09884	0.21396	0.05177	0.19592	0.037	0.189	0.218	0.21396	1.03127375	0.395168217	5.39E-06	0.01032	0.017402	0.026564	1.54475	1.45489604	1.570587
5292	487363.09	3865877.25	0.11356	0.21491	0.08481	0.18187	0.04	0.188	0.2197	0.21491	1.18485884	0.396922796	8.829E-06	0.00958	0.018912	0.026444	1.556937	1.4613559	1.732307
5293	487863.09	3865877.25	0.12132	0.2277	0.05317	0.18085	0.039	0.199	0.2238	0.2277	1.26582489	0.420544976	5.535E-06	0.009526	0.018405	0.02803	1.585349	1.54832598	1.77936
5294	488363.09	3865877.25	0.13445	0.2367	0.05203	0.15849	0.031	0.204	0.2379	0.2367	1.40282028	0.437167307	5.417E-06	0.008348	0.014752	0.028689	1.685324	1.60952464	1.967582
5295	488863.09	3865877.25	0.1239	0.24988	0.04491	0.11782	0.021	0.217	0.2415	0.24988	1.29274401	0.461509787	4.675E-06	0.006206	0.009847	0.030541	1.711398	1.69914667	1.813104
5296	489363.09	3865877.25	0.13718	0.25479	0.04583	0.12693	0.025	0.231	0.2472	0.25479	1.43130447	0.470578192	4.771E-06	0.006686	0.011873	0.032513	1.751643	1.73253394	1.972068
5297	489863.09	3865877.25	0.15655	0.26427	0.05185	0.13745	0.022	0.221	0.2639	0.26427	1.63340658	0.488087047	5.398E-06	0.00724	0.010523	0.031143	1.869756	1.79699652	2.243164
5298	490363.09	3865877.25	0.15011	0.27296	0.06232	0.13574	0.02	0.222	0.2575	0.27296	1.5662131	0.504136831	6.488E-06	0.00715	0.009589	0.03123	1.824339	1.85608722	2.086577
5299	490863.09	3865877.25	0.20273	0.23654	0.05978	0.13621	0.039	0.281	0.2208	0.23654	2.11523804	0.436871799	6.223E-06	0.007175	0.018302	0.03954	1.564519	1.60843666	2.573214
5300	491363.09	3865877.25	0.26139	0.20448	0.04315	0.19607	0.028	0.353	0.1896	0.20448	2.72728295	0.377659361	4.492E-06	0.010328	0.013036	0.049713	1.343243	1.39043345	3.130833
5301	491863.09	3865877.25	0.29154	0.19473	0.04043	0.25069	0.033	0.328	0.1937	0.19473	3.04186109	0.359651836	4.209E-06	0.013205	0.015329	0.046114	1.372718	1.32413491	3.524747
5302	492363.09	3865877.25	0.29499	0.16762	0.04188	0.23145	0.059	0.301	0.1822	0.16762	3.0778576	0.309581681	4.36E-06	0.012191	0.027624	0.042311	1.290669	1.13979096	3.620448
5303	492863.09	3865877.25	0.25176	0.13098	0.04047	0.22566	0.051	0.231	0.1445	0.13098	2.62680575	0.241910325	4.213E-06	0.011886	0.023713	0.032535	1.024118	0.89064443	3.070329
5304	493363.09	3865877.25	0.19636	0.12437	0.0447	0.20872	0.068	0.189	0.1458	0.12437	2.04877493	0.229702146	4.654E-06	0.010994	0.031863	0.026648	1.033187	0.84569742	2.535477
5305	493863.09	3865877.25	0.18846	0.13277	0.03632	0.22284	0.072	0.209	0.1461	0.13277	1.96634816	0.245216322	3.781E-06	0.011738	0.033631	0.029348	1.034959	0.90281617	2.418427
5306	494363.09	3865877.25	0.23115	0.14076	0.05343	0.25608	0.091	0.244	0.1437	0.14076	2.41176577	0.259973258	5.562E-06	0.013489	0.04247	0.034259	1.017954	0.95714697	2.822769

5307	494863.09	3865877.25	0.19235	0.19723	0.07864	0.24905	0.101	0.264	0.1758	0.19723	2.00693552	0.36426915	8.187E-06	0.013118	0.047441	0.037155	1.245394	1.34113454	2.373187
5308	495363.09	3865877.25	0.1983	0.20041	0.06669	0.24323	0.11	0.219	0.1926	0.20041	2.06901645	0.370142374	6.943E-06	0.012812	0.051581	0.030818	1.364924	1.36275806	2.536542
5309	495863.09	3865877.25	0.22319	0.18977	0.03342	0.23287	0.096	0.236	0.18	0.18977	2.32871296	0.350491085	3.479E-06	0.012266	0.045115	0.033129	1.275648	1.29040765	2.754958
5310	496363.09	3865877.25	0.21959	0.1682	0.03741	0.21229	0.11	0.236	0.1724	0.1682	2.29115139	0.310652898	3.895E-06	0.011182	0.051356	0.033199	1.2218	1.14373487	2.775611
5311	496863.09	3865877.25	0.222	0.12404	0.04193	0.21462	0.111	0.233	0.1272	0.12404	2.31629678	0.22909266	4.365E-06	0.011305	0.051961	0.032784	0.901187	0.84345347	2.699178
5312	497363.09	3865877.25	0.21278	0.14372	0.0445	0.21593	0.109	0.278	0.1415	0.14372	2.22009742	0.265440158	4.633E-06	0.011374	0.050925	0.039095	1.00272	0.97727453	2.612382
5313	497863.09	3865877.25	0.23477	0.18842	0.04757	0.20567	0.112	0.246	0.1655	0.18842	2.44953601	0.347997735	4.952E-06	0.010833	0.052524	0.03466	1.172627	1.28122785	2.786955
5314	498363.09	3865877.25	0.19696	0.17112	0.04726	0.22216	0.144	0.238	0.1665	0.17112	2.05503519	0.316045921	4.92E-06	0.011702	0.06737	0.033501	1.179358	1.16359044	2.499426
5315	471363.09	3866377.25	0.2622	0.14008	0.08019	0.18695	0.133	0.229	0.1334	0.14008	2.7357343	0.258717348	8.348E-06	0.009847	0.062399	0.032241	0.944833	0.95252307	3.091258
5316	471863.09	3866377.25	0.25241	0.14196	0.07802	0.18242	0.136	0.224	0.1353	0.14196	2.6335877	0.262189568	8.122E-06	0.009609	0.06366	0.031572	0.958933	0.96530679	2.994252
5317	472363.09	3866377.25	0.237	0.14167	0.08417	0.17943	0.129	0.228	0.1372	0.14167	2.47280332	0.26165396	8.763E-06	0.009451	0.060697	0.032071	0.971828	0.96333484	2.845179
5318	472863.09	3866377.25	0.22099	0.14272	0.09245	0.17398	0.13	0.231	0.1366	0.14272	2.30575867	0.263593232	9.625E-06	0.009164	0.060978	0.032444	0.968144	0.97047468	2.669617
5319	473363.09	3866377.25	0.23413	0.14387	0.09161	0.17152	0.152	0.227	0.1384	0.14387	2.4428584	0.265717196	9.537E-06	0.009035	0.071135	0.031945	0.98026	0.97829451	2.822665
5320	473863.09	3866377.25	0.23426	0.14618	0.08323	0.17899	0.177	0.232	0.1391	0.14618	2.44421479	0.269983595	8.665E-06	0.009428	0.083163	0.032578	0.985786	0.99400216	2.83116
5321	474363.09	3866377.25	0.24782	0.14608	0.0838	0.18231	0.214	0.236	0.1401	0.14608	2.5856967	0.269798902	8.724E-06	0.009603	0.10041	0.03323	0.992872	0.99332218	2.998297
5322	474863.09	3866377.25	0.25964	0.14724	0.08293	0.18743	0.194	0.24	0.1427	0.14724	2.70902385	0.271941336	8.634E-06	0.009873	0.091186	0.033788	1.010798	1.00121	3.125408
5323	475363.09	3866377.25	0.25276	0.14894	0.07954	0.19666	0.161	0.239	0.1443	0.14894	2.63723952	0.27508111	8.281E-06	0.010359	0.07559	0.033605	1.022063	1.01276975	3.041176
5324	475863.09	3866377.25	0.25913	0.15021	0.10129	0.21145	0.176	0.244	0.1442	0.15021	2.70370263	0.277426705	1.054E-05	0.011138	0.082328	0.034301	1.02178	1.02140556	3.109281
5325	476363.09	3866377.25	0.2829	0.15357	0.09358	0.22275	0.137	0.252	0.1489	0.15357	2.95171333	0.283632375	9.742E-06	0.011733	0.06412	0.035414	1.055081	1.04425306	3.35745
5326	476863.09	3866377.25	0.28497	0.15423	0.08683	0.23542	0.102	0.257	0.1506	0.15423	2.97331123	0.284851346	9.04E-06	0.012401	0.047905	0.036159	1.066701	1.04874096	3.372596
5327	477363.09	3866377.25	0.30695	0.16163	0.08224	0.23537	0.088	0.257	0.1505	0.16163	3.20264548	0.298518596	8.562E-06	0.012398	0.041396	0.036218	1.066559	1.09905985	3.558685
5328	477863.09	3866377.25	0.27445	0.15477	0.08067	0.21626	0.083	0.25	0.1494	0.15477	2.86354798	0.285848686	8.398E-06	0.011391	0.038869	0.035111	1.058765	1.05241288	3.241129
5329	478363.09	3866377.25	0.2541	0.15567	0.08123	0.21488	0.109	0.25	0.1509	0.15567	2.65122077	0.287510919	8.457E-06	0.011319	0.050915	0.035203	1.068968	1.05853274	3.046612
5330	478863.09	3866377.25	0.24226	0.15822	0.08643	0.2234	0.073	0.255	0.1524	0.15822	2.52768494	0.29222058	8.998E-06	0.011767	0.034208	0.035841	1.079809	1.07587236	2.905668
5331	479363.09	3866377.25	0.23685	0.16165	0.08905	0.23017	0.074	0.271	0.1553	0.16165	2.47123825	0.298555535	9.271E-06	0.012124	0.034808	0.038094	1.100357	1.09919585	2.855989
5332	479863.09	3866377.25	0.22097	0.16506	0.06953	0.23091	0.07	0.272	0.1579	0.16506	2.30555	0.304853551	7.238E-06	0.012163	0.032768	0.038274	1.118495	1.12238334	2.689727
5333	480363.09	3866377.25	0.23339	0.16759	0.06818	0.22194	0.06	0.281	0.1589	0.16759	2.43513741	0.309526273	7.098E-06	0.01169	0.028135	0.039488	1.12558	1.13958696	2.809978
5334	480863.09	3866377.25	0.23079	0.16743	0.06343	0.20795	0.066	0.277	0.1607	0.16743	2.40800961	0.309230765	6.603E-06	0.010954	0.031038	0.039028	1.138901	1.13849899	2.798668
5335	481363.09	3866377.25	0.21006	0.17076	0.08129	0.2105	0.063	0.28	0.162	0.17076	2.19171757	0.315381028	8.463E-06	0.011088	0.029565	0.039322	1.147758	1.16114249	2.573697
5336	481863.09	3866377.25	0.23727	0.17297	0.06895	0.21715	0.072	0.248	0.1665	0.17297	2.47562043	0.319462734	7.178E-06	0.011438	0.033678	0.034869	1.1795	1.17617016	2.878405
5337	482363.09	3866377.25	0.22972	0.17588	0.06113	0.21838	0.043	0.27	0.1698	0.17588	2.39684548	0.324837287	6.364E-06	0.011503	0.020009	0.037919	1.203094	1.19595773	2.798257
5338	482863.09	3866377.25	0.21306	0.17937	0.07174	0.2154	0.041	0.276	0.1747	0.17937	2.22301888	0.331283058	7.469E-06	0.011346	0.019029	0.038839	1.237458	1.2196892	2.641292
5339	483363.09	3866377.25	0.21296	0.18987	0.05522	0.21006	0.051	0.268	0.1842	0.18987	2.2219755	0.350675777	5.749E-06	0.011065	0.023755	0.037648	1.30484	1.29108764	2.658877
5340	483863.09	3866377.25	0.1918	0.19655	0.05593	0.20208	0.045	0.262	0.1891	0.19655	2.00119695	0.363013241	5.823E-06	0.010644	0.020947	0.036874	1.339558	1.33651064	2.435729
5341	484363.09	3866377.25	0.15497	0.19188	0.06564	0.19846	0.041	0.26	0.1902	0.19188	1.61692122	0.354388098	6.834E-06	0.010454	0.019174	0.036607	1.347636	1.30475534	2.080431
5342	484863.09	3866377.25	0.1307	0.1909	0.05061	0.20354	0.025	0.235	0.1904	0.1909	1.36369364	0.352578111	5.269E-06	0.010721	0.011882	0.033001	1.349265	1.29809148	1.823056
5343	485363.09	3866377.25	0.15229	0.19389	0.05285	0.20218	0.035	0.21	0.1945	0.19389	1.58895872	0.358100419	5.502E-06	0.01065	0.016618	0.029538	1.378103	1.31842304	2.06355
5344	485863.09	3866377.25	0.13176	0.19696	0.04103	0.19184	0.035	0.203	0.1998	0.19696	1.37475344	0.36377048	4.271E-06	0.010105	0.016309	0.028535	1.415655	1.33929858	1.869833
5345	486363.09	3866377.25	0.10045	0.19578	0.04216	0.17209	0.033	0.173	0.2007	0.19578	1.04807212	0.361591108	4.389E-06	0.009065	0.015535	0.024331	1.421819	1.33127475	1.549143
5346	486863.09	3866377.25	0.08569	0.19885	0.04836	0.17212	0.035	0.168	0.2019	0.19885	0.89406969	0.36726117	5.035E-06	0.009066	0.016328	0.023619	1.430322	1.35215029	1.388521
5347	487363.09	3866377.25	0.09858	0.20794	0.0665	0.15982	0.038	0.179	0.2111	0.20794	1.02856097	0.384049724	6.923E-06	0.008418	0.017631	0.02513	1.495791	1.41396094	1.545627
5348	487863.09	3866377.25	0.10497	0.21361	0.04644	0.15459	0.037	0.18	0.2124	0.21361	1.09523276	0.394521793	4.835E-06	0.008143	0.017444	0.025367	1.504576	1.45251609	1.592773
5349	488363.09	3866377.25	0.13163	0.22392	0.04704	0.1077	0.029	0.18	0.222	0.22392	1.37339705	0.413563597	4.897E-06	0.005673	0.013744	0.02526	1.573021	1.52262255	1.882041
5350	488863.09	3866377.25	0.11238	0.22666	0.04335	0.09453	0.02	0.188	0.2172	0.22666	1.17254699	0.418624173	4.513E-06	0.004979	0.00928	0.026486	1.53887	1.54125414	1.629537
5351	489363.09	3866377.25	0.12943	0.23591	0.04271	0.09431	0.023	0.195	0.222	0.23591	1.35044276	0.435708235	4.446E-06	0.004968	0.010795	0.027478	1.572808	1.60415276	1.798051
5352	489863.09	3866377.25	0.14836	0.19074	0.03913	0.09463	0.025	0.203	0.1858	0.19074	1.54795401	0.352282603	4.074E-06	0.004985	0.01185	0.028512	1.316531	1.29700351	1.965114
5353	490363.09	3866377.25	0.12263	0.24138	0.04527	0.11892	0.018	0.195	0.2374	0.24138	1.27949313	0.445810919	4.713E-06	0.006264	0.008215	0.027405	1.681852	1.64134794	1.807697
5354	490863.09	3866377.25	0.16502	0.26496	0.06239	0.13124	0.021	0.23	0.2421	0.26496	1.7217806	0.489361426	6.495E-06	0.006913	0.009918	0.032343	1.715366	1.80168842	2.173999
5355	491363.09	3866377.25	0.1988	0.24328	0.04009	0.13907	0.03	0.275	0.2273	0.24328	2.07423333	0.449320078	4.174E-06	0.007325	0.014124	0.038641	1.610361	1.65426766	2.539741
5356	491863.09	3866377.25	0.26943	0.16949	0.03923	0.16515	0.024	0.314	0.1721	0.16949	2.81117045	0.313035432	4.084E-06	0.008699	0.011043	0.04421	1.219249	1.15250668	3.254905
5357	492363.09	3866377.25	0.24475	0.16607	0.0363	0.19363	0.038	0.263	0.1693	0.16607	2.55366503	0.306718946	3.779E-06	0.010199	0.017786	0.036999	1.199552	1.12925119	2.995673
5358	492863.09	3866377.25	0.24553	0.14173	0.03672	0.20541	0.036	0.207	0.1486	0.14173	2.56180337	0.261764776	3.823E-06	0.01082	0.016844	0.029175	1.052885	0.96374283	2.969552
5359	493363.09	3866377.25	0.24598	0.13336	0.0391	0.22948	0.093	0.217	0.1515	0.13336	2.56649856	0.246306008	4.071E-06	0.012088	0.043488	0.030515	1.073078	0.90682808	3.065149
5360	493863.09	3866377.25	0.19941	0.13331	0.04032	0.22681	0.064	0.238	0.1505	0.13331	2.08059793	0.246213661	4.198E-06	0.011947	0.030081	0.03353	1.066347	0.90648809	2.562233
5361	494363.09	3866377.25	0.16893	0.1457	0.03989	0.27471	0.077	0.233	0.1588	0.1457	1.76257664	0.26909707	4.153E-06	0.01447	0.036247	0.032831	1.125226	0.99073823	2.249714
5362	494863.09	3866377.25	0.19619	0.14604	0.05052	0.24206	0.086	0.204	0.1512	0.14604	2.04700119	0.269725025	5.259E-06	0.01275	0.04051	0.028637	1.071165	0.99305018	2.476744
5363	495363.09	3866377.25	0.1692	0.16449	0.06491	0.20891	0.067	0.213	0.1497	0.16449	1.76539376	0.303800804	6.758E-06	0.011004	0.031474	0.029936	1.060891	1.11850743	2.083999
5364	495863.09	3866377.25	0.15319	0.14761	0.06017	0.18815	0.05	0.189	0.1415	0.14761	1.59834911	0.272624698	6.264E-06	0.009911	0.023394	0.026565	1.002649	1.00372595	1.929774
5365	496363.09	3866377.25	0.20147	0.1453	0.02939	0.18816	0.064	0.189	0.1298	0.1453	2.10209149	0.2683583	3.06E-06	0.009911	0.029833	0.026578	0.919538	0.98801829	2.368294

5366	496863.09	3866377.25	0.19455	0.10825	0.03354	0.18321	0.082	0.185	0.1116	0.10825	2.02988981	0.199929704	3.492E-06	0.00965	0.038475	0.026025	0.790443	0.73608383	2.358332
5367	497363.09	3866377.25	0.20998	0.09607	0.03901	0.18756	0.093	0.209	0.1058	0.09607	2.19088287	0.177434149	4.061E-06	0.00988	0.043708	0.029408	0.749348	0.65326165	2.547403
5368	497863.09	3866377.25	0.20696	0.10555	0.03968	0.16459	0.082	0.221	0.1052	0.10555	2.15937289	0.194943005	4.131E-06	0.00867	0.038254	0.031113	0.745593	0.71772423	2.460226
5369	498363.09	3866377.25	0.2081	0.1057	0.04295	0.14925	0.071	0.23	0.0767	0.1057	2.17126738	0.195220044	4.471E-06	0.007862	0.03312	0.032371	0.543376	0.71874421	2.264476
5370	474494.92	3848334.16	0.30828	6.60307	0.05049	0.07719	0.115	0.087	6.6613	6.60307	3.21652239	12.1953795	5.256E-06	0.004066	0.053827	0.012289	47.19793	44.8998896	17.78013
5371	475167.27	3848920.79	0.74756	7.87964	0.05295	0.07866	0.115	0.093	7.9309	7.87964	7.79986855	14.5531094	5.512E-06	0.004143	0.05408	0.013042	56.19315	53.5803749	25.03702
5372	475297.89	3848997.96	0.7712	6.5207	0.05372	0.07935	0.117	0.094	6.5871	6.5207	8.04652286	12.04324823	5.593E-06	0.00418	0.054695	0.013235	46.67205	44.3397859	22.49415
5373	475439.05	3849062	0.89971	7.47537	0.05477	0.08017	0.117	0.095	7.5494	7.47537	9.38736655	13.80645276	5.702E-06	0.004223	0.054957	0.013332	53.49015	50.8313993	25.92509
5374	475486.86	3849061.09	0.78762	6.16184	0.0554	0.08193	0.119	0.094	6.2306	6.16184	8.21784535	11.38046048	5.767E-06	0.004316	0.055895	0.013242	44.14591	41.8995915	21.91808
5375	475538.46	3849075.56	0.74883	6.43429	0.05592	0.08321	0.121	0.094	6.4947	6.43429	7.81311944	11.88365538	5.822E-06	0.004383	0.056739	0.013225	46.01751	43.7522108	22.03642
5376	475751.79	3849137.15	0.63707	8.88702	0.0574	0.08974	0.127	0.093	9.1147	8.88702	6.64704139	16.41366539	5.976E-06	0.004727	0.059426	0.013143	64.58065	60.4304084	27.28826
5377	476303.62	3849223.38	0.4399	9.25493	0.05674	0.09709	0.121	0.083	9.2984	9.25493	4.5898151	17.09316781	5.907E-06	0.005114	0.056931	0.011663	65.88266	62.9321414	24.70722
5378	476304.51	3849238.92	0.49906	12.11742	0.0568	0.09783	0.123	0.083	12.156	12.11742	5.20707689	22.37997408	5.913E-06	0.005153	0.057907	0.011706	86.13071	82.3966458	31.39589
5379	476365.04	3849247.98	0.49651	11.03456	0.05692	0.09658	0.121	0.083	11.129	11.03456	5.18047078	20.38001215	5.926E-06	0.005087	0.056819	0.0117	78.8544	75.0333596	29.45513
5380	476444.86	3849267.13	0.49867	11.18462	0.05676	0.09505	0.122	0.083	11.34	11.18462	5.20300772	20.65716181	5.909E-06	0.005007	0.057053	0.011659	80.34835	76.0537452	30.2285
5381	476550.75	3849300.66	0.53088	12.3823	0.05661	0.09371	0.12	0.083	12.702	12.3823	5.53907943	22.86918775	5.893E-06	0.004936	0.056186	0.011734	89.99492	84.1977902	34.27826
5382	476656.71	3849346.88	0.59864	12.07104	0.05827	0.09479	0.119	0.086	12.281	12.07104	6.24607163	22.29431367	6.066E-06	0.004993	0.055872	0.012159	87.01652	82.0812687	33.54867
5383	476873.55	3849454.53	0.87048	10.55903	0.06065	0.09614	0.123	0.089	10.655	10.55903	9.08238747	19.50174358	6.314E-06	0.005064	0.057597	0.012506	75.49587	71.7998266	32.35534
5384	477700	3849859.7	1.04706	9.48256	0.06351	0.10779	0.139	0.084	9.3857	9.48256	10.9247824	17.5135835	6.612E-06	0.005678	0.065123	0.011752	66.50114	64.4799914	30.54208
5385	477743.16	3849856.38	0.91799	7.95896	0.06357	0.10665	0.14	0.083	7.9323	7.95896	9.57809585	14.69960755	6.618E-06	0.005618	0.065682	0.011697	56.20299	54.119739	26.44396
5386	478477.35	3850216.33	1.16605	8.00345	0.06087	0.10697	0.161	0.086	7.8817	8.00345	12.1662967	14.78177727	6.337E-06	0.005635	0.075519	0.012084	55.84455	54.4222644	28.4636
5387	478485.8	3850201.6	1.00046	7.03388	0.06045	0.10625	0.16	0.085	6.9909	7.03388	10.4385688	12.99105355	6.293E-06	0.005597	0.075154	0.011938	49.53333	47.8293332	25.22632
5388	479113.21	3850501.53	1.30649	6.50816	0.06183	0.10159	0.161	0.088	6.4355	6.50816	13.6316152	12.02008778	6.437E-06	0.005351	0.075585	0.012329	45.59805	44.2545158	27.08851
5389	479108.11	3850382.28	0.77182	4.23174	0.06065	0.09426	0.154	0.094	4.2409	4.23174	8.0529918	7.815709244	6.314E-06	0.004965	0.072059	0.013177	30.04831	28.7751998	17.23202
5390	479689.85	3850674.28	1.66647	4.42087	0.06152	0.08889	0.146	0.106	4.4198	4.42087	17.3875635	8.165018297	6.405E-06	0.004682	0.068509	0.014886	31.31581	30.0612556	26.89522
5391	479952.42	3850774.28	1.48477	4.09765	0.06297	0.09002	0.144	0.103	4.1	4.09765	15.4917476	7.568054981	6.556E-06	0.004742	0.067538	0.014502	29.04984	27.8634079	24.33302
5392	479911.32	3850884.85	1.36978	6.66204	0.06417	0.09265	0.156	0.11	6.5158	6.66204	14.2919685	12.30429271	6.68E-06	0.00488	0.073076	0.015531	46.16658	45.3008768	27.55546
5393	480500.92	3851178.12	1.13415	6.59908	0.06454	0.09549	0.153	0.11	6.6674	6.59908	11.8334594	12.18801027	6.719E-06	0.00503	0.071745	0.015514	47.24115	44.8727582	26.48215
5394	480738.01	3851289.27	1.09541	6.40022	0.06878	0.10375	0.151	0.102	6.5028	6.40022	11.4292552	11.82073063	7.16E-06	0.005465	0.07084	0.014297	46.07497	43.5205399	25.89502
5395	481055.42	3851443.58	1.15248	6.2853	0.07925	0.1203	0.147	0.112	6.4326	6.2853	12.0247104	11.60848193	8.25E-06	0.006337	0.068936	0.015691	45.57715	42.7391011	26.56221
5396	481110.22	3851443.15	1.0154	5.56264	0.07937	0.11576	0.147	0.112	5.6826	5.56264	10.5944493	10.27378262	8.263E-06	0.006098	0.068987	0.015722	40.26341	37.825121	23.39734
5397	481111.1	3851417.45	0.93259	5.01694	0.07961	0.11321	0.145	0.111	5.1134	5.01694	9.73042888	9.265915282	8.288E-06	0.005963	0.067759	0.015642	36.2305	34.1144425	21.20177
5398	482248.44	3852605.09	0.8651	5.7802	0.11802	0.18153	0.206	0.246	5.7499	5.7802	9.02625379	10.67559977	1.229E-05	0.009562	0.096405	0.034554	40.74033	39.3044965	21.27822
5399	482273.34	3852632.31	0.8695	5.85749	0.119	0.18309	0.207	0.252	5.8322	5.85749	9.07216238	10.81834866	1.239E-05	0.009644	0.09701	0.0354	41.32289	39.830057	21.52541
5400	482665.46	3853038.72	0.96791	5.47204	0.20451	0.2617	0.237	0.303	5.5317	5.47204	10.0989496	10.10645116	2.129E-05	0.013785	0.111195	0.042626	39.1943	37.2090545	22.35828
5401	483077.95	3853844.31	1.82025	2.87947	0.4759	1.8622	0.35	5.594	4.1439	2.87947	18.9920685	5.318167065	4.954E-05	0.09809	0.163948	0.786967	29.36088	19.5799658	35.14021
5402	483121.38	3853909.38	1.90208	2.63834	0.4678	4.63457	0.369	11.97	4.0311	2.63834	19.8458638	4.872817878	4.87E-05	0.244122	0.173111	1.68416	28.56173	17.9403179	37.44153
5403	483492.64	3853911.49	2.2231	1.53232	0.32244	3.80696	0.348	3.894	2.1892	1.53232	23.1953125	2.830081146	3.357E-05	0.200528	0.163329	0.547858	15.51148	10.4195471	32.02908
5404	483498.29	3854204.73	2.85211	1.53662	0.5858	18.04389	0.414	7.546	4.4013	1.53662	29.7582577	2.838022926	6.099E-05	0.950445	0.194231	1.061494	31.18452	10.4487864	55.53824
5405	484132.44	3854662.55	4.30163	0.52255	4.45241	19.17649	0.491	5.809	5.4176	0.52255	44.8822149	0.96511101	0.0004635	1.010104	0.230267	0.817233	38.38537	3.55326194	82.7375
5406	484627.62	3854876.13	4.54175	0.49679	4.56091	26.90919	0.512	6.136	6.0464	0.49679	47.3875716	0.917534205	0.0004748	1.417417	0.240082	0.863116	42.84085	3.37809779	90.28895
5407	484756.14	3854949.04	4.65346	0.53083	3.73171	20.58924	0.528	6.627	6.4943	0.53083	48.5531279	0.980403555	0.0003885	1.084519	0.247481	0.932217	46.01425	3.6095647	94.20282
5408	486697.51	3856599.17	5.20646	0.74234	2.26867	16.29472	5.828	4.982	3.3391	0.74234	54.3230023	1.371046804	0.0002362	0.858309	2.732964	0.700797	23.65866	5.0478011	78.59721
5409	487105.31	3856962.27	4.72048	0.91281	1.79323	16.52977	42.36	5.01	3.169	0.91281	49.2523992	1.685892223	0.0001867	0.87069	19.86206	0.704846	22.45322	6.20697164	88.62232
5410	487157.57	3856901.7	4.3304	0.86895	1.84487	9.2273	34.98	3.994	2.6437	0.86895	45.1823944	1.604886063	0.0001921	0.486039	16.40286	0.561838	18.73185	5.90873019	77.06134
5411	487173.5	3856853.74	4.16406	0.84838	1.99466	7.53638	28.5	3.609	2.4333	0.84838	43.4468413	1.566894802	0.0002077	0.396972	13.36419	0.507742	17.24074	5.76885726	70.75473
5412	487564.41	3856860.83	3.38573	0.79636	1.54195	4.11341	45.45	2.588	1.7987	0.79636	35.3259256	1.470817728	0.0001605	0.21667	21.31425	0.364067	12.74416	5.41512903	66.02092
5413	487563.31	3856931.58	3.48263	0.82985	1.57404	4.46172	49.95	2.774	1.8966	0.82985	36.3369579	1.532671269	0.0001639	0.235017	23.42226	0.39024	13.43788	5.64285603	69.71234
5414	487782.7	3856926.85	3.18384	0.85453	1.51007	3.56208	53.39	2.389	1.6397	0.85453	33.2194519	1.578253395	0.0001572	0.187629	25.03542	0.336005	11.61794	5.81067634	66.16418
5415	487782.39	3856757.07	3.0101	0.74319	1.65041	3.04007	28.47	2.115	1.4695	0.74319	31.4066889	1.37261669	0.0001718	0.160133	13.3492	0.29759	10.41187	5.05358098	51.94469
5416	487917.26	3856752.41	2.84848	0.75055	1.65624	2.80228	37.63	2.024	1.3764	0.75055	29.7203831	1.386210063	0.0001724	0.147608	17.64663	0.28476	9.752432	5.10362788	53.83457
5417	487919.57	3856953.35	3.03885	0.88135	1.44297	3.26851	61.94	2.316	1.5368	0.88135	31.7066597	1.627787941	0.0001502	0.172166	29.04381	0.325774	10.88885	5.99304834	67.77216
5418	487932.76	3857000.32	3.0941	0.89664	1.44474	3.34268	63.77	2.356	1.5735	0.89664	32.2831255	1.656027435	0.0001504	0.176073	29.90427	0.331501	11.14896	6.09701805	69.40309
5419	487960.5	3857044.75	3.11535	0.9096	1.48316	3.38593	65.33	2.397	1.5938	0.9096	32.5048431	1.679963591	0.0001544	0.178351	30.63574	0.337197	11.29258	6.18514412	70.44368
5420	488016.54	3857089.54	3.09232	0.91871	1.5274	3.37822	66.54	2.415	1.588	0.91871	32.2645534	1.696789084	0.000159	0.177945	31.2006	0.339729	11.25169	6.24709076	70.68438
5421	488114.39	3857165.47	3.07684	0.94371	1.52531	3.34521	70.64	2.468	1.5753	0.94371	32.1030386	1.742962226	0.0001588	0.176206	33.12304	0.347175	11.16136	6.41708702	72.23685
5422	488171.49	3857234.24	3.0792	0.99449	1.68467	3.38586	70.19	2.59	1.5829	0.99449	32.1276623	1.836749112	0.0001754	0.178347	32.91381	0.364349	11.21513	6.76238344	71.87384
5423	488193.16	3857297.8	3.14169	1.0469	1.67099	3.52041	66.87	2.697	1.6107	1.0469	32.7796686	1.933546486	0.000174	0.185434	31.35783	0.379363	11.41204	7.11876361	70.92929
5424	488189.27	3857649.94	3.8456	1.39936	3.5181	5.33199	48.17	4.395	2.0873	1.39936	40.1241031	2.584513909	0.0003663	0.280858	22.58876	0.618302	14.78899	9.51543895	71.47046

5425	488127.43	3857732.32	4.19028	1.44749	5.34326	7.51387	39.61	5.79	2.4278	1.44749
5426	488149.93	3857752.94	4.18437	1.4479	5.98678	7.58573	36.58	5.843	2.4259	1.4479
5427	488144.76	3857758.71	4.2152	1.44266	6.08281	7.83203	36.25	5.968	2.4524	1.44266
5428	488335.58	3857932.55	4.28199	1.65757	9.29543	7.78512	20.71	7.118	2.4081	1.65757
5429	488372.29	3857943.79	4.1992	1.658	9.06784	7.27108	19.55	6.778	2.35	1.658
5430	488828.64	3857936.4	3.29785	1.41876	6.1043	3.9618	13.05	4.354	1.6639	1.41876
5431	488829.08	3857959.58	3.35297	1.4337	6.00617	4.08433	12.18	4.351	1.6857	1.4337
5432	488351.61	3857964.55	4.3691	1.70325	9.32469	8.13793	19.49	7.306	2.4433	1.70325
5433	488316.87	3857947.65	4.42412	1.68276	9.66	8.61866	20.35	7.578	2.4804	1.68276
5434	488129.1	3857775.77	4.34549	1.43652	6.97222	8.66298	35.75	6.453	2.5208	1.43652
5435	488062.53	3857846.13	4.85848	1.5086	10.18676	18.10865	25.51	10.7	2.9994	1.5086
5436	488330.41	3858091.34	4.94056	1.96907	8.22001	18.04132	9.576	9.958	2.8993	1.96907
5437	488470.87	3858174.45	4.84854	2.109	6.54043	12.67045	10.11	8.241	2.7766	2.109
5438	488568.9	3858262.31	4.93225	2.3329	5.40428	12.91112	8.679	8.181	2.9247	2.3329
5439	488964.27	3858025.71	3.46082	1.43966	5.06895	3.99	10.25	4.131	1.6405	1.43966
5440	489147.25	3857956.64	3.13645	1.25927	4.88411	3.36116	11.86	3.572	1.4318	1.25927
5441	489343.52	3857932.45	3.22323	1.16058	4.33144	2.93432	12.99	3.192	1.2911	1.16058
5442	489866.19	3857923.19	3.07589	0.96454	3.0032	2.88304	10.92	2.536	1.0212	0.96454
5443	489955.65	3857902.27	2.89869	0.89529	2.82879	2.82864	11.78	2.388	0.961	0.89529
5444	490079.44	3857847.9	2.57612	0.87821	2.69452	2.73804	12.69	2.326	0.9314	0.87821
5445	490108.49	3857934.13	3.00297	0.88631	2.6716	3.36521	10.94	2.292	0.9385	0.88631
5446	489884.48	3858014.17	3.03529	1.00963	2.61614	3.48233	10.81	2.544	1.0516	1.00963
5447	489326.56	3858025.86	3.44198	1.23968	3.92227	3.46346	10.77	3.31	1.3524	1.23968
5448	489130.38	3858056.71	3.76823	1.34242	4.10815	3.82027	9.658	3.806	1.504	1.34242
5449	488936.49	3858143.93	4.02714	1.58625	4.31533	4.73092	8.001	4.711	1.8482	1.58625
5450	488638.08	3858327.45	4.94634	2.47075	5.11861	13.27394	7.897	8.374	2.9425	2.47075
5451	488663.79	3858349.57	4.92703	2.49291	5.20678	13.18599	7.729	8.331	2.9365	2.49291
5452	488694.56	3858349.5	4.9042	2.43723	4.94814	11.39916	8.51	7.733	2.8237	2.43723
5453	488694.35	3858336.75	4.91411	2.38973	4.79535	10.702	8.856	7.507	2.7761	2.38973
5454	488712.81	3858336.38	4.86963	2.34649	4.66959	10.07773	8.146	7.316	2.7153	2.34649
5455	488713.23	3858367.46	4.87308	2.45794	4.59809	11.45965	8.276	7.733	2.8288	2.45794
5456	488704.63	3858384.05	4.88433	2.53562	4.61619	13.05237	7.37	8.143	2.9284	2.53562
5457	488604.15	3858488.29	4.91507	3.24121	4.63824	9.65844	3.685	5.038	4.3114	3.24121
5458	488605.66	3858550.47	4.8851	3.66915	3.78277	7.89057	3.565	4.505	4.9173	3.66915
5459	488692.68	3858548.71	4.69419	3.33185	3.84772	10.6262	3.567	5.236	4.133	3.33185
5460	488759.93	3858461.81	4.45324	2.70878	3.87862	15.84727	6.039	8.643	3.0729	2.70878
5461	488816.57	3858541.79	4.61802	2.87721	3.84626	19.74175	5.042	9.956	3.2399	2.87721
5462	488944.63	3858656.77	4.51619	3.15271	2.69573	19.26012	4.618	10.07	3.26	3.15271
5463	489134.91	3858830.7	3.90951	3.54077	1.88661	23.11993	3.328	9.873	3.53	3.54077
5464	489193.99	3858886.05	3.85868	3.72713	1.84156	25.77354	3.105	9.66	3.6574	3.72713
5465	489295.2	3858954.34	3.6556	3.82501	1.86582	22.41025	2.909	9.429	3.6782	3.82501
5466	489295.64	3858992.74	3.68015	4.13265	2.06142	21.57539	2.671	10.95	3.9941	4.13265
5467	489183.74	3858911.72	3.91956	3.95149	1.89249	28.80045	3.228	10.37	3.9544	3.95149
5468	488873.37	3858625.59	4.72987	3.19495	3.03238	21.36505	4.213	9.533	3.4213	3.19495
5469	488842.84	3858658.69	4.74435	3.50271	2.65252	13.01072	3.322	5.671	3.8857	3.50271
5470	488856.39	3858670.93	4.74015	3.52737	2.56114	13.21487	3.327	5.69	3.8971	3.52737
5471	488805.7	3858724.5	4.93307	4.15041	2.44139	9.49364	3.023	4.641	4.8701	4.15041
5472	488805.87	3858804.16	5.03078	5.31622	2.13494	7.81446	3.102	4.312	7.0765	5.31622
5473	488995.78	3858936.96	4.61539	5.86696	1.83408	9.833	2.349	4.196	6.9953	5.86696
5474	489130.76	3859017.38	4.24558	6.04152	1.97331	13.60778	2.081	4.511	6.2844	6.04152
5475	489130.92	3859052.24	4.1741	7.62907	1.86145	12.09242	2.134	4.257	8.4873	7.62907
5476	489200.33	3859090.6	3.88047	7.5972	2.02788	14.17719	1.864	4.425	7.5715	7.5972
5477	489296.07	3859143.7	3.58138	7.44888	2.4199	9.37673	1.851	4.539	7.7052	7.44888
5478	489296.43	3858954.74	3.6532	3.82321	1.86617	22.23628	2.911	9.394	3.6752	3.82321
5479	489410.33	3859033.19	3.57604	3.94355	2.09326	20.50665	2.258	9.43	3.8004	3.94355
5480	489371.37	3859089.8	3.59301	4.818	2.51439	13.3635	2.33	6.357	4.6919	4.818
5481	489390.52	3859102.82	3.60775	4.85341	2.52651	13.30366	2.305	6.316	4.7181	4.85341
5482	489382.3	3859114.53	3.60745	5.14786	2.57341	12.00973	2.3	5.992	4.9852	5.14786
5483	489363.04	3859102.45	3.61691	5.11292	2.54546	12.16203	2.364	5.998	4.9756	5.11292

43.7204147	2.673406441	0.0005563	0.395786	18.57267	0.814499	17.20212	9.84271576	73.53674
43.6587511	2.674163681	0.0006233	0.399571	17.15249	0.821997	17.18838	9.8455037	72.05047
43.9804242	2.66448579	0.0006333	0.412545	16.99809	0.839618	17.37614	9.80987248	72.46206
44.6772957	3.061408587	0.0009677	0.410074	9.711232	1.001312	17.06233	11.2712284	64.65339
43.8134839	3.062202765	0.000944	0.382997	9.165504	0.953492	16.6506	11.2741523	62.75507
34.409006	2.620344267	0.0006355	0.208684	6.118945	0.612546	11.78947	9.64735605	46.11228
34.9841153	2.647937336	0.0006253	0.215138	5.709621	0.612086	11.94408	9.74894582	46.36465
45.5861813	3.145776151	0.0009708	0.428658	9.137603	1.0278	17.31187	11.5818456	65.05702
46.1602473	3.107932644	0.0010057	0.45398	9.54379	1.066092	17.57425	11.4425166	66.46478
45.33984	2.653145667	0.0007259	0.456314	16.76264	0.907791	17.86078	9.7681214	74.21311
50.6922593	2.786272069	0.0010605	0.953856	11.96105	1.505816	21.25148	10.2582546	78.89354
51.5486631	3.636725933	0.0008558	0.95031	4.490183	1.400886	20.54237	13.3893818	69.18062
50.5885476	3.895166243	0.0006809	0.667404	4.738621	1.159308	19.67286	14.3408849	66.3817
51.4619585	4.308692901	0.0005626	0.680081	4.069778	1.150919	20.7227	15.8633715	66.53132
36.1093974	2.658945013	0.0005277	0.21017	4.807716	0.581155	11.62353	9.78947293	46.20197
32.7249956	2.325778091	0.0005085	0.177046	5.562924	0.502559	10.14503	8.56284788	42.876
33.6304381	2.143504997	0.0004509	0.154563	6.090547	0.449007	9.147909	7.89177062	43.72465
32.0931266	1.781433688	0.0003127	0.151861	5.122764	0.356709	7.235429	6.55872791	40.18291
30.2442626	1.653534085	0.0002945	0.148996	5.525223	0.335889	6.809032	6.08783825	38.62939
26.8786417	1.621988595	0.0002805	0.144224	5.949862	0.327234	6.599376	5.97169681	35.54991
31.3322961	1.636948693	0.0002781	0.177259	5.130571	0.322474	6.649469	6.0267756	39.22252
31.6695155	1.864711566	0.0002724	0.183429	5.070479	0.357873	7.450965	6.86533317	39.73191
35.9128251	2.289596817	0.0004083	0.182435	5.051258	0.465616	9.582242	8.42963881	45.05474
39.3168424	2.479349961	0.0004277	0.201229	4.529023	0.535411	10.65645	9.12825546	48.59048
42.0182496	2.929685848	0.0004493	0.249197	3.75201	0.662697	13.09481	10.786263	51.92083
51.6089703	4.563291605	0.0005329	0.699193	3.703041	1.178079	20.84882	16.8007309	65.80119
51.4074942	4.604219478	0.0005421	0.69456	3.624094	1.171964	20.8063	16.9514156	65.35776
51.1692912	4.501382656	0.0005151	0.60044	3.990451	1.087879	20.00722	16.5727999	64.78438
51.2726899	4.413653687	0.0004992	0.563718	4.152823	1.055991	19.66967	16.249807	64.87924
50.8085958	4.333792621	0.0004861	0.530835	3.819628	1.029121	19.23867	15.9557815	63.80534
50.8445923	4.539632487	0.0004787	0.603626	3.880982	1.08782	20.04321	16.7136248	64.28672
50.9619722	4.683101673	0.0004806	0.687522	3.4557	1.145558	20.74891	17.2418372	64.44141
51.2827063	5.986273958	0.0004829	0.508749	1.727864	0.70867	30.54804	22.0397438	68.72304
50.9700062	6.77664733	0.0003938	0.415628	1.671777	0.633754	34.84084	24.9496719	70.35938
48.9780954	6.153679301	0.0004006	0.559725	1.672799	0.736636	29.28373	22.6560823	64.72898
46.4640787	5.002915322	0.0004038	0.83474	2.831892	1.21581	21.77232	18.4192993	59.70286
48.1833552	5.313993013	0.0004004	1.039878	2.364187	1.400611	22.95614	19.5645982	61.69397
47.1208844	5.822821036	0.0002806	1.014509	2.1653	1.416834	23.09792	21.437957	59.20059
40.7909253	6.539539013	0.0001964	1.217821	1.560441	1.388869	25.01139	24.0767071	52.43248
40.2605768	6.883732081	0.0001917	1.357597	1.455966	1.358984	25.91379	25.3439272	51.88691
38.1416869	7.064509166	0.0001942	1.180439	1.364302	1.326487	26.06116	26.0094966	49.12928
38.397836	7.632697379	0.0002146	1.136464	1.25246	1.540357	28.29971	28.1014026	50.15834
40.8957847	7.298108325	0.000197	1.517037	1.513479	1.459016	28.01821	26.8695417	53.83229
49.3503722	5.900835177	0.0003157	1.125384	1.975571	1.341047	24.24107	21.7251827	62.20942
49.5014532	6.469245021	0.0002761	0.685328	1.557918	0.797719	27.53173	23.8179047	62.72576
49.4576314	6.514790209	0.0002666	0.696081	1.559893	0.8004	27.6125	23.9855891	62.65597
51.4705142	7.665498779	0.0002542	0.500069	1.41773	0.652903	34.50613	28.222168	67.99093
52.4899978	9.818663197	0.0002223	0.411619	1.454376	0.606645	50.1397	36.1495018	78.77172
48.1559143	10.83583904	0.0001909	0.517944	1.101697	0.590308	49.56401	39.8944515	70.87145
44.2974021	11.15823839	0.0002054	0.716777	0.975783	0.634524	44.52696	41.0814335	61.22845
43.5515963	14.09032524	0.0001938	0.636957	1.0008	0.598793	60.13537	51.8765363	68.1375
40.4879286	14.03146372	0.0002111	0.74677	0.87384	0.622468	53.64702	51.6598251	58.74988
37.3672926	13.7575277	0.0002519	0.493911	0.867965	0.638523	54.59419	50.6512712	57.06839
38.1166459	7.061184699	0.0001943	1.171275	1.364836	1.321562	26.04033	25.9972569	49.07877
37.3115763	7.283443735	0.0002179	1.080169	1.058623	1.326575	26.92692	26.8155509	48.17198
37.4886373	8.898487889	0.0002618	0.70391	1.092652	0.89425	33.24352	32.7616802	49.56004
37.6424311	8.963887527	0.000263	0.700758	1.080877	0.888556	33.42937	33.002463	49.70368
37.6393009	9.507714791	0.0002679	0.632601	1.078552	0.842947	35.32222	35.004679	50.01893
37.7380044	9.443183208	0.000265	0.640624	1.108694	0.843794	35.25371	34.7670922	50.26118

5484	489337.52	3859140.71	3.58986	6.30832	2.48449	10.00641	2.131	4.983	6.0498	6.30832
5485	489375.14	3859164.55	3.5486	6.40838	2.62783	9.73985	2.209	5.012	6.2473	6.40838
5486	489409.3	3859114.5	3.56404	4.87388	2.51333	13.32921	2.286	6.323	4.7362	4.87388
5487	489434.87	3859131.81	3.52986	4.9244	2.8416	13.22096	2.259	6.351	4.7989	4.9244
5488	489471.87	3859075.75	3.43413	4.00309	2.48203	20.96824	2.096	9.63	3.9041	4.00309
5489	489602.62	3859164.69	3.60401	4.13393	4.3199	18.1667	1.844	9.71	4.0058	4.13393
5490	489558.29	3859232.45	3.46618	5.5721	5.69873	11.53147	1.918	5.872	5.4118	5.5721
5491	489620.11	3859273.56	3.35547	5.68041	9.35479	11.24003	1.908	5.82	5.5921	5.68041
5492	489666.06	3859206.42	3.46265	4.19979	6.83969	18.50031	1.701	9.51	4.1209	4.19979
5493	489787.9	3859285.65	3.49604	4.30894	13.08158	17.98087	1.581	8.925	4.2759	4.30894
5494	489752.17	3859343.13	3.25904	5.64039	27.05696	12.07231	1.641	6.421	5.5884	5.64039
5495	489814.94	3859385.33	3.16745	5.81254	58.69889	11.52272	1.545	6.428	5.7792	5.81254
5496	489853.42	3859330.74	3.28317	4.43404	24.38448	18.06099	1.556	8.814	4.3861	4.43404
5497	489969.5	3859401.91	3.33715	4.55411	45.49774	19.30676	1.516	8.931	4.5259	4.55411
5498	490166.91	3859486.96	3.23439	4.3554	20.05614	18.54294	1.139	9.628	4.3515	4.3554
5499	490128.86	3859571.46	2.82835	6.39197	13.96771	10.21326	1.262	5.415	6.3019	6.39197
5500	490186.65	3859593.65	2.7481	6.5433	11.72226	10.56023	1.115	5.686	6.5217	6.5433
5501	490223.74	3859517.48	3.07625	4.58241	16.63876	20.16212	1.12	9.915	4.5207	4.58241
5502	490846.34	3859817.22	2.79277	5.13363	4.64899	20.44786	0.886	8.499	5.2922	5.13363
5503	490925.65	3859844.59	2.69291	4.79143	4.23875	20.53167	0.891	8.308	4.7935	4.79143
5504	491159.29	3859896.28	2.5977	4.31189	3.80058	22.33546	0.846	8.461	4.3967	4.31189
5505	491370.69	3859960.89	2.6226	3.91889	3.15043	21.53357	0.897	8.812	3.8566	3.91889
5506	491330.28	3860063.17	2.46788	5.4278	2.28121	7.07262	0.804	5.509	5.3218	5.4278
5507	491636.45	3860180.75	2.3272	3.8832	1.82777	5.44932	0.755	4.691	3.938	3.8832
5508	491617.94	3860203.93	2.40449	4.19404	1.68239	4.63339	0.71	4.06	4.2292	4.19404
5509	491805.68	3860271.59	2.36179	3.55759	1.50051	3.95716	0.767	3.873	3.5814	3.55759
5510	491654.23	3860414.02	1.94859	7.22094	0.7239	2.4564	0.701	2.505	7.7383	7.22094
5511	491592.62	3860510.76	1.37917	4.34451	0.64313	2.18261	0.675	2.227	4.2655	4.34451
5512	491475.41	3860368.93	1.59659	5.08401	0.81499	2.73998	0.705	2.386	5.1384	5.08401
5513	491445.61	3860337.28	1.63538	5.35327	0.83478	2.88442	0.712	2.412	5.3838	5.35327
5514	491399.05	3860300.37	1.70447	5.26722	0.86542	3.18815	0.72	2.501	5.4357	5.26722
5515	491228.84	3860235.98	1.60902	3.84807	0.98634	3.58442	0.727	2.632	3.9769	3.84807
5516	491228.47	3860174.57	1.69525	5.10381	1.23264	4.04727	0.749	2.927	5.287	5.10381
5517	491145.77	3860112.55	1.82813	4.96087	1.59237	4.7943	0.766	3.382	5.1872	4.96087
5518	490844.41	3859966.22	1.90163	5.86308	2.3594	6.84336	0.905	4.544	5.5741	5.86308
5519	490845.55	3859928.15	2.03047	8.64197	2.94231	8.47878	0.832	5.634	8.0342	8.64197
5520	490046.91	3859625.6	2.56703	6.77838	7.28747	7.44149	1.326	3.856	6.8629	6.77838
5521	489970.48	3859589.4	2.63496	6.78788	9.32437	7.28296	1.453	3.846	6.5174	6.78788
5522	489865.89	3859529.06	2.7207	7.31766	16.29519	7.39092	1.599	3.992	7.5748	7.31766
5523	489826.89	3859531.74	2.61233	6.02496	14.7572	6.87901	1.5	3.817	5.8845	6.02496
5524	489410.47	3859303.06	3.01019	6.27593	4.80878	6.86092	1.507	3.768	5.9264	6.27593
5525	489407.15	3859286.09	3.02178	6.89532	4.50754	7.11002	1.552	3.872	6.3838	6.89532
5526	488806.07	3858963.62	4.96611	6.4126	1.53212	6.3782	2.197	4.241	4.4822	6.4126
5527	488817.64	3859546.3	4.32225	1.68289	0.99904	3.70102	0.748	3.671	1.5738	1.68289
5528	489187.25	3859549.52	3.83418	2.12068	2.04098	10.62605	1.763	2.856	2.0802	2.12068
5529	489187.66	3859523.74	3.62944	2.22887	2.07394	10.70383	1.741	2.862	2.1684	2.22887
5530	489232.59	3859522.85	3.59756	2.31986	2.4733	10.79198	1.612	2.883	2.2722	2.31986
5531	489224.98	3859759.91	3.55601	1.66832	2.45867	11.07617	1.315	2.742	1.6427	1.66832
5532	488401.39	3859763.34	3.87802	1.18528	1.24757	2.34068	0.391	7.397	1.0768	1.18528
5533	488405.51	3859966.16	3.58135	1.06845	1.00933	2.24494	0.33	7.017	0.9842	1.06845
5534	489202.85	3859956.57	3.5129	1.46074	1.01521	7.17333	0.842	2.891	1.3418	1.46074
5535	489191.9	3860676.74	3.37923	0.84252	0.73092	12.64895	0.328	2.569	0.8031	0.84252
5536	488392.82	3860687.88	3.02183	0.71096	0.35268	1.88256	0.145	12.05	0.6738	0.71096
5537	488392.82	3860760.27	2.72207	0.7068	0.35096	1.82833	0.133	5.551	0.6647	0.7068
5538	487549.05	3860777.45	2.2745	0.60268	0.30361	1.20872	0.167	2.972	0.5419	0.60268
5539	487554.62	3859571.83	3.82233	1.00542	0.47376	1.59963	0.406	6.664	0.8296	1.00542
5540	485949.46	3859558.54	1.84423	0.69062	0.53794	0.98773	1.039	2.421	0.5223	0.69062
5541	485947.55	3857943.61	3.54978	1.64238	0.94169	1.24886	5.422	5.545	0.8439	1.64238
5542	484738.38	3857940.21	1.97268	0.90249	0.40019	0.89128	2.555	1.56	0.5794	0.90249

37.4557709	11.65099816	0.0002587	0.527078	0.999075	0.701013	42.86509	42.8956336	51.30365
37.0252736	11.83580154	0.0002736	0.513038	1.035688	0.705071	44.26437	43.5760267	51.80349
37.186371	9.001694095	0.0002617	0.702104	1.072085	0.889541	33.55747	33.1416559	49.26787
36.8297448	9.09500078	0.0002958	0.696402	1.059152	0.89345	34.00173	33.4851844	49.09059
35.8309201	7.393409689	0.0002584	1.104483	0.982798	1.354712	27.66203	27.220414	47.10819
37.6034088	7.635061444	0.0004497	0.956914	0.864739	1.365963	28.38254	28.1101064	48.69897
36.1653224	10.29125454	0.0005933	0.60741	0.899157	0.826099	38.34456	37.8894476	49.24494
35.0101998	10.49129506	0.0009739	0.592058	0.894688	0.818731	39.62183	38.6259394	48.80384
36.1284912	7.756699969	0.0007121	0.974487	0.797397	1.337863	29.19828	28.5579446	47.63598
36.4768747	7.958291906	0.0013619	0.947126	0.741352	1.255524	30.29601	29.3001483	48.37639
34.0040714	10.41738109	0.0028168	0.635898	0.769271	0.903302	39.59548	38.3538094	47.97441
33.0484425	10.73532935	0.0061109	0.606949	0.724335	0.904257	40.94786	39.5244037	47.44888
34.2558382	8.189342308	0.0025386	0.951346	0.729479	1.239905	31.07682	30.1508096	46.29446
34.8190531	8.411102673	0.0047366	1.016966	0.710928	1.256405	32.06728	30.9672677	47.3192
33.746879	8.044100073	0.002088	0.976732	0.533949	1.354391	30.83195	29.6160694	45.87402
29.5103513	11.80549349	0.0014541	0.537974	0.591612	0.761745	44.65088	43.4644411	44.39507
28.6730413	12.08498875	0.0012204	0.55625	0.523004	0.799856	46.20824	44.4934625	44.35314
32.0968827	8.46337067	0.0017322	1.062021	0.525175	1.394832	32.03072	31.1597034	44.41503
29.1391178	9.481433039	0.000484	1.077072	0.415627	1.195644	37.49708	34.9079171	43.89854
28.0972016	8.849415074	0.0004413	1.081487	0.417896	1.168789	33.96332	32.5810082	40.99754
27.1038024	7.963740337	0.0003957	1.1765	0.396588	1.190252	31.15242	29.3202079	39.66349
27.3636033	7.237898548	0.000328	1.134261	0.420696	1.239646	27.32562	26.6478666	38.07418
25.7492905	10.02474316	0.0002375	0.372544	0.377133	0.775018	37.70673	36.9082292	38.09747
24.2814678	7.17198177	0.0001903	0.287038	0.353964	0.659927	27.90194	26.4051799	34.25133
25.0878939	7.746080146	0.0001751	0.24406	0.333073	0.571106	29.96512	28.5188455	35.42867
24.6423719	6.570604302	0.0001562	0.20844	0.359628	0.54478	25.3753	24.1910805	33.5102
20.3311385	13.33653946	7.536E-05	0.129389	0.328534	0.352417	54.82843	49.1013133	40.20521
14.3899416	8.023987052	6.695E-05	0.114967	0.316605	0.313279	30.22246	29.542019	23.83929
16.6584517	9.389788587	8.485E-05	0.144326	0.330635	0.335685	36.40728	34.5705085	28.69574
17.0631776	9.887091793	8.691E-05	0.151934	0.333842	0.339379	38.14609	36.4014363	29.52017
17.7840467	9.728163839	9.01E-05	0.167933	0.337819	0.35176	38.5139	35.8163091	31.0674
16.7881434	7.107099272	0.0001027	0.188806	0.340717	0.370288	28.17756	26.1663011	26.80641
17.6878474	9.426357715	0.0001283	0.213186	0.35131	0.411764	37.46023	34.7051456	30.84568
19.0742866	9.16235816	0.0001658	0.252535	0.358986	0.475795	36.75283	33.7331749	32.34378
19.8411687	10.82867297	0.0002456	0.360468	0.424466	0.639253	39.49465	39.8680681	31.72086
21.1854555	15.96107625	0.0003063	0.446612	0.390366	0.7925	56.92506	58.764105	36.93727
26.7837987	12.51916404	0.0007587	0.391974	0.621871	0.542416	48.62612	46.0919714	43.39413
27.4925647	12.53670983	0.0009707	0.383623	0.681302	0.541047	46.17827	46.15657	41.65792
28.387156	13.51517411	0.0016964	0.38931	0.749703	0.561535	53.66984	49.7589948	47.51542
27.2564485	11.1276533	0.0015363	0.362345	0.703168	0.537	41.69388	40.9688279	40.7132
31.4076279	11.59117623	0.0005006	0.361393	0.706596	0.530047	41.99075	42.6753865	43.91271
31.5285553	12.73514353	0.0004693	0.374514	0.727889	0.544675	45.23131	46.8871459	44.25541
51.8152459	11.84359557	0.0001595	0.335966	1.029981	0.596588	31.75822	43.604722	53.77503
45.0973592	3.108172745	0.000104	0.194948	0.350719	0.516454	11.1508	11.4434006	48.97516
40.0049495	3.916738335	0.0002125	0.559717	0.82692	0.401702	14.73925	14.4203072	46.02918
37.8687395	4.116557223	0.0002159	0.563814	0.816234	0.402673	15.36411	15.155983	43.97636
37.536111	4.28460899	0.0002575	0.568458	0.755799	0.405589	16.09964	15.7747014	43.87576
37.1025879	3.081263038	0.000256	0.583427	0.616544	0.385772	11.63891	11.3443268	42.06443
40.4623659	2.189124061	0.0001299	0.123293	0.183493	1.040638	7.629162	8.05972693	43.56848
37.3669796	1.973347735	0.0001051	0.11825	0.15457	0.987161	6.973129	7.26530039	40.30824
36.6527881	2.697878206	0.0001057	0.377849	0.394942	0.406667	9.506783	9.93281378	40.1042
35.2581061	1.556071817	7.609E-05	0.666272	0.153852	0.361417	5.690324	5.72901014	37.95711
31.529077	1.313090276	3.672E-05	0.099162	0.068064	1.694704	4.7744	4.83442179	34.64411
28.4014503	1.305407065	3.654E-05	0.096306	0.062188	0.780842	4.709498	4.80613441	30.54959
23.7316082	1.113105164	3.161E-05	0.063668	0.078136	0.418039	3.83984	4.09813397	25.14629
39.8813093	1.856936009	4.932E-05	0.084259	0.190391	0.937435	5.877944	6.8367058	41.99162
19.2422703	1.275523808	5.6E-05	0.052028	0.487399	0.340565	3.700684	4.69611283	20.40241
37.0375855	3.033353786	9.804E-05	0.065783	2.542489	0.780003	5.979478	11.1679386	38.27085
20.582488	1.66683195	4.166E-05	0.046947	1.19799	0.219447	4.104975	6.13679718	21.68192

5543	484737.06	3857535.68	2.51388	1.08974	0.53647	0.9267	1.964	1.955	0.6608	1.08974	26.2292439	2.012668782	5.585E-05	0.048813	0.920929	0.274965	4.681865	7.41006921	26.75847
5544	483730.2	3857530.13	2.09834	0.76128	0.38817	0.73275	1.247	1.233	0.5324	0.76128	21.8935954	1.406027576	4.041E-05	0.038597	0.584883	0.173419	3.772175	5.17659027	22.69215
5545	483727.27	3857130.01	3.36559	0.87453	0.54631	0.74748	1.022	1.533	0.5479	0.87453	35.1157895	1.615191908	5.687E-05	0.039373	0.479231	0.215667	3.882353	5.94667336	35.40099
5546	483124.42	3857123.45	2.3451	0.71063	0.63389	0.68337	0.852	1.193	0.5283	0.71063	24.4682323	1.31248079	6.599E-05	0.035996	0.399721	0.167761	3.742842	4.83217784	25.29492
5547	483111.13	3855921.03	3.67451	1.1945	0.62394	0.90844	0.649	1.948	0.6442	1.1945	38.3389895	2.206152715	6.496E-05	0.047851	0.304221	0.274081	4.564673	8.12242156	37.61361
5548	482701.73	3855918.24	2.86413	0.96332	0.63326	0.8255	0.524	1.537	0.6235	0.96332	29.8836716	1.779180439	6.593E-05	0.043482	0.245934	0.216206	4.417935	6.55043209	30.03604
5549	482668.02	3853521.78	1.15767	3.0083	0.23196	0.46014	0.304	0.559	2.8986	3.0083	12.0788617	5.5561065	2.415E-05	0.024237	0.142739	0.078597	20.53756	20.4559906	17.96213
5550	482579.91	3853219.19	0.95623	3.22614	0.17541	0.33853	0.276	0.363	3.2647	3.22614	9.97708319	5.958440788	1.826E-05	0.017832	0.129637	0.051074	23.13129	21.9372701	17.32811
5551	482434.06	3852961.94	0.89423	4.34578	0.14461	0.25583	0.248	0.306	4.4369	4.34578	9.33018949	8.026332648	1.505E-05	0.013476	0.116226	0.042991	31.43711	29.5506548	19.41568
5552	482332.11	3852832.85	0.89606	4.80543	0.13118	0.22869	0.235	0.279	4.8317	4.80543	9.34928329	8.875272033	1.366E-05	0.012046	0.110187	0.039312	34.23441	32.6762061	19.94432
5553	481334.99	3851818.96	0.78382	4.25413	0.08672	0.13526	0.167	0.127	4.2989	4.25413	8.17819703	7.85706191	9.028E-06	0.007125	0.078525	0.017923	30.45912	28.9274485	17.67051
5554	481127.62	3851646.36	0.84912	4.33986	0.08196	0.11947	0.162	0.119	4.3435	4.33986	8.85952216	8.015398848	8.533E-06	0.006293	0.07596	0.016807	30.77512	29.5103997	18.23871
5555	481025.04	3851591.73	0.90156	4.18311	0.0788	0.11338	0.163	0.119	4.2918	4.18311	9.40666902	7.725893249	8.204E-06	0.005972	0.076312	0.016674	30.40867	28.4445231	19.19567
5556	480513.6	3851335.76	0.93801	4.59109	0.06726	0.10493	0.165	0.12	4.6642	4.59109	9.78697991	8.479401985	7.002E-06	0.005527	0.077404	0.016922	33.04719	31.2187261	20.1947
5557	480523.56	3851317.66	1.02078	5.15916	0.06663	0.10287	0.162	0.12	5.2222	5.15916	10.650583	9.528585051	6.937E-06	0.005419	0.076101	0.016871	37.0011	35.0815173	22.19715
5558	476921.56	3849569.11	0.83148	4.95218	0.06049	0.09658	0.127	0.091	4.9769	4.95218	8.67547047	9.146308376	6.297E-06	0.005087	0.059726	0.012783	35.2632	33.6740842	19.4885
5559	476521.19	3849373.96	0.92582	6.00081	0.05775	0.09917	0.125	0.086	6.0298	6.00081	9.65979226	11.08305004	6.012E-06	0.005224	0.058498	0.01206	42.72359	40.8046116	22.73761
5560	476391.45	3849333.38	0.87022	6.2838	0.05728	0.09886	0.13	0.086	6.3247	6.2838	9.07967469	11.60571154	5.963E-06	0.005207	0.060814	0.012092	44.81306	42.7289013	22.84767
5561	476219.41	3849304.29	0.82519	5.83831	0.05963	0.09688	0.133	0.089	5.8927	5.83831	8.60984206	10.78292462	6.208E-06	0.005103	0.062446	0.012585	41.75198	39.6996358	21.52525
5562	475679.11	3849218.47	0.89357	5.35159	0.05626	0.0832	0.122	0.097	5.3694	5.35159	9.3233032	9.883988958	5.857E-06	0.004382	0.057185	0.013651	38.04392	36.3900125	20.93643
5563	475677.71	3849233.88	0.86144	4.77751	0.05608	0.08271	0.121	0.097	4.7983	4.77751	8.9880662	8.823705868	5.838E-06	0.004357	0.056917	0.013712	33.9979	32.4863543	19.39831
5564	475492.74	3849204.66	0.7474	3.49362	0.05424	0.08056	0.12	0.096	3.5206	3.49362	7.79819915	6.452456467	5.647E-06	0.004243	0.056313	0.013464	24.94465	23.7560941	15.51324
5565	475497.64	3849158.75	1.16781	6.49735	0.05464	0.08098	0.118	0.096	6.5631	6.49735	12.1846601	12.00012252	5.688E-06	0.004266	0.055393	0.013489	46.50221	44.1810094	26.57914
5566	475391.35	3849141.94	0.8277	5.39821	0.05407	0.08191	0.12	0.095	5.4186	5.39821	8.63603082	9.970092633	5.629E-06	0.004315	0.056111	0.013361	38.39252	36.7070216	20.36542
5567	475277	3849095.47	0.70266	5.13613	0.05293	0.08184	0.12	0.095	5.1753	5.13613	7.33139231	9.486050353	5.51E-06	0.004311	0.05613	0.013337	36.66873	34.9249167	18.63504
5568	475183.93	3849025.66	0.67855	5.04184	0.05253	0.08116	0.118	0.093	5.1035	5.04184	7.07983414	9.311903731	5.469E-06	0.004275	0.055487	0.013086	36.15993	34.2837588	18.34076
5569	474453.23	3848378.77	0.39931	5.97232	0.04993	0.07486	0.111	0.088	6.0198	5.97232	4.16630841	11.03043113	5.198E-06	0.003943	0.051942	0.012312	42.65253	40.6108838	17.30658
5570	474569.63	3848399.34	0.32266	6.72426	0.05075	0.07678	0.114	0.088	6.7878	6.72426	3.36655999	12.41920842	5.283E-06	0.004044	0.053687	0.012365	48.09415	45.7239635	18.22606
5571	474644.33	3848464.52	0.41541	6.89189	0.05102	0.07709	0.114	0.088	6.9791	6.89189	4.33429209	12.72880857	5.311E-06	0.004061	0.053546	0.012448	49.44973	46.8638224	19.71906
5572	474719.04	3848529.7	0.43614	6.99409	0.05128	0.07737	0.114	0.089	7.1389	6.99409	4.55058413	12.91756438	5.339E-06	0.004075	0.053419	0.012544	50.58154	47.5587672	20.56097
5573	474793.74	3848594.88	0.45917	7.1121	0.05156	0.07707	0.114	0.09	7.2974	7.1121	4.79087383	13.13552007	5.368E-06	0.00406	0.053354	0.01259	51.705	48.3612175	21.34018
5574	474868.45	3848660.07	0.50607	7.12686	0.05184	0.07695	0.114	0.09	7.3022	7.12686	5.28021761	13.1627807	5.397E-06	0.004053	0.053274	0.012673	51.73844	48.4615833	21.78986
5575	474943.15	3848725.25	0.54565	7.26749	0.05212	0.07685	0.113	0.091	7.3776	7.26749	5.6931862	13.42251385	5.426E-06	0.004048	0.053204	0.012764	52.27289	49.4178463	22.04076
5576	475017.86	3848790.43	0.57237	7.49747	0.0524	0.07677	0.113	0.091	7.5503	7.49747	5.97197652	13.84726982	5.455E-06	0.004044	0.053157	0.012856	53.4966	50.981676	22.40423
5577	475092.56	3848855.61	0.64483	7.56426	0.05267	0.07753	0.114	0.092	7.6189	7.56426	6.72800744	13.97062599	5.483E-06	0.004084	0.053358	0.012949	53.9823	51.435838	23.31549
5578	475232.58	3848959.38	0.74287	6.5881	0.05333	0.07902	0.116	0.093	6.6271	6.5881	7.75093418	12.16773102	5.552E-06	0.004162	0.054399	0.013138	46.95547	44.7980958	22.14774
5579	475368.47	3849029.98	0.78485	6.77755	0.05421	0.07941	0.117	0.095	6.8529	6.77755	8.18894381	12.51763109	5.644E-06	0.004183	0.054849	0.013332	48.55513	46.0863275	23.24774
5580	475609.57	3849096.09	0.69814	7.07764	0.0565	0.08512	0.123	0.094	7.1732	7.07764	7.28423168	13.07187501	5.882E-06	0.004484	0.057879	0.013201	50.82492	48.1268947	23.1297
5581	475680.68	3849116.62	0.62168	7.52486	0.05694	0.08787	0.125	0.094	7.6036	7.52486	6.48646568	13.89785711	5.928E-06	0.004628	0.058835	0.013174	53.87411	51.1679239	23.16715
5582	475843.76	3849151.52	0.5853	9.20339	0.05792	0.09322	0.128	0.093	9.3308	9.20339	6.10688515	16.99797726	6.03E-06	0.00491	0.060247	0.013114	66.11201	62.5816771	26.71348
5583	475935.73	3849165.89	0.53932	8.26837	0.0583	0.09509	0.129	0.091	8.4251	8.26837	5.62714044	15.27106482	6.069E-06	0.005009	0.060631	0.01274	59.69494	56.2236808	24.44785
5584	476027.7	3849180.26	0.54073	8.00384	0.05866	0.09566	0.131	0.088	8.1067	8.00384	5.64185206	14.78249757	6.107E-06	0.005039	0.061466	0.012364	57.43868	54.4249163	23.51699
5585	476119.68	3849194.64	0.5653	9.04721	0.05609	0.0956	0.132	0.084	9.1249	9.04721	5.89820977	16.70952441	5.839E-06	0.005036	0.061752	0.011851	64.65321	61.5196765	25.81991
5586	476211.65	3849209.01	0.49126	9.31893	0.05641	0.09734	0.126	0.083	9.3628	9.31893	5.12569349	17.21137105	5.873E-06	0.005127	0.05922	0.011721	66.33875	63.3673319	25.38455
5587	476497.8	3849283.9	0.51304	12.05418	0.0564	0.09436	0.121	0.083	12.261	12.05418	5.35294099	22.2631745	5.872E-06	0.00497	0.056749	0.011693	86.87035	81.9666233	32.59326
5588	476603.73	3849323.77	0.55109	13.92779	0.05736	0.09424	0.119	0.085	14.113	13.92779	5.74994591	25.72359291	5.972E-06	0.004964	0.055942	0.011966	99.99591	94.7068914	36.83544
5589	476728.99	3849382.76	0.68827	11.37909	0.05927	0.09524	0.119	0.088	11.572	11.37909	7.18125037	21.01633345	6.17E-06	0.005017	0.056003	0.012409	81.99038	77.3761121	32.88528
5590	476801.27	3849418.65	0.77898	10.84669	0.05974	0.09568	0.12	0.089	10.971	10.84669	8.12769758	20.03303022	6.219E-06	0.00504	0.056392	0.012534	77.7359	73.7558716	32.21473
5591	476956.2	3849495.05	0.87472	10.07008	0.06119	0.09665	0.123	0.089	10.084	10.07008	9.12662665	18.59868927	6.37E-06	0.005091	0.057822	0.012453	71.45168	68.4750397	30.77733
5592	477038.84	3849535.56	0.88335	10.08893	0.06126	0.0974	0.124	0.088	10.061	10.08893	9.21667008	18.63350382	6.378E-06	0.00513	0.058033	0.012325	71.28589	68.6032168	30.60834
5593	477121.48	3849576.08	0.88537	10.00884	0.061	0.10055	0.126	0.087	9.9183	10.00884	9.2377463	18.48558355	6.35E-06	0.005296	0.058877	0.012228	70.27438	68.0586168	30.0155
5594	477204.13	3849616.6	0.9159	9.96702	0.0611	0.10298	0.129	0.086	9.9237	9.96702	9.55628927	18.40834511	6.361E-06	0.005424	0.060373	0.012123	70.31328	67.774247	30.58159
5595	477286.78	3849657.12	0.93492	9.54981	0.06188	0.10299	0.131	0.085	9.5376	9.54981	9.75473956	17.63778925	6.442E-06	0.005425	0.061593	0.011963	67.57755	64.9372814	30.11178
5596	477369.42	3849697.63	0.9478	9.85734	0.06217	0.10552	0.137	0.085	9.8534	9.85734	9.88912651	18.20577431	6.472E-06	0.005558	0.064087	0.011935	69.81504	67.0284394	30.96308
5597	477452.07	3849738.15	0.95085	10.03547	0.06249	0.10564	0.137	0.084	10.013	10.03547	9.92094951	18.53476718	6.506E-06	0.005564	0.064336	0.011848	70.94848	68.2396968	31.24626
5598	477534.71	3849778.67	0.98507	9.86738	0.06278	0.10739	0.138	0.084	9.8546	9.86738	10.2779931	18.22431744	6.536E-06	0.005657	0.064612	0.011801	69.82347	67.0967099	31.31114
5599	477617.35	3849819.18	1.01503	10.07755	0.06308	0.1076	0.138	0.083	10.038	10.07755	10.5905888	18.61248581	6.567E-06	0.005668	0.064856	0.01172	71.12462	68.5258345	31.88411
5600	477824.74	3849896.37	0.98602	7.56762	0.06366	0.10675	0.143	0.083	7.5592	7.56762	10.2879052	13.97683166	6.627E-06	0.005623	0.066873	0.011717	53.55987	51.4586855	26.45014
5601	477906.31	3849936.37	1.02836	7.95107	0.0637	0.10661	0.143	0.084	7.8962	7.95107	10.729671	14.6850353	6.632E-06	0.005616	0.067088	0.01188	55.94714	54.0660882	27.38035

5602	477987.89	3849976.36	1.03231	7.79787	0.06387	0.10757	0.145	0.086	7.789	7.79787
5603	478069.47	3850016.36	1.04612	7.99972	0.06338	0.10689	0.146	0.087	7.934	7.99972
5604	478151.04	3850056.35	1.06077	7.95911	0.06257	0.10643	0.147	0.087	7.8758	7.95911
5605	478232.62	3850096.35	1.06298	8.05978	0.0617	0.10636	0.147	0.086	7.9765	8.05978
5606	478314.2	3850136.34	1.06676	8.0108	0.06132	0.10683	0.15	0.086	7.9191	8.0108
5607	478395.77	3850176.34	1.09228	7.98272	0.0612	0.10711	0.156	0.086	7.8745	7.98272
5608	478575.43	3850244.45	1.04311	6.93891	0.06021	0.10622	0.16	0.085	6.9038	6.93891
5609	478665.06	3850287.29	1.08679	6.86971	0.05994	0.10602	0.161	0.085	6.7877	6.86971
5610	478754.69	3850330.14	1.10992	6.7542	0.05964	0.10569	0.161	0.085	6.6707	6.7542
5611	478844.32	3850372.99	1.12883	6.59335	0.0603	0.10518	0.161	0.085	6.4895	6.59335
5612	478933.95	3850415.84	1.1916	6.36956	0.06137	0.10452	0.162	0.086	6.2705	6.36956
5613	479023.58	3850458.68	1.2498	6.62864	0.06212	0.10357	0.161	0.086	6.538	6.62864
5614	479110.66	3850441.9	0.99193	4.96734	0.06051	0.09596	0.157	0.092	4.9487	4.96734
5615	479191.22	3850423.99	0.92624	4.22024	0.06023	0.09376	0.154	0.1	4.2379	4.22024
5616	479274.32	3850465.71	1.16391	4.31028	0.05995	0.09342	0.154	0.104	4.3185	4.31028
5617	479357.43	3850507.42	1.30495	4.4059	0.0598	0.09263	0.153	0.103	4.3977	4.4059
5618	479440.53	3850549.14	1.38801	4.42168	0.05975	0.09149	0.151	0.103	4.423	4.42168
5619	479523.64	3850590.85	1.49378	4.40498	0.06008	0.09029	0.15	0.104	4.4038	4.40498
5620	479606.74	3850632.57	1.59083	4.43265	0.0608	0.08904	0.148	0.106	4.4284	4.43265
5621	479777.37	3850707.61	1.56177	4.27912	0.06255	0.08765	0.145	0.105	4.2841	4.27912
5622	479864.9	3850740.95	1.52251	4.19217	0.06335	0.08854	0.144	0.104	4.1906	4.19217
5623	479931.87	3850829.56	1.57789	5.0196	0.06423	0.09011	0.149	0.107	4.9824	5.0196
5624	479995.55	3850926.75	1.26163	6.45915	0.06522	0.09303	0.155	0.11	6.3621	6.45915
5625	480079.78	3850968.64	1.2155	6.26817	0.06522	0.09333	0.154	0.111	6.2269	6.26817
5626	480164.01	3851010.54	1.18515	6.11079	0.06501	0.09534	0.153	0.11	6.1142	6.11079
5627	480248.23	3851052.43	1.1582	6.02335	0.06471	0.09589	0.154	0.111	6.0489	6.02335
5628	480332.46	3851094.33	1.14832	6.12597	0.0643	0.09555	0.153	0.113	6.1785	6.12597
5629	480416.69	3851136.22	1.14068	6.43649	0.06398	0.0954	0.153	0.114	6.4957	6.43649
5630	480579.95	3851215.17	1.12287	6.5791	0.06552	0.09804	0.152	0.107	6.6355	6.5791
5631	480658.98	3851252.22	1.11112	6.51225	0.06675	0.10087	0.152	0.104	6.6016	6.51225
5632	480817.36	3851327.85	1.105	6.41694	0.06988	0.10725	0.151	0.104	6.535	6.41694
5633	480896.71	3851366.42	1.1251	6.3502	0.07427	0.11103	0.149	0.107	6.4755	6.3502
5634	480976.07	3851405	1.12811	6.3424	0.07759	0.11812	0.148	0.109	6.4795	6.3424
5635	481178	3851487.31	1.11242	5.8197	0.08025	0.11528	0.147	0.115	5.9229	5.8197
5636	481244.9	3851557.17	1.14251	6.72001	0.08067	0.11821	0.15	0.119	6.823	6.72001
5637	481311.81	3851627.03	1.03684	6.89584	0.08108	0.12157	0.153	0.122	6.9707	6.89584
5638	481378.71	3851696.89	0.96693	6.73448	0.08148	0.12514	0.156	0.125	6.713	6.73448
5639	481445.61	3851766.76	0.86926	5.60058	0.08187	0.12898	0.158	0.128	5.6293	5.60058
5640	481512.51	3851836.62	0.81097	5.48643	0.08224	0.13306	0.161	0.131	5.5224	5.48643
5641	481579.42	3851906.48	0.80493	5.31754	0.08313	0.13652	0.164	0.134	5.3415	5.31754
5642	481646.32	3851976.34	0.81228	5.48519	0.08503	0.13995	0.166	0.137	5.5132	5.48519
5643	481713.22	3852046.2	0.8073	5.46751	0.08635	0.14362	0.17	0.142	5.493	5.46751
5644	481780.12	3852116.06	0.81097	5.51844	0.08726	0.14842	0.174	0.151	5.5522	5.51844
5645	481847.03	3852185.92	0.81685	5.54222	0.08836	0.15246	0.178	0.157	5.5749	5.54222
5646	481913.93	3852255.78	0.82262	5.53723	0.0916	0.15634	0.182	0.161	5.5728	5.53723
5647	481980.83	3852325.65	0.8306	5.53195	0.09797	0.16032	0.186	0.182	5.5438	5.53195
5648	482047.73	3852395.51	0.84265	5.65176	0.09924	0.16504	0.191	0.191	5.6546	5.65176
5649	482114.64	3852465.37	0.8541	5.57306	0.10797	0.17105	0.196	0.206	5.5618	5.57306
5650	482181.54	3852535.23	0.86596	5.81231	0.11237	0.17722	0.2	0.225	5.7748	5.81231
5651	482338.69	3852700.04	0.86962	5.88059	0.12288	0.18913	0.21	0.267	5.8798	5.88059
5652	482404.05	3852767.78	0.87288	5.85064	0.13588	0.19512	0.213	0.273	5.8541	5.85064
5653	482469.4	3852835.52	0.89555	5.90728	0.15541	0.20706	0.217	0.277	5.7517	5.90728
5654	482534.75	3852903.25	0.94096	6.00267	0.18127	0.22611	0.224	0.283	5.9738	6.00267
5655	482600.11	3852970.99	0.95431	5.71969	0.19973	0.24306	0.23	0.289	5.7825	5.71969
5656	482706.71	3853119.28	1.07838	5.24549	0.21411	0.28274	0.251	0.336	5.2833	5.24549
5657	482747.96	3853199.84	1.11432	5.39692	0.22997	0.30048	0.262	0.363	5.4671	5.39692
5658	482789.21	3853280.4	1.15556	5.01675	0.24856	0.3218	0.272	0.383	5.1345	5.01675
5659	482830.46	3853360.96	1.19579	4.55125	0.26461	0.35614	0.282	0.436	4.9378	4.55125
5660	482871.71	3853441.52	1.25468	4.42032	0.2811	0.4044	0.294	0.519	4.5844	4.42032

10.7708844	14.40208629	6.649E-06	0.005666	0.067989	0.012081	55.1878	53.0243511	27.42217
10.9149747	14.77488824	6.598E-06	0.00563	0.068631	0.012205	56.21532	54.3969009	27.59476
11.0678294	14.69988459	6.514E-06	0.005606	0.068781	0.012168	55.80317	54.120759	27.53669
11.0908881	14.88581459	6.423E-06	0.005602	0.068767	0.012115	56.51645	54.8053	27.77434
11.1303277	14.79535218	6.384E-06	0.005627	0.070422	0.01208	56.10982	54.4722433	27.65139
11.3965975	14.7434905	6.371E-06	0.005642	0.073034	0.012133	55.79353	54.2813035	27.74313
10.8835691	12.81565102	6.268E-06	0.005595	0.075224	0.011898	48.91577	47.1835514	25.52416
11.3393161	12.68784376	6.24E-06	0.005585	0.075398	0.011915	48.09316	46.7130017	25.50022
11.5806492	12.47450538	6.209E-06	0.005567	0.075548	0.0119	47.2641	45.927551	25.48473
11.7779518	12.17742738	6.278E-06	0.00554	0.075684	0.011921	45.98066	44.833795	25.1954
12.4328795	11.76410388	6.389E-06	0.005505	0.075805	0.012036	44.42847	43.3120565	25.40675
13.0401248	12.24260539	6.467E-06	0.005455	0.075726	0.012057	46.32395	45.0737618	26.62616
10.3495687	9.174307769	6.299E-06	0.005055	0.073672	0.012904	35.06354	33.7771699	20.90188
9.66417445	7.794469599	6.27E-06	0.004939	0.072096	0.01401	30.02684	28.6970015	18.87953
12.1439684	7.960766787	6.241E-06	0.004921	0.07219	0.014581	30.59813	29.3092601	21.4853
13.6155472	8.137369819	6.226E-06	0.004879	0.07181	0.014537	31.15957	29.9594618	23.04426
14.4821761	8.166514306	6.22E-06	0.004819	0.070999	0.014497	31.33862	30.0667635	24.01087
15.5857559	8.135670648	6.255E-06	0.004756	0.070366	0.014675	31.20265	29.9532059	25.06068
16.5983532	8.186775081	6.33E-06	0.00469	0.069419	0.014882	31.37681	30.1413578	26.10958
16.2951478	7.903216583	6.512E-06	0.004617	0.067895	0.01482	30.35418	29.0973768	25.54251
15.885518	7.742626395	6.595E-06	0.004664	0.067674	0.014674	29.6922	28.5061297	24.90123
16.4633402	9.270828104	6.687E-06	0.004746	0.06986	0.01511	35.30224	34.1325301	26.9936
13.1635563	11.92956996	6.79E-06	0.0049	0.072673	0.01554	45.07749	43.9212551	26.34248
12.6822465	11.57684409	6.79E-06	0.004916	0.072139	0.015654	44.11969	42.6226196	25.84888
12.3655816	11.28617493	6.768E-06	0.005022	0.071815	0.015538	43.32138	41.5524591	25.51306
12.0843916	11.12467975	6.737E-06	0.005051	0.072059	0.015673	42.85892	40.9578802	25.2029
11.9813059	11.31421126	6.694E-06	0.005033	0.071928	0.015909	43.77669	41.6556809	25.5094
11.9015919	11.88771862	6.661E-06	0.005025	0.07197	0.015991	46.02431	43.7671705	26.13944
11.7157665	12.15110869	6.821E-06	0.005164	0.071477	0.015038	47.01498	44.7368972	26.23665
11.5931697	12.02764171	6.949E-06	0.005313	0.071266	0.014609	46.77458	44.2823271	26.20426
11.529315	11.85161122	7.275E-06	0.005649	0.07099	0.014585	46.30283	43.6342334	26.14076
11.7390338	11.7283474	7.732E-06	0.005848	0.070071	0.015059	45.8814	43.1804114	26.25935
11.7704394	11.71394138	8.078E-06	0.006222	0.069414	0.0154	45.90981	43.1273725	26.35786
11.6067336	10.74855333	8.355E-06	0.006072	0.06888	0.016185	41.96553	39.5730906	24.83887
11.9206857	12.41135899	8.398E-06	0.006227	0.070432	0.016705	48.34328	45.6950641	27.07363
10.8181493	12.73610393	8.441E-06	0.006404	0.071674	0.017169	49.39014	46.8906818	26.14896
10.0887245	12.438084	8.483E-06	0.006592	0.072964	0.017561	47.56396	45.793458	24.39443
9.06965827	10.34385498	8.523E-06	0.006794	0.074249	0.018011	39.88591	38.0831073	21.31537
8.46147386	10.13302842	8.562E-06	0.007009	0.075726	0.018467	39.12784	37.3069044	20.51665
8.3984539	9.821101139	8.654E-06	0.007191	0.076809	0.018832	37.8466	36.1584776	20.01051
8.4751421	10.13073823	8.852E-06	0.007372	0.078005	0.019222	39.06287	37.2984726	20.47488
8.42318193	10.09808458	8.99E-06	0.007565	0.079552	0.020005	38.9196	37.1782512	20.36975
8.46147386	10.19214851	9.084E-06	0.007818	0.081808	0.021204	39.33948	37.5245676	20.57938
8.52282443	10.2360684	9.199E-06	0.008031	0.083599	0.022137	39.50011	37.6862681	20.68651
8.58302727	10.22685224	9.536E-06	0.008235	0.085376	0.022676	39.48551	37.6523368	20.75935
8.66628875	10.21710047	1.02E-05	0.008445	0.087252	0.025544	39.28011	37.6164336	20.66831
8.79201567	10.43838064	1.033E-05	0.008693	0.089601	0.026807	40.0646	38.4311237	20.98898
8.91148233	10.29302759	1.124E-05	0.00901	0.091678	0.028992	39.40708	37.8959755	20.8453
9.03522683	10.73490455	1.17E-05	0.009335	0.094014	0.031599	40.91633	39.5228397	21.29858
9.07341443	10.86101264	1.279E-05	0.009962	0.098389	0.037583	41.66058	39.9871335	21.75382
9.10742852	10.80569722	1.415E-05	0.010278	0.099927	0.038362	41.47848	39.783478	21.75671
9.34396207	10.91030709	1.618E-05	0.010907	0.101788	0.039035	40.75266	40.1686215	20.99005
9.81775953	11.08648533	1.887E-05	0.01191	0.104935	0.039855	42.32674	40.8172593	22.57045
9.95705035	10.5638423	2.079E-05	0.012803	0.108062	0.040685	40.97096	38.8930375	22.76038
11.2515681	9.688030145	2.229E-05	0.014893	0.117483	0.047222	37.43437	35.6685484	22.88504
11.6265578	9.967710099	2.394E-05	0.015828	0.12281	0.051036	38.73645	36.6982498	23.82216
12.0568464	9.265564366	2.588E-05	0.016951	0.127527	0.053946	36.38007	34.1131506	23.78778
12.476597	8.405820466	2.755E-05	0.018759	0.13216	0.061295	34.98595	30.9478201	25.13279
13.0910416	8.164002488	2.926E-05	0.021301	0.137764	0.073029	32.4822	30.0575157	23.91185

5661	482912.95	3853522.07	1.31589	4.09405	0.30016	0.46308	0.309	0.609	4.4178	4.09405	13.7296926	7.561406048	3.125E-05	0.024392	0.144788	0.085708	31.30164	27.8389284	25.00873
5662	482954.2	3853602.63	1.40702	3.82078	0.33453	0.54731	0.329	0.734	4.3532	3.82078	14.680522	7.05669667	3.483E-05	0.028829	0.154434	0.103211	30.84378	25.9807332	26.88677
5663	482995.45	3853683.19	1.52918	3.52076	0.39386	0.70561	0.33	1.54	4.2724	3.52076	15.9551113	6.50258203	4.1E-05	0.037167	0.154668	0.216601	30.27114	23.940642	29.19667
5664	483036.7	3853763.75	1.66773	3.23094	0.43618	0.98962	0.328	2.515	4.2166	3.23094	17.40071	5.967306031	4.541E-05	0.052127	0.153594	0.353852	29.87585	21.9699093	31.83357
5665	483214.2	3853909.91	1.90936	2.05149	0.38474	4.62201	0.359	7.146	2.9025	2.05149	19.9218217	3.788949547	4.005E-05	0.24346	0.168215	1.005272	20.56526	13.9498255	31.74319
5666	483307.01	3853910.44	1.98242	1.88744	0.35287	4.65233	0.356	5.439	2.6672	1.88744	20.6841129	3.485961391	3.674E-05	0.245057	0.166748	0.765204	18.89786	12.83431	31.41067
5667	483399.83	3853910.96	2.10592	1.66614	0.31775	4.2843	0.371	4.559	2.3855	1.66614	21.9726834	3.07723674	3.308E-05	0.225672	0.174063	0.64131	16.9022	11.3295031	31.66369
5668	483494.52	3854009.24	2.51244	1.58765	0.37831	5.85182	0.376	4.365	2.5741	1.58765	26.2142193	2.932271544	3.938E-05	0.308239	0.176375	0.614043	18.23814	10.7957828	37.68755
5669	483496.41	3854106.98	2.7332	1.61234	0.45353	9.23726	0.389	5.451	3.2778	1.61234	28.5175782	2.977872138	4.722E-05	0.486564	0.182405	0.766815	23.22454	10.9636711	45.19215
5670	483577.56	3854261.96	2.93415	1.27963	0.59112	16.52651	0.422	7.183	4.427	1.27963	30.6142441	2.363381498	6.154E-05	0.870519	0.197992	1.010519	31.36654	8.70129284	57.72196
5671	483656.83	3854319.19	3.03026	1.05183	0.68243	18.23102	0.43	6.924	4.5527	1.05183	31.6170337	1.94265183	7.105E-05	0.960302	0.201837	0.974056	32.25745	7.15228687	60.80112
5672	483736.1	3854376.41	3.19019	0.85218	1.0175	18.28737	0.439	6.616	4.6027	0.85218	33.2857064	1.573913119	0.0001059	0.96327	0.205893	0.930666	32.61186	5.79469669	63.77672
5673	483815.36	3854433.64	3.38084	0.72498	1.30391	18.42727	0.448	6.358	4.6995	0.72498	35.2749045	1.338984174	0.0001357	0.970639	0.21016	0.894414	33.29758	4.9297557	67.05706
5674	483894.63	3854490.87	3.6087	0.65285	1.40465	18.44898	0.458	6.204	4.8302	0.65285	37.6523432	1.205765425	0.0001462	0.971783	0.214634	0.872783	34.22378	4.43928247	70.70195
5675	483973.9	3854548.09	3.87144	0.60216	2.0728	18.44597	0.468	6.07	4.9249	0.60216	40.3937117	1.112144763	0.0002158	0.971624	0.219351	0.85386	34.89498	4.09459804	74.35129
5676	484053.17	3854605.32	4.08209	0.5651	3.34499	18.69063	0.479	5.92	5.1943	0.5651	42.5915852	1.043697697	0.0003482	0.984512	0.22457	0.832841	36.80342	3.84259558	78.63838
5677	484214.97	3854698.15	4.23578	0.49785	4.77702	19.193	0.507	5.561	5.398	0.49785	44.1951512	0.919491946	0.0004973	1.010974	0.237676	0.782281	38.24706	3.38530563	82.00783
5678	484297.5	3854733.74	4.1869	0.50411	4.75442	20.82939	0.503	5.903	5.8575	0.50411	43.6851485	0.931053701	0.000495	1.097169	0.236077	0.830343	41.50243	3.42787269	84.85484
5679	484380.03	3854769.34	4.27057	0.49945	4.98326	22.57166	0.508	5.904	5.8793	0.49945	44.558142	0.922447027	0.0005188	1.188941	0.238155	0.830554	41.65717	3.39618539	85.99975
5680	484462.56	3854804.94	4.35688	0.51478	5.16287	24.83711	0.517	6.157	5.9522	0.51478	45.4586806	0.950760398	0.0005375	1.308272	0.242497	0.866083	42.17377	3.5004271	87.50017
5681	484545.09	3854840.53	4.52778	0.49618	4.63672	26.16165	0.516	6.029	5.9561	0.49618	47.2418118	0.91640758	0.0004827	1.378041	0.242028	0.848129	42.20126	3.37394988	89.45421
5682	484691.88	3854912.58	4.63355	0.51516	4.07909	25.16365	0.52	6.303	6.2878	0.51516	48.3453916	0.951462229	0.0004247	1.325472	0.244011	0.886613	44.5514	3.50301104	92.80177
5683	484830.81	3855012.51	4.69106	0.55999	3.38346	18.70588	0.55	7.121	5.7573	0.55999	48.9454377	1.034259907	0.0003522	0.985315	0.257915	1.001794	40.79226	3.80784834	89.20949
5684	484905.48	3855075.97	4.71934	0.62767	3.26576	18.04826	0.584	6.185	5.3903	0.62767	49.2405047	1.159259837	0.00034	0.950675	0.273891	0.870103	38.19222	4.26806223	86.41893
5685	484980.14	3855139.44	4.76718	0.65637	2.95605	17.95346	0.641	5.913	5.0526	0.65637	49.7396562	1.212266603	0.0003077	0.945682	0.300385	0.831865	35.79942	4.46321795	84.36637
5686	485054.81	3855202.91	4.83577	0.66795	2.71951	18.53947	0.675	5.736	4.7729	0.66795	50.4553084	1.233654003	0.0002831	0.976549	0.316417	0.806927	33.81744	4.54196022	83.06461
5687	485129.48	3855266.37	4.93421	0.65315	2.61049	17.98634	0.709	5.573	4.5181	0.65315	51.4824087	1.206319503	0.0002718	0.947414	0.332361	0.784035	32.0123	4.44132243	82.32378
5688	485204.15	3855329.84	4.91559	0.68621	2.55267	19.10731	0.752	5.645	4.5655	0.68621	51.2881319	1.267378866	0.0002657	1.00646	0.352416	0.794147	32.34843	4.66612549	82.3911
5689	485278.82	3855393.31	4.96908	0.69023	2.77097	18.23746	0.798	5.543	4.4987	0.69023	51.8462342	1.274803507	0.0002885	0.960641	0.374038	0.779736	31.87498	4.69346089	82.41726
5690	485353.48	3855456.77	5.0015	0.71334	2.28823	18.5748	0.852	5.498	4.4461	0.71334	52.184497	1.317485959	0.0002382	0.97841	0.399336	0.773418	31.50208	4.85060544	82.30486
5691	485428.15	3855520.24	5.05597	0.72038	2.25582	18.57934	0.89	5.477	4.2971	0.72038	52.7528244	1.330488316	0.0002348	0.97865	0.417549	0.770459	30.44636	4.89847638	81.79809
5692	485502.82	3855583.71	5.0983	0.72857	2.50656	19.77563	0.933	5.476	4.1819	0.72857	53.1944859	1.345614637	0.0002609	1.041663	0.437469	0.770272	29.62992	4.95416716	81.46551
5693	485577.49	3855647.17	5.10576	0.76076	3.61822	18.2168	0.985	5.533	4.1821	0.76076	53.2723218	1.405067174	0.0003767	0.959553	0.461951	0.778291	29.63147	5.17305435	81.33598
5694	485652.16	3855710.64	5.11743	0.78452	4.52764	19.62855	1.062	5.52	4.1888	0.78452	53.3940839	1.448950128	0.0004714	1.033916	0.49795	0.776591	29.6793	5.3346188	81.49664
5695	485726.83	3855774.1	5.15979	0.79019	5.69276	18.92155	1.103	5.487	4.0985	0.79019	53.8360583	1.459422197	0.0005927	0.996675	0.517312	0.771891	29.03921	5.37317396	81.24799
5696	485801.49	3855837.57	5.22029	0.78034	5.71286	19.86334	1.163	5.373	3.9885	0.78034	54.4673014	1.441229979	0.0005947	1.046283	0.545311	0.755834	28.25968	5.30619543	81.21004
5697	485876.16	3855901.04	5.26641	0.79356	6.05697	17.43674	1.237	5.389	3.8929	0.79356	54.9485068	1.465646336	0.0006306	0.918464	0.5801	0.758168	27.58232	5.39608945	80.85774
5698	485950.83	3855964.5	5.32382	0.79687	5.88695	19.58658	1.39	5.36	3.7893	0.79687	55.5475095	1.47175966	0.0006129	1.031705	0.651929	0.754033	26.8482	5.41859696	80.88716
5699	486025.5	3856027.97	5.35121	0.78218	5.64453	17.2497	1.539	5.286	3.688	0.78218	55.8332904	1.444628322	0.0005876	0.908612	0.72154	0.743552	26.13046	5.31870715	80.46396
5700	486100.17	3856091.44	5.27456	0.82733	4.83094	18.14003	1.732	5.276	3.7754	0.82733	55.033542	1.528017016	0.0005029	0.955509	0.812163	0.74226	26.74979	5.62572041	80.19606
5701	486174.83	3856154.9	5.2939	0.79888	4.07864	16.58547	1.909	5.201	3.5619	0.79888	55.2353311	1.475471981	0.0004246	0.873624	0.895298	0.731591	25.23699	5.43226466	79.01647
5702	486249.5	3856218.37	5.35817	0.74764	3.4136	17.2329	2.112	4.839	3.2314	0.74764	55.9059095	1.38083551	0.0003554	0.907727	0.990301	0.680713	22.89535	5.08384031	77.67735
5703	486324.17	3856281.84	5.42894	0.66864	3.10472	17.31462	2.377	4.889	3.1741	0.66864	56.6443073	1.234928381	0.0003232	0.912032	1.114818	0.687823	22.48943	4.54665211	78.53701
5704	486398.84	3856345.3	5.39247	0.67705	2.5663	17.1494	2.796	5.102	3.3523	0.67705	56.2637878	1.250461026	0.0002672	0.903329	1.311164	0.717688	23.75211	4.60383886	79.59497
5705	486473.51	3856408.77	5.38059	0.66825	2.6419	17.32962	3.265	5.098	3.3834	0.66825	56.1398346	1.23420808	0.000275	0.912822	1.530787	0.717131	23.97233	4.54400017	79.96338
5706	486548.17	3856472.24	5.34863	0.68362	2.37092	16.86059	3.808	5.085	3.4223	0.68362	55.8063713	1.262595328	0.0002468	0.888116	1.785419	0.715276	24.24809	4.64851388	80.0576
5707	486622.84	3856535.7	5.28597	0.7022	2.40133	19.28098	4.592	5.024	3.4316	0.7022	55.1525913	1.296911207	0.00025	1.015608	2.153389	0.706766	24.31441	4.7748551	79.86507
5708	486765.48	3856659.69	5.09957	0.80117	2.1074	15.68441	7.279	4.956	3.301	0.80117	53.2077367	1.479701441	0.0002194	0.826162	3.413291	0.697203	23.38885	5.44783631	77.56532
5709	486833.44	3856720.2	5.00738	0.82426	2.05908	18.22749	8.604	4.986	3.2759	0.82426	52.2458476	1.522346955	0.0002144	0.960116	4.034388	0.701408	23.21065	5.60484487	77.07013
5710	486901.41	3856780.72	4.89811	0.83473	2.18571	17.81127	11.08	4.996	3.2102	0.83473	51.1057496	1.541684266	0.0002275	0.938192	5.194391	0.70277	22.74528	5.6760393	76.55226
5711	486969.38	3856841.24	4.84211	0.86338	2.17479	17.41926	14.49	5.009	3.202	0.86338	50.5214585	1.594598687	0.0002264	0.917543	6.796613	0.704634	22.68704	5.87085502	77.35126
5712	487037.34	3856901.75	4.76479	0.89349	2.08085	16.85609	24.29	5.01	3.1836	0.89349	49.7147195	1.650209619	0.0002166	0.887879	11.39078	0.704824	22.55681	6.07559852	80.82985
5713	487271.23	3856855.51	3.91299	0.84168	1.8108	6.09683	30.81	3.27	2.2354	0.84168	40.8272348	1.5545204	0.0001885	0.321145	14.44506	0.459955	15.83826	5.72329826	67.72307
5714	487368.95	3856857.29	3.701	0.81693	1.71282	5.20956	36.4	2.963	2.0641	0.81693	38.6153801	1.508808989	0.0001783	0.274409	17.06733	0.416766	14.62461	5.55500196	66.95248
5715	487466.68	3856859.06	3.53063	0.80167	1.63063	4.57281	37.81	2.773	1.9256	0.80167	36.8377788	1.480624904	0.0001698	0.240869	17.72838	0.390145	13.64371	5.45123624	64.87044
5716	487636.44	3856930	3.37509	0.82568	1.51147	4.10834	49.22	2.652	1.8057	0.82568	35.2149103	1.524969589	0.0001574	0.216403	23.07955	0.373099	12.79418	5.61450065	67.58876
5717	487709.57	3856928.43	3.27331	0.84678	1.4685	3.80529	51.56	2.538	1.716	0.84678	34.1529613	1.563939721	0.0001529	0.20044	24.17901	0.356998	12.1582	5.7579775	66.85372
5718	487782.55	3856841.96	3.07571	0.78954	1.57445	3.31037	40	2.263	1.5533	0.78954	32.0912485	1.458221695	0.0001639	0.174371	18.75739	0.318406	11.00548	5.36875405	58.43653
5719	487849.83	3856754.74	2.9272	0.75297	1.6208	2.89271	31.74	2.059	1.4209	0.75297	30.5417294	1.390679623	0.0001687	0.152371	14.88508	0.289694	10.06773	5.12008352	52.20737

5720	487918.03	3856819.39	2.89991	0.78937	1.61268	2.9279	47.11	2.14	1.4316	0.78937	30.2569918	1.457907718	0.0001679	0.154224	22.08922	0.301108	10.14333	5.36759808	59.03535
5721	487918.8	3856886.37	2.98436	0.83721	1.49762	3.07725	54.02	2.24	1.48	0.83721	31.1381237	1.546264642	0.0001559	0.162091	25.33138	0.315062	10.4864	5.69290293	63.28658
5722	488065.46	3857127.5	3.08301	0.93106	1.50204	3.35824	68.73	2.458	1.5802	0.93106	32.167415	1.719598616	0.0001564	0.176892	32.23032	0.345726	11.19593	6.33106891	71.50497
5723	488192.19	3857385.83	3.26546	1.11746	1.73171	3.86115	61.78	3.007	1.7038	1.11746	34.0710562	2.063865562	0.0001803	0.203383	28.96798	0.422997	12.07168	7.59856107	70.20259
5724	488191.21	3857473.87	3.41593	1.19075	1.70168	4.23474	58.17	3.381	1.8077	1.19075	35.6410255	2.199226744	0.0001772	0.223061	27.27828	0.475612	12.80807	8.09692212	70.52853
5725	488190.24	3857561.9	3.6248	1.29046	2.2914	4.6409	55.38	3.802	1.926	1.29046	37.8203268	2.383383703	0.0002385	0.244455	25.96881	0.534914	13.64605	8.77493522	71.82324
5726	488158.35	3857691.13	4.00717	1.43974	4.23795	6.17216	42.59	4.948	2.2437	1.43974	41.8098872	2.659092767	0.0004412	0.325113	19.97252	0.696111	15.89721	9.79001692	71.57036
5727	488208.37	3857816.66	4.22969	1.51378	8.53182	7.6407	28.65	6.979	2.4341	1.51378	44.1316095	2.795839144	0.0008882	0.402467	13.43614	0.981747	17.24648	10.2934779	68.70169
5728	488271.97	3857874.6	4.25595	1.57906	9.17823	7.76907	24.11	7.327	2.3843	1.57906	44.4056003	2.916406452	0.0009555	0.409229	11.30605	1.030773	16.89391	10.7373721	66.22556
5729	488463.56	3857942.31	3.93741	1.63475	8.27929	6.03664	18.37	5.956	2.1603	1.63475	41.0820275	3.019261743	0.0008619	0.317974	8.612709	0.837809	15.30672	11.1160558	58.0613
5730	488554.83	3857940.83	3.73705	1.57109	7.48405	5.19377	15.9	5.383	2.0186	1.57109	38.9915174	2.901686454	0.0007791	0.273577	7.457302	0.757252	14.30244	10.6831773	54.00137
5731	488646.1	3857939.36	3.52977	1.51502	6.9023	4.64426	14.45	4.993	1.8817	1.51502	36.8288057	2.798129332	0.0007186	0.244632	6.775681	0.70241	13.33224	10.3019097	50.38071
5732	488737.37	3857937.88	3.37896	1.46195	6.50819	4.25525	13.05	4.677	1.7624	1.46195	35.255289	2.700112987	0.0006775	0.224141	6.118739	0.657988	12.48717	9.9410416	47.50308
5733	488733.59	3857960.57	3.43626	1.48496	6.5266	4.47543	12.14	4.704	1.7883	1.48496	35.853144	2.742610746	0.0006795	0.235739	5.692899	0.66176	12.67089	10.0975062	47.76022
5734	488638.09	3857961.57	3.6127	1.54189	7.0637	4.91473	13.97	5.088	1.921	1.54189	37.6940782	2.847756225	0.0007354	0.258879	6.549648	0.715741	13.61105	10.4846217	51.19326
5735	488542.6	3857962.56	3.82454	1.60105	7.68859	5.49662	15.7	5.586	2.0791	1.60105	39.9043679	2.957020348	0.0008004	0.289529	7.362767	0.785784	14.73124	10.8869008	55.14461
5736	488447.1	3857963.56	4.04444	1.65162	8.50383	6.51327	18.59	6.234	2.234	1.65162	42.1987538	3.050419379	0.0008853	0.34308	8.715665	0.876988	15.82877	11.2307693	59.78379
5737	488254.28	3857890.36	4.39579	1.60824	10.26341	8.58477	23.33	7.885	2.4667	1.60824	45.8646586	2.970299743	0.0010685	0.452195	10.9405	1.109251	17.47711	10.9357917	67.87929
5738	488191.69	3857833.06	4.36878	1.52755	8.88344	8.48754	27.84	7.647	2.5093	1.52755	45.5828425	2.821271311	0.0009248	0.447073	13.05267	1.075722	17.77908	10.3871118	70.37247
5739	488129.5	3857907.43	4.90701	1.66331	11.34054	17.72093	15.68	11.89	3.0008	1.66331	51.1986101	3.07200994	0.0011806	0.933434	7.353549	1.672428	21.26154	11.3102595	74.18249
5740	488196.47	3857968.73	4.91525	1.78524	11.17148	18.20805	12.44	10.8	3.0051	1.78524	51.2845844	3.297205587	0.001163	0.959092	5.835366	1.519613	21.29243	12.1393653	72.05009
5741	488263.44	3858030.04	4.90954	1.89312	10.36044	18.25351	10.71	10.27	2.9577	1.89312	51.2250076	3.496451929	0.0010786	0.961487	5.022401	1.445128	20.95658	12.8729332	70.23521
5742	488400.64	3858132.9	4.89517	2.04139	6.98949	14.32368	9.78	9.068	2.8202	2.04139	51.0750743	3.770295598	0.0007276	0.754487	4.586142	1.275694	19.98199	13.881147	67.56327
5743	488519.89	3858218.38	4.88522	2.24145	5.94308	12.68667	9.403	8.28	2.9043	2.24145	50.9712583	4.139791548	0.0006187	0.668259	4.409242	1.164861	20.5783	15.2415252	66.6908
5744	488647.97	3858214.99	4.46815	2.01629	5.60797	8.20522	10.56	6.666	2.5074	2.01629	46.6196462	3.723937764	0.0005838	0.432202	4.953029	0.937757	17.76605	13.7104708	60.72273
5745	488727.05	3858167.67	4.11231	1.82211	5.11858	6.3666	10.72	5.824	2.2157	1.82211	42.9068937	3.365301737	0.0005329	0.335355	5.025393	0.819311	15.69896	12.3900758	55.76167
5746	488806.12	3858120.35	3.84777	1.66063	5.04605	5.23819	9.367	5.093	1.9863	1.66063	40.1467444	3.067060179	0.0005253	0.275917	4.392497	0.71645	14.07365	11.2920359	51.38081
5747	488885.2	3858073.03	3.63686	1.53661	5.15043	4.46126	9.075	4.55	1.7931	1.53661	37.9461581	2.838004457	0.0005362	0.234993	4.255549	0.64012	12.70462	10.4487184	48.17126
5748	489055.76	3857991.17	3.29264	1.32069	5.19937	3.67854	11.86	3.818	1.5216	1.32069	34.354646	2.439216266	0.0005413	0.193764	5.563295	0.537146	10.78116	8.9804947	44.88927
5749	489245.39	3857944.54	3.16112	1.19899	4.6071	3.15704	12.48	3.346	1.358	1.19899	32.9823967	2.214445412	0.0004796	0.166294	5.853997	0.47066	9.62192	8.15295289	43.15724
5750	489430.63	3857930.91	3.25898	1.12994	4.12166	2.82002	13.38	3.058	1.2402	1.12994	34.0034454	2.086915194	0.0004291	0.148542	6.27193	0.430244	8.787052	7.6834232	44.04513
5751	489517.74	3857929.36	3.21405	1.09487	3.91119	2.74818	13.03	2.949	1.1967	1.09487	33.5346561	2.022143511	0.0004072	0.144758	6.112019	0.414827	8.478768	7.44495244	43.26263
5752	489604.85	3857927.82	3.19521	1.05627	3.73788	2.90575	12.37	2.843	1.1446	1.05627	33.3380839	1.95085218	0.0003891	0.153058	5.799049	0.399962	8.109762	7.18247821	42.56868
5753	489691.97	3857926.28	3.16179	1.02738	3.59995	2.80477	12.03	2.744	1.1033	1.02738	32.9893873	1.897494497	0.0003748	0.147739	5.642036	0.386033	7.81742	6.98603052	41.89445
5754	489779.08	3857924.73	3.10793	0.99629	3.36041	2.95256	11.3	2.641	1.0616	0.99629	32.4274245	1.840073578	0.0003498	0.155523	5.299293	0.371542	7.521465	6.77462317	40.84105
5755	490017.55	3857875.08	2.71768	0.86575	2.72988	2.74296	12.64	2.319	0.931	0.86575	28.3556461	1.598975901	0.0002842	0.144483	5.929267	0.326295	6.596542	5.88697067	37.06452
5756	490033.82	3857960.81	3.08246	0.91869	2.53507	3.40626	9.945	2.362	0.9692	0.91869	32.1616764	1.696752146	0.0002639	0.179422	4.663603	0.33229	6.867415	6.24695476	39.65447
5757	489959.15	3857987.49	3.14457	0.98053	2.58757	3.32796	10.2	2.467	1.0184	0.98053	32.8097178	1.810966029	0.0002694	0.175297	4.781133	0.347022	7.215661	6.66745752	40.47261
5758	489791.49	3858016.12	3.11427	1.04551	2.81754	3.50525	11.13	2.638	1.088	1.04551	32.4935746	1.93097926	0.0002933	0.184636	5.220834	0.371163	7.708589	7.10931181	40.80076
5759	489698.51	3858018.07	3.18434	1.0861	3.03774	3.47506	11.5	2.735	1.1313	1.0861	33.2246688	2.005945973	0.0003162	0.183046	5.393602	0.38481	8.015881	7.38531775	41.82295
5760	489605.52	3858020.01	3.23796	1.1258	3.28368	3.24759	11.38	2.875	1.1799	1.1258	33.7841275	2.079268922	0.0003419	0.171064	5.337609	0.404395	8.359663	7.65527182	42.4812
5761	489512.53	3858021.96	3.29782	1.15994	3.46967	3.36659	11.09	3.016	1.2262	1.15994	34.408693	2.142322964	0.0003612	0.177332	5.201857	0.42423	8.687857	7.88741872	43.15523
5762	489419.55	3858023.91	3.35577	1.19766	3.85543	3.34153	11.07	3.167	1.2893	1.19766	35.0133299	2.211989001	0.0004014	0.176012	5.18936	0.445555	9.135439	8.14390908	44.02818
5763	489228.47	3858041.29	3.63956	1.28582	3.96082	3.62922	10.47	3.503	1.4114	1.28582	37.9743293	2.374813968	0.0004123	0.191166	4.907371	0.492744	9.999924	8.74338391	47.19738
5764	489065.75	3858085.78	3.84564	1.43091	4.41754	4.03676	8.905	4.099	1.6007	1.43091	40.1245204	2.642784414	0.0004599	0.212633	4.175922	0.57661	11.34125	9.72997424	49.34421
5765	489001.12	3858114.86	3.93787	1.51181	4.40688	4.31511	8.289	4.35	1.7187	1.51181	41.086827	2.792200701	0.0004588	0.227294	3.886745	0.611955	12.17747	10.2800822	50.50287
5766	488861.89	3858189.81	4.24061	1.73145	4.63638	5.4198	8.795	5.193	2.0272	1.73145	44.2455463	3.197859455	0.0004827	0.285483	4.124261	0.730528	14.36373	11.7736013	55.17429
5767	488787.29	3858235.69	4.51009	1.88971	4.88227	6.54138	9.501	5.818	2.2436	1.88971	47.0572384	3.490153912	0.0005083	0.344561	4.455253	0.818383	15.8965	12.8497457	59.21285
5768	488712.68	3858281.57	4.78903	2.13681	4.78373	8.36817	9.363	6.693	2.5147	2.13681	49.967634	3.946529246	0.000498	0.440786	4.390462	0.941586	17.8177	14.5299888	62.97521
5769	488654.39	3858436.17	4.85187	2.84021	4.34014	18.11476	4.972	9.498	3.5067	2.84021	50.6232921	5.245656764	0.0004518	0.954178	2.331691	1.336075	24.84645	19.3130037	66.02479
5770	488726.3	3858505.26	4.51586	2.94071	4.18141	17.76398	4.723	8.756	3.5314	2.94071	47.1174413	5.431272794	0.0004353	0.935701	2.214555	1.231763	25.02153	19.9963887	61.95631
5771	488880.6	3858599.28	4.73141	2.98427	3.27345	19.35366	4.74	10.04	3.2414	2.98427	49.3664402	5.511724876	0.0003408	1.019436	2.222785	1.41174	22.96642	20.2925902	62.20629
5772	489008.06	3858714.75	4.24104	3.27476	2.22289	19.99214	4.448	10.09	3.3186	3.27476	44.2500328	6.048238314	0.0002314	1.053067	2.085959	1.419832	23.51327	22.2678788	56.10275
5773	489071.48	3858772.72	4.01079	3.40507	2.02934	20.3496	3.886	9.91	3.4221	3.40507	41.8476574	6.288911199	0.0002113	1.071896	1.822032	1.394123	24.24646	23.1539673	53.51732
5774	489244.59	3858920.19	3.75989	3.77034	1.82935	24.97124	2.988	9.296	3.6639	3.77034	39.2298247	6.963537739	0.0001904	1.315337	1.401323	1.307681	25.95984	25.6377488	50.53999
5775	489239.69	3858952.23	3.80006	4.03677	1.92069	23.91236	2.81	11.08	3.9746	4.03677	39.6489492	7.455614146	0.0002	1.259561	1.317621	1.558344	28.16148	27.449433	51.95233
5776	489121.67	3858854.49	3.99582	3.7871	1.95889	22.30279	3.577	10.23	3.8024	3.7871	41.6914639	6.994492213	0.0002039	1.174779	1.677211	1.438585	26.94138	25.7517143	54.1664
5777	489059.59	3858797.27	4.0303	3.61229	1.91958	21.84433	3.664	9.67	3.6648	3.61229	42.0512203	6.671631137	0.0001998	1.15063	1.71835	1.360267	25.96608	24.5630324	54.35534
5778	488997.52	3858740.04	4.23334	3.44981	2.14985	21.52064	3.761	9.562	3.5757	3.44981	44.1696928	6.371542653	0.0002238	1.13358	1.763797	1.345084	25.33505	23.4581926	56.66078

5779	488935.44	3858682.82	4.51317	3.31856	2.51688	20.82715	3.853	9.777	3.4789	3.31856
5780	488869.17	3858848.43	4.82197	5.51677	2.01232	8.40544	2.852	4.272	7.3187	5.51677
5781	488932.48	3858892.69	4.76382	5.67744	1.87958	8.98159	2.624	4.214	7.2208	5.67744
5782	489063.27	3858977.17	4.41118	5.94779	1.88549	11.95347	2.286	4.441	6.4935	5.94779
5783	489248.2	3859117.15	3.72872	7.62128	2.2204	10.94712	1.878	4.532	7.7066	7.62128
5784	489296.25	3859049.22	3.62729	4.82789	2.24029	12.97427	2.617	6.281	4.7132	4.82789
5785	489353.38	3858993.96	3.56736	3.88187	1.90974	21.04667	2.525	9.388	3.704	3.88187
5786	489537.24	3859120.22	3.4847	4.06379	3.12204	19.05795	2.01	9.74	3.9607	4.06379
5787	489726.98	3859246.04	3.49548	4.25727	10.45188	19.59275	1.604	9.292	4.2059	4.25727
5788	489911.46	3859366.33	3.26688	4.46254	36.74387	18.79795	1.52	8.513	4.4309	4.46254
5789	490035.3	3859430.26	3.31253	4.44137	35.16665	18.20653	1.341	9.068	4.4246	4.44137
5790	490101.11	3859458.61	3.26744	4.34383	26.23927	18.45716	1.323	9.521	4.3823	4.34383
5791	490312.68	3859560.3	2.96216	4.72139	13.13167	20.30018	1.159	8.514	4.6911	4.72139
5792	490401.63	3859603.12	2.96406	4.86318	10.77431	20.24906	1.183	8.55	4.8568	4.86318
5793	490490.57	3859645.94	2.96088	5.0298	9.76819	20.00869	1.184	8.417	5.0496	5.0298
5794	490579.51	3859688.76	2.95205	5.16668	8.23275	19.89418	1.006	8.349	5.1961	5.16668
5795	490668.45	3859731.58	2.92445	4.94406	7.01156	19.67353	0.891	8.255	5.0075	4.94406
5796	490757.4	3859774.4	2.86086	5.28101	5.68377	20.23462	0.886	8.361	5.3689	5.28101
5797	491003.53	3859861.82	2.60851	4.92532	4.16726	20.19958	0.921	7.914	5.1073	4.92532
5798	491081.41	3859879.05	2.58564	4.71168	4.01084	22.52966	0.887	8.334	4.7984	4.71168
5799	491229.76	3859917.82	2.61863	4.30817	3.57553	23.48312	0.815	9.197	4.2604	4.30817
5800	491300.22	3859939.35	2.61198	4.11133	3.35337	22.58343	0.856	9.078	4.0686	4.11133
5801	491350.48	3860012.03	2.73968	4.6487	2.59071	12.60753	0.768	9.988	4.5486	4.6487
5802	491406.82	3860092.56	2.39057	4.88832	2.14451	6.81459	0.771	5.499	4.8737	4.88832
5803	491483.36	3860121.96	2.32233	4.56491	2.02678	6.52598	0.735	5.304	4.5737	4.56491
5804	491559.91	3860151.35	2.31444	4.24341	1.91656	5.9792	0.728	4.809	4.2381	4.24341
5805	491711.81	3860237.76	2.40165	2.99949	1.65217	4.2629	0.747	4.006	2.8882	2.99949
5806	491755.2	3860319.07	2.32155	4.0474	1.30406	2.98476	0.679	2.955	3.9959	4.0474
5807	491704.71	3860366.54	2.10784	4.8274	1.09514	2.76874	0.691	2.682	4.8551	4.8274
5808	491623.42	3860462.39	1.61342	6.64302	0.71854	2.22482	0.686	2.349	6.2557	6.64302
5809	491534.02	3860439.84	1.45641	3.50905	0.71988	2.73466	0.706	2.618	3.5456	3.50905
5810	491313.95	3860268.17	1.6393	4.26316	0.92439	3.37173	0.724	2.536	4.4511	4.26316
5811	491187.12	3860143.56	1.75179	4.97901	1.38718	4.45273	0.758	3.178	5.2228	4.97901
5812	491070.43	3860075.97	1.85264	4.91039	1.74829	5.31353	0.774	3.623	4.9919	4.91039
5813	490995.09	3860039.38	1.8574	4.86852	1.9102	5.71363	0.779	3.732	4.8967	4.86852
5814	490919.75	3860002.8	1.83628	5.04482	2.10115	6.14644	0.806	3.944	5.0113	5.04482
5815	490756.81	3859894.53	2.07927	8.46901	3.20091	8.28022	0.962	5.152	7.9667	8.46901
5816	490668.07	3859860.92	2.12126	7.83885	3.4887	7.75972	0.941	4.569	7.5564	7.83885
5817	490579.34	3859827.3	2.14927	7.7426	3.69902	7.67959	0.916	4.417	7.3925	7.7426
5818	490490.6	3859793.68	2.1906	7.18143	3.8047	7.25719	0.929	4.168	6.9292	7.18143
5819	490401.86	3859760.07	2.26568	6.57836	4.12362	7.09565	0.988	4.092	6.5778	6.57836
5820	490313.12	3859726.45	2.34793	6.54056	4.73301	6.92112	0.988	3.882	6.6341	6.54056
5821	490224.39	3859692.83	2.43833	6.7269	5.51901	7.00704	1.121	3.87	6.8648	6.7269
5822	490135.65	3859659.22	2.52754	6.96626	6.11779	7.32786	1.269	3.895	7.173	6.96626
5823	489918.18	3859559.23	2.65004	7.02991	12.0744	7.31694	1.501	3.925	7.0486	7.02991
5824	489743.61	3859486	2.75349	6.15983	15.79303	6.71261	1.585	3.824	6.108	6.15983
5825	489660.32	3859440.27	2.84247	6.18984	29.5185	6.34927	1.828	3.824	6.2172	6.18984
5826	489577.04	3859394.53	2.98758	6.27426	13.94692	6.44225	1.699	3.906	6.0735	6.27426
5827	489493.75	3859348.8	3.00636	6.19178	8.14762	6.58087	1.575	3.844	5.957	6.19178
5828	489321.28	3859240.02	3.20835	6.80441	3.00069	7.88797	1.616	3.923	6.2723	6.80441
5829	489235.41	3859193.96	3.40523	6.96514	2.28932	11.26857	1.922	3.99	6.2687	6.96514
5830	489149.54	3859147.89	3.6425	6.54955	1.96225	10.4305	1.957	4.153	5.8348	6.54955
5831	489063.68	3859101.82	4.02429	6.64174	1.71545	9.02366	2.225	4.16	5.6967	6.64174
5832	488977.81	3859055.75	4.33892	6.7147	1.5335	7.92214	2.26	4.101	5.3385	6.7147
5833	488891.94	3859009.69	4.698	6.48077	1.54094	6.40813	2.178	4.141	5.0393	6.48077
5834	488808	3859060.73	4.86825	4.24593	1.31276	5.28547	2.07	4.065	3.1104	4.24593
5835	488809.93	3859157.85	4.76953	2.97915	1.09851	5.02723	1.753	4.147	2.5202	2.97915
5836	488811.85	3859254.96	4.57304	2.53647	1.18487	4.70037	1.451	4.265	2.1939	2.53647
5837	488813.78	3859352.07	4.44501	2.10489	0.94153	4.32158	1.177	3.797	1.9118	2.10489

47.0893744	6.129133659	0.000262	1.097051	1.806675	1.375394	24.64905	22.5657122	59.58123
50.3113224	10.18906414	0.0002095	0.442749	1.337531	0.600906	51.85542	37.5132119	77.22399
49.7045987	10.48580969	0.0001957	0.473097	1.230219	0.59282	51.1619	38.6057439	75.0429
46.0252343	10.98512604	0.0001963	0.629638	1.071795	0.624804	46.00879	40.4440835	64.9015
38.9046041	14.07593769	0.0002312	0.576629	0.880551	0.637537	54.60411	51.8235655	57.85604
37.8463069	8.916753984	0.0002332	0.683408	1.227387	0.883549	33.39458	32.8289308	50.12329
37.2210111	7.169525359	0.0001988	1.108614	1.184204	1.320672	26.24446	26.3961361	47.85255
36.3585558	7.505518078	0.000325	1.00386	0.942415	1.370214	28.06327	27.6331649	47.611
36.4710318	7.862861257	0.0010881	1.03203	0.751992	1.307191	29.80025	28.9488	48.27764
34.0858721	8.241979689	0.0038253	0.990165	0.712626	1.197512	31.39424	30.3446054	46.28162
34.5621737	8.202880273	0.0036611	0.959012	0.628985	1.275679	31.3496	30.2006525	46.78134
34.0917151	8.022731143	0.0027317	0.972214	0.620371	1.339363	31.05011	29.5373951	46.56184
30.906494	8.7200564	0.0013671	1.069293	0.543379	1.197774	33.23835	32.1047467	43.57197
30.9263181	8.981931991	0.0011217	1.066601	0.554928	1.202765	34.41239	33.0688975	44.07716
30.8931387	9.289666746	0.0010169	1.053939	0.555383	1.184061	35.77824	34.2018886	44.55355
30.8010086	9.542473932	0.0008571	1.047908	0.471892	1.174544	36.81589	35.1326522	44.72192
30.5130365	9.131311339	0.0007299	1.036285	0.417821	1.161263	35.48023	33.6188694	44.12181
29.8495531	9.753632944	0.0005917	1.06584	0.41557	1.176184	38.04038	35.9100791	44.39167
27.2165915	9.096699952	0.0004338	1.063994	0.431734	1.113309	36.18678	33.4914402	41.6181
26.9779712	8.702122751	0.0004176	1.186729	0.416086	1.172354	33.99804	32.0387201	40.415
27.3221812	7.956869773	0.0003722	1.236952	0.382207	1.29375	30.18654	29.2949124	39.08396
27.2527967	7.593320924	0.0003491	1.189561	0.401268	1.27705	28.8275	27.9564298	38.58542
28.585189	8.585803373	0.0002697	0.66409	0.35991	1.405107	32.22812	31.6104655	40.21802
24.9426558	9.028363702	0.0002233	0.358952	0.361363	0.773539	34.53178	33.2398457	36.75703
24.2306554	8.43104947	0.000211	0.34375	0.34481	0.746133	32.40624	31.0407061	35.46215
24.1483329	7.837262867	0.0001995	0.314949	0.341228	0.676518	30.02861	28.8545541	34.49255
25.058262	5.539835085	0.000172	0.224544	0.350198	0.563548	20.46422	20.3960839	31.8047
24.222517	7.475246966	0.0001358	0.157219	0.318312	0.415721	28.31261	27.5217154	33.38004
21.9927162	8.91584899	0.000114	0.145841	0.324126	0.377304	34.40021	32.8255988	33.33056
16.834052	12.26916418	7.48E-05	0.11719	0.321641	0.330495	44.32361	45.1715436	29.02468
15.1958459	6.48095453	7.494E-05	0.144046	0.330921	0.368241	25.12193	23.8610158	23.78099
17.104078	7.873739649	9.623E-05	0.177603	0.339291	0.35678	31.53758	28.9888511	28.40032
18.2777727	9.195861391	0.0001444	0.234543	0.355338	0.447131	37.00535	33.8565242	31.65962
19.3300183	9.069125352	0.000182	0.279885	0.362793	0.509664	35.36934	33.3899184	31.53109
19.379683	8.991794574	0.0001989	0.30096	0.365401	0.524984	34.69467	33.1052087	31.15249
19.1593218	9.31740757	0.0002187	0.323758	0.377724	0.554825	35.50666	34.3040224	30.93589
21.6946234	15.64163199	0.0003332	0.436153	0.450927	0.724747	56.44716	57.5880028	37.80757
22.1327374	14.47777331	0.0003632	0.408736	0.441037	0.64271	53.5401	53.303009	38.34045
22.4249873	14.30000671	0.0003851	0.404515	0.429347	0.62143	52.37853	52.6485233	37.91068
22.856215	13.26356743	0.0003961	0.382266	0.435626	0.586379	49.09617	48.8326512	37.78796
23.6395824	12.14974197	0.0004293	0.373757	0.463302	0.575645	46.60616	44.7318653	39.07675
24.4977599	12.07992817	0.0004927	0.364564	0.46348	0.546085	47.00499	44.4748309	40.48247
25.4409726	12.4240843	0.0005746	0.369089	0.525635	0.54437	48.63923	45.7419151	42.20204
26.3717692	12.86616443	0.0006369	0.385988	0.594829	0.547876	50.82329	47.3695273	44.22103
27.6499059	12.98372125	0.001257	0.385413	0.703712	0.552158	49.94187	47.8023378	44.4157
28.7292793	11.37674816	0.0016442	0.353581	0.743237	0.537913	43.2776	41.8859238	43.13407
29.6576761	11.4321744	0.0030731	0.334442	0.857095	0.537906	44.05096	42.0899873	44.78334
31.1717204	11.58809187	0.001452	0.33934	0.796867	0.549449	43.03315	42.6640307	44.81604
31.3676666	11.43575744	0.0008482	0.346641	0.738581	0.540728	42.20728	42.103179	44.53432
33.4751836	12.56723951	0.0003124	0.415492	0.757656	0.551892	44.44165	46.2689715	45.94045
35.5293841	12.86409588	0.0002383	0.593562	0.901061	0.561285	44.416	47.3619115	47.50372
38.0050046	12.09653204	0.0002043	0.549417	0.917464	0.584193	41.34166	44.5359616	48.95852
41.9885133	12.26680011	0.0001786	0.475313	1.0432	0.585241	40.36317	45.1628398	51.55958
45.2712902	12.40155181	0.0001596	0.417291	1.059893	0.576875	37.82484	45.6589569	51.89295
49.017848	11.96950049	0.0001604	0.337542	1.021189	0.582552	35.70533	44.0682679	54.56585
50.7941972	7.84191712	0.0001367	0.278407	0.970606	0.5719	22.03831	28.8716897	53.62378
49.7641755	5.502268616	0.0001144	0.264805	0.821893	0.583373	17.85667	20.257775	54.53552
47.7140442	4.68467156	0.0001234	0.247588	0.680608	0.599984	15.54429	17.2476171	52.22369
46.3782087	3.887575378	9.802E-05	0.227635	0.551796	0.534136	13.54579	14.3129376	50.8123

5838	488815.71	3859449.19	4.40448	1.83886	0.96041	4.03074	0.926	3.526	1.7256	1.83886
5839	488910.04	3859547.1	4.17013	1.74553	1.12414	4.20558	1.01	3.2	1.6675	1.74553
5840	489002.45	3859547.91	4.01897	1.83391	1.3531	4.94835	1.19	2.995	1.7639	1.83391
5841	489094.85	3859548.71	3.88158	1.97126	1.67949	6.1854	1.543	2.883	1.9123	1.97126
5842	489230.05	3859601.87	4.01946	2.0105	2.75573	10.66609	1.682	2.724	1.9785	2.0105
5843	489227.52	3859680.89	3.89905	1.81046	2.44378	10.80813	1.608	2.621	1.7707	1.81046
5844	489133.47	3859760.29	3.53224	1.60886	2.19812	6.92177	1.045	2.874	1.5551	1.60886
5845	489041.96	3859760.67	3.54794	1.53597	1.79592	5.04889	0.886	3.117	1.4666	1.53597
5846	488950.45	3859761.05	3.58156	1.47481	1.51557	4.12735	0.591	3.334	1.3741	1.47481
5847	488858.94	3859761.43	3.62502	1.42867	1.33626	3.55135	0.633	3.596	1.3137	1.42867
5848	488767.43	3859761.82	3.57689	1.38013	1.29828	3.24758	0.542	3.986	1.2692	1.38013
5849	488675.92	3859762.2	3.62897	1.35704	1.18821	2.96224	0.452	4.443	1.2285	1.35704
5850	488584.41	3859762.58	3.74345	1.29918	1.16347	2.81749	0.374	4.979	1.1756	1.29918
5851	488492.9	3859762.96	3.79004	1.22847	1.11896	2.55738	0.34	5.839	1.1258	1.22847
5852	488402.76	3859830.95	3.70623	1.16096	1.37798	2.32442	0.368	7.224	1.0492	1.16096
5853	488404.14	3859898.55	3.65181	1.09404	1.06559	2.31076	0.348	7.091	1.0213	1.09404
5854	488505.18	3859964.96	3.41654	1.10751	1.07167	2.3843	0.327	5.408	1.0138	1.10751
5855	488604.84	3859963.76	3.37859	1.15323	1.10872	2.50144	0.271	4.583	1.07	1.15323
5856	488704.51	3859962.56	3.32949	1.20763	1.19175	2.93849	0.321	4.019	1.1195	1.20763
5857	488804.18	3859961.37	3.31515	1.25624	1.42332	3.21504	0.457	3.697	1.1568	1.25624
5858	488903.85	3859960.17	3.35753	1.31522	1.2468	3.63176	0.529	3.341	1.1999	1.31522
5859	489003.52	3859958.97	3.40724	1.36338	1.16201	4.40893	0.476	3.094	1.2437	1.36338
5860	489103.18	3859957.77	3.42902	1.41053	0.8993	5.90136	0.61	2.893	1.294	1.41053
5861	489201.48	3860046.59	4.0439	1.36822	1.00028	7.26884	0.69	2.823	1.2732	1.36822
5862	489200.11	3860136.61	3.99941	1.27978	0.80827	7.65629	0.511	2.757	1.1888	1.27978
5863	489198.74	3860226.63	4.13564	1.21699	0.88078	9.20073	0.415	2.757	1.0999	1.21699
5864	489197.38	3860316.66	3.98854	1.1406	0.75399	9.56804	0.338	2.678	1.0099	1.1406
5865	489196.01	3860406.68	3.87164	1.05366	0.69381	10.04928	0.319	2.769	0.9492	1.05366
5866	489194.64	3860496.7	3.85306	0.95749	0.76032	10.18132	0.305	2.768	0.8676	0.95749
5867	489193.27	3860586.72	3.7608	0.88819	0.74622	10.40032	0.316	2.749	0.8288	0.88819
5868	489092.02	3860678.13	3.36166	0.8257	0.67705	5.27915	0.282	2.714	0.7884	0.8257
5869	488992.13	3860679.53	3.3467	0.79314	0.58285	3.77058	0.173	2.965	0.7533	0.79314
5870	488892.24	3860680.92	3.2801	0.78107	0.59934	3.05063	0.154	3.267	0.7379	0.78107
5871	488792.36	3860682.31	3.18173	0.7698	0.5275	2.4992	0.187	3.722	0.7138	0.7698
5872	488692.48	3860683.7	3.12999	0.75674	0.4838	2.25005	0.222	4.39	0.7012	0.75674
5873	488592.59	3860685.09	3.07991	0.72648	0.38554	2.07828	0.153	5.469	0.6858	0.72648
5874	488492.71	3860686.49	3.01757	0.70549	0.32791	1.962	0.151	8.103	0.6813	0.70549
5875	488299.07	3860762.18	2.91199	0.71073	0.3647	1.70993	0.129	6.452	0.6551	0.71073
5876	488205.32	3860764.09	2.99945	0.69427	0.35193	1.5991	0.14	6.068	0.6392	0.69427
5877	488111.56	3860766	3.10796	0.6772	0.30215	1.55612	0.132	5.847	0.622	0.6772
5878	488017.81	3860767.91	3.05099	0.66391	0.27268	1.48265	0.118	5.475	0.6048	0.66391
5879	487924.06	3860769.81	2.98498	0.65263	0.31045	1.40506	0.111	5.116	0.5792	0.65263
5880	487830.31	3860771.72	2.80173	0.64518	0.29407	1.34419	0.114	4.275	0.56	0.64518
5881	487736.55	3860773.63	2.60724	0.63123	0.26845	1.29703	0.131	3.836	0.547	0.63123
5882	487642.8	3860775.54	2.43719	0.6155	0.29465	1.26251	0.158	3.514	0.5408	0.6155
5883	487549.48	3860684.71	2.45503	0.6231	0.33353	1.23159	0.173	3.493	0.546	0.6231
5884	487549.91	3860591.97	2.66402	0.64084	0.37746	1.26251	0.18	3.747	0.543	0.64084
5885	487550.34	3860499.23	2.92717	0.65847	0.43289	1.28515	0.187	4.582	0.5736	0.65847
5886	487550.76	3860406.49	3.19673	0.67876	0.37927	1.3707	0.195	5.376	0.5955	0.67876
5887	487551.19	3860313.75	3.33707	0.73462	0.42831	1.38924	0.203	5.473	0.633	0.73462
5888	487551.62	3860221.01	3.3615	0.7507	0.44377	1.41204	0.214	5.348	0.663	0.7507
5889	487552.05	3860128.27	3.2704	0.76708	0.50158	1.45267	0.23	5.469	0.7033	0.76708
5890	487552.48	3860035.53	3.31531	0.79949	0.59334	1.50089	0.247	5.39	0.7361	0.79949
5891	487552.91	3859942.79	3.40865	0.83071	0.52868	1.52727	0.265	5.224	0.7446	0.83071
5892	487553.33	3859850.05	3.52898	0.87208	0.57914	1.56629	0.28	5.16	0.7581	0.87208
5893	487553.76	3859757.31	3.53129	0.89629	0.509	1.65229	0.309	5.267	0.7765	0.89629
5894	487554.19	3859664.57	3.55366	0.92475	0.45433	1.59684	0.364	5.287	0.799	0.92475
5895	487460.2	3859571.05	3.75796	0.94627	0.5003	1.56258	0.361	6.159	0.7943	0.94627
5896	487365.78	3859570.27	3.70183	0.9294	0.48247	1.52584	0.405	6.054	0.7715	0.9294

45.9553281	3.396237742	9.998E-05	0.212316	0.434332	0.495993	12.22614	12.5039733	50.21648
43.5101742	3.223864169	0.000117	0.221525	0.473669	0.450133	11.81498	11.8693432	47.82512
41.9330057	3.38709546	0.0001409	0.26065	0.557939	0.421331	12.49794	12.470314	46.58779
40.4995101	3.640770701	0.0001748	0.32581	0.723585	0.405556	13.54962	13.4042735	45.74075
41.9381182	3.713244064	0.0002869	0.561826	0.788919	0.38322	14.01867	13.6710997	47.73319
40.6817881	3.343785053	0.0002544	0.569308	0.753849	0.368721	12.54626	12.3108575	45.95311
36.8545772	2.971444837	0.0002288	0.364598	0.490044	0.40437	11.01837	10.9400077	41.16363
37.0183873	2.836822425	0.000187	0.265946	0.415462	0.438513	10.39132	10.4443665	40.92227
37.3691707	2.723864451	0.0001578	0.217404	0.277103	0.468997	9.736207	10.0284877	40.76442
37.8226223	2.6386473	0.0001391	0.187064	0.296685	0.50589	9.307826	9.71474257	41.04413
37.320445	2.548997528	0.0001352	0.171063	0.254196	0.560693	8.992457	9.38467783	40.46331
37.8638357	2.506352014	0.0001237	0.156033	0.211736	0.625084	8.704366	9.22766927	40.83986
39.0582936	2.399488895	0.0001211	0.148409	0.175423	0.700434	8.329763	8.83422992	41.9777
39.5444029	2.268892781	0.0001165	0.134708	0.159254	0.821352	7.976841	8.35341248	42.55215
38.6699487	2.144206828	0.0001435	0.122437	0.172497	1.016268	7.433819	7.89435457	41.66496
38.1021429	2.020610562	0.0001109	0.121717	0.163048	0.997536	7.236421	7.43930856	41.20228
35.6473901	2.045488651	0.0001116	0.125591	0.153398	0.760798	7.183351	7.53090255	38.38523
35.2514285	2.129930093	0.0001154	0.131761	0.126843	0.64471	7.581549	7.84179172	38.02454
34.7391304	2.23040285	0.0001241	0.154782	0.150697	0.56531	7.932132	8.21170359	37.56087
34.5895102	2.320181907	0.0001482	0.169349	0.214395	0.520111	8.196487	8.54224433	37.46794
35.0316933	2.429113583	0.0001298	0.1913	0.248227	0.469937	8.50137	8.94329952	37.92847
35.550356	2.518061523	0.000121	0.232236	0.223154	0.43529	8.811992	9.27078033	38.50043
35.7776035	2.605144068	9.362E-05	0.310849	0.285848	0.406929	9.16874	9.59139328	38.96381
42.1931195	2.527000643	0.0001041	0.382879	0.323756	0.397161	9.020727	9.3036916	45.54106
41.7289211	2.363658537	8.415E-05	0.403288	0.239463	0.387774	8.422864	8.70231282	44.84374
43.1503135	2.247690074	9.169E-05	0.48464	0.194386	0.387897	7.792905	8.2753502	45.98257
41.6155061	2.106603422	7.849E-05	0.503988	0.158406	0.376765	7.155506	7.75590961	44.16094
40.3957984	1.946031704	7.223E-05	0.529337	0.149585	0.389587	6.725283	7.1647306	42.97096
40.201939	1.768412862	7.915E-05	0.536292	0.142819	0.389402	6.146905	6.51078896	42.67506
39.2393195	1.640420913	7.769E-05	0.547827	0.148052	0.386685	5.87256	6.03955932	41.79538
35.0747848	1.525006528	7.049E-05	0.278074	0.132155	0.381784	5.586028	5.61463665	37.36327
34.9186956	1.464870628	6.068E-05	0.198612	0.081015	0.417142	5.337331	5.39323351	37.02449
34.2238066	1.442578235	6.239E-05	0.160689	0.072275	0.459558	5.228075	5.31115932	36.27588
33.1974367	1.421763382	5.492E-05	0.131643	0.087683	0.523602	5.057743	5.234525	35.1854
32.6575935	1.397642533	5.037E-05	0.118519	0.104152	0.617522	4.967901	5.14571895	34.71766
32.1350703	1.341754562	4.014E-05	0.109471	0.071829	0.769319	4.859353	4.93995547	34.34688
31.4846291	1.302987593	3.414E-05	0.103347	0.070994	1.139862	4.827115	4.79722661	34.13174
30.3830318	1.312665483	3.797E-05	0.090069	0.0605	0.907633	4.641691	4.83285783	32.56277
31.2955692	1.282265086	3.664E-05	0.084231	0.065878	0.853625	4.528679	4.72093228	33.38935
32.4277375	1.250738065	3.146E-05	0.081967	0.062015	0.82251	4.407378	4.60485883	34.44752
31.8333257	1.226192423	2.839E-05	0.078097	0.055506	0.770167	4.285439	4.51448882	33.73427
31.1445926	1.205359101	3.232E-05	0.07401	0.052252	0.719631	4.103912	4.4377865	32.862
29.2326044	1.191599505	3.061E-05	0.070804	0.053363	0.601389	3.967448	4.38712762	30.73011
27.2033406	1.165834892	2.795E-05	0.06832	0.061292	0.539567	3.875976	4.2922697	28.62209
25.4290781	1.136782751	3.067E-05	0.066502	0.073981	0.494304	3.832047	4.18530805	26.84742
25.6152166	1.150819386	3.472E-05	0.064873	0.08117	0.49138	3.868607	4.23698692	27.03511
27.79577	1.183583848	3.93E-05	0.066502	0.08441	0.527137	3.847138	4.35761627	29.14696
30.5414164	1.216145147	4.507E-05	0.067694	0.087777	0.644609	4.064376	4.47749763	32.14456
33.3539432	1.253619269	3.948E-05	0.0722	0.091266	0.756242	4.219262	4.6154666	35.1311
34.8182184	1.356788537	4.459E-05	0.073177	0.094984	0.769916	4.484963	4.99530626	36.60278
35.0731154	1.386487102	4.62E-05	0.074378	0.100372	0.752337	4.697311	5.10464785	36.9794
34.122599	1.416739745	5.222E-05	0.076518	0.107781	0.769316	4.982993	5.21602941	36.25997
34.5911796	1.476598606	6.177E-05	0.079058	0.115593	0.758256	5.215251	5.43641257	36.79959
35.5650676	1.534259625	5.504E-05	0.080448	0.124339	0.734873	5.275831	5.6487039	37.66617
36.8205631	1.61066694	6.029E-05	0.082503	0.131091	0.725883	5.371554	5.93001372	38.81231
36.8446651	1.655381011	5.299E-05	0.087033	0.144751	0.740993	5.501995	6.09463811	38.88023
37.0780685	1.707944515	4.73E-05	0.084112	0.170719	0.743689	5.66092	6.28816185	39.15734
39.2096876	1.747690356	5.208E-05	0.082307	0.169238	0.866468	5.62776	6.43449464	41.26871
38.6240401	1.71653272	5.023E-05	0.080372	0.189987	0.851647	5.466002	6.31978116	40.60885

5897	487271.36	3859569.48	3.48759	0.91662	0.44506	1.48384	0.6	6.509	0.748	0.91662
5898	487176.94	3859568.7	3.42208	0.90143	0.47301	1.41823	0.594	6.062	0.7261	0.90143
5899	487082.51	3859567.92	3.22761	0.88766	0.45463	1.37253	0.506	5.442	0.7073	0.88766
5900	486988.09	3859567.14	3.00168	0.87369	0.39142	1.35822	0.461	4.998	0.6881	0.87369
5901	486893.67	3859566.36	2.84907	0.85263	0.50776	1.28988	0.429	4.708	0.6636	0.85263
5902	486799.25	3859565.58	2.72569	0.83119	0.55992	1.23871	0.515	3.809	0.6439	0.83119
5903	486704.83	3859564.79	2.62577	0.80749	0.6495	1.21301	0.583	3.532	0.6254	0.80749
5904	486610.41	3859564.01	2.53309	0.79238	0.69841	1.15905	0.536	3.413	0.6093	0.79238
5905	486515.99	3859563.23	2.40296	0.7637	0.61462	1.15217	0.564	3.129	0.5922	0.7637
5906	486421.57	3859562.45	2.31993	0.73921	0.58441	1.15687	0.581	2.913	0.5766	0.73921
5907	486327.14	3859561.67	2.2125	0.72081	0.53283	1.10946	0.711	2.773	0.5624	0.72081
5908	486232.72	3859560.89	2.08658	0.71615	0.55138	1.05813	0.699	2.653	0.5461	0.71615
5909	486138.3	3859560.1	1.98819	0.71042	0.49051	1.03687	0.696	2.586	0.5352	0.71042
5910	486043.88	3859559.32	1.90113	0.70049	0.47565	1.01393	0.892	2.508	0.5289	0.70049
5911	485949.35	3859463.54	1.88703	0.71196	0.43109	0.98774	1.254	2.448	0.5266	0.71196
5912	485949.24	3859368.55	1.91678	0.73565	0.38407	1.03593	1.868	2.511	0.5309	0.73565
5913	485949.12	3859273.55	1.95203	0.76171	0.42669	1.02475	2.055	2.552	0.5386	0.76171
5914	485949.01	3859178.56	1.97052	0.78202	0.44414	0.98547	2.017	2.659	0.5475	0.78202
5915	485948.9	3859083.56	1.99107	0.80617	0.53559	0.96016	2.165	2.804	0.5814	0.80617
5916	485948.79	3858988.56	2.07401	0.83694	0.61529	0.95665	2.21	3.181	0.5924	0.83694
5917	485948.67	3858893.57	2.131	0.86729	0.71134	0.99114	2.402	3.229	0.6041	0.86729
5918	485948.56	3858798.57	2.18054	0.91031	0.84679	1.02278	2.514	3.269	0.6295	0.91031
5919	485948.45	3858703.58	2.29668	0.97617	0.79909	1.07777	2.569	3.422	0.6433	0.97617
5920	485948.34	3858608.58	2.37012	1.03589	0.68696	1.11257	2.758	3.697	0.657	1.03589
5921	485948.22	3858513.59	2.47352	1.09671	0.88287	1.14106	3.144	3.925	0.6856	1.09671
5922	485948.11	3858418.59	2.57479	1.16533	1.11456	1.15215	3.724	4.118	0.6956	1.16533
5923	485948	3858323.59	2.66471	1.23608	1.07011	1.17349	3.804	4.28	0.7369	1.23608
5924	485947.89	3858228.6	2.75746	1.29179	0.84672	1.17478	4.316	4.648	0.7645	1.29179
5925	485947.77	3858133.6	2.89868	1.3766	0.87147	1.20109	4.728	5.16	0.7731	1.3766
5926	485947.66	3858038.61	3.20298	1.48431	0.91427	1.23396	5.089	5.393	0.8011	1.48431
5927	485854.54	3857943.35	3.33152	1.49944	0.82229	1.20312	5.053	4.436	0.8018	1.49944
5928	485761.52	3857943.09	3.08451	1.42812	0.7196	1.18328	4.915	3.757	0.7697	1.42812
5929	485668.51	3857942.83	2.83304	1.36865	0.64976	1.1758	4.706	3.186	0.7538	1.36865
5930	485575.5	3857942.56	2.66083	1.30289	0.63733	1.12869	4.352	2.793	0.7104	1.30289
5931	485482.48	3857942.3	2.50777	1.22241	0.63108	1.09628	3.957	2.472	0.696	1.22241
5932	485389.47	3857942.04	2.40164	1.14567	0.61815	1.07745	3.502	2.261	0.6836	1.14567
5933	485296.46	3857941.78	2.30348	1.07981	0.57782	1.05486	3.289	2.145	0.6694	1.07981
5934	485203.45	3857941.52	2.22913	1.06529	0.50134	1.03681	2.929	2.026	0.6633	1.06529
5935	485110.43	3857941.26	2.18906	1.0271	0.44428	1.01483	2.783	1.883	0.6485	1.0271
5936	485017.42	3857940.99	2.12199	0.99527	0.44611	0.99184	2.82	1.765	0.6273	0.99527
5937	484924.41	3857940.73	2.03847	0.96777	0.40979	0.9678	2.837	1.689	0.6081	0.96777
5938	484831.39	3857940.47	2.0028	0.93761	0.38352	0.92706	2.733	1.631	0.5917	0.93761
5939	484738.12	3857859.3	2.03155	0.9095	0.39778	0.89784	2.073	1.608	0.5937	0.9095
5940	484737.85	3857778.4	2.1389	0.93343	0.40373	0.88011	2.331	1.71	0.6255	0.93343
5941	484737.59	3857697.49	2.261	0.98012	0.46455	0.86676	2.146	1.722	0.6344	0.98012
5942	484737.32	3857616.59	2.39828	1.04042	0.48566	0.9103	2.218	1.816	0.6471	1.04042
5943	484645.53	3857535.18	2.44552	1.04672	0.51526	0.9173	1.897	1.856	0.6367	1.04672
5944	484553.99	3857534.67	2.3588	1.00625	0.43108	0.90316	1.884	1.714	0.6175	1.00625
5945	484462.46	3857534.17	2.30962	0.96089	0.3894	0.8738	1.873	1.632	0.599	0.96089
5946	484370.93	3857533.66	2.31336	0.91676	0.39418	0.83194	1.75	1.591	0.6012	0.91676
5947	484279.4	3857533.16	2.29568	0.88827	0.38169	0.79299	1.596	1.539	0.6075	0.88827
5948	484187.86	3857532.65	2.28275	0.86682	0.37406	0.78071	1.491	1.451	0.5969	0.86682
5949	484096.33	3857532.15	2.31376	0.84092	0.35703	0.77101	1.436	1.423	0.5857	0.84092
5950	484004.8	3857531.64	2.25344	0.81439	0.34023	0.76044	1.389	1.383	0.5629	0.81439
5951	483913.27	3857531.14	2.26051	0.78432	0.36093	0.74818	1.34	1.343	0.5433	0.78432
5952	483821.73	3857530.63	2.13987	0.77222	0.40774	0.73794	1.293	1.283	0.5366	0.77222
5953	483729.61	3857450.11	2.23134	0.77132	0.43882	0.73316	1.326	1.289	0.5319	0.77132
5954	483729.03	3857370.08	2.42085	0.78375	0.44602	0.74371	1.278	1.372	0.5635	0.78375
5955	483728.44	3857290.06	2.70789	0.80348	0.46551	0.75478	1.192	1.405	0.5623	0.80348

36.3887094	1.69292901	4.633E-05	0.07816	0.281216	0.915647	5.299779	6.23287907	38.42361
35.7051931	1.664874209	4.924E-05	0.074704	0.278383	0.852844	5.144964	6.12958934	37.59142
33.676138	1.639442042	4.733E-05	0.072297	0.237329	0.765498	5.011688	6.03595539	35.36648
31.3188365	1.613640491	4.075E-05	0.071543	0.215979	0.703031	4.875295	5.94096148	32.85741
29.726539	1.574744236	5.286E-05	0.067943	0.20103	0.662311	4.701775	5.79775663	31.13664
28.4392206	1.53514615	5.829E-05	0.065248	0.241648	0.535811	4.562335	5.65196783	29.7275
27.3966783	1.491374011	6.762E-05	0.063894	0.273539	0.496839	4.431397	5.49081137	28.66298
26.4296766	1.463466964	7.271E-05	0.061052	0.251552	0.480104	4.317039	5.38806563	27.6149
25.0719302	1.410497136	6.399E-05	0.060689	0.264283	0.440125	4.195809	5.19304591	26.25035
24.2056143	1.365265926	6.084E-05	0.060937	0.27248	0.409721	4.085702	5.02651757	25.37326
23.0847145	1.331282494	5.547E-05	0.05844	0.333308	0.390077	3.984594	4.90140032	24.28107
21.7708943	1.32267582	5.74E-05	0.055736	0.327775	0.373168	3.869245	4.86971302	22.84984
20.7443157	1.312092936	5.107E-05	0.054616	0.326541	0.363818	3.792369	4.83074987	21.76305
19.8359518	1.293752964	4.952E-05	0.053408	0.418192	0.35286	3.747447	4.76322736	20.93843
19.6888356	1.314937202	4.488E-05	0.052028	0.58802	0.344397	3.73108	4.84122164	20.87812
19.9992403	1.358690871	3.998E-05	0.054567	0.875843	0.353271	3.761618	5.0023101	21.40096
20.3670306	1.406821754	4.442E-05	0.053978	0.963648	0.35896	3.816104	5.17951421	21.78707
20.559951	1.444332814	4.624E-05	0.051909	0.945857	0.374107	3.879448	5.31761918	21.93803
20.774365	1.488936069	5.576E-05	0.050576	1.015248	0.394493	4.119712	5.48183557	22.36155
21.6397418	1.545765972	6.406E-05	0.050391	1.036265	0.447432	4.197651	5.69106697	23.22624
22.2343623	1.601820166	7.405E-05	0.052207	1.12632	0.454249	4.279983	5.89744244	23.85157
22.7512512	1.681274909	8.816E-05	0.053874	1.179083	0.459814	4.460305	6.18997201	24.39572
23.9630292	1.802913433	8.319E-05	0.056771	1.204752	0.481325	4.557871	6.63781017	25.42893
24.7292852	1.913211835	7.152E-05	0.058604	1.293096	0.520071	4.655153	7.04389725	26.1256
25.808137	2.025541854	9.191E-05	0.060104	1.474432	0.552207	4.857511	7.45746416	27.32056
26.8647648	2.152277894	0.000116	0.060688	1.746143	0.579237	4.928577	7.92406991	28.40773
27.8029693	2.282947885	0.0001114	0.061813	1.783792	0.602109	5.220919	8.40515934	29.3495
28.7707014	2.385840114	8.815E-05	0.06188	2.023818	0.65385	5.416829	8.78397902	30.52903
30.2441583	2.54247788	9.073E-05	0.063266	2.217261	0.725933	5.477905	9.36067435	31.91042
33.4191543	2.741410245	9.518E-05	0.064998	2.386461	0.758723	5.675941	10.0930863	34.9537
34.760311	2.76935423	8.561E-05	0.063373	2.36936	0.624018	5.681326	10.195968	36.07186
32.1830656	2.637631491	7.491E-05	0.062328	2.304531	0.528572	5.453673	9.71100266	33.45887
29.5592857	2.527794821	6.764E-05	0.061934	2.206785	0.448149	5.340732	9.30661554	30.83813
27.7624863	2.406340989	6.635E-05	0.059453	2.040572	0.392936	5.033369	8.85945736	28.83577
26.1654936	2.257700411	6.57E-05	0.057746	1.855677	0.347722	4.931411	8.31220539	27.30361
25.0581576	2.115967335	6.435E-05	0.056754	1.642071	0.31804	4.843553	7.79038485	26.24422
24.0339788	1.99432881	6.015E-05	0.055564	1.54228	0.301765	4.742941	7.34254669	25.32837
23.2582281	1.967511449	5.219E-05	0.054613	1.373492	0.284984	4.699366	7.24381286	24.39443
22.840147	1.896977358	4.625E-05	0.053455	1.304786	0.264838	4.594573	6.98412656	23.9707
22.140354	1.838189714	4.644E-05	0.052244	1.32253	0.248318	4.444293	6.76768732	23.27829
21.2689256	1.787399258	4.266E-05	0.050978	1.330117	0.237539	4.308679	6.58069143	22.40299
20.8967531	1.73169598	3.993E-05	0.048832	1.281655	0.229417	4.192266	6.37560793	22.00505
21.196724	1.679778899	4.141E-05	0.047293	0.972018	0.226148	4.206224	6.18446413	22.14376
22.3167891	1.72397583	4.203E-05	0.046359	1.092933	0.240536	4.431681	6.34718456	23.50513
23.5907523	1.81020879	4.836E-05	0.045656	1.006244	0.242259	4.494953	6.66466958	24.52545
25.0231002	1.921578408	5.056E-05	0.047949	1.040152	0.255462	4.58522	7.07470057	25.79881
25.5159914	1.93321404	5.364E-05	0.048318	0.889474	0.261037	4.511462	7.11753963	26.04201
24.6111749	1.858468958	4.488E-05	0.047573	0.88365	0.241103	4.375281	6.84234968	25.17495
24.0980422	1.774692409	4.054E-05	0.046027	0.878126	0.229538	4.244273	6.53390845	24.73683
24.1370645	1.693187579	4.104E-05	0.043822	0.82074	0.223784	4.259648	6.23383105	24.94446
23.9525954	1.640568667	3.974E-05	0.04177	0.748503	0.216444	4.304569	6.0401033	24.86439
23.8176868	1.600952111	3.894E-05	0.041123	0.699327	0.204153	4.229394	5.89424651	24.69843
24.141238	1.553116736	3.717E-05	0.040612	0.673541	0.200138	4.150108	5.71813038	25.04066
23.511873	1.504117798	3.542E-05	0.040055	0.651305	0.194593	3.988633	5.53773034	24.35288
23.5856398	1.448580743	3.758E-05	0.03941	0.6283	0.188954	3.849406	5.33325883	24.40707
22.3269098	1.426232943	4.245E-05	0.03887	0.60628	0.180549	3.802005	5.25098064	23.12991
23.2812867	1.42457071	4.568E-05	0.038619	0.621599	0.181399	3.768703	5.24486077	24.07136
25.2585903	1.447527996	4.643E-05	0.039174	0.599138	0.193054	3.992813	5.32938292	26.20096
28.2534995	1.483967839	4.846E-05	0.039757	0.559078	0.197603	3.984098	5.46354397	29.05451

5956	483727.86	3857210.03	2.95383	0.83631	0.4932	0.75398	1.038	1.439	0.5488	0.83631
5957	483641.15	3857129.07	3.15398	0.85273	0.61028	0.73938	1.002	1.469	0.5427	0.85273
5958	483555.03	3857128.14	2.97848	0.83507	0.62632	0.72694	0.983	1.402	0.5395	0.83507
5959	483468.91	3857127.2	2.81787	0.80948	0.55855	0.71422	0.963	1.354	0.5365	0.80948
5960	483382.78	3857126.26	2.67868	0.789	0.59469	0.70596	0.944	1.321	0.5411	0.789
5961	483296.66	3857125.32	2.57023	0.76978	0.56957	0.69661	0.904	1.281	0.5426	0.76978
5962	483210.54	3857124.39	2.45871	0.72742	0.69678	0.68529	0.871	1.236	0.5407	0.72742
5963	483123.4	3857030.96	2.41724	0.73884	0.62171	0.68716	0.856	1.258	0.5341	0.73884
5964	483122.38	3856938.46	2.47028	0.78218	0.80104	0.70084	0.766	1.321	0.5328	0.78218
5965	483121.35	3856845.97	2.52494	0.825	0.85802	0.71652	0.629	1.399	0.5449	0.825
5966	483120.33	3856753.47	2.7057	0.85861	0.77507	0.73259	0.651	1.408	0.5691	0.85861
5967	483119.31	3856660.98	2.74564	0.88649	0.57051	0.73788	0.625	1.446	0.5816	0.88649
5968	483118.29	3856568.49	2.78522	0.89758	0.70656	0.75153	0.583	1.457	0.5901	0.89758
5969	483117.26	3856475.99	2.90623	0.9205	0.70962	0.78418	0.549	1.496	0.5901	0.9205
5970	483116.24	3856383.5	3.0226	0.95731	0.52	0.8108	0.535	1.532	0.6011	0.95731
5971	483115.22	3856291.01	3.18402	1.00013	0.5335	0.83049	0.559	1.634	0.6129	1.00013
5972	483114.2	3856198.51	3.36321	1.06161	0.48734	0.85097	0.585	1.714	0.614	1.06161
5973	483113.17	3856106.02	3.55391	1.09777	0.56646	0.86926	0.649	1.81	0.6184	1.09777
5974	483112.15	3856013.52	3.6415	1.13907	0.58746	0.88446	0.607	1.881	0.6271	1.13907
5975	483029.25	3855920.47	3.5984	1.16342	0.67214	0.90497	0.626	1.856	0.6576	1.16342
5976	482947.37	3855919.91	3.33156	1.07738	0.70375	0.87747	0.601	1.694	0.6554	1.07738
5977	482865.49	3855919.36	3.0337	1.04645	0.58877	0.85163	0.577	1.62	0.6575	1.04645
5978	482783.61	3855918.8	2.89658	1.03607	0.60089	0.83997	0.543	1.548	0.6451	1.03607
5979	482700.33	3855818.39	3.25751	0.98751	0.65296	0.84172	0.587	1.587	0.6443	0.98751
5980	482698.92	3855718.54	3.35435	1.07394	0.76888	0.88243	0.629	1.65	0.6725	1.07394
5981	482697.52	3855618.68	3.39078	1.13843	0.90761	0.9192	0.561	1.732	0.7063	1.13843
5982	482696.11	3855518.83	3.43995	1.20719	1.18673	0.97126	0.575	1.835	0.7323	1.20719
5983	482694.71	3855418.98	3.44531	1.31633	1.1677	1.00292	0.558	1.93	0.761	1.31633
5984	482693.3	3855319.13	3.41795	1.38908	1.49858	1.03831	0.488	2.026	0.7933	1.38908
5985	482691.9	3855219.27	3.40736	1.48266	2.25044	1.08642	0.44	2.196	0.8495	1.48266
5986	482690.49	3855119.42	3.32833	1.57203	2.20454	1.15042	0.396	2.407	0.8796	1.57203
5987	482689.09	3855019.57	3.18118	1.68027	1.67464	1.2149	0.403	2.775	0.9138	1.68027
5988	482687.68	3854919.71	3.03228	1.75209	1.70096	1.24243	0.361	3.424	0.9619	1.75209
5989	482686.28	3854819.86	2.91007	1.92557	1.93288	1.26213	0.347	5.513	1.0269	1.92557
5990	482684.88	3854720.01	2.80728	2.0789	1.70628	1.30102	0.405	7.134	1.0949	2.0789
5991	482683.47	3854620.16	2.68132	2.33339	1.2469	1.37167	0.376	6.768	1.1765	2.33339
5992	482682.07	3854520.31	2.5402	2.42204	1.02055	1.43957	0.362	6.581	1.3021	2.42204
5993	482680.66	3854420.45	2.41022	2.53085	0.81121	1.51836	0.334	6.721	1.4088	2.53085
5994	482679.26	3854320.6	2.32702	2.51416	0.6645	1.58201	0.336	6.635	1.5836	2.51416
5995	482677.85	3854220.75	2.20763	2.62327	0.52903	1.49251	0.293	7.295	1.7657	2.62327
5996	482676.45	3854120.9	2.08287	2.51752	0.46949	1.49225	0.289	7.599	1.86	2.51752
5997	482675.04	3854021.04	1.97161	2.48446	0.39905	1.05912	0.285	9.28	1.9344	2.48446
5998	482673.64	3853921.19	1.77951	2.45171	0.35306	0.75185	0.31	4.075	2.0929	2.45171
5999	482672.23	3853821.34	1.64269	2.49513	0.30437	0.73213	0.3	2.247	2.2241	2.49513
6000	482670.83	3853721.48	1.44355	2.61136	0.2816	0.70243	0.328	1.276	2.4657	2.61136
6001	482669.42	3853621.63	1.259	2.77105	0.26232	0.63029	0.333	0.816	2.6697	2.77105
6002	482645.99	3853446.13	1.09205	2.90127	0.21399	0.40451	0.302	0.484	2.8954	2.90127
6003	482623.96	3853370.48	1.02076	2.94588	0.19811	0.37447	0.304	0.424	2.9597	2.94588
6004	482601.94	3853294.84	0.966	3.03892	0.18399	0.37682	0.29	0.392	3.0688	3.03892
6005	482531.29	3853133.44	0.89258	3.41232	0.16498	0.3089	0.265	0.34	3.4616	3.41232
6006	482482.68	3853047.69	0.84885	3.7506	0.15682	0.28099	0.257	0.318	3.8114	3.7506
6007	482383.08	3852897.4	0.9005	4.53593	0.13605	0.24154	0.241	0.291	4.7248	4.53593
6008	482265.64	3852765.26	0.7861	4.75884	0.12208	0.21891	0.23	0.259	4.7748	4.75884
6009	482199.16	3852697.66	0.78369	4.77399	0.11656	0.20993	0.223	0.238	4.8077	4.77399
6010	482132.69	3852630.07	0.78492	4.6696	0.10596	0.20265	0.217	0.215	4.7369	4.6696
6011	482066.21	3852562.48	0.77643	4.74148	0.10408	0.19581	0.211	0.205	4.7985	4.74148
6012	481999.74	3852494.89	0.76707	4.64542	0.10245	0.18962	0.205	0.191	4.7013	4.64542
6013	481933.26	3852427.29	0.75965	4.40462	0.09755	0.18393	0.2	0.176	4.4651	4.40462
6014	481866.79	3852359.7	0.74269	4.49309	0.09604	0.17825	0.195	0.17	4.557	4.49309

30.8195807	1.544602409	5.135E-05	0.039715	0.486776	0.202434	3.888446	5.68678307	31.29482
32.9078996	1.574928928	6.353E-05	0.038946	0.470049	0.206647	3.845084	5.79843661	33.24518
31.0767731	1.542312221	6.52E-05	0.038291	0.460863	0.197219	3.822198	5.67835125	31.45937
29.4010054	1.495049393	5.815E-05	0.037621	0.451382	0.190437	3.801154	5.50434307	29.87236
27.9487291	1.457224355	6.191E-05	0.037186	0.442557	0.185873	3.833676	5.36508213	28.54023
26.8171868	1.421726444	5.93E-05	0.036693	0.424086	0.180187	3.844375	5.234389	27.48993
25.6536128	1.343490673	7.254E-05	0.036097	0.408424	0.173827	3.831196	4.94634733	26.50037
25.2209244	1.364582564	6.472E-05	0.036196	0.401536	0.177028	3.784008	5.02400163	25.96034
25.7743315	1.444628322	8.339E-05	0.036916	0.359291	0.185786	3.775222	5.31870715	26.25755
26.3446414	1.52371368	8.933E-05	0.037742	0.294795	0.196867	3.860955	5.60987675	26.64893
28.2306495	1.585788851	8.069E-05	0.038589	0.305388	0.198041	4.032421	5.83841973	28.55254
28.6473743	1.637281139	5.939E-05	0.038867	0.292981	0.203399	4.120988	6.02799957	28.91295
29.0603428	1.657763545	7.356E-05	0.039586	0.273267	0.204976	4.180717	6.10340991	29.31332
30.3229333	1.700095081	7.388E-05	0.041306	0.257324	0.210448	4.18093	6.25926249	30.45385
31.537111	1.768080415	5.414E-05	0.042708	0.251059	0.215497	4.258656	6.50956499	31.5636
33.22133	1.847165773	5.554E-05	0.043745	0.26207	0.229814	4.342547	6.80073459	33.14599
35.0909571	1.960714763	5.074E-05	0.044824	0.274444	0.241182	4.350341	7.21878941	34.74372
37.0806769	2.027499595	5.897E-05	0.045787	0.304361	0.254686	4.381516	7.46467201	36.62992
37.9945708	2.103777625	6.116E-05	0.046588	0.284775	0.264551	4.44323	7.74550584	37.39205
37.5448753	2.148750266	6.997E-05	0.047668	0.293726	0.261083	4.659475	7.9110822	37.04457
34.7607283	1.989840781	7.326E-05	0.04622	0.281816	0.238239	4.644029	7.32602305	34.63492
31.6529258	1.93271537	6.129E-05	0.044859	0.270604	0.227917	4.658696	7.11570367	31.67207
30.2222474	1.913544281	6.256E-05	0.044245	0.254797	0.217713	4.570412	7.04512122	30.1779
33.9881077	1.823857571	6.798E-05	0.044337	0.275434	0.223224	4.565027	6.71492048	34.20513
34.9985139	1.983487356	8.005E-05	0.046481	0.29473	0.232122	4.765189	7.30263157	35.01797
35.3786162	2.102595593	9.449E-05	0.048418	0.263106	0.243615	5.00439	7.74115393	35.29968
35.8916446	2.229590202	0.0001235	0.05116	0.26961	0.258098	5.188326	8.20871166	35.67984
35.9475696	2.43116367	0.0001216	0.052828	0.26153	0.271463	5.392243	8.95084736	35.40607
35.6621017	2.565527513	0.000156	0.054692	0.22879	0.285022	5.620462	9.44553649	34.97122
35.5516081	2.738362817	0.0002343	0.057226	0.20632	0.308954	6.019297	10.0818665	34.80014
34.7270273	2.903422565	0.0002295	0.060597	0.185847	0.338569	6.232142	10.6895692	33.75826
33.1916981	3.103333799	0.0001743	0.063994	0.189031	0.390409	6.474248	11.425585	31.9873
31.6381099	3.235980001	0.0001771	0.065444	0.169261	0.481729	6.81555	11.9139503	30.4923
30.3629989	3.556384667	0.0002012	0.066482	0.162809	0.775581	7.275886	13.0935883	29.10675
29.2905118	3.83957378	0.0001776	0.06853	0.190123	1.003584	7.757407	14.1362094	28.0137
27.9762742	4.309597894	0.0001298	0.072251	0.176281	0.952089	8.335644	15.8667034	25.95556
26.5038607	4.473327855	0.0001062	0.075828	0.169646	0.925752	9.225707	16.4695102	24.90472
25.1476794	4.674291838	8.445E-05	0.079978	0.156413	0.945489	9.981998	17.2094019	23.77653
24.2795898	4.643466648	6.918E-05	0.083331	0.157435	0.93341	11.22002	17.0959124	24.22141
23.033902	4.844984708	5.508E-05	0.078617	0.137389	1.026213	12.5109	17.8378441	23.79422
21.732185	4.649672318	4.888E-05	0.078603	0.135602	1.069022	13.17842	17.1187599	23.72479
20.5713238	4.588612956	4.154E-05	0.055788	0.133848	1.305481	13.70564	16.8939569	23.46678
18.5669967	4.52812614	3.676E-05	0.039603	0.14537	0.57319	14.82909	16.6712617	22.01115
17.1394484	4.608319653	3.169E-05	0.038564	0.140896	0.316062	15.75841	16.9665113	21.03522
15.0616676	4.822987823	2.932E-05	0.037	0.15382	0.179502	17.47059	17.7568579	19.96874
13.1361155	5.117923384	2.731E-05	0.0332	0.156122	0.114796	18.916	18.842726	18.63146
11.3941977	5.358430045	2.228E-05	0.021307	0.14182	0.068097	20.51495	19.7282026	17.77063
10.6503743	5.440821399	2.062E-05	0.019725	0.142378	0.059585	20.97033	20.0315439	17.25169
10.0790211	5.612659364	1.915E-05	0.019849	0.135794	0.055186	21.74377	20.664202	16.98209
9.31297377	6.30230141	1.718E-05	0.016271	0.124381	0.047856	24.52647	23.2032662	17.12701
8.85670504	6.927079426	1.633E-05	0.014801	0.120601	0.044715	27.00479	25.5035197	17.46519
9.39560923	8.377525565	1.416E-05	0.012723	0.113188	0.040903	33.4767	30.8436464	20.57302
8.20198602	8.789223766	1.271E-05	0.011531	0.107626	0.03649	33.83118	32.3594011	18.61865
8.17684064	8.81720469	1.213E-05	0.011058	0.104531	0.033412	34.06415	32.4624188	18.74479
8.18967417	8.624404119	1.103E-05	0.010674	0.10176	0.030204	33.56272	31.7525824	18.76686
8.10109147	8.757161136	1.084E-05	0.010314	0.098998	0.028848	33.99939	32.2413557	18.75446
8.00343139	8.579745456	1.067E-05	0.009988	0.096316	0.026809	33.31019	31.588162	18.43833
7.92601282	8.135005754	1.016E-05	0.009688	0.093732	0.024728	31.6367	29.950758	17.87512
7.7490561	8.298403269	9.998E-06	0.009389	0.091266	0.023966	32.28778	30.5523408	17.90753

6015	481800.31	3852292.11	0.73436	4.39912	0.09299	0.17066	0.191	0.165	4.4552	4.39912	7.6621428	8.124847663	9.681E-06	0.008989	0.089432	0.023227	31.56656	29.9133588	17.56185
6016	481733.84	3852224.52	0.74004	4.30921	0.09069	0.16499	0.187	0.152	4.3659	4.30921	7.72140661	7.958790576	9.441E-06	0.008691	0.087782	0.021432	30.93419	29.3019843	17.43032
6017	481667.36	3852156.92	0.74315	4.3735	0.08972	0.15949	0.184	0.147	4.4278	4.3735	7.75385563	8.077529428	9.34E-06	0.008401	0.086206	0.02066	31.37242	29.7391467	17.57993
6018	481600.89	3852089.33	0.73649	4.22882	0.08902	0.15429	0.18	0.143	4.2807	4.22882	7.68436673	7.810316221	9.268E-06	0.008127	0.084626	0.020132	30.33059	28.7553443	17.18282
6019	481534.41	3852021.74	0.73645	4.25332	0.08851	0.14989	0.177	0.14	4.3064	4.25332	7.68394938	7.8555659	9.214E-06	0.007895	0.083074	0.019668	30.51204	28.9219406	17.24026
6020	481467.94	3851954.15	0.73929	4.19443	0.08814	0.14447	0.174	0.136	4.2533	4.19443	7.71358128	7.746800447	9.176E-06	0.00761	0.081583	0.019157	30.13581	28.5214974	17.18305
6021	481401.46	3851886.55	0.7495	4.18831	0.08736	0.14018	0.17	0.132	4.2411	4.18831	7.82011007	7.735497262	9.095E-06	0.007384	0.079923	0.018537	30.04944	28.4798823	17.23102
6022	481265.87	3851761.43	0.80541	4.18572	0.08556	0.1284	0.165	0.125	4.2157	4.18572	8.40346211	7.730713725	8.907E-06	0.006763	0.07748	0.017551	29.86947	28.4622707	17.64318
6023	481196.74	3851703.89	0.80283	4.14703	0.08425	0.1234	0.164	0.122	4.1972	4.14703	8.37654298	7.659256171	8.771E-06	0.0065	0.076715	0.017116	29.73868	28.1991845	17.67563
6024	481076.33	3851619.04	0.87112	4.20108	0.08159	0.11627	0.162	0.118	4.3016	4.20108	9.08906508	7.759082503	8.494E-06	0.006124	0.075927	0.016659	30.47839	28.5667164	18.85854
6025	480939.8	3851549.07	0.95215	4.52254	0.07443	0.10941	0.164	0.119	4.5445	4.52254	9.93451341	8.35279523	7.749E-06	0.005763	0.076959	0.016702	32.19928	30.7525964	19.83343
6026	480854.56	3851506.41	0.97173	4.51793	0.07166	0.10412	0.165	0.121	4.5382	4.51793	10.1388066	8.344280902	7.46E-06	0.005484	0.077236	0.017067	32.15464	30.7212491	20.01628
6027	480769.32	3851463.75	0.96438	4.61559	0.07004	0.1022	0.164	0.125	4.6117	4.61559	10.0621184	8.524651664	7.292E-06	0.005383	0.076997	0.01753	32.6752	31.3853225	19.97657
6028	480684.08	3851421.08	0.96655	4.77997	0.06843	0.10285	0.164	0.124	4.7842	4.77997	10.0847597	8.828249306	7.124E-06	0.005418	0.076687	0.017435	33.89743	32.5030819	20.4069
6029	480598.84	3851378.42	0.95531	4.64126	0.06707	0.10415	0.164	0.122	4.6855	4.64126	9.96748412	8.572062246	6.982E-06	0.005486	0.077001	0.017175	33.1986	31.5598747	20.27794
6030	480435.71	3851275.01	0.97337	5.16244	0.067	0.10295	0.164	0.118	5.2492	5.16244	10.155918	9.534642967	6.975E-06	0.005423	0.076701	0.016597	37.19255	35.1038208	21.87801
6031	480347.85	3851232.36	0.95594	5.16088	0.06736	0.10116	0.165	0.117	5.2701	5.16088	9.97405739	9.531761763	7.013E-06	0.005329	0.077367	0.016489	37.34028	35.093213	21.85207
6032	480260	3851189.72	0.93012	5.12454	0.06759	0.10112	0.166	0.118	5.2556	5.12454	9.70465747	9.464644484	7.037E-06	0.005326	0.078005	0.016558	37.23789	34.8461065	21.66098
6033	480172.15	3851147.07	0.92475	5.07664	0.06769	0.10099	0.168	0.117	5.2178	5.07664	9.64862813	9.376176745	7.047E-06	0.00532	0.078544	0.016466	36.97007	34.5203936	21.57481
6034	480084.29	3851104.42	0.99278	5.0686	0.06667	0.1028	0.168	0.117	5.2179	5.0686	10.3584375	9.361327462	6.941E-06	0.005415	0.078652	0.016406	36.97056	34.4657228	22.32508
6035	479996.44	3851061.77	1.03426	5.06067	0.06635	0.10416	0.168	0.117	5.2267	5.06067	10.7912302	9.346681342	6.907E-06	0.005487	0.078905	0.016393	37.03313	34.4118	22.86003
6036	479908.58	3851019.13	1.0741	5.42999	0.06659	0.10559	0.169	0.116	5.6136	5.42999	11.2069116	10.02878793	6.932E-06	0.005562	0.07905	0.016375	39.77431	36.9231208	24.18788
6037	479820.73	3850976.48	1.08594	5.42142	0.06573	0.10651	0.169	0.115	5.6221	5.42142	11.3304474	10.01295978	6.843E-06	0.00561	0.079172	0.016172	39.83475	36.8648461	24.41427
6038	479732.88	3850933.83	1.22502	5.43163	0.06518	0.10654	0.169	0.114	5.6407	5.43163	12.781576	10.03181689	6.786E-06	0.005612	0.079458	0.016068	39.96632	36.9342726	25.94659
6039	479645.02	3850891.18	1.23249	5.41662	0.06482	0.10578	0.169	0.115	5.617	5.41662	12.8595163	10.00409453	6.748E-06	0.005572	0.079285	0.016181	39.79819	36.8322068	25.93064
6040	479557.17	3850848.54	1.30343	5.35877	0.06519	0.10765	0.169	0.111	5.553	5.35877	13.5996879	9.897249885	6.787E-06	0.00567	0.079215	0.01566	39.34508	36.4388355	26.50373
6041	479469.32	3850805.89	1.28418	5.57102	0.06513	0.10924	0.169	0.105	5.7628	5.57102	13.3988378	10.28925986	6.78E-06	0.005754	0.079318	0.014751	40.8313	37.8821038	26.73713
6042	479381.46	3850763.24	1.23919	5.51947	0.06441	0.10998	0.169	0.099	5.7128	5.51947	12.9294225	10.19405084	6.705E-06	0.005793	0.079299	0.013954	40.47725	37.5315715	26.1682
6043	479293.61	3850720.59	1.22051	5.25358	0.0648	0.11078	0.169	0.092	5.4486	5.25358	12.7345197	9.702971773	6.746E-06	0.005835	0.07928	0.01301	38.60551	35.7235592	25.41757
6044	479205.76	3850677.95	1.19111	5.06212	0.06469	0.11139	0.17	0.091	5.2461	5.06212	12.4277669	9.349359384	6.735E-06	0.005867	0.079524	0.012789	37.17023	34.4216598	24.62388
6045	479117.9	3850635.3	1.17977	4.71155	0.06356	0.11178	0.17	0.091	4.8976	4.71155	12.309448	8.701882651	6.617E-06	0.005888	0.079604	0.012845	34.70091	32.0378362	23.77275
6046	479030.05	3850592.65	1.18063	4.62056	0.06291	0.1117	0.17	0.091	4.7996	4.62056	12.318421	8.533830884	6.549E-06	0.005884	0.079651	0.012807	34.00669	31.4191177	23.53817
6047	478942.19	3850550	1.12188	4.70102	0.06204	0.11195	0.17	0.091	4.8821	4.70102	11.7054371	8.682434524	6.459E-06	0.005897	0.079857	0.012792	34.59109	31.9662337	23.11128
6048	478854.34	3850507.36	1.07759	5.22695	0.06233	0.11164	0.17	0.091	5.3851	5.22695	11.2433254	9.653788143	6.489E-06	0.005881	0.079754	0.012764	38.15545	35.5424792	23.60849
6049	478766.49	3850464.71	1.00722	5.36199	0.06257	0.11158	0.17	0.091	5.4981	5.36199	10.5091011	9.903196985	6.514E-06	0.005877	0.079608	0.012766	38.95623	36.460731	23.00606
6050	478678.63	3850422.06	1.0013	5.36376	0.06277	0.11173	0.168	0.091	5.4948	5.36376	10.4473332	9.906466044	6.535E-06	0.005885	0.078619	0.012768	38.93278	36.4727667	22.91109
6051	478590.78	3850379.41	1.00979	5.45281	0.0635	0.11234	0.16	0.091	5.5719	5.45281	10.5359159	10.07093477	6.611E-06	0.005917	0.074896	0.012807	39.47878	37.0782934	23.10096
6052	478502.93	3850336.77	0.99906	5.38471	0.064	0.11226	0.154	0.091	5.5243	5.38471	10.4239615	9.945159137	6.663E-06	0.005913	0.072406	0.012756	39.14152	36.6152236	22.9865
6053	478415.07	3850294.12	0.96401	5.29281	0.06502	0.11214	0.152	0.091	5.4299	5.29281	10.0582579	9.775426667	6.769E-06	0.005907	0.071374	0.012831	38.47266	35.9903173	22.40615
6054	478327.22	3850251.47	0.93619	5.41957	0.06589	0.11199	0.151	0.092	5.5542	5.41957	9.76799045	10.00954297	6.86E-06	0.005899	0.070586	0.012901	39.35379	36.8522664	22.36846
6055	478239.36	3850208.82	0.90188	5.46422	0.06625	0.11163	0.148	0.091	5.584	5.46422	9.41000783	10.0920082	6.897E-06	0.00588	0.069287	0.012778	39.56487	37.1558797	21.99896
6056	478151.51	3850166.18	0.87761	5.53539	0.06616	0.1111	0.145	0.089	5.6334	5.53539	9.15678025	10.2234539	6.888E-06	0.005852	0.068026	0.012472	39.91467	37.6398251	21.74144
6057	478063.66	3850123.53	0.8653	5.59149	0.06574	0.11058	0.143	0.088	5.6951	5.59149	9.02834055	10.32706643	6.844E-06	0.005825	0.066901	0.012309	40.35191	38.0212967	21.77106
6058	477975.8	3850080.88	0.84903	5.16138	0.06541	0.11154	0.142	0.088	5.2622	5.16138	8.85858312	9.532685226	6.81E-06	0.005875	0.066676	0.01241	37.28466	35.096613	20.66428
6059	477887.95	3850038.23	0.83594	5.20269	0.0649	0.11128	0.142	0.088	5.2888	5.20269	8.72200508	9.608981726	6.756E-06	0.005862	0.066408	0.012388	37.47277	35.3775148	20.51091
6060	477800.1	3849995.59	0.82439	4.96348	0.06441	0.11096	0.141	0.088	5.0503	4.96348	8.60149505	9.167178636	6.705E-06	0.005845	0.06615	0.012415	35.78291	33.7509225	19.88508
6061	477712.24	3849952.94	0.8177	4.97231	0.06406	0.11069	0.14	0.089	5.0609	4.97231	8.53169313	9.183486989	6.669E-06	0.00583	0.065869	0.012516	35.85816	33.8109652	19.8466
6062	477624.39	3849910.29	0.81964	4.91597	0.0637	0.11034	0.14	0.09	5.0148	4.91597	8.55193464	9.079431197	6.632E-06	0.005812	0.065578	0.01262	35.53188	33.4278616	19.8194
6063	477536.54	3849867.64	0.81975	4.80659	0.0634	0.10978	0.139	0.09	4.8968	4.80659	8.55308236	8.877414467	6.6E-06	0.005783	0.065377	0.012724	34.69531	32.684094	19.5256
6064	477448.68	3849825	0.80939	4.80059	0.06297	0.10803	0.133	0.091	4.8746	4.80059	8.44498851	8.866332913	6.556E-06	0.00569	0.062226	0.012859	34.53858	32.6432949	19.28739
6065	477360.83	3849782.35	0.80149	4.75137	0.06266	0.10455	0.129	0.092	4.8219	4.75137	8.36256173	8.775427231	6.523E-06	0.005507	0.06058	0.012987	34.16483	32.3086062	19.07329
6066	477272.97	3849739.7	0.79806	4.73123	0.06294	0.10063	0.127	0.093	4.7938	4.73123	8.3267739	8.738230148	6.552E-06	0.005301	0.059384	0.013041	33.96587	32.1716572	18.93695
6067	477185.12	3849697.05	0.79659	4.68404	0.063	0.0994	0.127	0.093	4.7398	4.68404	8.31143626	8.651073726	6.559E-06	0.005236	0.059778	0.013081	33.58341	31.8507723	18.77325
6068	477097.27	3849654.41	0.80012	4.72114	0.06238	0.09849	0.128	0.093	4.7724	4.72114	8.34826747	8.719594668	6.494E-06	0.005188	0.06012	0.01307	33.81446	32.1030467	18.85766
6069	477009.41	3849611.76	0.82574	4.92544	0.06151	0.09727	0.128	0.093	4.9636	4.92544	8.61558063	9.096921583	6.404E-06	0.005124	0.060012	0.013046	35.16876	33.4922562	19.46719
6070	476841.49	3849530.08	0.84372	4.8318	0.05916	0.09697	0.125	0.089	4.8508	4.8318	8.80317981	8.923975463	6.159E-06	0.005108	0.058554	0.012467	34.36974	32.8555182	19.31751
6071	476761.41	3849491.05	0.90042	4.84326	0.0581	0.09734	0.124	0.087	4.8684	4.84326	9.39477452	8.945141231	6.049E-06	0.005127	0.058287	0.012174	34.49416	32.9334445	19.97622
6072	476681.34	3849452.02	0.91581	5.07982	0.05809	0.09789	0.124	0.086	5.102	5.07982	9.55535023	9.382049968	6.048E-06	0.005156	0.05801	0.012097	36.14965	34.5420171	20.6203
6073	476601.26	3849412.99	0.93083	5.33022	0.05807	0.09852	0.124	0.086	5.3568	5.33022	9.71206545	9.844520157	6.045E-06	0.005189	0.058043	0.012078	37.95451	36.2446997	21.34171

6074	476456.32	3849353.67	0.88737	6.26727	0.05766	0.0999	0.127	0.085	6.2851	6.26727	9.25861383	11.57518186	6.003E-06	0.005262	0.059656	0.012015	44.53248	42.6164997	22.82672
6075	476305.43	3849318.83	0.84494	6.12116	0.05698	0.09705	0.135	0.087	6.1539	6.12116	8.815909	11.30532755	5.932E-06	0.005112	0.06321	0.012236	43.60267	41.6229736	22.1815
6076	476129.36	3849289.99	0.83208	5.57716	0.05927	0.0968	0.132	0.093	5.6131	5.57716	8.68173073	10.30059998	6.17E-06	0.005099	0.061752	0.013042	39.77063	37.9238548	20.909
6077	476039.31	3849275.68	0.84107	5.45411	0.05886	0.09567	0.131	0.096	5.496	5.45411	8.77553032	10.07333578	6.128E-06	0.005039	0.061264	0.01354	38.94121	37.0871332	20.7828
6078	475949.26	3849261.38	0.85884	5.79899	0.05845	0.09325	0.129	0.096	5.834	5.79899	8.9609384	10.7103035	6.085E-06	0.004912	0.060472	0.01352	41.33599	39.4322657	21.65388
6079	475859.21	3849247.08	0.889	5.5389	0.05783	0.08968	0.127	0.097	5.5664	5.5389	9.27562088	10.22993661	6.02E-06	0.004724	0.059473	0.013579	39.44009	37.6636926	21.35974
6080	475769.16	3849232.77	0.88267	5.33271	0.05718	0.08605	0.123	0.097	5.3584	5.33271	9.20957512	9.849119002	5.953E-06	0.004533	0.057879	0.01362	37.96591	36.2616314	20.83901
6081	475585.22	3849219.27	0.78373	3.62606	0.05504	0.08158	0.119	0.097	3.657	3.62606	8.17725799	6.697063303	5.73E-06	0.004297	0.055656	0.013608	25.91081	24.6566663	16.20203
6082	475444.49	3849150.34	0.90577	6.38146	0.05427	0.08121	0.119	0.095	6.4239	6.38146	9.45059519	11.7860823	5.65E-06	0.004278	0.0556	0.01339	45.51586	43.3929747	23.43284
6083	475334.17	3849118.71	0.73548	5.26278	0.05364	0.08192	0.12	0.095	5.2896	5.26278	7.67382862	9.719963489	5.584E-06	0.004315	0.056078	0.013364	37.47872	35.7861178	19.16016
6084	475230.46	3849060.57	0.72526	5.24267	0.05273	0.08147	0.119	0.094	5.2828	5.24267	7.5671955	9.682821814	5.49E-06	0.004291	0.055754	0.0132	37.43061	35.6493728	19.10451
6085	475110.86	3848960.97	0.67708	5.00412	0.05227	0.08038	0.117	0.092	5.0481	5.00412	7.0644965	9.242237695	5.442E-06	0.004234	0.054939	0.012892	35.7674	34.0272684	18.11893
6086	475037.79	3848896.28	0.64561	5.33993	0.05199	0.07929	0.116	0.091	5.3845	5.33993	6.73614578	9.862453805	5.412E-06	0.004177	0.054334	0.012803	38.15141	36.3107263	18.5106
6087	474964.72	3848831.59	0.62543	5.53084	0.05163	0.07755	0.114	0.09	5.5763	5.53084	6.52559231	10.21505039	5.375E-06	0.004085	0.053518	0.012718	39.51024	37.6088858	18.71232
6088	474891.65	3848766.9	0.54539	5.59562	0.05127	0.07683	0.113	0.09	5.6392	5.59562	5.69047342	10.33469423	5.338E-06	0.004047	0.052908	0.012635	39.95562	38.0493801	18.00101
6089	474818.58	3848702.22	0.52971	5.71577	0.05092	0.07646	0.111	0.089	5.7575	5.71577	5.52687192	10.55660235	5.301E-06	0.004027	0.05228	0.012552	40.79404	38.8663821	18.07999
6090	474745.51	3848637.53	0.45268	5.53263	0.05099	0.07659	0.111	0.089	5.5721	5.53263	4.72315867	10.21835638	5.308E-06	0.004034	0.05198	0.012583	39.48027	37.6210575	16.86933
6091	474672.44	3848572.84	0.42218	5.48088	0.05074	0.07599	0.11	0.089	5.5207	5.48088	4.40492871	10.12277798	5.282E-06	0.004003	0.051731	0.012576	39.1158	37.2691652	16.44265
6092	474599.37	3848508.15	0.40957	5.69419	0.05047	0.07481	0.11	0.089	5.7397	5.69419	4.27335888	10.51674569	5.254E-06	0.003941	0.051797	0.012474	40.66813	38.7196414	16.80681
6093	474526.3	3848443.46	0.40102	5.76852	0.0502	0.07482	0.111	0.088	5.8076	5.76852	4.18415015	10.65402768	5.226E-06	0.003941	0.051872	0.012416	41.14922	39.2250743	16.83056

NOx
1hr 8th
Concentration [ug/m^3] at 1 g/s

	X	Y	Equipment	Rail Hauling	Rail Idling	Off-Site	Solar	33kV	S Main	Remove Ex Ma
1	485973.61	3854936.51	2.96429	0.3088	1.66234	1.95725	0.466	1.188	1.1487	0.3088
2	486023.61	3854936.51	2.90921	0.30711	1.57562	1.83166	0.47	1.135	1.1004	0.30711
3	486073.61	3854936.51	2.81364	0.29952	1.531	1.77068	0.486	1.097	1.0638	0.29952
4	486123.61	3854936.51	2.7358	0.27798	1.48208	1.66661	0.506	1.024	1.0058	0.27798
5	486173.61	3854936.51	2.69785	0.27606	1.47188	1.62399	0.509	1.002	0.9871	0.27606
6	486223.61	3854936.51	2.63472	0.26641	1.45697	1.53692	0.517	0.947	0.9549	0.26641
7	486273.61	3854936.51	2.57998	0.26336	1.42413	1.46966	0.552	0.915	0.9249	0.26336
8	486323.61	3854936.51	2.5247	0.26148	1.41586	1.42056	0.593	0.894	0.8985	0.26148
9	485973.61	3854986.51	3.02744	0.3108	1.57632	2.11222	0.471	1.287	1.2222	0.3108
10	486023.61	3854986.51	2.97611	0.30938	1.50045	2.00331	0.486	1.23	1.1645	0.30938
11	486073.61	3854986.51	2.92466	0.30862	1.47226	1.90285	0.486	1.167	1.1312	0.30862
12	486123.61	3854986.51	2.87332	0.3043	1.42953	1.83446	0.515	1.116	1.0891	0.3043
13	486173.61	3854986.51	2.78634	0.29136	1.45677	1.76811	0.522	1.093	1.0488	0.29136
14	486223.61	3854986.51	2.72498	0.27823	1.46995	1.69452	0.522	1.054	0.9953	0.27823
15	486273.61	3854986.51	2.66496	0.26869	1.4315	1.62158	0.534	1.011	0.9619	0.26869
16	486323.61	3854986.51	2.62974	0.27128	1.41134	1.60967	0.587	1.003	0.9581	0.27128
17	485973.61	3855036.51	3.10466	0.31386	1.54854	2.15492	0.467	1.409	1.2497	0.31386
18	486023.61	3855036.51	3.04879	0.31171	1.52043	2.0568	0.494	1.355	1.217	0.31171
19	486073.61	3855036.51	2.99204	0.30819	1.51322	1.963	0.508	1.275	1.1921	0.30819
20	486123.61	3855036.51	2.93798	0.30781	1.47387	1.85686	0.505	1.212	1.1367	0.30781
21	486173.61	3855036.51	2.8929	0.30936	1.49537	1.79852	0.546	1.17	1.1062	0.30936
22	486223.61	3855036.51	2.80629	0.29584	1.44919	1.71187	0.537	1.118	1.0756	0.29584
23	486273.61	3855036.51	2.76855	0.28435	1.42875	1.6771	0.541	1.101	1.0451	0.28435
24	486323.61	3855036.51	2.71838	0.27687	1.3648	1.6276	0.578	1.068	0.9943	0.27687
25	485973.61	3855086.51	3.17975	0.32702	1.62458	2.32249	0.486	1.487	1.3143	0.32702
26	486023.61	3855086.51	3.12371	0.32072	1.57376	2.23894	0.482	1.451	1.2561	0.32072
27	486073.61	3855086.51	3.06534	0.31182	1.53242	2.12689	0.511	1.38	1.2119	0.31182
28	486123.61	3855086.51	3.01535	0.31221	1.54345	2.01453	0.529	1.325	1.189	0.31221
29	486173.61	3855086.51	2.96616	0.3086	1.50356	1.88698	0.533	1.241	1.1699	0.3086
30	486223.61	3855086.51	2.92202	0.30897	1.41109	1.82872	0.566	1.185	1.1301	0.30897
31	485973.61	3855136.51	3.22527	0.34977	1.59372	2.35758	0.493	1.556	1.3916	0.34977
32	486023.61	3855136.51	3.18411	0.33723	1.57332	2.25735	0.499	1.505	1.3496	0.33723
33	486073.61	3855136.51	3.14492	0.32765	1.53316	2.19214	0.519	1.441	1.2973	0.32765
34	486123.61	3855136.51	3.09551	0.31923	1.49982	2.09972	0.532	1.396	1.2207	0.31923
35	486173.61	3855136.51	3.04571	0.31334	1.45058	2.02295	0.548	1.337	1.1714	0.31334
36	486223.61	3855136.51	2.99638	0.31301	1.41342	1.93426	0.561	1.288	1.1459	0.31301
37	485973.61	3855186.51	3.26726	0.37743	1.81791	2.49623	0.501	1.638	1.4207	0.37743
38	486023.61	3855186.51	3.23337	0.36478	1.75431	2.40127	0.513	1.573	1.4118	0.36478
39	486073.61	3855186.51	3.20466	0.34623	1.6507	2.22082	0.51	1.502	1.3662	0.34623
40	486123.61	3855186.51	3.16918	0.33142	1.5764	2.11783	0.544	1.424	1.3134	0.33142
41	486173.61	3855186.51	3.1195	0.32348	1.49062	2.04939	0.552	1.373	1.2861	0.32348
42	486223.61	3855186.51	3.0693	0.31597	1.40266	1.98256	0.574	1.316	1.2301	0.31597
43	486273.61	3855186.51	3.01931	0.31081	1.39962	1.90549	0.597	1.256	1.1631	0.31081
44	486323.61	3855186.51	2.97725	0.31628	1.43041	1.89047	0.59	1.244	1.1389	0.31628
45	485973.61	3855236.51	3.31771	0.40813	1.69693	2.76535	0.517	1.712	1.4937	0.40813
46	486023.61	3855236.51	3.28503	0.3854	1.68164	2.57634	0.523	1.656	1.4166	0.3854
47	486073.61	3855236.51	3.26155	0.36571	1.62433	2.35495	0.531	1.568	1.3518	0.36571
48	486123.61	3855236.51	3.22484	0.35223	1.54642	2.24647	0.554	1.51	1.3097	0.35223
49	486173.61	3855236.51	3.18416	0.33955	1.54013	2.13651	0.569	1.443	1.2706	0.33955
50	486223.61	3855236.51	3.13858	0.3278	1.54672	2.01003	0.573	1.352	1.2276	0.3278
51	486273.61	3855236.51	3.08557	0.31535	1.51905	1.8806	0.596	1.251	1.1745	0.31535
52	486323.61	3855236.51	3.04573	0.32465	1.54963	1.90198	0.631	1.278	1.2006	0.32465
53	485973.61	3855286.51	3.39135	0.42713	1.68272	2.93945	0.562	1.809	1.5375	0.42713
54	486023.61	3855286.51	3.36576	0.41237	1.58613	2.69573	0.538	1.732	1.505	0.41237
55	486073.61	3855286.51	3.32749	0.39266	1.59331	2.5687	0.545	1.655	1.4495	0.39266

Rates (g/s): 6.97E+00 1.85E+00 1.04E-04 3.52E-02 3.13E-01 9.40E-02 7.09E+00 6.80E+00

Mitigated
Concentration [ug/m^3]

	Equipmen	Rail Haulin	Rail Idling	Off-Site	Solar	33kV	S Main	Remove E	Total
1	2.07E+01	5.70E-01	1.73E-04	6.89E-02	1.46E-01	1.12E-01	8.14E+00	2.10E+00	2.76E+01
2	2.03E+01	5.67E-01	1.64E-04	6.45E-02	1.47E-01	1.07E-01	7.80E+00	2.09E+00	2.69E+01
3	1.96E+01	5.53E-01	1.59E-04	6.23E-02	1.52E-01	1.03E-01	7.54E+00	2.04E+00	2.60E+01
4	1.91E+01	5.13E-01	1.54E-04	5.87E-02	1.59E-01	9.62E-02	7.13E+00	1.89E+00	2.51E+01
5	1.88E+01	5.10E-01	1.53E-04	5.72E-02	1.59E-01	9.42E-02	6.99E+00	1.88E+00	2.47E+01
6	1.84E+01	4.92E-01	1.52E-04	5.41E-02	1.62E-01	8.90E-02	6.77E+00	1.81E+00	2.41E+01
7	1.80E+01	4.86E-01	1.48E-04	5.17E-02	1.73E-01	8.60E-02	6.55E+00	1.79E+00	2.35E+01
8	1.76E+01	4.83E-01	1.47E-04	5.00E-02	1.86E-01	8.41E-02	6.37E+00	1.78E+00	2.30E+01
9	2.11E+01	5.74E-01	1.64E-04	7.43E-02	1.48E-01	1.21E-01	8.66E+00	2.11E+00	2.86E+01
10	2.07E+01	5.71E-01	1.56E-04	7.05E-02	1.52E-01	1.16E-01	8.25E+00	2.10E+00	2.78E+01
11	2.04E+01	5.70E-01	1.53E-04	6.70E-02	1.52E-01	1.10E-01	8.01E+00	2.10E+00	2.72E+01
12	2.00E+01	5.62E-01	1.49E-04	6.46E-02	1.61E-01	1.05E-01	7.72E+00	2.07E+00	2.66E+01
13	1.94E+01	5.38E-01	1.52E-04	6.22E-02	1.64E-01	1.03E-01	7.43E+00	1.98E+00	2.57E+01
14	1.90E+01	5.14E-01	1.53E-04	5.96E-02	1.64E-01	9.91E-02	7.05E+00	1.89E+00	2.50E+01
15	1.86E+01	4.96E-01	1.49E-04	5.71E-02	1.67E-01	9.51E-02	6.82E+00	1.83E+00	2.44E+01
16	1.83E+01	5.01E-01	1.47E-04	5.67E-02	1.84E-01	9.43E-02	6.79E+00	1.84E+00	2.41E+01
17	2.16E+01	5.80E-01	1.61E-04	7.58E-02	1.46E-01	1.32E-01	8.85E+00	2.13E+00	2.93E+01
18	2.13E+01	5.76E-01	1.58E-04	7.24E-02	1.55E-01	1.27E-01	8.62E+00	2.12E+00	2.87E+01
19	2.09E+01	5.69E-01	1.58E-04	6.91E-02	1.59E-01	1.20E-01	8.45E+00	2.10E+00	2.81E+01
20	2.05E+01	5.69E-01	1.53E-04	6.54E-02	1.58E-01	1.14E-01	8.05E+00	2.09E+00	2.73E+01
21	2.02E+01	5.71E-01	1.56E-04	6.33E-02	1.71E-01	1.10E-01	7.84E+00	2.10E+00	2.68E+01
22	1.96E+01	5.46E-01	1.51E-04	6.03E-02	1.68E-01	1.05E-01	7.62E+00	2.01E+00	2.61E+01
23	1.93E+01	5.25E-01	1.49E-04	5.90E-02	1.69E-01	1.03E-01	7.40E+00	1.93E+00	2.56E+01
24	1.90E+01	5.11E-01	1.42E-04	5.73E-02	1.81E-01	1.00E-01	7.05E+00	1.88E+00	2.50E+01
25	2.22E+01	6.04E-01	1.69E-04	8.17E-02	1.52E-01	1.40E-01	9.31E+00	2.22E+00	3.02E+01
26	2.18E+01	5.92E-01	1.64E-04	7.88E-02	1.51E-01	1.36E-01	8.90E+00	2.18E+00	2.95E+01
27	2.14E+01	5.76E-01	1.60E-04	7.49E-02	1.60E-01	1.30E-01	8.59E+00	2.12E+00	2.88E+01
28	2.10E+01	5.77E-01	1.61E-04	7.09E-02	1.66E-01	1.25E-01	8.42E+00	2.12E+00	2.83E+01
29	2.07E+01	5.70E-01	1.57E-04	6.64E-02	1.67E-01	1.17E-01	8.29E+00	2.10E+00	2.78E+01
30	2.04E+01	5.71E-01	1.47E-04	6.44E-02	1.77E-01	1.11E-01	8.01E+00	2.10E+00	2.72E+01
31	2.25E+01	6.46E-01	1.66E-04	8.30E-02	1.55E-01	1.46E-01	9.86E+00	2.38E+00	3.10E+01
32	2.22E+01	6.23E-01	1.64E-04	7.94E-02	1.56E-01	1.41E-01	9.56E+00	2.29E+00	3.05E+01
33	2.19E+01	6.05E-01	1.60E-04	7.72E-02	1.63E-01	1.35E-01	9.19E+00	2.23E+00	2.99E+01
34	2.16E+01	5.90E-01	1.56E-04	7.39E-02	1.67E-01	1.31E-01	8.65E+00	2.17E+00	2.90E+01
35	2.12E+01	5.79E-01	1.51E-04	7.12E-02	1.72E-01	1.26E-01	8.30E+00	2.13E+00	2.84E+01
36	2.09E+01	5.78E-01	1.47E-04	6.81E-02	1.76E-01	1.21E-01	8.12E+00	2.13E+00	2.78E+01
37	2.28E+01	6.97E-01	1.89E-04	8.79E-02	1.57E-01	1.54E-01	1.01E+01	2.57E+00	3.14E+01
38	2.25E+01	6.74E-01	1.83E-04	8.45E-02	1.61E-01	1.48E-01	1.00E+01	2.48E+00	3.11E+01
39	2.23E+01	6.39E-01	1.72E-04	7.82E-02	1.60E-01	1.41E-01	9.68E+00	2.35E+00	3.07E+01
40	2.21E+01	6.12E-01	1.64E-04	7.45E-02	1.70E-01	1.34E-01	9.31E+00	2.25E+00	3.01E+01
41	2.17E+01	5.97E-01	1.55E-04	7.21E-02	1.73E-01	1.29E-01	9.11E+00	2.20E+00	2.96E+01
42	2.14E+01	5.84E-01	1.46E-04	6.98E-02	1.80E-01	1.24E-01	8.72E+00	2.15E+00	2.89E+01
43	2.10E+01	5.74E-01	1.46E-04	6.71E-02	1.87E-01	1.18E-01	8.24E+00	2.11E+00	2.81E+01
44	2.08E+01	5.84E-01	1.49E-04	6.65E-02	1.85E-01	1.17E-01	8.07E+00	2.15E+00	2.76E+01
45	2.31E+01	7.54E-01	1.77E-04	9.73E-02	1.62E-01	1.61E-01	1.06E+01	2.78E+00	3.21E+01
46	2.29E+01	7.12E-01	1.75E-04	9.07E-02	1.64E-01	1.56E-01	1.00E+01	2.62E+00	3.14E+01
47	2.27E+01	6.75E-01	1.69E-04	8.29E-02	1.66E-01	1.47E-01	9.58E+00	2.49E+00	3.09E+01
48	2.25E+01	6.51E-01	1.61E-04	7.91E-02	1.74E-01	1.42E-01	9.28E+00	2.40E+00	3.04E+01
49	2.22E+01	6.27E-01	1.60E-04	7.52E-02	1.78E-01	1.36E-01	9.00E+00	2.31E+00	2.99E+01
50	2.19E+01	6.05E-01	1.61E-04	7.07E-02	1.79E-01	1.27E-01	8.70E+00	2.23E+00	2.93E+01
51	2.15E+01	5.82E-01	1.58E-04	6.62E-02	1.87E-01	1.18E-01	8.32E+00	2.14E+00	2.86E+01
52	2.12E+01	6.00E-01	1.61E-04	6.69E-02	1.98E-01	1.20E-01	8.51E+00	2.21E+00	2.85E+01
53	2.36E+01	7.89E-01	1.75E-04	1.03E-01	1.76E-01	1.70E-01	1.09E+01	2.90E+00	3.29E+01
54	2.35E+01	7.62E-01	1.65E-04	9.49E-02	1.69E-01	1.63E-01	1.07E+01	2.80E+00	3.25E+01
55	2.32E+01	7.25E-01	1.66E-04	9.04E-02	1.71E-01	1.56E-01	1.03E+01	2.67E+00	3.19E+01

56	486123.61	3855286.51	3.28685	0.37054	1.58795	2.44837	0.549	1.56	1.3153	0.37054	2.29E+01	6.84E-01	1.65E-04	8.62E-02	1.72E-01	1.47E-01	9.32E+00	2.52E+00	3.08E+01
57	486173.61	3855286.51	3.24136	0.35658	1.57987	2.3079	0.578	1.487	1.2704	0.35658	2.26E+01	6.59E-01	1.64E-04	8.12E-02	1.81E-01	1.40E-01	9.00E+00	2.42E+00	3.02E+01
58	486223.61	3855286.51	3.19799	0.34483	1.60805	2.17723	0.597	1.443	1.2368	0.34483	2.23E+01	6.37E-01	1.67E-04	7.66E-02	1.87E-01	1.36E-01	8.76E+00	2.34E+00	2.98E+01
59	486123.61	3855336.51	3.37246	0.39551	1.87218	2.46948	0.57	1.672	1.3697	0.39551	2.35E+01	7.30E-01	1.95E-04	8.69E-02	1.79E-01	1.57E-01	9.70E+00	2.69E+00	3.17E+01
60	486173.61	3855336.51	3.32281	0.37464	1.93258	2.36573	0.598	1.59	1.3028	0.37464	2.32E+01	6.92E-01	2.01E-04	8.33E-02	1.87E-01	1.49E-01	9.23E+00	2.55E+00	3.10E+01
61	486223.61	3855336.51	3.27341	0.36487	1.8111	2.26204	0.605	1.504	1.2195	0.36487	2.28E+01	6.74E-01	1.89E-04	7.96E-02	1.90E-01	1.41E-01	8.64E+00	2.48E+00	3.01E+01
62	486123.61	3855386.51	3.46426	0.41855	2.06141	2.60715	0.583	1.7	1.3763	0.41855	2.42E+01	7.73E-01	2.15E-04	9.18E-02	1.83E-01	1.60E-01	9.75E+00	2.85E+00	3.23E+01
63	486173.61	3855386.51	3.41558	0.40626	2.15145	2.46216	0.598	1.632	1.3215	0.40626	2.38E+01	7.50E-01	2.24E-04	8.67E-02	1.87E-01	1.53E-01	9.36E+00	2.76E+00	3.16E+01
64	486223.61	3855386.51	3.36247	0.38531	2.19163	2.33242	0.624	1.571	1.2474	0.38531	2.34E+01	7.12E-01	2.28E-04	8.21E-02	1.96E-01	1.48E-01	8.84E+00	2.62E+00	3.08E+01
65	486533.18	3855443.15	3.13321	0.35326	2.23772	1.89761	0.727	1.294	1.0508	0.35326	2.18E+01	6.52E-01	2.33E-04	6.68E-02	2.28E-01	1.22E-01	7.44E+00	2.40E+00	2.80E+01
66	486583.18	3855443.15	3.08898	0.34336	2.05014	1.79571	0.761	1.229	1.0379	0.34336	2.15E+01	6.34E-01	2.13E-04	6.32E-02	2.38E-01	1.16E-01	7.35E+00	2.33E+00	2.76E+01
67	486633.18	3855443.15	3.04953	0.33533	1.97868	1.70796	0.835	1.164	1.0211	0.33533	2.13E+01	6.19E-01	2.06E-04	6.01E-02	2.62E-01	1.09E-01	7.24E+00	2.28E+00	2.73E+01
68	486683.18	3855443.15	3.00538	0.332	1.97516	1.66375	0.869	1.144	1.0047	0.332	2.10E+01	6.13E-01	2.06E-04	5.86E-02	2.72E-01	1.08E-01	7.12E+00	2.26E+00	2.69E+01
69	486533.18	3855493.15	3.23145	0.36439	2.2559	1.9149	0.76	1.291	1.0744	0.36439	2.25E+01	6.73E-01	2.35E-04	6.74E-02	2.38E-01	1.21E-01	7.61E+00	2.48E+00	2.88E+01
70	486583.18	3855493.15	3.14933	0.35948	2.18945	1.85096	0.77	1.26	1.0545	0.35948	2.20E+01	6.64E-01	2.28E-04	6.51E-02	2.41E-01	1.18E-01	7.47E+00	2.44E+00	2.81E+01
71	486633.18	3855493.15	3.1107	0.35136	2.0867	1.76078	0.827	1.236	1.0178	0.35136	2.17E+01	6.49E-01	2.17E-04	6.20E-02	2.59E-01	1.16E-01	7.21E+00	2.39E+00	2.76E+01
72	486683.18	3855493.15	3.07194	0.34313	2.16306	1.69394	0.886	1.213	0.9764	0.34313	2.14E+01	6.34E-01	2.25E-04	5.96E-02	2.78E-01	1.14E-01	6.92E+00	2.33E+00	2.71E+01
73	486533.18	3855543.15	3.33852	0.37354	2.54675	1.97119	0.766	1.317	1.1014	0.37354	2.33E+01	6.90E-01	2.65E-04	6.94E-02	2.40E-01	1.24E-01	7.80E+00	2.54E+00	2.97E+01
74	486583.18	3855543.15	3.24603	0.36574	2.53477	1.87453	0.81	1.264	1.0744	0.36574	2.26E+01	6.75E-01	2.64E-04	6.60E-02	2.54E-01	1.19E-01	7.61E+00	2.49E+00	2.89E+01
75	486633.18	3855543.15	3.19011	0.36009	2.46015	1.81232	0.81	1.224	1.0489	0.36009	2.22E+01	6.65E-01	2.56E-04	6.38E-02	2.54E-01	1.15E-01	7.43E+00	2.45E+00	2.83E+01
76	486683.18	3855543.15	3.15475	0.35111	2.38327	1.7252	0.898	1.185	1.0118	0.35111	2.20E+01	6.48E-01	2.48E-04	6.07E-02	2.81E-01	1.11E-01	7.17E+00	2.39E+00	2.79E+01
77	486533.18	3855593.15	3.44956	0.389	2.88993	2.03308	0.784	1.326	1.1062	0.389	2.40E+01	7.18E-01	3.01E-04	7.16E-02	2.46E-01	1.25E-01	7.84E+00	2.65E+00	3.04E+01
78	486583.18	3855593.15	3.34766	0.37492	2.84297	1.93711	0.81	1.272	1.0712	0.37492	2.33E+01	6.92E-01	2.96E-04	6.82E-02	2.54E-01	1.20E-01	7.59E+00	2.55E+00	2.95E+01
79	486633.18	3855593.15	3.26335	0.3692	2.73065	1.86681	0.868	1.234	1.0432	0.3692	2.28E+01	6.82E-01	2.84E-04	6.57E-02	2.72E-01	1.16E-01	7.39E+00	2.51E+00	2.88E+01
80	486683.18	3855593.15	3.22575	0.3639	2.66167	1.80452	0.898	1.207	1.0306	0.3639	2.25E+01	6.72E-01	2.77E-04	6.35E-02	2.82E-01	1.13E-01	7.30E+00	2.47E+00	2.84E+01
81	486533.18	3855643.15	3.56453	0.41179	2.79346	2.12468	0.811	1.375	1.1216	0.41179	2.49E+01	7.61E-01	2.91E-04	7.48E-02	2.54E-01	1.29E-01	7.95E+00	2.80E+00	3.12E+01
82	486583.18	3855643.15	3.47062	0.3909	2.68561	2.03216	0.83	1.286	1.0861	0.3909	2.42E+01	7.22E-01	2.80E-04	7.15E-02	2.60E-01	1.21E-01	7.70E+00	2.66E+00	3.04E+01
83	486633.18	3855643.15	3.36567	0.378	2.58336	1.94514	0.882	1.244	1.0433	0.378	2.35E+01	6.98E-01	2.69E-04	6.85E-02	2.76E-01	1.17E-01	7.39E+00	2.57E+00	2.94E+01
84	486683.18	3855643.15	3.29729	0.37284	2.4965	1.87689	0.936	1.21	1.0243	0.37284	2.30E+01	6.89E-01	2.60E-04	6.61E-02	2.93E-01	1.14E-01	7.26E+00	2.54E+00	2.89E+01
85	486533.18	3855693.15	3.65069	0.43811	2.80737	2.29088	0.838	1.422	1.1471	0.43811	2.55E+01	8.09E-01	2.92E-04	8.06E-02	2.63E-01	1.34E-01	8.13E+00	2.98E+00	3.19E+01
86	486583.18	3855693.15	3.58593	0.41484	2.69521	2.11197	0.852	1.334	1.1043	0.41484	2.50E+01	7.66E-01	2.81E-04	7.43E-02	2.67E-01	1.25E-01	7.82E+00	2.82E+00	3.12E+01
87	486633.18	3855693.15	3.49575	0.38941	2.60598	1.9967	0.882	1.245	1.065	0.38941	2.44E+01	7.19E-01	2.71E-04	7.03E-02	2.76E-01	1.17E-01	7.55E+00	2.65E+00	3.05E+01
88	486683.18	3855693.15	3.38461	0.37843	2.60933	1.95665	0.966	1.224	1.0384	0.37843	2.36E+01	6.99E-01	2.72E-04	6.89E-02	3.03E-01	1.15E-01	7.36E+00	2.57E+00	2.96E+01
89	486733.18	3855693.15	3.31972	0.3805	2.62164	1.94429	1.014	1.217	1.0422	0.3805	2.31E+01	7.03E-01	2.73E-04	6.84E-02	3.18E-01	1.14E-01	7.38E+00	2.59E+00	2.91E+01
90	486783.18	3855693.15	3.25883	0.38449	2.67996	1.94188	1.062	1.224	1.0651	0.38449	2.27E+01	7.10E-01	2.79E-04	6.83E-02	3.33E-01	1.15E-01	7.55E+00	2.61E+00	2.89E+01
91	486533.18	3855743.15	3.73118	0.45291	3.06228	2.44639	0.876	1.489	1.1729	0.45291	2.60E+01	8.36E-01	3.19E-04	8.61E-02	2.74E-01	1.40E-01	8.31E+00	3.08E+00	3.26E+01
92	486583.18	3855743.15	3.69663	0.43325	2.96488	2.19755	0.891	1.375	1.1137	0.43325	2.58E+01	8.00E-01	3.09E-04	7.73E-02	2.79E-01	1.29E-01	7.89E+00	2.95E+00	3.20E+01
93	486633.18	3855743.15	3.60428	0.41586	2.86936	2.07949	0.897	1.288	1.0926	0.41586	2.51E+01	7.68E-01	2.99E-04	7.32E-02	2.81E-01	1.21E-01	7.74E+00	2.83E+00	3.13E+01
94	486683.18	3855743.15	3.48824	0.40539	2.843	2.04907	0.965	1.261	1.099	0.40539	2.43E+01	7.49E-01	2.96E-04	7.21E-02	3.02E-01	1.19E-01	7.79E+00	2.76E+00	3.06E+01
95	486733.18	3855743.15	3.4017	0.39252	2.75306	1.99036	1.086	1.231	1.0928	0.39252	2.37E+01	7.25E-01	2.87E-04	7.01E-02	3.40E-01	1.16E-01	7.74E+00	2.67E+00	3.00E+01
96	486783.18	3855743.15	3.33272	0.39493	2.69415	2.04019	1.103	1.242	1.0845	0.39493	2.32E+01	7.29E-01	2.80E-04	7.18E-02	3.46E-01	1.17E-01	7.68E+00	2.69E+00	2.95E+01
97	486533.18	3855793.15	3.79906	0.46297	3.14528	2.59483	0.918	1.54	1.2266	0.46297	2.65E+01	8.55E-01	3.27E-04	9.13E-02	2.88E-01	1.45E-01	8.69E+00	3.15E+00	3.34E+01
98	486583.18	3855793.15	3.8105	0.44109	3.02344	2.29736	0.93	1.401	1.1277	0.44109	2.66E+01	8.15E-01	3.15E-04	8.09E-02	2.91E-01	1.32E-01	7.99E+00	3.00E+00	3.29E+01
99	486633.18	3855793.15	3.6955	0.44081	2.99883	2.24076	0.952	1.386	1.1433	0.44081	2.58E+01	8.14E-01	3.12E-04	7.89E-02	2.98E-01	1.30E-01	8.10E+00	3.00E+00	3.22E+01
100	486683.18	3855793.15	3.57664	0.43818	3.03008	2.21603	0.968	1.338	1.1458	0.43818	2.49E+01	8.09E-01	3.15E-04	7.80E-02	3.03E-01	1.26E-01	8.12E+00	2.98E+00	3.14E+01
101	486733.18	3855793.15	3.4658	0.42482	2.9167	2.19894	1.101	1.288	1.1262	0.42482	2.42E+01	7.85E-01	3.04E-04	7.74E-02	3.45E-01	1.21E-01	7.98E+00	2.89E+00	3.06E+01
102	486783.18	3855793.15	3.3967	0.41519	2.79284	2.21026	1.179	1.266	1.1102	0.41519	2.37E+01	7.67E-01	2.91E-04	7.78E-02	3.69E-01	1.19E-01	7.87E+00	2.82E+00	3.01E+01
103	486533.18	3855843.15	3.8877	0.46526	3.22306	2.70084	1.14	1.564	1.2621	0.46526	2.71E+01	8.59E-01	3.36E-04	9.51E-02	3.57E-01	1.47E-01	8.94E+00	3.16E+00	3.43E+01
104	486583.18	3855843.15	3.88061	0.44931	3.11324	2.43296	0.97	1.452	1.1857	0.44931	2.71E+01	8.30E-01	3.24E-04	8.56E-02	3.04E-01	1.36E-01	8.40E+00	3.06E+00	3.38E+01
105	486633.18	3855843.15	3.79135	0.45163	3.08155	2.40869	0.995	1.437	1.1814	0.45163	2.64E+01	8.34E-01	3.21E-04	8.48E-02	3.12E-01	1.35E-01	8.37E+00	3.07E+00	3.31E+01
106	486683.18	3855843.15	3.6711	0.45311	2.94629	2.42104	1.017	1.415	1.181	0.45311	2.56E+01	8.37E-01	3.07E-04	8.52E-02	3.19E-01	1.33E-01	8.37E+00	3.08E+00	3.23E+01
107	486733.18	3855843.15	3.55335	0.45702	2.88128	2.40518	1.079	1.394	1.1779	0.45702	2.48E+01	8.44E-01	3.00E-04	8.47E-02	3.38E-01	1.31E-01	8.35E+00	3.11E+00	3.14E+01
108	486783.18	3855843.15	3.44922	0.44346	2.86509	2.38427	1.209	1.355	1.1644	0.44346	2.40E+01	8.19E-01	2.98E-04	8.39E-02	3.79E-01	1.27E-01	8.25E+00	3.02E+00	3.07E+01
109	486533.18	3855893.15	4.03251	0.46628	3.23146	2.7256	1.2	1.533	1.2568	0.46628	2.81E+01	8.61E-01	3.36E-04	9.59E-02	3.76E-01	1.44E-01	8.90E+00	3.17E+00	3.53E+01
110	486583.18	3855893.15	3.95095	0.46403	3.19807	2.67942	1.267	1.511	1.2504	0.46403	2.75E+01	8.57E-01	3.33E-04	9.43E-02	3.97E-01	1.42E-01	8.86E+00	3.16E+00	3.47E+01
111	486633.18	3855893.15	3.87876	0.46022	3.13436	2.62393	1.097	1.487	1.2194	0.46022	2.70E+01	8.50E-01	3.26E-04	9.24E-02	3.44E-01	1.40E-01	8.64E+00	3.13E+00	3.40E+01
112	486683.18	3855893.15	3.7657	0.45986	3.01878	2.56235	1.073	1.481	1.209	0.45986	2.63E+01	8.49E-01	3.14E-04	9.02E-02	3.36E-01	1.39E-01	8.57E+00	3.13E+00	3.31E+01
113	486733.18	3855893.15	3.64643	0.46328	2.96504	2.537	1.109	1.479	1.1987	0.46328	2.54E+01	8.56E-01	3.09E-04	8.93E-02	3.48E-01	1.39E-01	8.49E+00	3.15E+00	3.22E+01
114	486783.18	3855893.15	3.52443	0.46822	2.9275	2.54329	1.229	1.481	1.2087	0.46822	2.46E+01	8.65E-01	3.05E-04	8.95E-02	3.85E-01	1.39E-01	8.56E+00	3.18E+00	3.14E+01